C'mon Fellers!

Here's a whole motor fleet 'n a FREE garage 'n everything!

You can't beat this for Christmas joy!

Christmas morning . . . the faint jingle of sleigh bells, tossed on the horns of reindeer, heralds the departure of the kindly old benchwarmer gentleman who has just climbed up the chimney and dashed away to spread joy to other kiddies.

. . . a restless movement of bed clothes, as a tired little warrior climbs out of the land of Nod . . . sleepy eyelids open, hesitatingly . . . widely . . . and a fevered, ish scramble as they bet pastor to the fireplace where he hung the biggest stocking he could find!

"Daddy! Mother! Look! Look! A whole motor fleet 'n a garage and everything! See my Yellow Cab and my blue Coupe with doz wheels! 'N my Fordson Tractor to plow 'n haul 'n everything!"

Wonderful reproductions
No mechanism
to get out of order

Toys that last almost forever! They won't break because they are built of sturdy cast iron, with no clockwork to get out of order and soon cause the toy to be cast aside. These toys continue to give joy long after most children's gifts have gone to the "happy hunting ground."

Really wonderful toys—faithful reproductions of their "big brothers." The Toy Yellow Cab with a removable driver looks exactly like the big Yellow Cabs that fill the streets of cities all over the world. The Toy Fordson Tractor is a small edition of the one built by Henry Ford, finished in gray, red and gold. The Toy Coupe is a classy car, finished in suburban blue.

Cut-out Garage Free when whole fleet is ordered

And now is the best news of all. When the whole fleet of three is ordered (of course, every real boy and girl wants the whole toy motor fleet), you will receive absolutely free a beautiful garage big enough to hold the three toys. It comes all ready with directions for putting out. There will be a lot of fun in putting it together, with its two big swinging doors, front sidewalk, gasoline pump, skylight and windows.

These are the original and genuine Arcade motor toys—which is less than a year have become the most popular toys in America! Insist on seeing the name "Arcade" printed on every carton or stamped on the bottom of each toy. That "Arcade" name stands for quality most through.

Here you have the opportunities of giving some youngsters more real fun than you ever believed $3.50 could buy. Where economy is necessary the fleet of three and free garage will make their youngsters happy.

These splendid toys, either singly or "all three with the garage free," can be bought for Christmas at the guaranteed low prices quoted below at almost every department store, general store, toy department, hardware, novelty, one store or two, even many cigar stores, railway stations, hotel lobbies and local novelty companies. If by any chance your dealer can't supply you, order direct from the factory and we will prepay the parcel post or express charges anywhere in the United States. Ordered separately, the No. 1 Toy Yellow Cab is $1.50; Toy Fordson Tractor 50c; Toy Coupe, $1.50; and the Arcade Garage is worth $1.50. When you buy all at one time for only $3.50, you get the beautiful Arcade Garage included FREE, and save a dollar.

If you order separately be sure and use one of the coupons, as it must be sent by your nearest dealer. Canadian shipments are made exactly as above.

Don't overlook the coupons. Be probable that next year, too, and the fleet Santa Claus is almost up to the limit.

See your dealer today—
or use one of the coupons and mail to
ARCADE MFG. CO., FREEPORT, ILL.

Arcade Motor Fleet

No. 1 Toy Yellow Cab $1.50

Brightly finished in yellow and black with white lines. Length, 9 in., weight, 2½ lbs., wheel base, 6 in.

Toy Fordson Tractor .50

Finished in gray, red and gold. Length, 5 in. Front wheels mounted to swivel. Will travel over hard surface without upsetting.

Toy Coupe . . . 1.50

Suburban blue, gaily lined with white lines; the whole wheel base, 6 in. length, 4½ in.

Total . . . $3.50

Toy Arcade Garage

with real brick walls, big swinging doors, windows, skylight, gasoline pump is extra. Only (worth $1.50) *FREE*. Order the fleet and you get the garage

FREE

NO GARAGES SOLD SEPARATELY

Use this Coupon if you want Separate Toys

ARCADE MFG. CO., Freeport, Ill.
Please send me prepaid

Qty.	Kind	Price
	No. 1 Toy Yellow Cab (lamps)	at $1.50
	No. 1 Toy Yellow Cab (small)	at 1.00
	Toy Fordson Tractor	at .50
	Toy Coupe	at 1.50
	Toy Arcade Garage	at 1.50
	Toy Fleet Package	at $3.50

(Add amounts and enclose)
Write at Business and Tax rate here.
Canadian shipments are made exactly as above.

I enclose [Check / Money Order] for $ [ ] in full payment

Name

Address

City State

ARCADE TOY MOTOR FLEET

Use this Coupon for Whole Fleet and Free Garage—$4.50 value for $3.50

ARCADE MFG. CO., Freeport, Ill.
Please send me prepaid

Quantity Kind

Complete Arcade Toy Motor Fleet consisting of large Toy Yellow Cab, Fordson Tractor and Coupe, including FREE garage, at $3.50 each. Regardless of U. S. postage and the low rates of Express.

Canadian shipments are made exactly as above at $4.50 per fleet.

I enclose [Check / Money Order] for $ [ ] in full payment

Name

Address

City State

Aladdin Homes Save $200 to $800

An Aladdin Home in Stucco

Aladdin success is chiefly due to the money saved for Aladdin home owners. You will save a substantial amount thru eliminating dealers' profits, saving over 18 per cent waste in lumber and lowering labor costs in building. Aladdin Homes come to you direct from one of our mills located in the nearest timber country, thereby reducing freight charges. They are built of standardized materials saving waste, and are cut to fit saving hundreds of hours of carpenter labor. Over a hundred beautiful and modern homes are pictured and priced in the Aladdin catalog. Send stamps for this catalog No. 1614 at once.

Cozy 6-room Bungalow

Story and Half Bungalow

Reduce Labor Costs

The lumber that's wasted costs just as much as the lumber that's used. Aladdin can prove to you a saving of practically every fifth dollar spent for lumber. That's surely worth while. Aladdin can prove a saving of practically every fourth dollar in labor. That's worth saving too. Will you be satisfied to build without getting the Aladdin catalog and proving these statements?

A Bungalow of 7 Rooms

What You Get

You receive in one shipment all the timbered frame work, millwork, the siding, outside finish, porch, shingles, windows, doors, interior woodwork, lath, glass, nails, hardware, lock sets, paints, stains, and varnish. Send stamps today for Aladdin catalog No. 1614.

Two-Story Type

The Aladdin Co.

Bay City, Michigan

Branches **(Offices and Mills) Wilmington, N. C.; Hattiesburg, Miss.; Portland, Oregon**

Canadian Offices and Mills:
Toronto *Vancouver* *St. John* *Winnipeg*

A Popular Bungalow

If you are cordially invited to visit our Exhibit at the Auto Shows, New York—Space 31—Chicago—Space 19-29
If you cannot accept this Invitation, have your Dealer demonstrate to you, the Labor Saving and Service Giving qualities of Schrader Universal Tire Valve Accessories.

A. SCHRADER'S SON, INC.
MAKERS OF THE SCHRADER UNIVERSAL TIRE VALVE
BROOKLYN, N.Y.
CHICAGO TORONTO LONDON

To the WEST INDIES

Panama, So. America, and Windward Islands

THE CANADIAN PACIFIC
Offers Two Remarkable Cruises de Luxe by the Splendid
"EMPRESS OF BRITAIN"
22,200 tons displacement
Largest Steamer to the Tropics
Oil-burning—no coal dust—cinders—soot

LEAVING NEW YORK
JAN. 21st and FEB. 21st
27 Days—Fares from $300.00

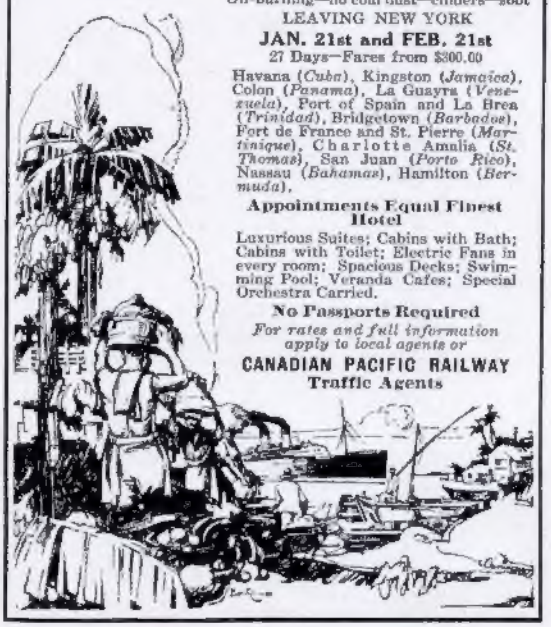
Havana (*Cuba*), Kingston (*Jamaica*), Colon (*Panama*), La Guayra (*Venezuela*), Port of Spain and La Brea (*Trinidad*), Bridgetown (*Barbados*), Fort de France and St. Pierre (*Martinique*), Charlotte Amalia (*St. Thomas*), San Juan (*Porto Rico*), Nassau (*Bahamas*), Hamilton (*Bermuda*).

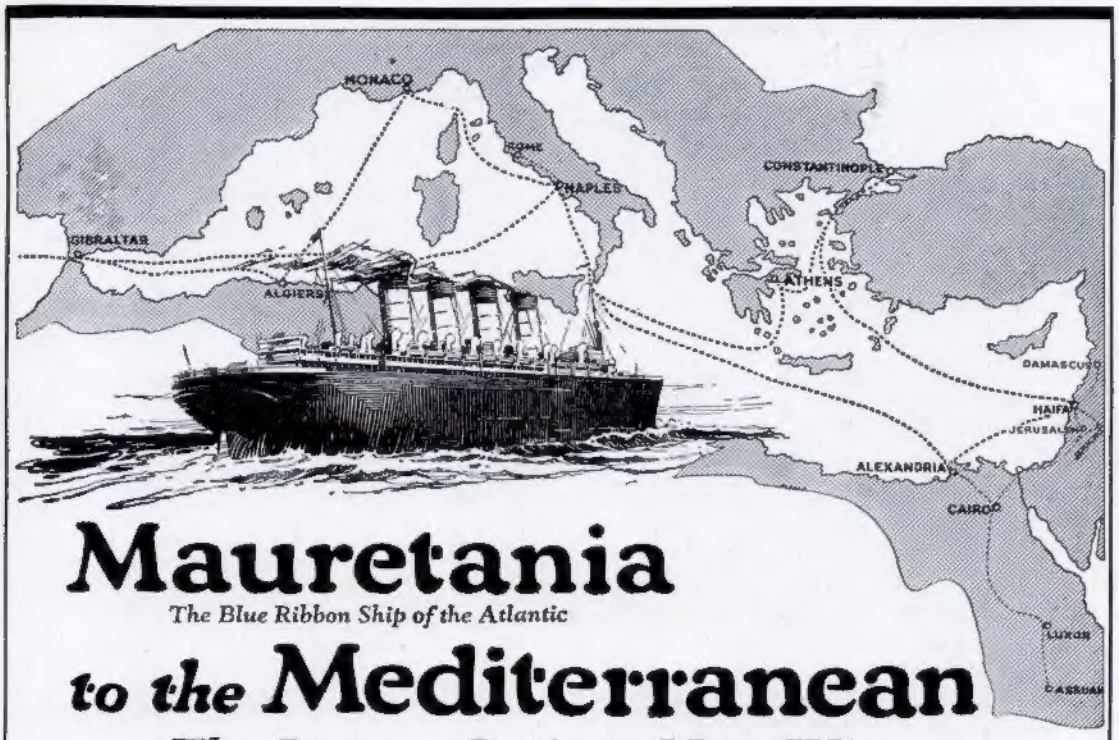
Appointments Equal Finest Hotel

Luxurious Suites; Cabins with Bath; Cabins with Toilet; Electric Fans in every room; Spacious Decks; Swimming Pool; Veranda Cafes; Special Orchestra Carried.

No Passports Required

For rates and full information apply to local agents or
CANADIAN PACIFIC RAILWAY
Traffic Agents





Mauretania

The Blue Ribbon Ship of the Atlantic

to the Mediterranean

The Luxury Cruise—Next Winter

From New York February 10th, 1923

These two magical words, **Mauretania—Mediterranean,** suggest the supreme luxury of modern sea cruising—swiftly and comfortably across the Atlantic, leisurely along the shores of the most beautiful and interesting sea in the world—to the oldest and most fascinating of all lands.

The idea is inspiring and compelling. Its realization has been effected by the experienced Travel Department of the American Express Company in full cooperation with the Cunard Line—with all this means in ship management, service and cuisine. Prices $950 up according to stateroom. Reservations should be made at once.

In diverting *the Mauretania* from its regular ports for this Cruise, the Cunard Line departs from traditional policy to make a notable and unique epoch in Cruising history.

Inland excursions planned from all ports of call—Madeira—Gibraltar—Algiers—Monte Carlo—Italy, Rome, Naples—the Dardanelles—Constantinople—Greece, Athens, Eleusis, Marathon—Palestine, Haifa, Jerusalem, Bethlehem, Nazareth, Tiberias, Damascus—Egypt, Cairo, Memphis, and up the Nile to Luxor, Karnak, Thebes, Assuan and the First Cataract.

For full information, details, itinerary, etc., call at any American Express office or write direct to

American Express Travel Department

65 Broadway, New York, N. Y.

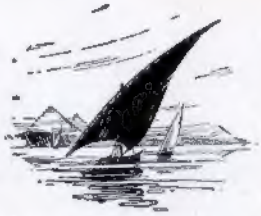
CRUISE Around the World

on the new palatial Cunarder **LACONIA**

From New York November 21st, 1922

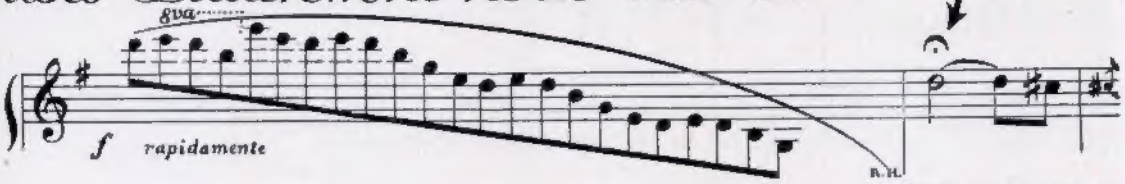
Bookings on this most interesting Cruise rapidly filling

30,000 wonder miles on land and sea. 130 Summer days in Winter. For full information address as above.



Whenever or wherever you travel always carry American Express Travelers Cheques

How long does Paderewski hold this D?



Copyright, 1922
The Apollo
Piano Co.

HAVE you played The Minuet? Or heard it played? You can tell *exactly* how Paderewski intended we should interpret his Minuet by hearing him play it for you on the Apollo Reproducing Piano. You can have him play it for you over and over again, just as he would play it *once* in concert—until you thoroughly grasp every detail of his interpretation.

Unlike the music of mere player pianos, the Apollo Reproducing Piano does actually give an exact reproduction of the original artist's playing without the slightest deviation in characteristic of touch, shading of tone or individuality of interpretation.

Paderewski, Hofmann, Gabrilowitsch, Godowski and scores of leading pianists may thus be heard in the home on the Apollo precisely as they are heard in concert.

The instrument which DOES IMMORTALIZE the playing of the great pianists

The APOLLO

TRADE MARK REGISTERED

Reproducing PIANO

Catalog on Request Catalog illustrating the various Apollo pianos, together with the name of nearest dealer where you may hear the Apollo, will be sent you on request, without obligation.

THE APOLLO PIANO COMPANY, 1552 Apollo Park, De Kalb, Ill.
Pacific Coast Branch, 985 Market St., San Francisco, Cal.

The Apollo Piano Company, 1552 Apollo Park, De Kalb, Illinois

Without obligation, send me your catalog. I would like information particularly on the following as checked.

- ☐ Grand Reproducing Piano
- ☐ Upright Reproducing Piano
- ☐ Foot Pedal Player Piano
- ☐ Installation of Reproducing Action in My Piano
- ☐ Full size Grand Piano without Reproducing Mechanism
- ☐ Baby Grand Piano without Reproducing Mechanism
- ☐ Upright Piano without Reproducing Mechanism

*Name*_____

Address _____

*My musical instrument dealer's name*_____

This photograph of the main business section of Salina, Kansas, was taken immediately after a heavy snowstorm. Notice how thoroughly the Avery "ROAD - RAZERS" are clearing the snow off the street.

Here is the Avery "ROAD - RAZER" cleaning the surface of the municipal skating pond. Just one of the many ways in which this wonderful "two-job" machine can be utilized.

Two Jobs, Both Well Done

Removing Snow—Maintaining Unpaved Roads and Streets

THINK of a machine you can keep busy all year 'round, shaving the roughest roads and streets smooth—doing more; faster and better work at lower cost than has ever been possible with any other method—then when snow fills your streets, removing it for you quickly, easily and at low cost. That's the Avery One-Man "Road-Razer"—the most successful machine ever designed for country road and unpaved street maintenance work.

Mr. L. P. Alber, Commissioner of Public Improvements, Great Bend, Kansas, writes: "Your representative dropped in here during our big snow last year and got the "Razer" out and went to work showing us how to clean snow off our streets. The machine did the best job of cleaning off snow from the streets that we ever saw done by any machine. We bought it and as soon as the snow went off, we put it right to work smoothing up the streets and it does an elegant job. Our man had no trouble at all in learning the operation of same. We are highly pleased with it."

Mr. Ed. Buchanan, Street Commissioner of Salina, Kansas, writes: "On Nov. 23, I wrote you in regard to how well we liked our Avery Road-Razer for working dirt streets. Now, we have found another use for it, cleaning snow off our streets. We find it a great machine for cleaning off the snow. It does it so nice and clean that the streets are dry in a short time. One man can clean off miles of streets in a day after a heavy snow at a very little expense. It's the best snow machine we ever saw."

Every one interested in public improvement should study the remarkable work of this machine. It has really created a sensation wherever it has been introduced. One man operates it—turns the machine in its tracks, or backs up at will—and raises or lowers the long, flexible, three-section blade to fit and shape any crown or surface of the road.

Sold on approval, subject to demonstration and strongly guaranteed.

Build your roads with Avery Road Tractors and then keep them smooth and clear with Avery "Road-Razers." Write today for prices and complete information.

AVERY CO., 223 Iowa St., Peoria, Illinois

Branch Houses: Madison, Fargo, Omaha, Minneapolis, Grand Forks, Sioux Falls, Aberdeen, Billings, Lincoln, Sidney, Neb., Des Moines, Indianapolis, Columbus, Kansas City, Wichita, Salina, Stuttgart and Sacramento

Distributors: Avery Company of Texas, Dallas, Amarillo and Beaumont, Texas

Also Other Principal Machinery Centers

AVERY

Road-Building, Maintenance and Hauling Machinery

The Avery "ROAD-RAZER" turns the ruttiest roads into a smooth boulevard by shaving off the bumps and ridges and filling in the low places. Does more and better work than several men with teams and **at less than half the expense.**

Yellowstone! Vacation costs much lower

NOW you can afford the vacation you owe yourself amid the wonders of Yellowstone Park this summer. Vacation costs are down!

Make the *complete* tour in Gardiner, out Cody—on a Burlington-Northern Pacific Planned Vacation. You can see Rocky Mountain (Estes) Park, Denver and the Colorado Playgrounds on one "circle trip" —for the low cost of a round trip to Yellowstone alone!

Send for free book— read about Yellowstone Park

Go This Year!

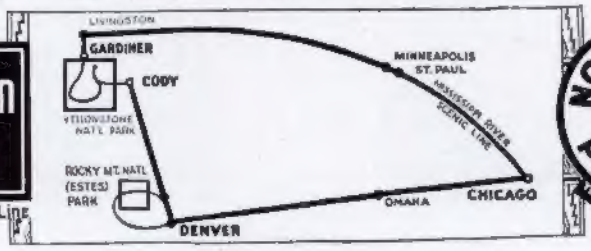
P. S. EUSTIS
Passenger Traffic Manager, C. B. & Q. R. R.
Chicago

A. B. SMITH
Passenger Traffic Manager, Northern Pacific Railway
St. Paul

Burlington - Northern Pacific Planned Vacations

Three great wonder spots—Yellowstone Park, Rocky Mountain (Estes) Park, and Colorado, all on one circle trip

Burlington Route
The National Park Line



NORTHERN PACIFIC
YELLOWSTONE PARK LINE

NEVER BE WITHOUT SOUP IN YOUR PANTRY

Meaty, marrowy Ox Tail joints

delicious vegetables
nourishing barley

Just the aroma from Campbell's Ox Tail Soup as it simmers in the saucepan is a challenge to your appetite—it is so rich and savory. And the minute you taste the first spoonful, you realize what a treat is ahead of you. The sliced ox tail joints are the very tenderest and finest the market affords. Their rich tasty broth is blended with diced carrots and turnips, puree of luscious tomatoes, hearty strengthening barley, ox tail joints (not used in making the broth), a dash of French leeks and parsley fresh from our own farms. Real, substantial food —and how delicious!

Soup so good you'll want to sing
Dance and play and everything,
For it is made the Campbell's way
Which means the best, as you will say!

21 kinds **12 cents a can**

Campbells' Soups

LOOK FOR THE RED AND WHITE LABEL

Here is a game the kids acclaim
With vigor, vim and zest.
Their pep and force derived, of course,
From "Ox Tail" at its best.

—and thereby hangs a tale

Campbell's is Ox Tail Soup at its best. Not merely a deliciously satisfying food, but a recognized health-builder as well. It brings you, in a tasty dish, the native vigor of meaty, marrowy ox joints; the beneficial properties of fresh vegetables and herbs; the strength-building qualities of barley.

Campbell's Ox Tail Soup

A rich, nourishing stock, made from medium-sized ox tails, combined with diced Chantenay carrots and golden turnips, tomato puree, sliced ox tail joints, celery, parsley, barley, a little leek, and a touch of flavoring to bring out the natural savor of this delicious combination. Order Ox Tail today.

21 kinds **12 cents a can**

Campbells' Soups

LOOK FOR THE RED AND WHITE LABEL

She's my girl and I'm her beau
Else she'd not be blushing so.
We will marry, live so gay
And have our Campbell's every day!

The big moment!

The first impression tells the story. Begin with a hearty plateful of Campbell's Ox Tail Soup and see what a glow of satisfaction goes round the table. Your guests will know there's a real dinner coming when you start with

Campbell's Ox Tail Soup

It is made from selected ox tails of medium size—the best size for making soup. The sliced joints and rich strengthening broth are blended with snow-white celery, Chantenay carrots and golden turnips, choice barley, tasty leeks—just a touch of these—and delicious flavoring.

21 kinds **12 cents a can**

Campbells' Soups

LOOK FOR THE RED AND WHITE LABEL

Good pea soup—just taste it!

Pea soup is a favorite round the world. Just dip your spoon tonight into a savory, creamy plateful of Campbell's. You'll say you never tasted such a pea soup—so mellow, so delicious, so rich in quality and satisfaction.

Campbell's Pea Soup is made from dainty tender peas blended, according to Campbell's own recipe, with pure country milk and fresh creamery butter, delicately spiced. How you will like it!

How to prepare Cream of Pea

Simply by adding an equal quantity of milk or cream to Campbell's Pea Soup just before serving you have a velvety, smooth, heavy Cream of Pea which will be one of your prize dishes. Even more attractive served in bouillon cups topped with whipped cream.

21 kinds **12 cents a can**

Campbells' Soups

LOOK FOR THE RED AND WHITE LABEL

SOUP MAKES THE WHOLE MEAL TASTE BETTER

The wish we wish is a great big dish
Of Campbell's and a spoon,
Then a mighty thump and a long, long jump
And we'll sail right over the moon.

One jump ahead!

It's health that keeps you there. When Campbell's Tomato Soup sends up its fragrant invitation and your appetite revives and spoonful after spoonful freshens and delights you,—then pleasure and health go hand in hand. Soup strengthens appetite and digestion—increases nourishment.

Campbell's Tomato Soup

is Nature's own tonic—the pure, stimulating juices and the rich "meat" of luscious Jersey tomatoes, strained free of skin, seeds and fibre to a velvet-smooth puree. There is the flavor and nutriment of fine butter, also, and the most delicate of spicing. The recipe is exclusively ours. But the sheer enjoyment is yours!

21 kinds **12 cents a can**

Campbell's Soups

LOOK FOR THE RED AND WHITE LABEL

GREAT FOR BREAKFAST INVIGORATING SOUP

C E D is the station for me—
C-ampbell's E-very D-ay!
Its radiation brings jubilation—
Just hear what your neighbors say!

Listen in!

Hear what your friends are saying about Campbell's Tomato Soup. Ask them how they like it. You'll soon learn that it's the most popular of all soups—the soup which has "broadcasted" the name and the fame of Campbell's to every corner of the land. Just one delicious spoonful and you'll know why.

Campbell's Tomato Soup

has all the goodness from the most luscious, tempting tomatoes—just the pure tonic juices and fruity parts strained to a rich, smooth puree, blended with golden table butter and delicately spiced. Have Campbell's Tomato Soup for luncheon or dinner today and see what a real joy it is to your appetite!

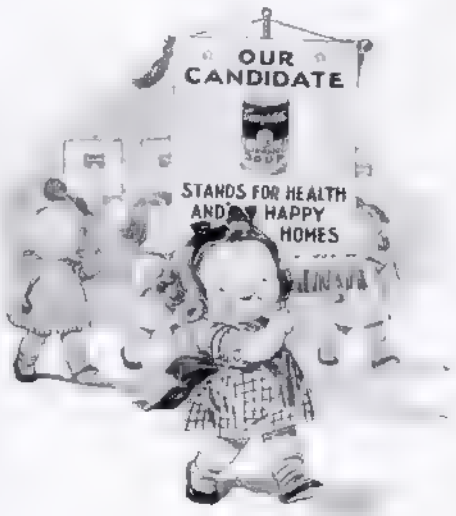
21 kinds **12 cents a can**

Campbells' Soups

LOOK FOR THE RED AND WHITE LABEL

GREAT FOR BREAKFAST—GOOD, HOT SOUP

We're the ladies' aid in a big parade
'Mid the shouting crowds and the din,
The issue, we state, is the full dinner plate
And Campbell's is sure to win!



The Women's Vote

Stand in any grocery store for a few minutes and hear the other customers give their orders for soup. "Campbell's" is the name you'll hear practically every time—any day, anywhere. Order some Campbell's yourself and enjoy a delicious hot plateful of

Campbell's Tomato Soup

Campbell's famous chefs in the spotless Campbell's kitchens make this soup from their own exclusive recipe, with vine-ripened tomatoes, luscious and tempting. Golden butter is blended in the rich puree and delicate spices add their zest. "Real tomato soup," you will say, "and it will get my vote every time!"

21 kinds **12 cents a can**

Campbells' Soups

LOOK FOR THE RED AND WHITE LABEL

See the bucking broncho buck
Snort and stamp at his hard luck!
The cowboy takes it all in fun—
Just thinks of Campbell's when he's done!

Leave it to experts!

The modern housekeeper leaves the soup making to trained specialists and gains just that much time and energy for other things. Every time she serves Campbell's Soup she knows it will have the same delicious quality and richness. As it comes hot and savory to the table, she takes real pride in her soup.

Campbell's Vegetable Soup

is a delicious, highly nutritious blend of fifteen different vegetables, hearty cereals, strong, rich beef stock, herbs and spices—thirty-two distinct ingredients in all. The very best that money can buy goes into this soup and it would be very difficult indeed to duplicate it in any home kitchen.

21 kinds **12 cents a can**

Campbell's Soups

LOOK FOR THE RED AND WHITE LABEL

CHILDREN LOVE GOOD SOUP

Almost a whole meal!

Campbell's Vegetable Soup combines in each delightful plateful fifteen luscious vegetables, hearty cereals, flavory herbs, and the invigorating essence of choicest beef. Each spoonful comes to you richly laden with delicious solid foods, blended with pure meat broth and tasty vegetable juices.

Campbell's Vegetable Soup

makes the best part of a luncheon—it is so nourishing and filling. At dinner you can easily reduce the number of your other dishes by serving it. There is so much rich, strengthening food in this Campbell's Soup that it is used as a regular article of diet in millions of homes. Have it today.

21 kinds **12 cents a can**

We call our garden "Campbell's Own."
There all the nicest things are grown—
Baby limas, darling peas
And everything that's sure to please.

Campbell's Soups

LOOK FOR THE RED AND WHITE LABEL

This summer- Canada

Majestic Mount Robson, Alt. 13,069 feet

Jasper Park and Mount Robson Park embrace the scenic mountain wonders of the Dominion. Canadian National Railways cross the Rockies at the lowest altitude, the easiest gradients, and in view of Canada's highest peaks.

Your Ideal Vacation

is realized in the "Highlands of Ontario". Algonquin Park—(Alt., 2,000 ft.)—Muskoka Lakes—Great Lakes—30,000 Islands Georgian Bay—Lake of Bays—Kawartha Lakes—Timagami—Nipigon—Quetico—Minaki. Fishing, Boating, Bathing, Golf, Camping, and Finest Hotels. Hay fever unknown.

Lower St. Lawrence and Maritime Provinces.

Fishing, Hunting and Camping

Real fishing and hunting in virgin streams and unspoiled big game country in NOVA SCOTIA, NEW BRUNSWICK, QUEBEC, ONTARIO, ALBERTA, and BRITISH COLUMBIA

For full information write

Canadian National or Grand Trunk Railways

at any of the following addresses. Ask for Booklet C, mentioning districts that interest you.

Boston, 294 Washington St.
Buffalo, 109 Chamber of Commerce Bldg.
Chicago, 64 West Adams St.
Cincinnati, 430 Traction Bldg.
Detroit, 527 Majestic Bldg.
Duluth, 430 W. Superior St.
Kansas City, 304 Railway Exchange Bldg.
Los Angeles, 6th and Spring Sts.
Minneapolis, 5 Second Ave., South
New York, 1270 Broadway
Pittsburgh, 506 Park Bldg.
Portland, Me., Grand Trunk Station
San Francisco, 689 Market St.
Seattle, 605 Second Ave.
St. Louis, 305 Merchants Laclede Bldg.
St. Paul, 370 Robert and Jackson Sts.

H. H. MELANSON
Passenger Traffic Manager
Canadian National Railways
Toronto, Can.

G. T. BELL
Passenger Traffic Manager
Grand Trunk Railway
Montreal, Can.

The HERRICK is selected by the most exclusive Apartment Hotels and HOMES!

The Choice *of the* Discriminating

The chosen refrigerator for $10,000 per year apartments is just as available for the most humble home. You can enjoy these *quality* features at ordinary refrigerator cost:

1. *HERRICK Cold Dry Air Circulation* keeps interior dry and clean. Keeps food fresh
2. *HERRICK Five Point Insulation* maintains lowest temperature at least ice cost.
3. *HERRICK Removable Drainage System* makes cleaning easy. Insures perfect sanitation
4. *HERRICK Outside Icing*—when specified—makes botherless icing in summer and iceless refrigeration in cool weather. Water cooler attachment if desired.

—MEMO for FREE BOOKLET—

"FOOD SAFETY" tells proper way to arrange food in any refrigerator and describes specific advantages of the HERRICK. Send now or clip this memo as a reminder to write soon.

HERRICK REFRIGERATOR COMPANY
205 River Street, Waterloo, Iowa

Food keeps BEST *in the*
HERRICK
THE ARISTOCRAT OF REFRIGERATORS

The CHALMERS SIX

Six-Cylinder Goodness At Its Best In New Series Chalmers $1295

Here is six-cylinder smoothness and snap and steadiness at its very best.

Every impulse of the motor beautifully and completely blended into the next—all six cylinders merging their power into an unbroken flow.

Clock-like precision in performance—the fruit of more than clock-like precision in shop practise.

A vigorous, virile car, overflowing with power-vitality, steadily, smoothly applied.

Flexible to a degree.

Amazingly swift in getting into action.

Rides as buoyantly as a boat.

The first Chalmers built entirely by the new and fine Chalmers organization which has been directing its affairs for more than a year past.

As fine in materials, in measurements, and in manufacturing processes—in grace and beauty of design, in fineness of finish—as money and high skill could make it.

Studied from any and every angle, one of the few really great six-cylinder values recent years have produced.

All Models Equipped With Disk Steel Wheels and Cord Tires

Chalmers Motor Car Company, Detroit, Michigan

Chalmers Motor Company of Canada, Limited, Windsor, Ontario

The CHALMERS SIX

It is not one single feature that causes the Chalmers Six to stand without serious competition in its field.

But in all that makes the six distinctive as a type, its superiorities are instantly apparent.

The Chalmers Six motor displays a smoothness of operation—a responsiveness to every driving requirement—that is a positive revelation to everyone who drives this car.

Every bit of the mechanism is carefully made to work in full harmony with the highly perfected motor and render long and satisfactory service.

Surmounting this wonderful chassis is a body of great beauty in line and finish, carefully designed to assure the greatest ease and comfort for driver and passengers.

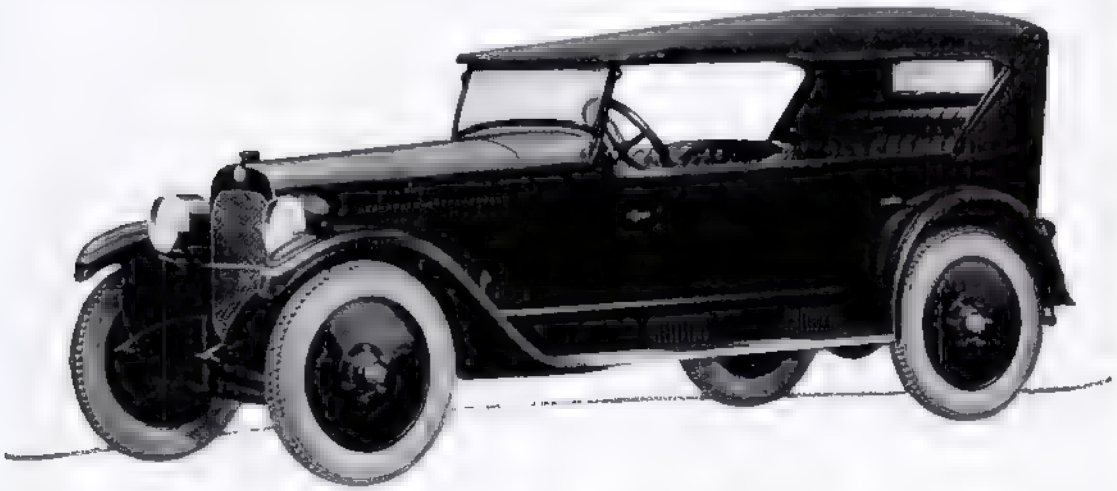
No matter what car you have driven, it will be well worth your time to learn how much the Chalmers Six has done for fine motoring, and at what moderate cost.

Chalmers Six Prices

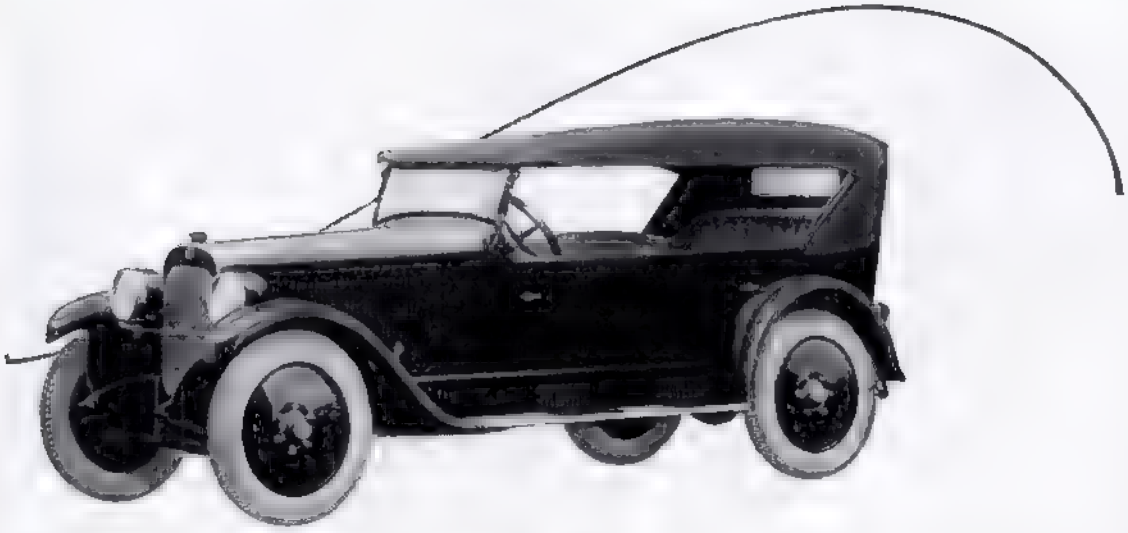
5-Passenger Touring Car	*$1185*	*Roadster*	*$1185*
7-Passenger Touring Car	*1345*	*Coupe*	*1595*

Prices f. o. b. Detroit. Revenue tax to be added

Chalmers Motor Car Company, Detroit, Michigan
Chalmers Motor Company of Canada, Limited, Windsor, Ontario



CHALMERS MOTOR CAR CO. Detroit Mich. U.S.A.



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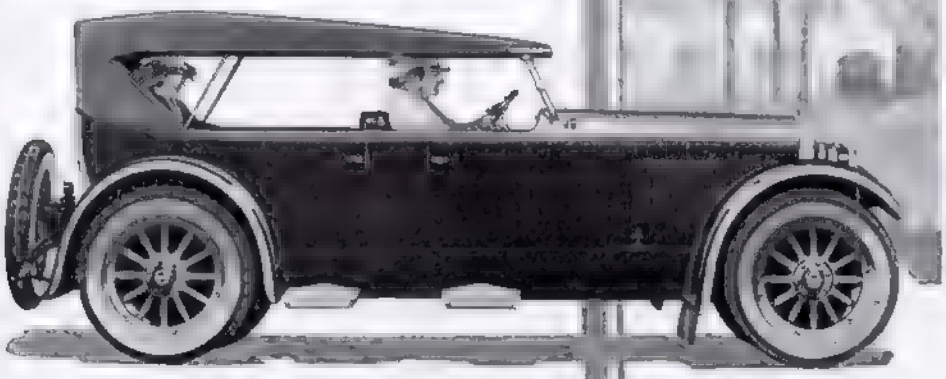
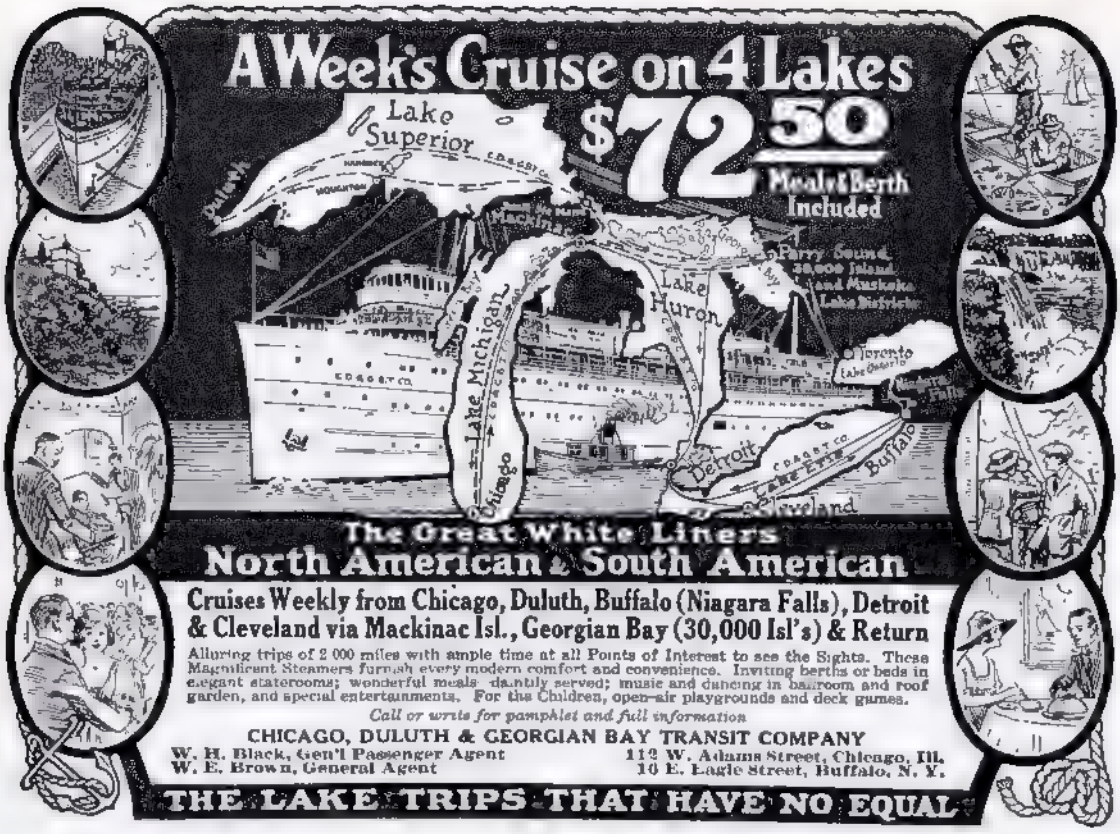


THE CHANDLER MOTOR CAR COMPANY
CLEVELAND



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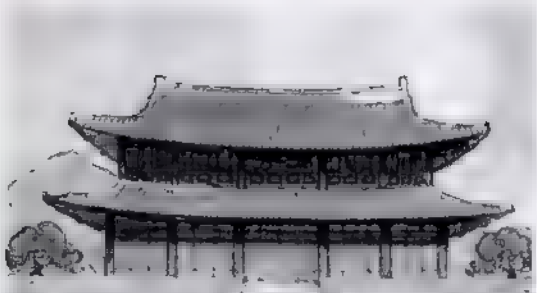

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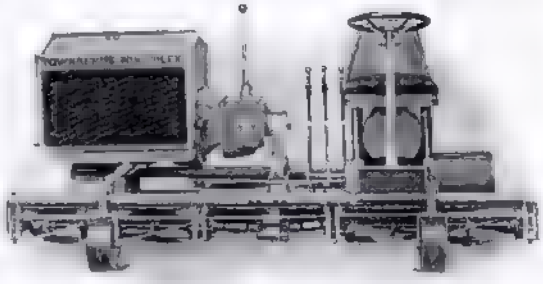

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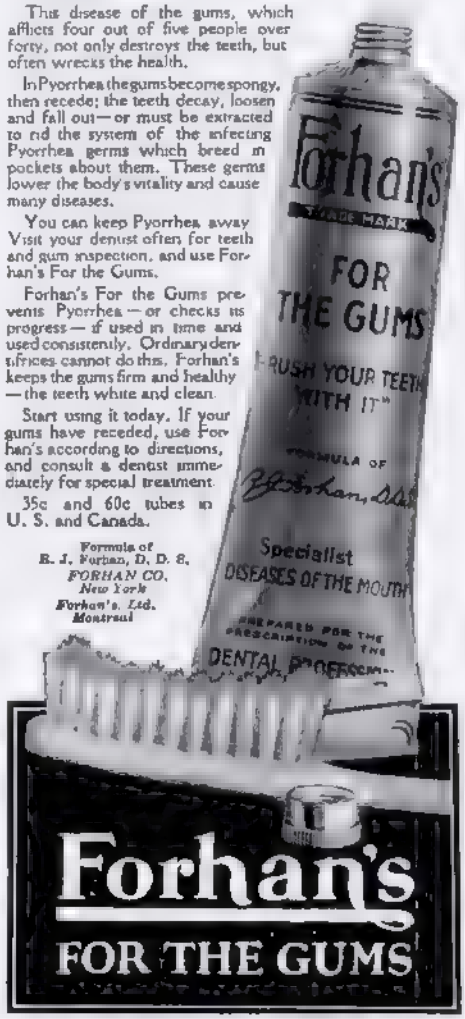

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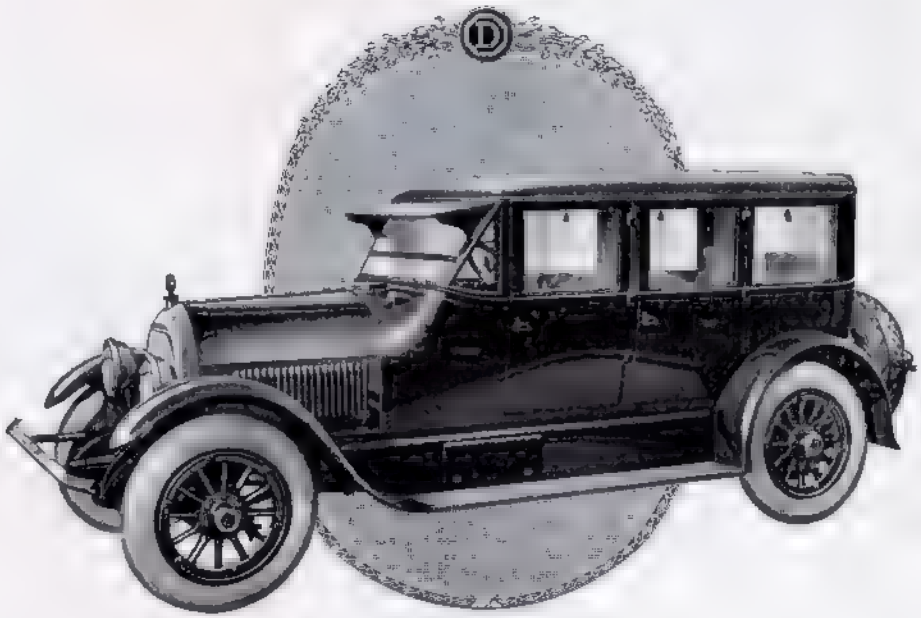

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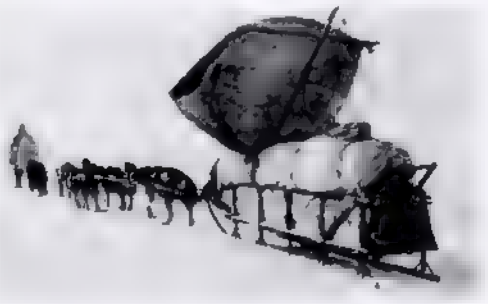

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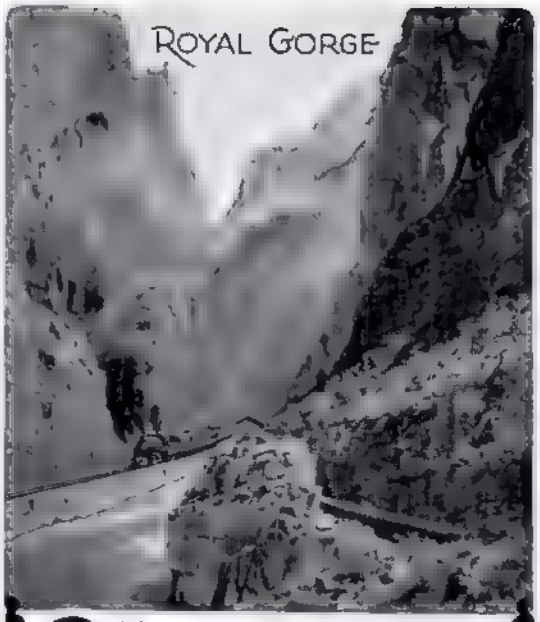

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The price is $980 f. o. b., Detroit

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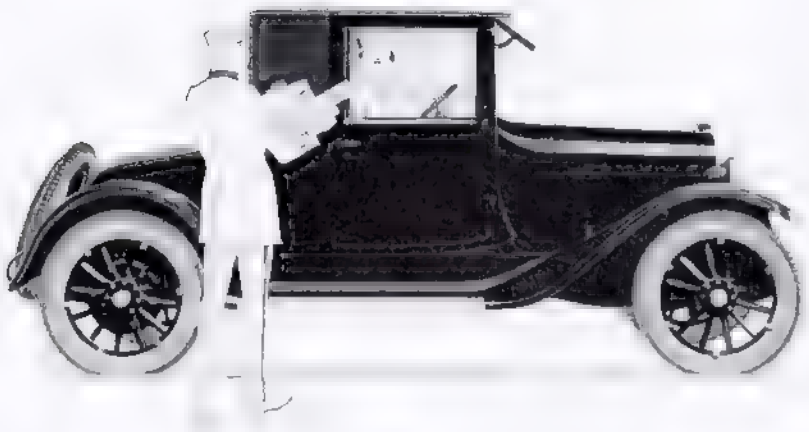

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Exceptional interest has been aroused by the practical arrangement of the interior.

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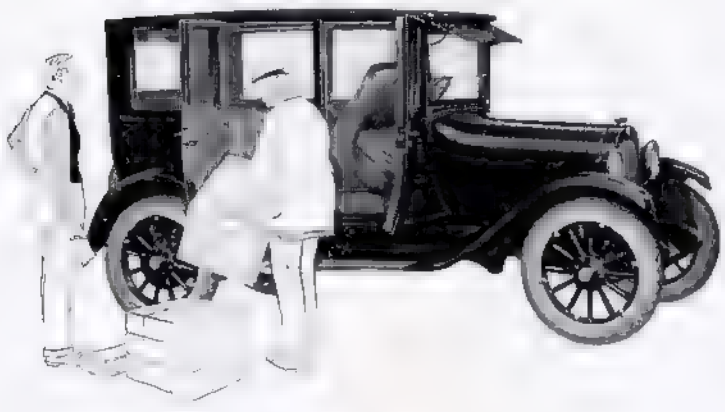

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THE WORLD'S BEST BULBS

Every year from this toyland of painted roofs, wandering dikes, and sky-blue tiles we import bulbs of unequalled quality and of many varieties, bringing color and fragrance to flower-lovers all over America.

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A glance at our price list will show you that for a few cents each you can grow hyacinths, tulips and narcissi which would cost $1.00 a plant or more in a retail shop. Grown in the home they will brighten your rooms from Christmas to Easter.

The bulbs require very little care. Simply plant them in soil from your garden, or use soil from a florist's shop if you live in the city. Keep them in a cool, dark place and water them occasionally until they are well rooted. Then bring them out to the light at intervals of ten days so that you may have a succession of flowers. When the buds are ready to open, you may transplant the bulbs to jardinieres, fern dishes, or bowls if you wish

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Rosea Maxima	Delicate Blush	2 00	15 00
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City of Haarlem	Best Yellow	2 00	15 00
Second sized Hyacinths in all best varieties		1 50	1 00
Miniature Hyacinths in separate colors		.70	4 [illegible]
Tulips			
Mme Krueger	Yellow	.85	6 00
Rose Admirable	Scarlet	.75	5 00
Early Duchess	Pure White	.75	5 00
Keizerkroon	Red & Yellow	.95	4 50
Rose Grisdelin	Beautiful Pink	.75	4 50
Narcissi or Daffodils			
Paper White	Monster Sizes	.75	5 00
Golden Spur Select	Large Yellow	[illegible]	[illegible] 00
Empress { Monster	Yellow	1 00	[illegible] 00
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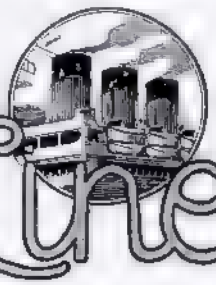

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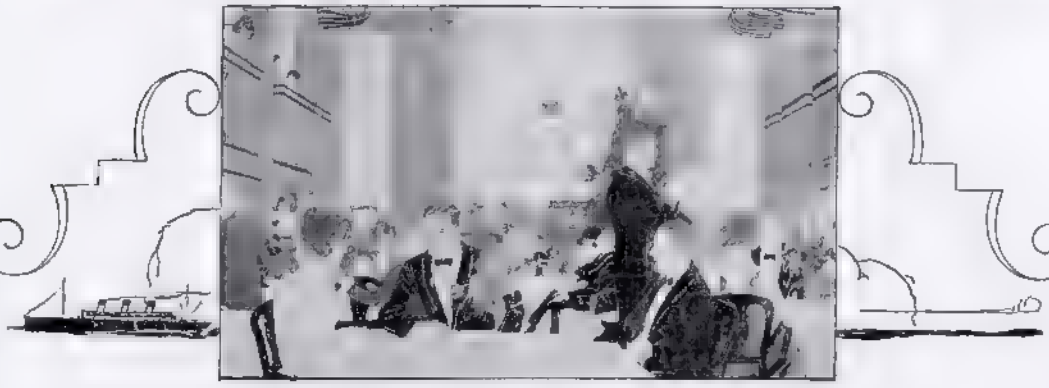

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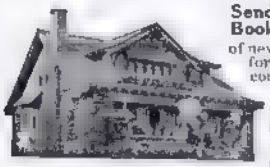

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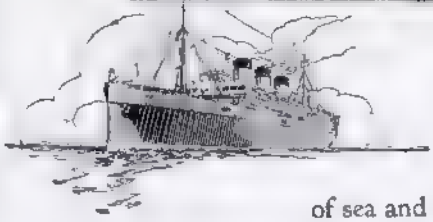

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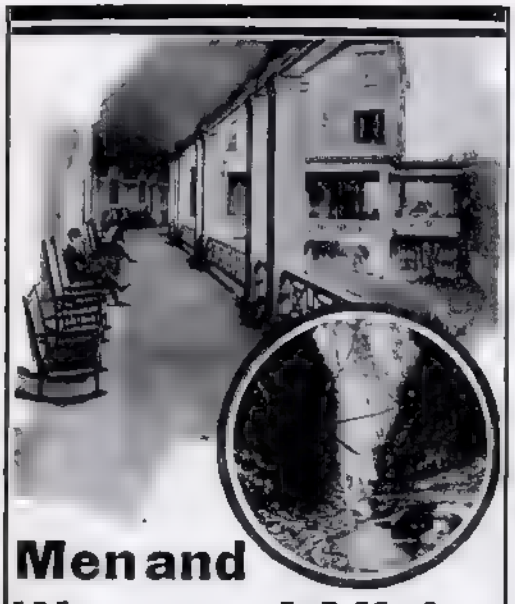

Men and Women of Affairs

Men and women of affairs today, business or social, accept the fact that periods of Intelligent Rest are necessary for efficiency. They appreciate that their Human Machine, even under the drive of great will and mental energy, is, after all, only a machine. Reason tells them that this machine must be watched and cared for. *In this connection:*

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Open all year. But invigorating winter is the best time to insure or secure the joy of triumphant health.

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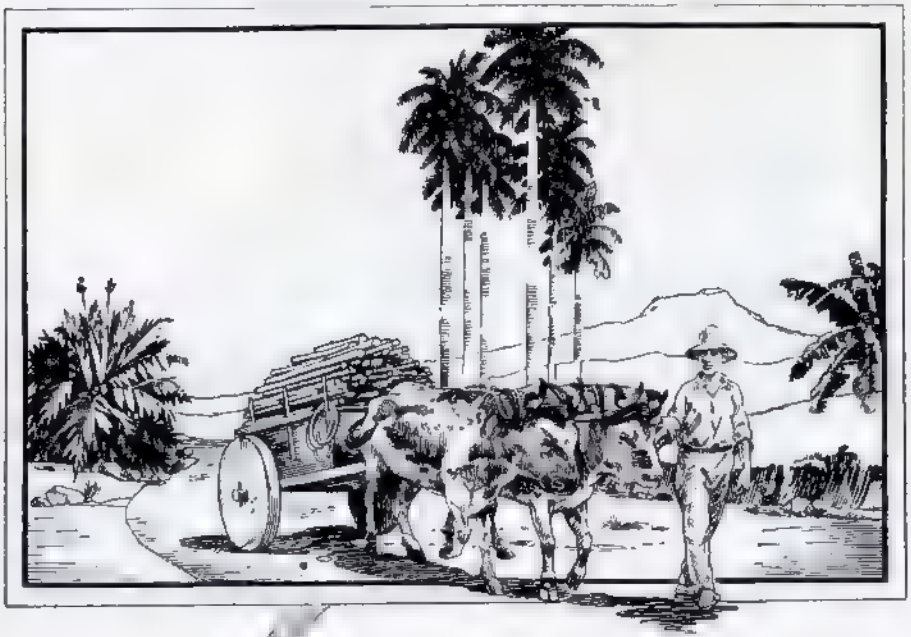

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It will have 1100 rooms and 1100 baths [illegible] to be a worthy sister.

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You may not be an engineer or a railroad man, but you have need for accurate time dozens of times a day. And besides the pride of ownership in a good, beautiful watch, there is the insistent demand of modern business upon every man's time, which makes an accurate watch an essential part of his equipment.

Get this "railroad accuracy." You can find in the Hamilton booklet, "The Timekeeper," the model and size that pleases you most. It shows ladies' beautiful wrist watches and thin models for men. All of them make worth-while and appreciated gifts. Write for a copy. It tells how to care for a fine watch

Hamilton Watches range in price from $40 to $200; movements alone, $22 (in Canada, $25) and up.

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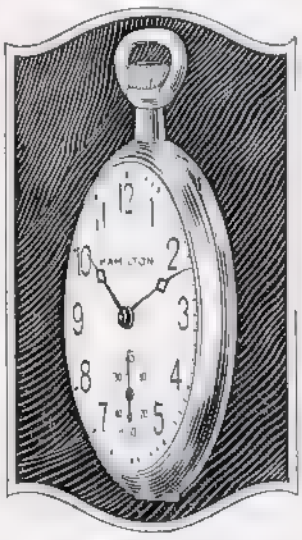
Everyman's watch—railroad accuracy with beauty of appearance. Write for descriptive booklet



The Watch of Railroad Accuracy

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for Christmas

"HOUBIGANT, PARIS." Where is the woman who does not respond to the magic of this name upon a gift? It is not only an emblem of quality, but is also a charming compliment to the fastidiousness of her taste.

For, to-day, as in the century past, Houbigant perfumes are preferred by all those women who have accustomed choice of the world's finest things.

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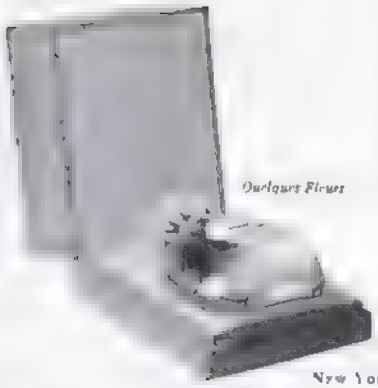

Quelques Fleurs

HOUBIGANT, PARIS, Parfumeur to
Queen Marie of Roumania, 1922,
Queen Victoria of England, 1839,
Empress Eugenie of France, 1857,
Empress Josephine of France, 1805,
Marie Antoinette of France, 1790.

HOUBIGANT, INC.

NEW YORK, 16 WEST 49TH ST. MONTREAL, 46 ST. ALEXANDER ST.

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Poudres a Sachets
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Savons
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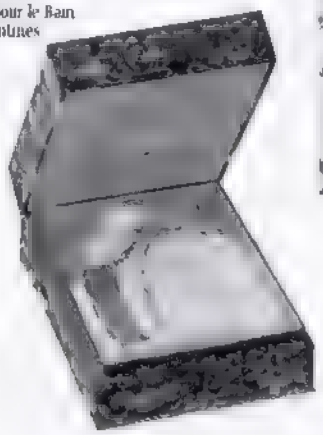
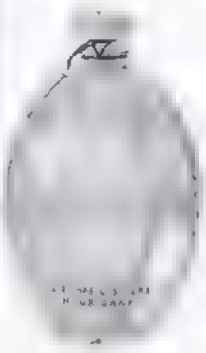


Mon Boudoir



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Parfumeur to Empress Eugénie 1857

Only perfumes of a truly incomparable quality could maintain throughout the century that unrivaled place which is Houbigant's. Today, as in the time of the *Empress Eugénie*, they are the choice of women distinguished not alone for greatness of name—or wit, or charm, or grace—but also for a faultless and exquisite taste. For this fastidious clientele Houbigant has created many other fine toiletries, all pervaded by the famous Houbigant scents. In poudres de talc, one may choose from Quelques Fleurs, Idéal, Mon Boudoir, Un Peu d'Ambre, La Rose France, Coeur de Jeannette, Quelques Violettes, and Fougère Royale. At smart American shops. One dollar everywhere.

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FINE as were the perfumes created by HOUBIGANT for *Marie Antoinette*, each succeeding generation of this old French House has brought to them some exquisite betterment. Today, the HOUBIGANT odeurs are famous the world over and are available not only in perfumes but also in other exquisite toiletries. In talcum powders you may choose from Quelques Fleurs, Ideal, Mon Boudoir, Un Peu d'Ambre, La Rose France, Coeur de Jeannette, Quelques Violettes, and Fougère Royale. At all smart American shops, and priced one dollar everywhere.

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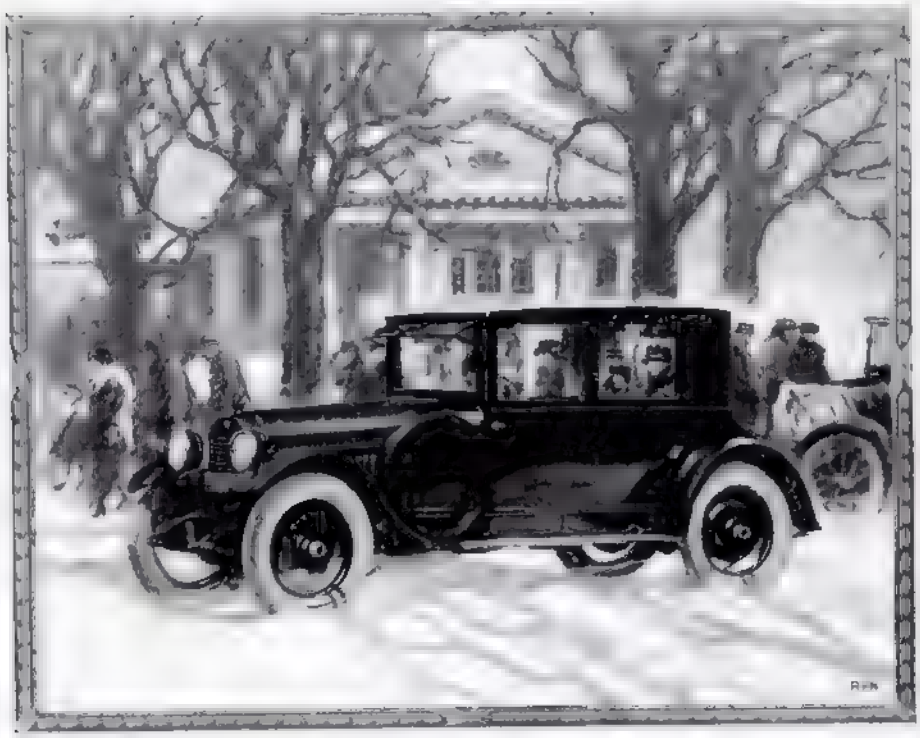
Hudson Coach $1625

Freight and tax extra

on the Famous Super-Six Chassis



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And with its new and improved Super-Six motor you get the best Hudson ever built. It has a smoothness unknown to earlier models. Its reliability and endurance excels even those Hudsons that have registered more than 100,000 miles of service.

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You will be proud to own a Hudson Coach.

Speedster, $1525 7 Passenger Phaeton, $1575 The Coach, $1625 The Sedan, $2295

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'SHO' DAT'S DE PAPAH AH WANTS'

THE FEEDING STATION

SPECIAL TIGI

CREAM
OF WHEAT

THE FORTUNE TELLER

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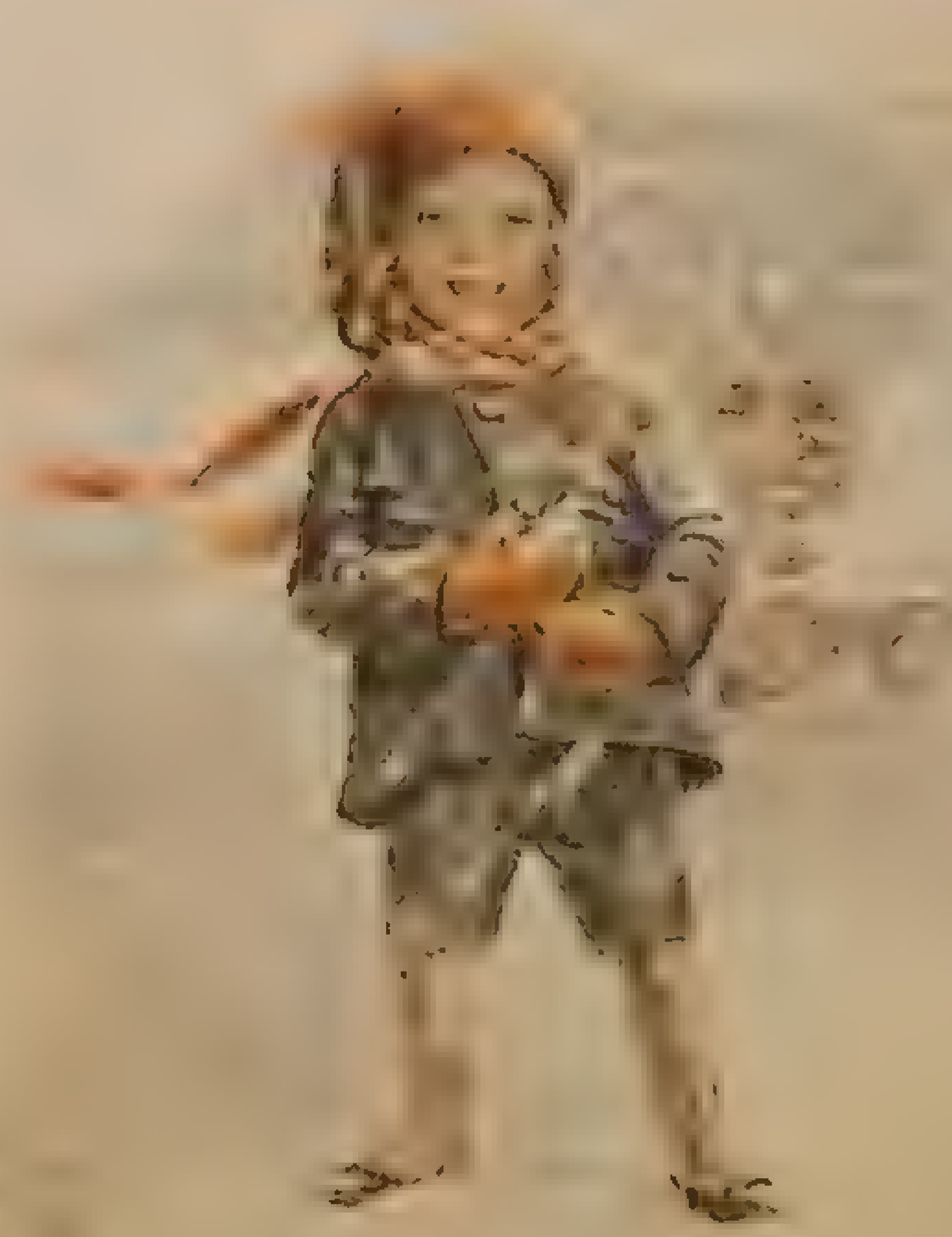
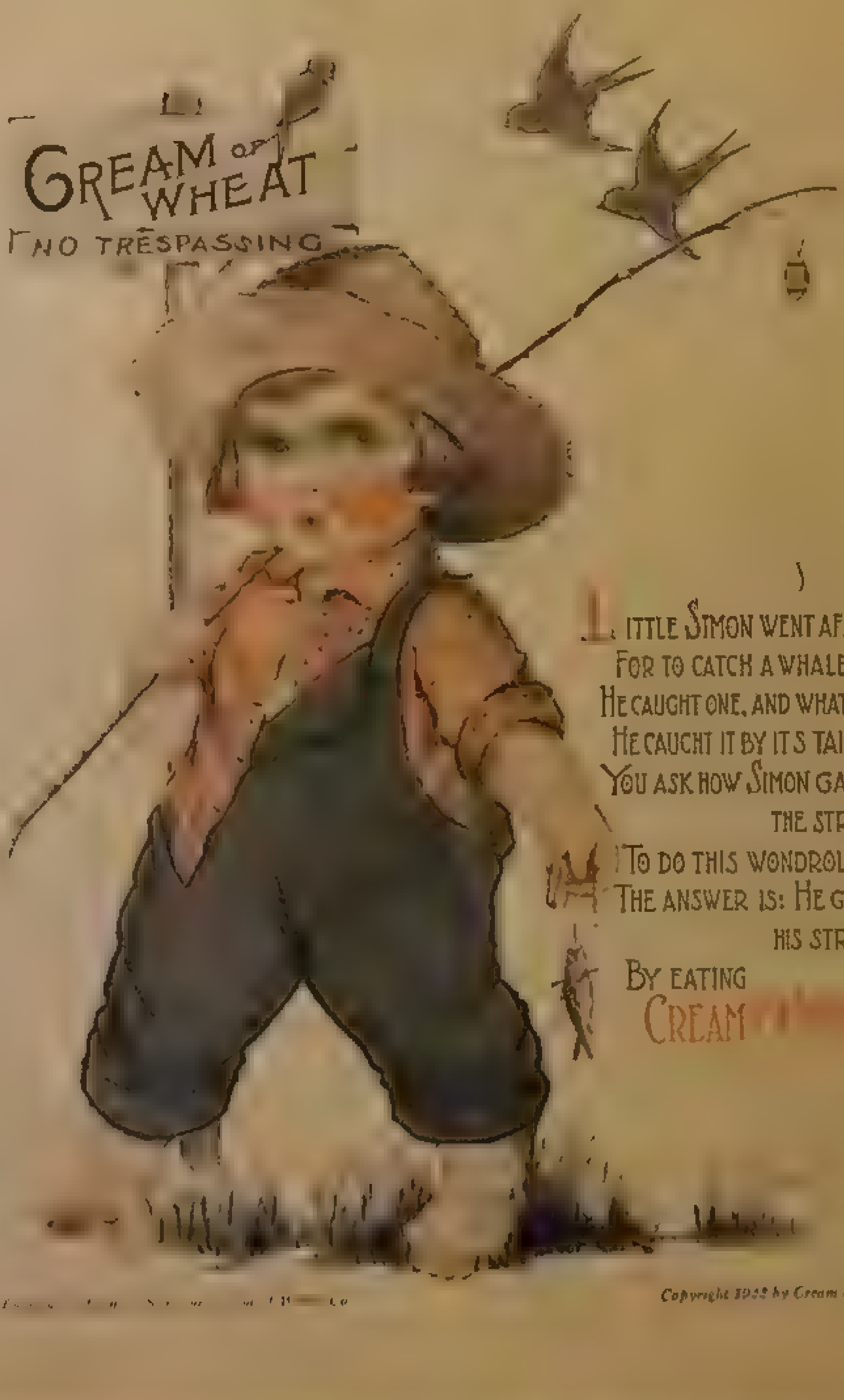


"What do I care
For snow or sleet.
My pantry is full of
CREAM O' WHEAT."



LITTLE SIMON WENT A FISHIN'
FOR TO CATCH A WHALE,
HE CAUGHT ONE, AND WHAT'S MORE-
HE CAUGHT IT BY ITS TAIL:
YOU ASK HOW SIMON GAINED
THE STRENGTH
TO DO THIS WONDROUS FEAT!
THE ANSWER IS: HE GAINED
HIS STRENGTH
BY EATING
CREAM

Copyright 1922 by Cream of Wheat Co

"Red Baby"

The Nation's Service Truck

IF you could get a long-range bird's-eye view of this vast country of ours, the landscape would lie before you like a patchwork quilt of fields. From ocean to ocean the millions of fertile farms lie side by side, eternally growing foodstuffs for human beings.

See the many denser centers of activity, with smoke plumes rising everywhere like tufts on the patchwork quilt. These are the cities, the crowded places where live Manufacture and Commerce and Traffic. These thrive only when Agriculture smiles, for Agriculture mothers the world. Our nation's life grows up out of the soil —let no man forget that.

Agriculture smiles her best when Service is at her command. Her millions upon millions of farm machines must be kept at work. Her power equipment must not fail. Her methods must keep pace with the times.

Now, if you will look again, very closely down on the scene, you will see a far-flung network of service establishments for Agriculture. These are the farm machine headquarters of McCormick-Deering dealers, men who have a broad conception of service in business and who carry it right to the homes of their customers. Thousands of these dealers have equipped themselves with International Speed Trucks like the one pictured on this page—trucks which, because of their flaming red color, speed, and snappy lines, are popularly called "Red Babies."

This army of "Red Baby" Service Trucks is carrying service to the most distant farms, upholding the Harvester Company's ninety-year reputation as the chief servant of Agriculture in the invention and building of time and labor-saving machines and power equipment. These trucks are ever on the road, hurrying at the farmer's beck and call, distributing efficient equipment, information, and useful aid, carrying into all communities the methods that increase production and wealth—a service unsurpassed in any field of activity.

The "Red Baby" of the McCormick-Deering dealer is working in the interest of every man, woman and child in the land. It is rightly named "The Nation's Service Truck."

INTERNATIONAL HARVESTER COMPANY
OF AMERICA
(INCORPORATED)
CHICAGO USA

93 Company Branches and 15,000 Dealers in the United States

JELL-O

America's Most Famous Dessert

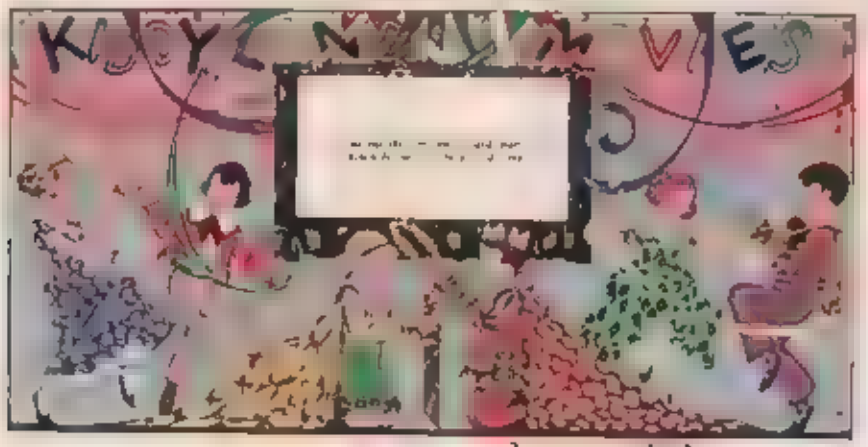
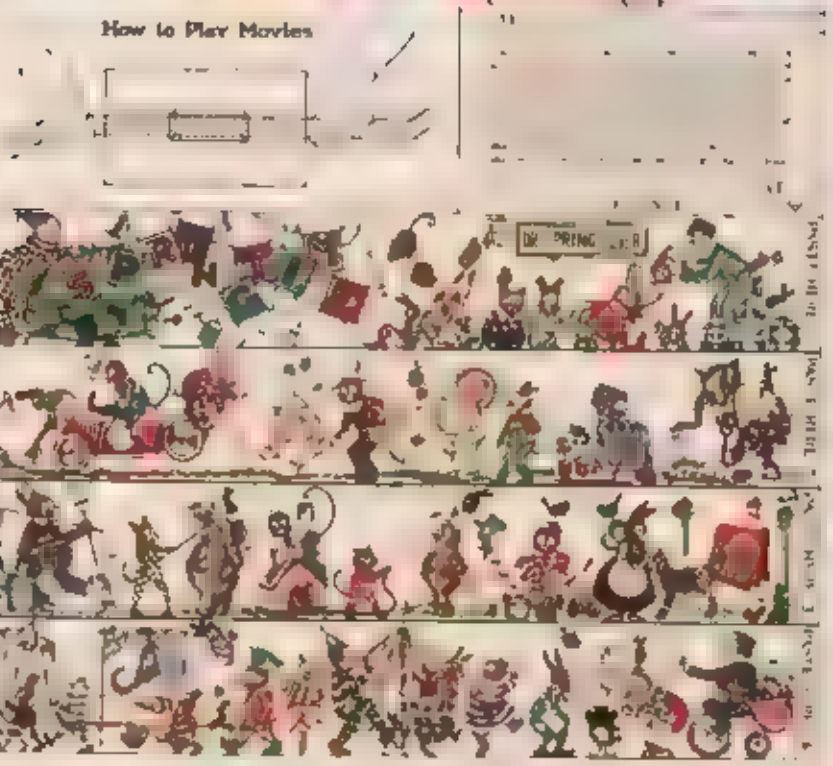
T[illegible]y of Jell-O is such that it yields perfect results for the most [illegible]e to that

[illegible] COMPANY

The Kiddyland Movie Cut-outs

By Th

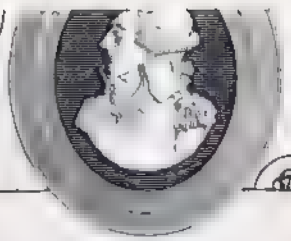
The Kiddyland Movie Cut-outs

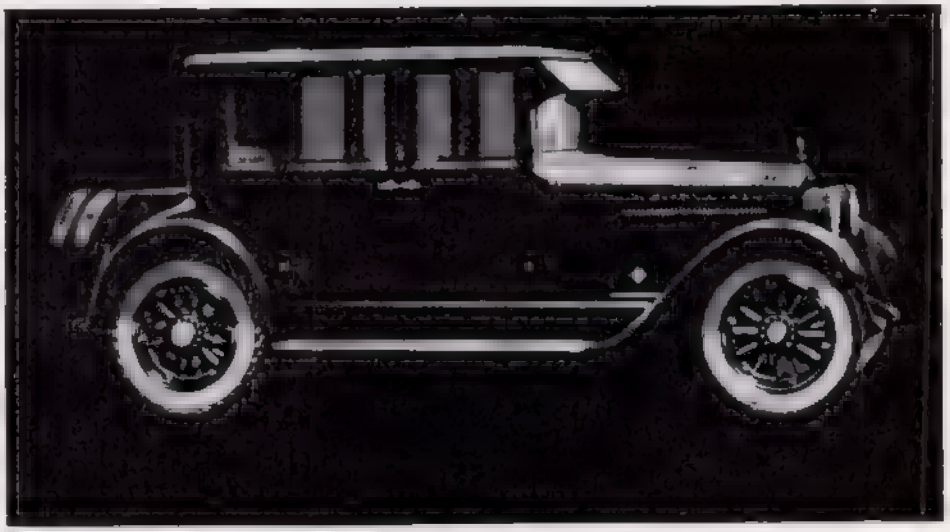


We do not know of one LaFayette owner who has failed to drive his car more than ten thousand miles the first year . . . What better evidence could there be of the charm of LaFayette performance?

LaFAYETTE MOTORS COMPANY at *Mars Hill* INDIANAPOLIS

LaFAYETTE





The Four-Door Coupe

The roster of LaFayette owners naturally includes many families whose requirements are for three or four fine motor cars.

And it is significant to note that during the past year a large number of such owners have standardized wholly on the LaFayette.

LaFayette Motors Company, *at Mars Hill*, Indianapolis

LAFAYETTE

Typical of the character of our owners everywhere are the people in your own community who own LaFayette motor cars

What more can we say about our car than this: it has found favor in the eyes of those who know and love fine things

LAFAYETTE

This Summer in a LaFayette

Fortunate indeed is he, who, with a summer's day and a sunny road before him, can explore green country-sides in a LaFayette.

The great car moves along quietly and serenely as the placid rivers that wind across the journey.

It spirits its passengers across hills almost as effortlessly as it coasts them down the slopes.

It loafs between friendly hedgerows or travels more swiftly than any other car we know.

Between morning and the sundown it can pass an incredible number of milestones without bringing weariness to those who travel with it.

And with each mile it winds beneath its wheels, it brings to those it carries, new enthusiasm and new trust.

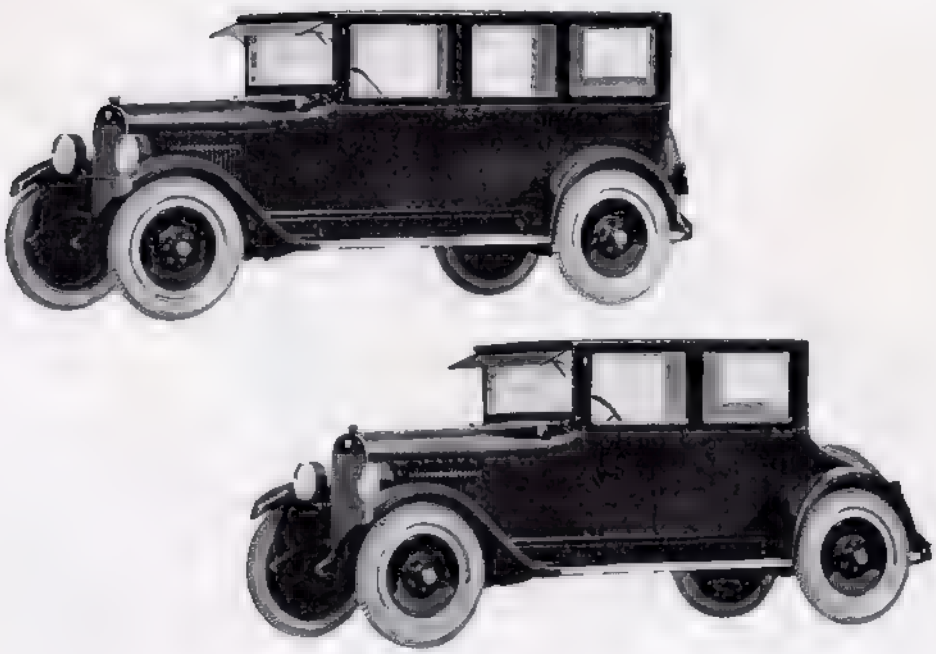
One thousand owners, many of whom have driven their cars 25,000 miles or more, declare there is but one car that can do these things in just this way.

One car and only one—

The hundred horsepower LaFayette.

LAFAYETTE MOTORS COMPANY at *Mars Hill* INDIANAPOLIS

LAFAYETTE



The friendly feeling which the public is displaying toward the good Maxwell is no doubt prompted, in part, by its great beauty. But the deeper, more significant phase is the profound admiration, shown everywhere, for the substantial qualities demonstrated by the reliable and notably fine performance of the good Maxwell.

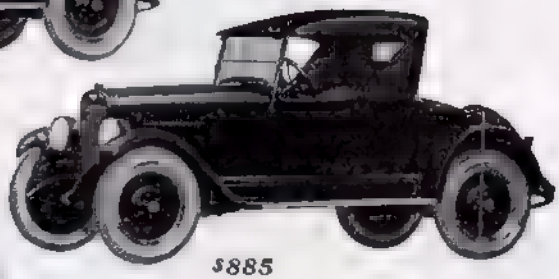
Cord tires, non-skid front and rear; disc steel wheels, demountable at rim and at hub, drum type lamps; Alemite lubrication; motor driven electric horn; unusually long springs; deep, wide, roomy seats; real leather upholstery in open cars, broadcloth in closed cars; new type water-tight windshield. Prices F. O. B. Factory, revenue tax to be added: Touring Car, $885; Roadster, $885; Coupe, $1385; Sedan, $1485.

MAXWELL MOTOR CORPORATION, DETROIT, MICHIGAN
MAXWELL MOTOR COMPANY, OF CANADA, LTD., WINDSOR, ONT.

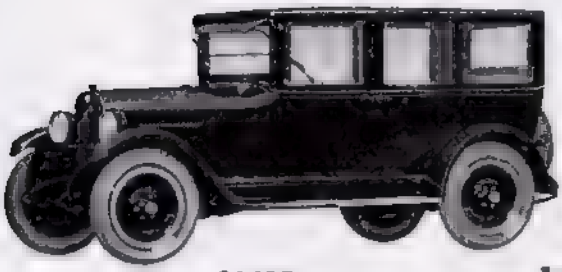
The Good

MAXWELL

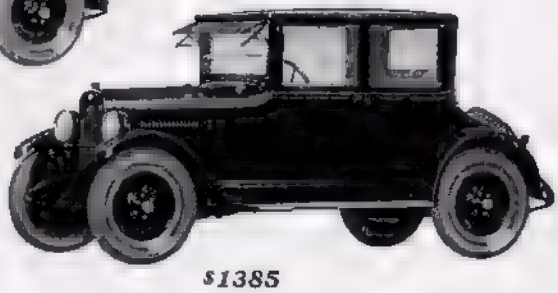
$885



$885



$1485



$1385

Already, the enthusiasm which first greeted the great beauty displayed by the New Series of the good Maxwell has deepened and ripened into permanent public favor.

For the owners of these fine cars, and through them the people at large, have discovered that underneath their handsome exterior is the goodness which assures power and performance, and an unusual ability to render reliable, saving service.

Cord tires, non-skid front and rear; disc steel wheels; drum type lamps; Alemite lubrication; motor-driven electric horn; unusually long springs; deep, wide, roomy seats, new type water-tight windshield. Prices F. O B. Detroit, revenue tax to be added

MAXWELL MOTOR CORPORATION, DETROIT, MICHIGAN
MAXWELL MOTOR COMPANY OF CANADA, LTD., WINDSOR, ONT.

The Good

MAXWELL

Those who drive it already know, and the general public is gradually learning, that the quality of materials in the good Maxwell, and the manufacturing processes employed, are far above those used even in the best of cars appealing to the same public.

A quick way to prove this is to compare the things which meet the eye —exterior finish, accessories and appointments—with the same items in cars which cost a great deal more.

Cord tires, non-skid front and rear; disc steel wheels demountable at rim and at hub; drum type head and parking lamps; windshield cleaner; rear-view mirror; Alemite lubrication; unusually long springs; broadcloth upholstery; clutch and brake action, steering and gear shifting, remarkably easy. Prices F. O. B. Detroit, Revenue Tax to be added. Touring, $885; Roadster, $885; Club Coupe, $985; Sedan, $1335; Four Passenger Coupe, $1235

MAXWELL MOTOR CORPORATION, DETROIT, MICH.
MAXWELL MOTOR CO. OF CANADA, LTD., WINDSOR

The Good

MAXWELL

Five-Passenger Sedan

The admiration for the extraordinary beauty and grace of the good Maxwell has deepened, everywhere, into sincere respect.

Every community now knows—through the medium of the tens of thousands of owners of the new series—that the good Maxwell is all that its great beauty promises.

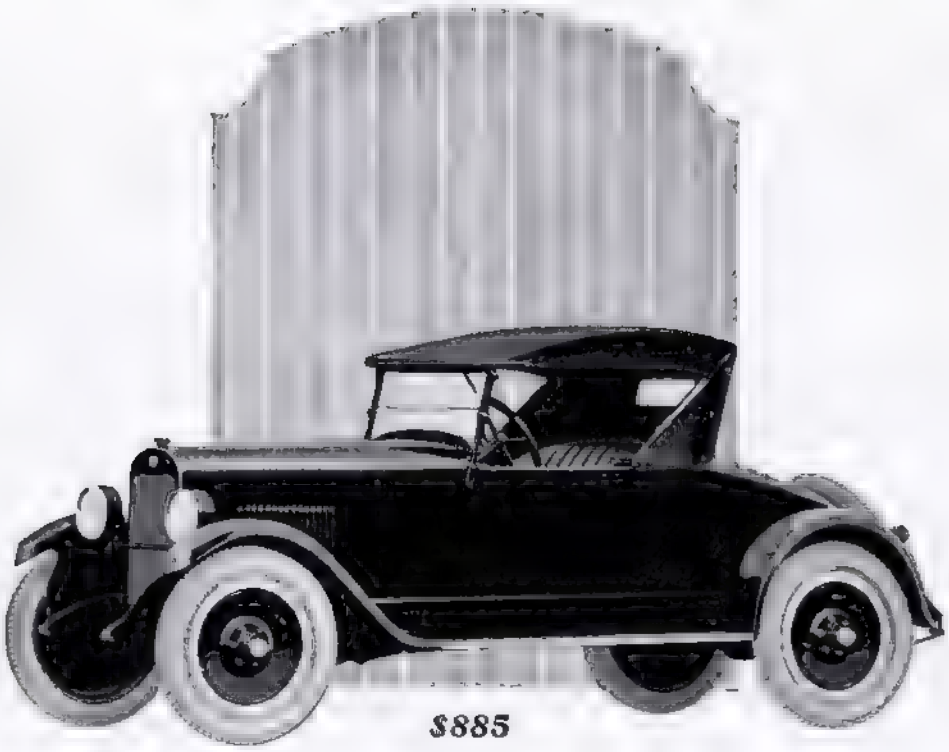
Not only in the thorough quality of its body-work and its fittings; but in the endurance, economy and comfort, the robust reliability and fine performance, which are unusual in the average car of its price.

Cord tires, non-skid front and rear; disc steel wheels, demountable at rim and at hub; drum type head and parking lamps; windshield cleaner; rear-view mirror; dome and instrument board lights; Alemite lubrication; motor-driven electric horn; unusually long springs; deep, wide, roomy seats; broadcloth upholstery; clutch and brake action, steering and gear shifting, remarkably easy

MAXWELL MOTOR CORPORATION, DETROIT, MICH.
MAXWELL MOTOR CO., OF CANADA, LTD., WINDSOR, ONT.

The Good

MAXWELL



$885

Splendid reliability, satisfying comfort, unusually fine performance, notable savings in operation—all are now definitely established as the outstanding attributes which the new organization is building into the good Maxwell.

Cord tires, non-skid front and rear; disc steel wheels, demountable at rim and at hub; drum type lamps; Alemite lubrication; motor-driven electric horn; unusually long springs; deep, wide, roomy seats; real leather upholstery in open cars, broadcloth in closed cars; open car side curtains open with doors; clutch and brake action, steering and gear shifting, remarkably easy; new type water-tight windshield. Prices F. O. B. Factory, revenue tax to be added: Touring Car, $885; Roadster, $885; Coupe, $1385; Sedan, $1485.

MAXWELL MOTOR CORPORATION, DETROIT, MICHIGAN
MAXWELL MOTOR COMPANY OF CANADA, LTD., WINDSOR, ONT

The Good

MAXWELL

IT'S JUNE IN MIAMI

"THE TROPICAL ZONE OF FLORIDA"

Enjoy a winter vacation midst scenes of romance and beauty. Motor down the Dixie Highway.

We can offer you every inducement to live and play out-o'-doors.

Surf bathing every day in the year. Unlimited opportunities for motor-boating and sailing, on Biscayne Bay and the Ocean.

Six superb golf courses. One hundred tennis courts. Polo field. Aeroplane service to Cuba and Bahama Islands. Six hundred miles of hard-surface motor roads radiate from Miami.

Miami is the fisherman's Paradise; best catches being made in midwinter.

75 Modern Hotels **150 Apartment Houses**

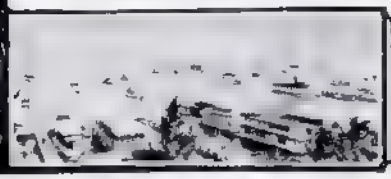
ARTHUR PRYOR'S FAMOUS BAND

Plays twice daily in Royal Palm Park, 'neath the shade of the Coconut Palms. December to April. A reserved seat awaits YOU.

Through trains, with Pullman service, from New York, Boston, and Chicago.

Write for free illustrated booklet

MIAMI CHAMBER OF COMMERCE, MIAMI, FLORIDA



One Gift for the Whole Family

THE HOME BALOPTICON is a happy solution of the Christmas problem. You can please both young and old with an improved stereopticon like the

Bausch & Lomb HOME BALOPTICON

Many pleasant evenings can be spent showing vacation pictures, snap-shots of years ago, post cards and illustrations from magazines and books. The volume is not injured. Bedtime stories for the children, guessing games and puzzles at parties are but a few of the many possibilities with a Home Balopticon. Of simple, sturdy construction, this machine can be operated by anyone. Just attach it to any lamp socket and turn on the current.

The price is $28.5. Write for the Home Balopticon booklet with its many suggestions for entertainment

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Leading American makers of Stereo, Prism Binoculars, Telescopes, Photographic Lenses, Projection Apparatus, Range Finders, Microscopes, Magnifiers, Ammonia Lenses and other High Grade Optical Products.

A Warm House In Winter
A Cool House In Summer

NATCO
HOLLOW TILE

THE SATISFACTION you get *out* of your home depends largely on the materials that go *into* it. Therefore build for comfort and permanence—fire-safe—weather-proof—dampness-free Build of Natco Hollow Tile—with finished face or as a base for stucco or to back up face brick. Write for book of Natco Homes today. You'll read it with interest—and profit

NATIONAL FIRE PROOFING COMPANY
320 FULTON BUILDING PITTSBURGH, PA.

South to Sunny Nassau

Sail Saturday, Arrive Tuesday

The new weekly Express Passenger Service of the Munson Steamship Lines, in connection with its services to Antilla, Nuevitas and Points in Eastern Cuba, makes the trip to Nassau (Bahamas) in only three days. A Winter Paradise. Average temperature, 71; no sudden changes; no rainy weather; Golf, Bathing, Sailing, Fishing, Tennis under ideal conditions. Charming British Colony. Splendid Hotels; other fine accommodations.

New Express Passenger and Freight Liner *MUNARGO* alternates with Modern Passenger and Freight Liner *MUNAMAR*.

From New York—

MUNARGO.....Feb. 4
MUNAMAR.....Feb. 11
MUNARGO.....Feb. 18
MUNAMAR.....Feb. 25

Weekly thereafter during season.

MUNSON STEAMSHIP LINES

67 WALL STREET, NEW YORK

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PHILADELPHIA BALTIMORE CHICAGO ST. LOUIS MOBILE NEW ORLEANS

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The Membership Fee Includes Subscription to the National Geographic Magazine

PLEASE DETACH AND FILL IN BLANK BELOW AND SEND TO THE SECRETARY

.....*192*

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Sixteenth and M Streets Northwest, Washington, D. C.:

I nominate .....

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Name and Address of Nominating Member

2-22

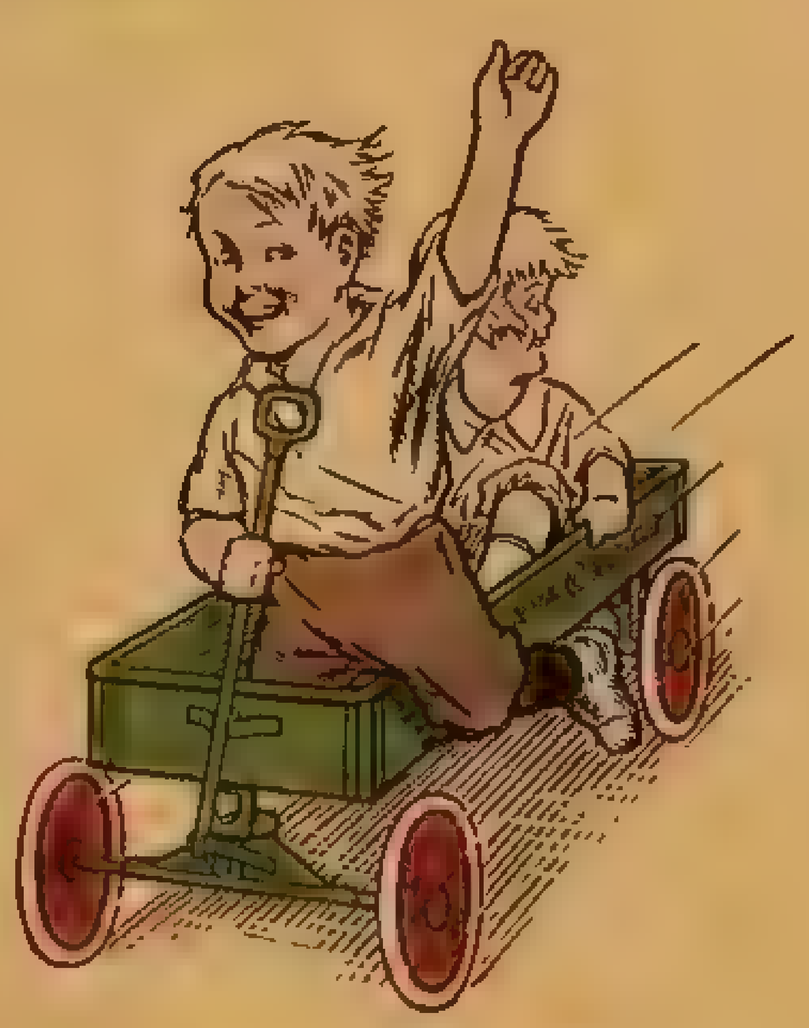
(It is suggested that you inform the Nominee of your recommendation and of the benefits of membership)

The National Steel Coaster

A Sturdy All Steel Coaster
Attractive, Durable and Light

No. 101 Coaster

An
All Purpose
Coaster



With
Exceptional
Sales Value

The Luxury Cruise Next Winter

Mauretania

The Blue Ribbon Ship of the Atlantic

to the **Mediterranean**

The Enchanted Sea of History and Romance

From New York February 10th, 1923

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Also The Pacific Liner "Ecuador" to SOUTH AMERICA

68 days across and beside the Equator

From New York January 24, 1923

Use GAS For Your Camp Cooking

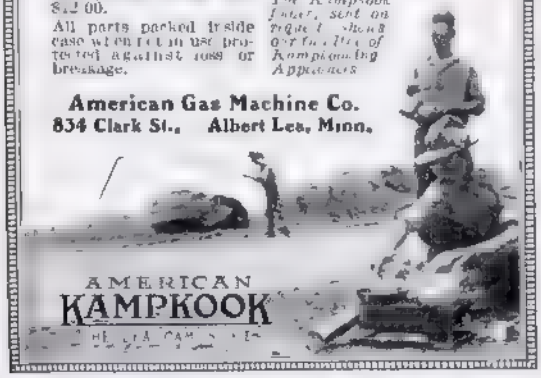
KAMPKOOK makes its own gas from the same grade of gasoline you use in your car. Gives a quick, hot, blue flame enabling the motorist and camper to cook out in the open as conveniently as at home. Set up and going full blast in two minutes. Windproof, safe, dependable, built to stand the hard knocks. More motor tourists use Kampkook than any other kind of camp fire. Sold by dealers in sporting goods everywhere.

Kampkook No. 3
Most popular size. Measures 3½ x 9 x 15 inches folded, weighs 8 pounds. Price $8.00. Larger size $8.50; three burner size $12.00.

All parts packed inside case when not in use protected against loss or breakage.

The Kampkook Folder, sent on request, shows our full line of Kampkooking Appliances

American Gas Machine Co.
834 Clark St., Albert Lea, Minn.



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TEACH YOUR CHILD AT HOME

and give him practically the same educational advantages he would have at the best private school

Let Calvert School, with its unique system and world wide reputation for teaching young children, come to you with all its unusual advantages and teach your child at home.

Write, and find how easily this can be done, to

CALVERT SCHOOL, 2 Chase St., Baltimore, Md.

300 Miles for $1

The new motoring

more sport
better health

NERACAR

"MOTORING ON TWO WHEELS"

ACTION so smooth and smart it gives you a sense of flying. Control so easy and simple that you learn in five minutes.

Get into the outdoors in a spirit of play. Know the blood-tingle, the exhilaration, the vigor that comes with NERACAR riding.

Men and women, boys and girls, ride in any clothes. Broad mud-guards keep off dust. No bar to straddle—step in from side. Feet on ground at start and stop.

Low and light. Wonderfully steady and easy to handle because the weight, approximately 175 lbs., is centered close to the ground.

Simple, safe, and trouble-proof in anybody's hands. 5-speed friction drive, shifted by convenient lever, engaged and disengaged by a quarter turn of left grip no gears or clutch.

35 miles an hour. Takes hills smoothly. 85 to 100 miles to the gallon. This makes motoring cheaper than street cars.

Explore your country on a NERACAR—ramble along new paths and trails inaccessible with ordinary vehicles. Enjoy the woods and streams. Take this handy little car along on your vacation. Ride it or express it and have it waiting for you.

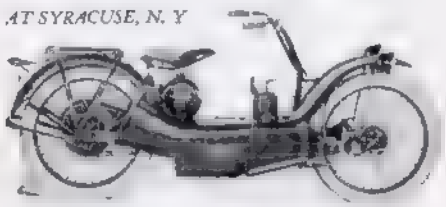
Write for descriptive folder.

NER-A-CAR CORPORATION
204 So. Geddes St., Syracuse, N. Y.

FULLY EQUIPPED—NO EXTRAS!

$225 *Price includes 2 Electric Head Lights, Tail Light, Luggage Rack, and Tools*

AT SYRACUSE, N. Y.



Dealers! Write for Our Plan

Mount Hood, Oregon

Copyrighted, A. M. Prentiss, Portland, Oregon

Summer Amid the Ice Peaks

Portland is one of the most beautiful of the mountain-cities of the Coast. Approach ice-covered Mt. Hood by way of a perfect automobile road through the orchard valley of Hood River. Enjoy the bracing cool air off the snow fields. Visit Elliot Glacier. From the summit of Mt. Hood behold a score of mammoth peaks, and the Cascade range stretching in many undulations to the clouds. It's a view you will remember the rest of your life! Visit Portland and Mt. Hood on the—

Northern Pacific Ry.

"2000 Miles of Startling Beauty"

From Chicago, St. Paul, Minneapolis to Butte, Helena, Spokane, Portland, Tacoma, Seattle, Everett, Bellingham, Victoria, Vancouver.

The spacious Pacific Northwest is your ideal vacation spot. It is a gigantic playground of enormous lakes, two immense mountain chains, five majestic peaks, great rivers and flourishing cities.

$86 Round Trip—Chicago to North Pacific Coast

Sold May 15 to Sept. 30

28% Lower Than 1921. Be sure you travel Northern Pacific. It is the route of wonders, and affords splendid service.

North Coast Limited

All-steel Through Train of the Northwest Leaves Chicago 10.10 A. M. from Union Station, Burlington Route.

Stop at Yellowstone Park

Write for free books, describing the wonders of the Great Pacific Northwest—as fascinating as fiction.

A. B. Smith, Pass. Traff. Mgr., St. Paul, Minn.

NORTHERN PACIFIC
YELLOWSTONE PARK LINE

Learn What "Elbow-Room" Really Is!

DIP into vast Alpine Meadows on the slopes of Mount Rainier—ride along the spectacular Columbia River Highway. Sweep the entire length of your own enormous Pacific Northwest, following the route of "2000 miles of startling beauty."

Northern Pacific Ry.

Fares 28% Lower Than 1921

Variety is the keynote. You'll see great forests, beautiful Lakes, the Rocky and Cascade Mountains, the Inland Empire, as well as the interesting cities of St. Paul, Minneapolis, Butte, Helena, Spokane, Portland, Tacoma, Seattle, Vancouver, Victoria.

$86 Round Trip—Chicago to North Pacific Coast

There's health and a jolly good time awaiting you—wonderful food, superb hotels—everything you want to make a real vacation.

Stop at Yellowstone Park Enroute

North Coast Limited—
All-steel Crack Train of the Northwest.
Leaves Chicago 10:10 a. m. daily.

NORTHERN PACIFIC
YELLOWSTONE PARK LINE

Write for free books, describing the wonders of the Great Pacific Northwest—as fascinating as fiction.
A. B. Smith, Passenger Traffic Mgr., St. Paul, Minn.

Address for Telegrams: "MANNING, LEEDS." Code: A.B.C. (5th Edition).

Contractors to the British Admiralty, War Office, India Office, Colonial Governments, Railway Companies and Constructors, Collieries, Mines, &c.

MANNING, WARDLE & CO., LTD.

Boyne Engine Works, Jack Lane,

LEEDS, ENGLAND.

We invite enquiries from buyers of locomotives, either steam or internal combustion (petrol). Our manufactures enjoy a reputation second to none for excellence, both as to materials and workmanship, and also as to suitability of design for power and economical working.

Fournisseurs des Ministères britanniques de la Marine et de la Guerre, du Gouvernement des Indes, des Gouvernements coloniaux anglais, des Compagnies et Constructeurs de chemins de fer, de charbonnages, mines, etc.

Contratantes del Almirantazgo y del Ministerio de Guerra británicos, del Gobierno de la India, de los Gobiernos coloniales ingleses, de las Compañías ferro carrileras y Contratantes, de las minas carboníferas, minas en general, etc.

MANNING, WARDLE & CO., LTD.

Boyne Engine Works, Jack Lane,

LEEDS, ENGLAND.

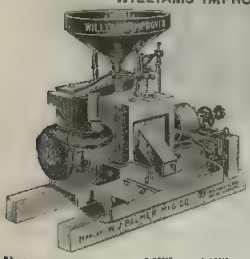
Nous répondrons avec empressement à toutes les demandes des acheteurs de locomotives, soit à vapeur ou à combustion interne (pétrole). Nos manufactures jouissent d'une réputation incomparable tant en ce qui concerne leurs matériaux que leur exécution, ainsi que pour leur conception parfaite pour la puissance et le travail économique.

Respondemos á cualesquier pedidos de informes de compradores de locomotoras, á vapor ó combustión interna (petroleo). Nuestros fabricaciones poseen una reputación incomparable por la excelencia de sus materiales y mano de obra, como también por la fuerza y servicio económico.

BURR GRINDING MILLS

These mills have especially designed ball-bearing to prevent heating. They are well lined with babbitt and fitted with compression grease cups. The mill stones or burrs used are of the pearl flint grit which is the best burr known for grinding grain for table use. The burrs are very hard and flinty, yet they are of a fine, tough, even texture, which will dress or sharpen to the best degree of evenness, thereby rendering them very much suited for fine, soft grinding.

WILLIAMS IMPROVED

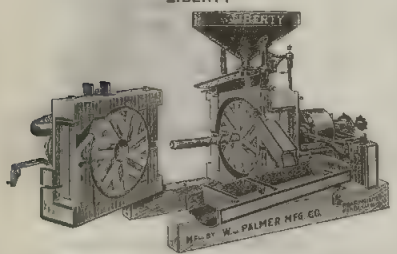


With Blower.

Designed with special care, so as to leave as little meal as possible in the mill after grinding. This is obtained by two fans being attached to the runner stone. These fans draw a current of cool air between the bed and the runner stones while the mill is in operation, keeping the meal cool and cleanly blown out.

Nos.	16WI	20WI	24WI	28WI	30WI
Size burrs, inches	16	20	24	28	30
Horse Power	4 to 6	5 to 7	7 to 10	9 to 11	10 to 12
Size pulley, inches	10x6	12x6	14x6	14x6	14x6
Speed, R. P. M.	850	750	650	600	550
Cap. per hr., bu. { Meal	6 to10	8 to 12	9 to 15	11 to 18	12 to 20
Cap. per hr., bu. { Chops	12 to 20	16 to 25	20 to 30	23 to 38	25 to 40
Floor space, inches	30x58	36x66	39x66	43x66	45x66
Weight each, lbs.	750	950	1200	1400	1600
Each	✣$236 25	✣295 35	✣379 65	✣480 90	✣506 25

LIBERTY



(Showing mill opened)

Without Blower.

Nos.	16L	20L	24L	28L	30L
Size burrs, inches	16	20	24	28	30
Horse power	4 to 6	5 to 7	7 to 10	9 to 11	10 to 12
Size pulley, inches	10x6	12x6	14x6	14x6	14x6
Speed, R. P. M.	850	750	650	600	550
Cap. per hr., bu. { Meal	6 to 10	8 to 12	9 to 15	11 to 18	12 to 20
Cap. per hr., bu. { Chops	12 to 20	16 to 25	20 to 30	23 to 38	25 to 40
Floor space, inches	30x58	36x66	39x66	43x66	45x66
Weight each, lbs	750	950	1200	1400	1600
Each	✣$226 20	✣285 15	✣369 60	✣470 85	✣496 20

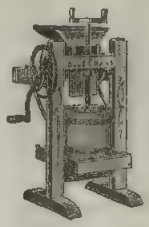
Extra for Sacker Elevator, Each ✣$20 25

✣F. O. B. North Carolina Factory Only.

WOOD ROLL CIDER MILLS

—BLUE GRASS—

Frames are of hardwood, varnished and striped; tubs are of wood staves, natural finish, riveted to japanned iron bands; straw color hoppers. The rolls are of hardwood, fitted with high carbon steel cutters; steel press screw; gearing is heavy and easy running.



—BLUE GRASS—BANTAM

Height over all 40 in.; tub 12x10 in.; hopper 12x14 in.; press screw 1¼ in. in diameter; floor space 20x23 inches.

For grinding and pressing grapes for wine, and for all small fruits, this mill has ample capacity for general use.

Each

No. BG10B—Capacity ¼ to 1 barrel per day ✣$63 00

Shipped loose, set up; weight 119 lbs.

—BLUE GRASS—JUNIOR

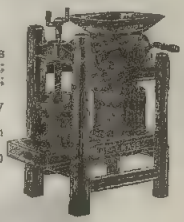
Height over all 40 in.; tubs 12x10½ in.; hopper 16x14¾ in.; press screw 1¼ in. in diameter; floor space 20x34 inches.

Designed especially for family use.

Each

No. BG1J—Capacity 2 to 4 barrels per day ✣$88 50

Shipped loose, set up; weight 172 lbs.



—BLUE GRASS—MEDIUM

Height over all 42 in.; tubs 12½x13½ in.; hopper 15½x19 in.; press screw 1½ in. in diameter; floor space 22x35 inches.

Each

No. BG2M—Capacity 3 to 6 barrels per day ✣$114 00

Shipped loose, set up; weight 253 lbs.

—BLUE GRASS—SENIOR

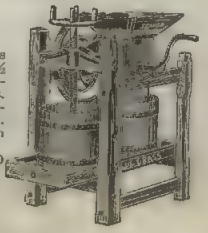
Height over all 45 in.; tubs 15x15½ in.; hopper 18½x21½ in.; press screw 2 in. in diameter; floor space 29x45 inches.

Designed for use where considerable capacity is required.

Each

No. BG3S—Capacity 6 to 10 barrels per day ✣$147 00

Shipped loose, set up; weight 367 lbs.



✣F. O. B. Ohio Factory Only.

CIDER MILLS

BELKNAP SPECIAL

Adapted for grapes and small apples—large apples must be cut or quartered. Hopper enclosed and grinding mill made heavier than other mills of this style. Painted red with japanned castings. Height over all 46 inches; tub 11x11 inches inside. hopper 7x9 inches at top, press screw 1¼x1¹¹⁄₁₆ inches, diameter of crank wheel 16 inches; uprights 5x1¼ inches at bottom, 3½x1¾ inches at top; floor space 20x24 inches.

Each

No. 08S—Capacity ½ to 1 barrel per day..... $48 00

Shipped loose; weight each 115 lbs.

CYCLONE

Frame nicely finished, tub natural wood stave, riveted to japanned iron band; height over all 46 inches; tub 11x11 inches inside; hopper 7½x9 inches at top; press screw 1½x26½ inches; diam. fly-wheel 16 inches; uprights 5½x1¾ inches at bottom, 4½x1¾ inches at top; floor space 20x28 inches.

Each

No. 10C—A first class single tub cider mill and wine press for family use; capacity 2 to 3 barrels per day $54 00

Shipped loose; weight each 136 lbs.

Frame varnished, natural wood finish with neat red stripes; tubs natural wood; castings japanned finish.

An excellent mill for family use. Substantially built of first quality material throughout and a high grade mill in every respect.

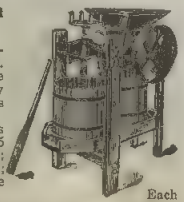
No. 18S—Belknap's Special Junior, Steel Roll; capacity 2 to 4 barrels per day; height over all 42 inches; tubs 10x10¾ inches; hopper 12x13½ inches; press screw 1½x18½ inches; diameter fly-wheel 18¼ inches; posts 36x2½x2¾ inches; floor space 34x20 inches; weight each 130 lbs..... Each $81 00

No. 28S—Belknap's Special Medium, Steel Roll. Capacity 3 to 6 barrels per day; height over all 48 inches; tubs 10x10½ inches; inside hopper 14x14 inches at top; press screw 1½x21 inches; diameter of fly-wheel 19 inches; post 40x3¾x2¾ inches; floor space 35x22 inches; weight each 260 lbs..... 108 00

Shipped loose.

BELKNAP SPECIAL SENIOR

Steel Rolls.



Hardwood frame, varnished natural wood finish with black stripes. Steel rolls and press screw; large hopper; gearing heavy and easy running; tubs natural wood staves riveted to japanned iron bands.

Height over all 48 inches; tubs 17x14¾ inches; hopper 17x15 inches; press screw 2 x22 inches; diameter fly-wheel 23 inches; posts 46x5x2¾ inches; floor space 45x30 inches.

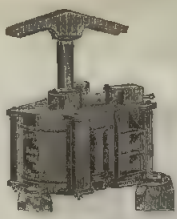
Each

No. 38S—Capacity 6 to 8 barrels per day... $144 00

Shipped loose; weight each 415 lbs.

CANE MILLS

—BLUE GRASS—Three Roll.



Held together by four main bolts, which make them more rigid than a mill with three bolts.

The cog gearing is cast separate from the rollers, and is made very heavy, with two clutches on each wheel, which fits into two corresponding ones in each roller.

Both top and bottom journals run in brass boxes, making the mill work smoothly and easily.

All steel shafts with turned bearings, rollers turned with serrated faces, enabling a regular and constant feed to be maintained.

The main rollers are flanged at top and bottom, preventing the cane from passing either up or down. Feed-guide furnished with each mill, made so that the full length of the roller can be used.

The gearing is encased preventing it from being clogged, and making it entirely safe to the operator.

Angle or incline yoke can be supplied as desired. With the angle yoke bolts are furnished to attach to sweep. Bows are furnished for the incline yoke.

The oiling is done by means of horizontal oil ducts for the lower journals, avoiding the mixing of oil with the juice.

Nos.	0BG	1BG	2BG	3BG	4BG
Horse Power	1	1 Reg.	2	2 Reg.	2 Hvy.
Estd. cap. per hr., gal.	40	60	80	100	120
Diam. large rolls, in.	10½	11⅝	13½	14¹¹⁄₁₆	16
Diam. small rolls, in.	6½	6⅝	7⅝	8	9¹¹⁄₁₆
Height rolls, in.	5½	6⁷⁄₁₆	7⅛	9¾	12
Weight each, lbs.	435	560	800	1060	1500
Each	$100 50	132 50	184 50	249 00	342 00

DIRECTIONS FOR OPERATING CANE MILLS

In order to successfully operate a cane mill it must be rigidly secured in position, properly adjusted, oiled freely, bolts kept tight and fed regularly.

1. The mill must be level and rigid. To secure it in position, posts six feet long, set three feet in the ground, thoroughly braced, and the earth rammed very hard around them, or a heavy frame of timber properly joined together and staked to the ground, offers a good support. Whatever the means the mill must be level and rigid.

2. To secure a proper adjustment. Adjust the rolls parallel to each other, the feed-roll from one-quarter to one-half inch from the main roll; the other should slightly touch the main roll when empty; after trial, the proper adjustment can be made. Do not try to force the set-screws up when there is cane in the mill.

3. Oil regularly and freely. The vertical mills have oil tubes passing down through the rolls, and by using fluid lard oil freely on the upper journals the oil flows to the lower journals; see that these tubes are kept open, and the oil is applied regularly and freely. Never use mineral oils on a cane mill.

4. Feed evenly and constantly. Use the feed box, and in addition place a board about three feet long on a level with the bottom plate, to rest the cane on as it enters the mill. Feed butts foremost.

5. Keep all the bolts screwed up tight. Owing to the constant wrenching of the mill the stay bolts are liable to become loosened, and this throws the mill out of line, and the cogs begin to cut and the mill runs hard. One hour's use in this way is more destructive than a whole season's use if properly cared for.

TRICYCLES

—BLUE GRASS—

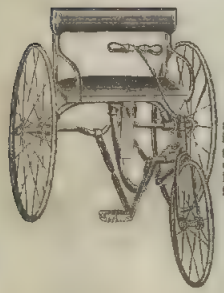
Tubular Ball-Bearing.

Frame made of 18 gauge seamless steel tubing. Wheels made up with bicycle spokes and fitted with 1 inch cushion rubber tires. Handle fitted with leather wrapped grips. Rear axle of ⅝ inch cold drawn steel; seat adjustable for height by a thumb screw adjustment. Seat, back rest and arm rests upholstered in maroon leatherette. All metal parts nickel plated except frame and wheel rims finished in rich maroon color, striped in silver

Nos.	B64	B65	B66
Height front wheel, inches	12	12	14
Height rear wheels, inches	20	24	28
For girls, years	3 to 5	4 to 7	7 to 10
Shipping wt. each, lbs	50	60	70
Each	$42 00	48 00	54 00

One in a case, K. D.

—BLUE RIBBON—



Red enameled steel frame; adjustable seat, upholstered in red leatherette; wheels galvanized; handle is enameled black and fitted with black enameled Brass ferruled grips.

Nos.	With Steel Tires		With ½ inch Rubber Tires
	1	13	18½
Height front wheel, inches	12	10	10
Height rear wheels, inches	22	18	18
For girls, years	7 to 12	3 to 5	3 to 5
Weight each, lbs	35	35	35
Each	$24 00	18 00	24 00

One in a case.

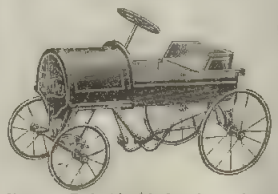
CHILDREN'S AUTOMOBILES

Body made of sheet steel and hardwood. Wrought steel gearing. Equipped with ratchet starting crank and steering wheel. Body and hood finished in red with varied stripes; gears and wheels black enameled

Each

No. 376—Body 12x28 inches; front wheels 8 inches; rear wheels 12 inches; fitted with ⅝ inch rubber tires. . . . $15 75

One in crate; weight each about 35 lbs.

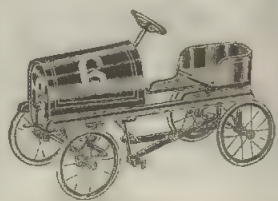


Body made of sheet steel and hardwood, finished in special auto red with varied striping. Wrought iron gearing, black enameled; rubber tired wheels, black enameled; adjustable seat forming box when raised.

Each

No. 370—Body 14x30 inches; front wheels 10 inches; rear wheels 14 inches, fitted with ⅝ inch rubber tires. $18 00

One in a crate, K. D.; weight 56 lbs.

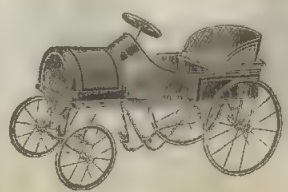


Body made of sheet steel and hardwood. Wrought steel knuckle steering gear. Equipped with starting crank and steering wheel. Body and hood finished in red with varied stripes; gears and wheels black enameled.

Each

No. 384 Body 12x36 inches; 10 inch wheels, fitted with ⅝ inch rubber tires. $19 50

One in a crate; weight each about 35 lbs.



Body made of sheet steel and hardwood, finished in special auto blue with varied striping. Wrought iron gearing. Black enameled, rubber tired wheels black enameled; adjustable seat forming tool box when raised.

Each

No. 371—Body 15x36 inches, front wheels 10 inches, rear wheels 16 inches; ½ inch rubber tires. $24 00

One in a crate, K. D; weight 43 lbs.

CHILDREN'S AUTOMOBILES

Body made of sheet steel and hardwood. Wrought steel knuckle steering gear. Equipped with starting crank and steering wheel. Seat upholstered in leatherette.

Body and hood finished in gray with varied stripes; gears and wheels black enameled.

Each

No. 389 Body 12x38 inches; 12 inch wheels, fitted with ½ inch rubber tires $30 00

One in a crate; weight each about 40 lbs.

Body made of sheet steel and hardwood. Wrought steel gearing. Leatherette upholstered seat. With starting crank.

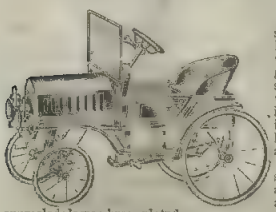
Blue and red body, stenciled and striped in black and gold; gears and wheels black enameled.

Each

No. 385—Body 13x43 in.; 12 inch wheels, ¾ inch rubber tires; gasoline tank on rear; weight each 50 lbs $25 50

No. 387—Body 15x48 in; 14 inch barrel hub wheels, ¾ inch rubber tires; gasoline tank and two extra tires on rear; weight 70 lbs 33 00

One in a crate.



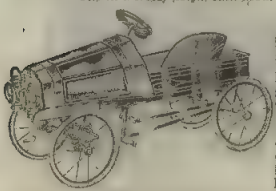
Body made of sheet steel and hardwood; wrought steel gearing; adjustable seat. Equipped with ratchet starting crank, steering wheel, lamps, horn, wind shield and fenders.

Sky blue body, striped with suitable colors; gears and wheels black enameled; lamps brass plated.

Each

No. 378C—Body 13x36 inches; front wheels 10 inches; rear wheels 16 inches, fitted with ½ inch rubber tires $39 00

One in a crate; weight each about 60 lbs.



Body made of sheet steel and hardwood. Wrought steel knuckle steering gear; adjustable seat; leatherette upholstered. Equipped with starting crank, steering wheel, horn and real oil lamps.

Body finished in yellow, striped in black; gears and wheels black enameled, lamps brass plated. Each

No. 392C Body 13x42 inches; 12 inch wheels with ¾ inch rubber tires $45 00

One in a crate; weight each about 65 lbs.

CHILDREN'S AUTOMOBILES

Body is of sheet steel and hardwood steel frame and gears; standard of elliptic spring design; rigid front axle with forged knuckle joints. Equipped with steel bumper, ratchet starting crank, radiator cap adjustable wind shield, 7 inch steering wheel, upholstered seat, nickeled hub caps.

Green body; red hood; bronze, white and black striping; gears and wheels black enameled. Each

No. 530—Body 13x38 inches; diameter wheels 10 in.; fitted with ½ inch tires $28 50

One in a crate; weight each 50 lbs.

Body made of sheet steel and hardwood, finished in special auto gray and blue with varied striping. Wrought steel gearing, black enameled; rubber tired wheels, red enameled; adjustable seat forming tool box when raised.

Each

No. 378 Body 11x36 inches, front wheel 10 inches; rear wheels 16 inches; ½ inch rubber tires $25 50

One in a crate, K. D.; weight 50 lbs.

Body is of sheet steel and hardwood wrought steel gearing. Rigid front axle with forged knuckle joints. Equipped with steel bumper, ratchet starting crank, radiator cap 6 inch steering wheel, fibre covered seat and nickeled hub caps.

Red body striped with yellow and black; gears and wheels black enameled. Each

No. 520—Body 13x38 inches; diameter wheels 10 inches; fitted with ½ inch tires $24 00

One in a crate; weight each about 60 lbs.

Body is of sheet steel and hardwood; wrought steel gearing. Rigid front axle with forged knuckle joints. Equipped with ratchet starting crank, 6 inch steering wheel and nickeled hub caps.

Red body, striped with yellow and black; gears and wheels black enameled. Each

No. 500—Body 11x30 inches; diameter wheels 10 inches; fitted with ¾ inch rubber tires $17 25

One in a crate; weight each about 55 lbs.

TRICYCLES

—BLUE GRASS—

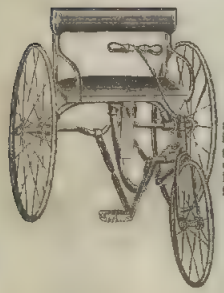
Tubular Ball-Bearing.

Frame made of 18 gauge seamless steel tubing. Wheels made up with bicycle spokes and fitted with 1 inch cushion rubber tires. Handle fitted with leather wrapped grips. Rear axle of ⅝ inch cold drawn steel; seat adjustable for height by a thumb screw adjustment. Seat, back rest and arm rests upholstered in maroon leatherette. All metal parts nickel plated except frame and wheel rims finished in rich maroon color, striped in silver

Nos.	B64	B65	B66
Height front wheel, inches	12	12	14
Height rear wheels, inches	20	24	28
For girls, years	3 to 5	4 to 7	7 to 10
Shipping wt. each, lbs	50	60	70
Each	$42 00	48 00	54 00

One in a case, K. D.

—BLUE RIBBON—



Red enameled steel frame; adjustable seat, upholstered in red leatherette; wheels galvanized; handle is enameled black and fitted with black enameled Brass ferruled grips.

Nos.	With Steel Tires		With ½ inch Rubber Tires
	1	13	18½
Height front wheel, inches	12	10	10
Height rear wheels, inches	22	18	18
For girls, years	7 to 12	3 to 5	3 to 5
Weight each, lbs	35	35	35
Each	$24 00	18 00	24 00

One in a case.

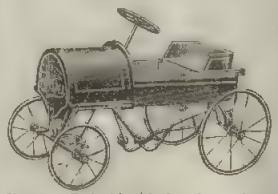
CHILDREN'S AUTOMOBILES

Body made of sheet steel and hardwood. Wrought steel gearing. Equipped with ratchet starting crank and steering wheel. Body and hood finished in red with varied stripes; gears and wheels black enameled

Each

No. 376—Body 12x28 inches; front wheels 8 inches; rear wheels 12 inches; fitted with ⅝ inch rubber tires. . . . $15 75

One in crate; weight each about 35 lbs.

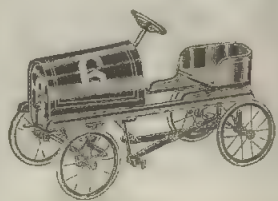


Body made of sheet steel and hardwood, finished in special auto red with varied striping. Wrought iron gearing, black enameled; rubber tired wheels, black enameled; adjustable seat forming box when raised.

Each

No. 370—Body 14x30 inches; front wheels 10 inches; rear wheels 14 inches, fitted with ⅝ inch rubber tires. $18 00

One in a crate, K. D.; weight 56 lbs.

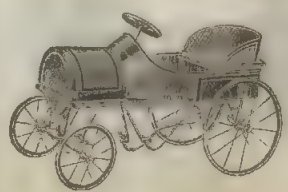


Body made of sheet steel and hardwood. Wrought steel knuckle steering gear. Equipped with starting crank and steering wheel. Body and hood finished in red with varied stripes; gears and wheels black enameled.

Each

No. 384 Body 12x36 inches; 10 inch wheels, fitted with ⅝ inch rubber tires. $19 50

One in a crate; weight each about 35 lbs.



Body made of sheet steel and hardwood, finished in special auto blue with varied striping. Wrought iron gearing. Black enameled, rubber tired wheels black enameled; adjustable seat forming tool box when raised.

Each

No. 371—Body 15x36 inches, front wheels 10 inches, rear wheels 16 inches; ½ inch rubber tires. $24 00

One in a crate, K. D; weight 43 lbs.

CHILDREN'S AUTOMOBILES

Body made of sheet steel and hardwood. Wrought steel knuckle steering gear. Equipped with starting crank and steering wheel. Seat upholstered in leatherette.

Body and hood finished in gray with varied stripes; gears and wheels black enameled.

Each

No. 389 Body 12x38 inches; 12 inch wheels, fitted with ½ inch rubber tires $30 00

One in a crate; weight each about 40 lbs.

Body made of sheet steel and hardwood. Wrought steel gearing. Leatherette upholstered seat. With starting crank.

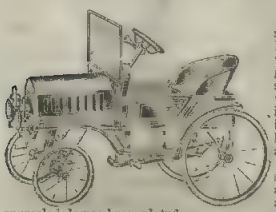
Blue and red body, stenciled and striped in black and gold; gears and wheels black enameled.

Each

No. 385—Body 13x43 in.; 12 inch wheels, ¾ inch rubber tires; gasoline tank on rear; weight each 50 lbs $25 50

No. 387—Body 15x48 in; 14 inch barrel hub wheels, ¾ inch rubber tires; gasoline tank and two extra tires on rear; weight 70 lbs 33 00

One in a crate.



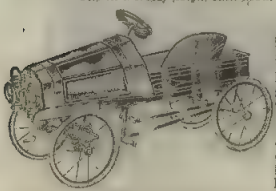
Body made of sheet steel and hardwood; wrought steel gearing; adjustable seat. Equipped with ratchet starting crank, steering wheel, lamps, horn, wind shield and fenders.

Sky blue body, striped with suitable colors; gears and wheels black enameled; lamps brass plated.

Each

No. 378C—Body 13x36 inches; front wheels 10 inches; rear wheels 16 inches, fitted with ½ inch rubber tires $39 00

One in a crate; weight each about 60 lbs.



Body made of sheet steel and hardwood. Wrought steel knuckle steering gear; adjustable seat; leatherette upholstered. Equipped with starting crank, steering wheel, horn and real oil lamps.

Body finished in yellow, striped in black; gears and wheels black enameled, lamps brass plated. Each

No. 392C Body 13x42 inches; 12 inch wheels with ¾ inch rubber tires $45 00

One in a crate; weight each about 65 lbs.

CHILDREN'S AUTOMOBILES

Body is of sheet steel and hardwood steel frame and gears; standard of elliptic spring design; rigid front axle with forged knuckle joints. Equipped with steel bumper, ratchet starting crank, radiator cap adjustable wind shield, 7 inch steering wheel, upholstered seat, nickeled hub caps.

Green body; red hood; bronze, white and black striping; gears and wheels black enameled. Each

No. 530—Body 13x38 inches; diameter wheels 10 in.; fitted with ½ inch tires $28 50

One in a crate; weight each 50 lbs.

Body made of sheet steel and hardwood, finished in special auto gray and blue with varied striping. Wrought steel gearing, black enameled; rubber tired wheels, red enameled; adjustable seat forming tool box when raised.

Each

No. 378 Body 11x36 inches, front wheel 10 inches; rear wheels 16 inches; ½ inch rubber tires $25 50

One in a crate, K. D.; weight 50 lbs.

Body is of sheet steel and hardwood wrought steel gearing. Rigid front axle with forged knuckle joints. Equipped with steel bumper, ratchet starting crank, radiator cap 6 inch steering wheel, fibre covered seat and nickeled hub caps.

Red body striped with yellow and black; gears and wheels black enameled. Each

No. 520—Body 13x38 inches; diameter wheels 10 inches; fitted with ½ inch tires $24 00

One in a crate; weight each about 60 lbs.

Body is of sheet steel and hardwood; wrought steel gearing. Rigid front axle with forged knuckle joints. Equipped with ratchet starting crank, 6 inch steering wheel and nickeled hub caps.

Red body, striped with yellow and black; gears and wheels black enameled. Each

No. 500—Body 11x30 inches; diameter wheels 10 inches; fitted with ¾ inch rubber tires $17 25

One in a crate; weight each about 55 lbs.

Telephone No.: *Telephone* Telegrams:
295 Smethwick (4 lines).

Telegraphic Address:
Adresse télégraphique Telegraphic address:
"Carriage, Smethwick, Birmingham."

THE BIRMINGHAM

RAILWAY CARRIAGE AND WAGON CO., Ltd.,

SMETHWICK, England.

(AC)

(EF)

Telephone No: *Téléphone* Telefono
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THE BIRMINGHAM RAILWAY CARRIAGE AND WAGON CO., Ltd., SMETHWICK, England.

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MANUFACTURERS OF

Railway Carriages and Wagons of every description, including All-Steel Carriages.

PRESSED STEEL UNDERFRAMES, BODIES AND BOGIES.

MAKERS OF RAILWAY WHEELS AND AXLES, IRONWORK, AXLE BOXES, CASTINGS, ETC.

SOLE MANUFACTURERS OF DEAN & CHURCHWARD'S PATENT "EITHERSIDE" BRAKE, AND MARILLIER'S PATENT "INSTANTER" COUPLING.

GRAND PRIX BUENOS AIRES EXHIBITION, 1910.

Fabricants de voitures et wagons de chemins de fer, de tous modèles y compris les voitures toutes en acier.
Châssis inférieur, carrosserie et bogies en acier presse.
Fabricants de roues et d'essieux pour chemins de fer, pieces en fer, boites à essieux, pièces en fonte etc.
Seuls fabricants du frein breveté "Eitherside" de Dean et Churchward,
et de l'accouplement breveté "Instanter" de Marillier.

Grand Prix à l'Exposition de Buenos Aires de 1910

Constructores de coches y vagones de ferrocarriles de todos los modelos, comprendiendo los coches enteramente de acero.
Chasis inferiores, carrocerías y bogies de acero prensado.
Constructores de ruedas y ejes para ferrocarriles, trabajos de hierro, cajeras de ejes, piezas de fundición, etc.
Unicos constructores de los frenos "Eitherside," patente Dean & Churchward,
y Acoplamiento "Instanter," patente Marillier.

Gran Premio en la Exposición de Buenos Aires, 1910.

LAUNCHES, BROOKE TUGS, ETC.

VEDETTES, REMORQUEURS, Etc.

LANCHAS, REMOLCADORES, Etc.

YEARS of wood boat construction and continual and varied experience in the output of Motor Launches for every part of the world, enables us to offer any type of motor-propelled vessel up to 80 ft. in length in wood, or we are prepared to submit tenders for wood vessels driven by steam or by semi-Diesel engines not of our construction.

Prices will always be quoted on receipt of enquiries.

A few types of vessels continually being turned out from our Yard are illustrated below and on the next page.

La pratique acquise au cours de nombreuses années, dans la construction de bateaux en bois ainsi que des expériences continuelles et variées dans la fabrication de canots automobiles destinés à tous les pays du monde nous permettent de fournir tous types de bateaux en bois à propulsion par moteur, jusqu'à une longueur de 24 m. Nous sommes également disposés à remettre des offres pour la fourniture de bateaux en bois, actionnés par machines à vapeur ou semi-Diesel, de fabrication autre que nos propres machines.

Nous remettrons toujours nos offres dès la réception des demandes.

Nous représentons ci-après et aux pages suivantes, quelques modèles de bateaux continuellement fabriqués dans nos chantiers.

Los muchos años que llevamos construyendo barcos de madera y la continua y variada experiencia lograda en la producción de Lanchas á motor para todas las partes del mundo nos habilitan para poder ofrecer cualquier tipo de barco accionado á motor hasta de 24 m. de largo en madera; estamos también dispuestos á someter propuestas para barcos de madera impulsados por máquinas á proa ó del tipo semi-Diesel; pero no de nuestra construcción.

Al recibo de consultas, cotizaremos siempre precios.

Algunos de los diversos tipos de barcos construidos en nuestros astilleros, los representamos en ésta y en las siguientes páginas.

AC

56 FEET STEAM DRIVEN SEA-GOING TUG.

Remorqueur à vapeur de 17 m., pouvant tenir la mer

Remolcador para alta mar accionado á vapor de 17 m

EF

27 FEET by 6 FEET GENERAL SERVICE LAUNCH, fitted with 14 h.p. 3 cylinder or 18 h.p. 4 cylinder Motors.

Vedette de 8,23 m. par 1,80 m. pour service général. Muni de moteurs de 14 h.p. à 3 cylindres ou 18 h.p. à 4 cylindres

Lancha para servicio general de 8,23 m. por 1,80 m., equipada con motores de 14 h.p. 3 cilindros, ó 18 h.p. 4 cilindros.

IB

30 FEET MOTOR LAUNCH, suitable for Consul's Tender, etc. Fitted with 28 h.p. or 40 h.p. Motors.

Canot automobile de 9,15 m., convenant pour Consuls, etc. Moteur de 28 h.p. ou 40 h.p.

Lancha-automóvil adaptable para consules 9,15 m. Equipada con motor de 28 h.p. ó de 40 h.p.

OD

30 FEET MOTOR LAUNCH suitable for Harbour and River work. 28 h.p. Motor.

Canot automobile de 9,15 m. convenant pour service fluvial ou de port. Moteur de 28 h.p

Lancha-automóvil de 9,15 m., apropiada para trabajos de puertos y servicio de río. Motor de 28 h.p.

J. W. BROOKE & Co., Ltd., Adrian Works, Lowestoft.

Telegrams and Cables: *Télégrammes:* Telegramas: **"BROOKE, LOWESTOFT."** **Code:** *Code:* Código: **A.B.C. 5th Edition and Private.**

BROOKE

Also builders of light steel vessels up to 200 feet in length, whole or in sections, motor or steam propelled.
Nous construisons également des chaloupes légères en acier, jusqu'à 61 m. de longueur, d'une pièce ou en sections, à propulsion par vapeur ou par moteur.
Constructores también de barcos ligeros de acero hasta de 61 metros de eslora, enteros ó en secciones, accionados á motor ó por vapor.

J. W. BROOKE & Co., Ltd., Adrian Works, Lowestoft.

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Bull's Metal and Melloid Company, Ltd.,

Telegram Address.
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FOUNDRY AND ROLLING MILLS,
YOKER, near GLASGOW.
Fournisseurs de l'Amirauté. ADMIRALTY CONTRACTORS

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182 & 183, CLYDEBANK

BULL'S
METAL PROPELLERS.

Unequalled facilities for Casting and Finishing

Solid and Loose Bladed Propellers

of any Dimensions.

A FEW OF OUR CUSTOMERS

British Admiralty.
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Anchor Line.
Allan Line.
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Koninklyke Paketvaart Maatschappij
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Strick Line.
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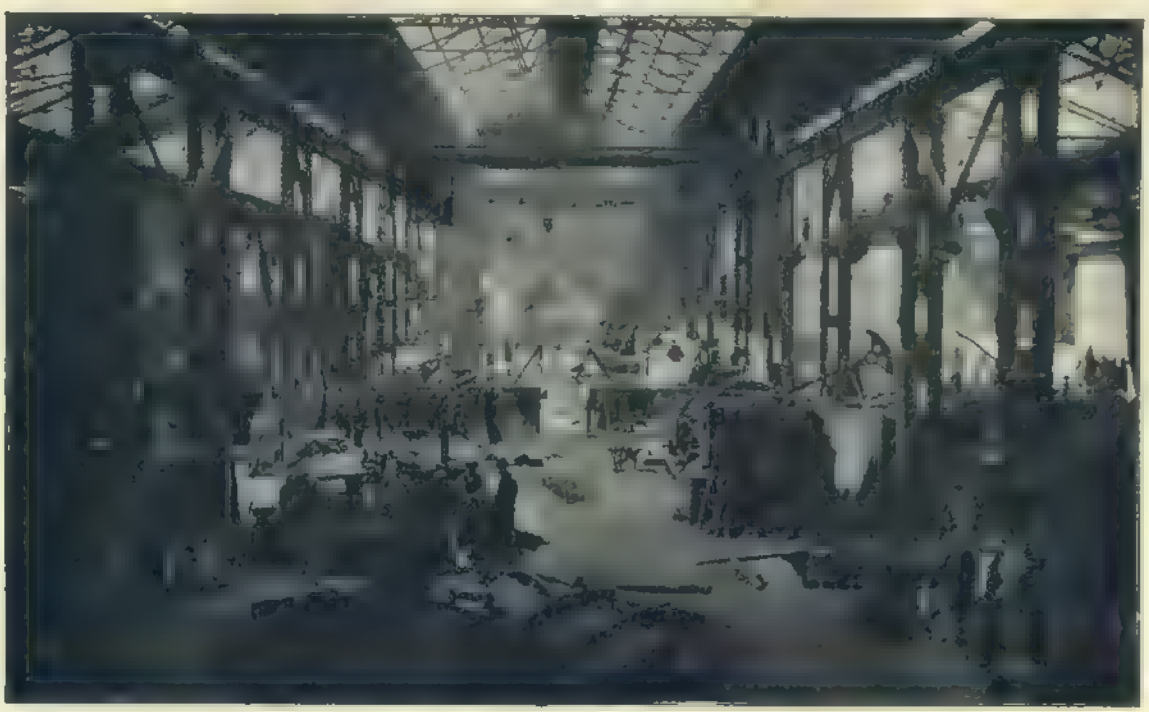
Gow, Harrison & Co.
Norske-Amerika Line
Rankin, Gilmour & Co., Ltd.
Rotterdamsche Lloyd.
Svenska-Amerika-Mexico Line
W. Milburn & Co
Etc., Etc.



Vue de la Baie principale de la Fonderie. VIEW OF MAIN BAY OF FOUNDRY. Vista del taller principal de la Fundición

HELICES METALLIQUES "BULL."

Installations comprenant les derniers perfectionnements pour la fonte et le parachèvement à hélices d'une pièce et d'hélices à pales rapportées de toutes dimensions.

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Amirauté Britannique, Amirautés étrangères, Anchor Line, Allan Line, Donaldson Line, Furness, Withy & Cie, P. Henderson & Cie, Prentice, Service & Henderson, Nederland Stoomvaart Maatschappij, Koninklyke Paketvaart Maatschappij, Compagnie Générale Transatlantique, Strick Line, Monarch Line, Holland-Amerika Line, Gow, Harrison & Cie, Norske-Amerika Line, Rankin, Gilmour & Cie, Ltd, Rotterdamsche Lloyd, Svenska-Amerika-Mexico Line, W. Milburn & Cie, etc.

HELICES METÁLICAS "BULL."

Facilidades sin igual para fundir y acabar paletas de hélice movibles y fijas de todas dumensiones.

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Amirantazgo Británico, varios Amirantazgos extranjeros, Anchor Line, Allan Line, Donaldson Line, Furness, Withy & Co., P. Henderson & Co., Prentice, Service & Henderson, Nederland Stoomvaart Maatschappij, Koninklyke Paketvaart Maatschappij, Compagnie Générale Transatlantique, Strick Line, Monarch Line, Holland-Amerika Line, Gow, Harrison & Co., Norske-Amerika Line, Rankin, Gilmour & Co., Ltd, Rotterdamsche Lloyd, Svenska-Amerika-Mexico Line, W. Milburn & Co., etc.

Bull's Metal and Melloid Company, Ltd.,

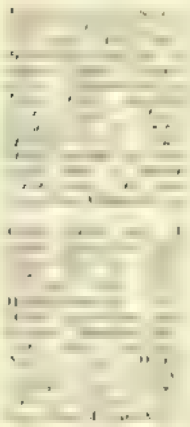
Telegram Address:
Télégrammes:
MELLOID, YOKER

YOKER, near GLASGOW.

Telephones:
162 & 183, CLYDEBANK.

Britannique. On War Office and Admiralty Lists. Proveedores del Ministerio de la Guerra y de Abastecimiento Británico

Solid Propellers for Allan Line [illegible] s.s. "Hesperian" 8,500 I.h.p. Solid Propeller for Holland American Line s.s. "Andyk" 4,000 I.h.p. Built Propeller for Holland America Line s.s. "Mauritsvaak" 4,000 I.h.p. Built Propeller (oval flanged) for Wm. Milburn & Co., s.s. "Port Curtis," 3,500 I.h.p.



BULL'S METAL. Propellers and Propeller Blades. Rams and Pump Rods. Tail Shafts. Rolled Bars (round, hexagon, etc.). Forgings and Stampings.

METAL "BULL."—Hélices et pales d'hélice. Tiges de pompes et plongeurs. Arbres d'hélice. Barres laminées [illegible]

METAL "BULL."—Hélices y paletas para hélices. Vástagos para aparatos y bombas. Eje para hélices. Barras laminadas (redondas y [illegible]

MELLOID. Pump and Piston Rods for use in acid waters and at high temperatures). Condenser Tubes (specially resistant to corrosion).

MELLOID.—Tiges de pompe et de piston (pour eaux acidulées et à hautes températures). Tubes de condenseurs (spécialement resistants à la corrosion).

MELLOID.—Vastagos para bombas y émbolos (para el uso en aguas acidulatas y á altas temperaturas). Tubos de condensadores (resistencia [illegible]

WHITE METALS. Bull's White Metal "B" for lining Purposes. "Tempalto" for Metallic Packings for superheated steam. Babbitts, etc., etc.

METAL BLANC.—Métal blanc Bull "B" pour garnitures antifriction. "Tempalto" pour bourrage métallique pour vapeur surchauffée. Métal [illegible]

METAL BLANCO.—Metal blanco Bull "B" para el foro antifricción. "Tempalto" para empaquetaduras metálicas para vapor recalentado. "Babbitt" [illegible]

THE

"CEAG" AC

AWARDED *A REÇU* HA OBTENIDO

FIRST PRIZE by the British Government in an International Competition

LE PREMIER PRIX AU CONCOURS INTERNATIONAL OUVERT PAR LE GOUVERNEMENT BRITANNIQUE

EL PRIMERO PREMIO EN EL CONCURSO INTERNACIONAL CONCEDIDO POR EL GOBIERNO BRITANICO

For the Best Miners' Electric Safety Lamp produced.

Comme étant la meilleure lampe électrique de sûreté pour mineurs produite jusqu'à ce jour

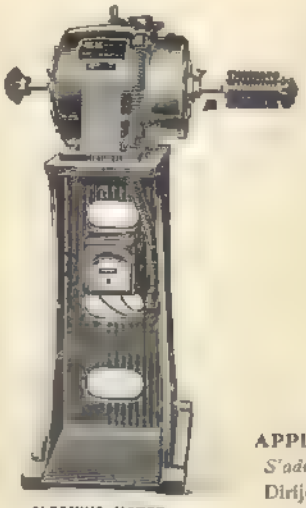
Por ser la mejor lámpara eléctrica de seguridad que se ha producido hasta la fecha

AN UP-TO-DATE INSTALLATION

Les Installations Modernes

Una Instalación Moderna.

FOR	POUR	PARA
Coal Mines,	*Charbonnages,*	Minas de Carbón,
Oil Refineries,	*Raffineries d'huile*	Refinerías de Petróleo
Explosive Factories	*Fabriques d'explosifs,*	Fábricas de Explosivos
Gas Works,	*Usines à gaz*	Fábricas de Gas
Sewage Systems.	*Egouts*	Alcantarillas Municipales
Scrap the Oil Lamp and use the "Ceag."	*Abandonnez la Lampe à huile et employez plus que la "Ceag"*	Dejen á un lado sus Lámparas de aceite y empleen la Ceag"



CLEANING MOTOR.

APPLY TO
S'adresser à
Diríjense á

"CEAG" MINERS' ELECTRIC SAFETY LAMP.

1·5 Candle-power. 15 Hours. 2 Volts.
1·5 *Bougies.* 15 *Heures.* 2 Volts.
1·5 Bujías 15 Horas 2 Voltios

BRITISH MADE BY BRITISH LABOUR WITH BRITISH CAPITAL.	*Fabrication Anglaise. Main d'œuvre Anglaise. Capitaux Anglais.*	Fabricación Británica con Mano de Obra Británica y Capital Británico.
The "CEAG" Lamp ensures Better Coal,	*La Lampe "CEAG" garantit du Charbon plus propre,*	La Lámpara "CEAG" garantiza un Carbon más limpio
INCREASED Economy, Illumination, Production, Safety, Efficiency with Coal Cutters,	*Augmente L'Economie, L'Eclairage, La Production, La Sécurité, et le Rendement des Machines coupeuses de Charbon,*	Aumenta La Economía El Alumbrado La Producción La Seguridad y el Rendimiento de las Máquinas para cortar Carbon.
REDUCED Cost Production, Insurance Premiums, Nystagmus, etc.	*Réduit Le Prix de Revient, Le Taux de l'Assurance, Le Nystagmus (dénommé aussi des poudres)*	Reduce: El Costo de Producción, Las Primas de Seguros, El Nystagmus (Contracción de Pupilas)

The COLLEY ENGINEERING and MACHINERY CO., LONDON, PARIS, NEW YORK and CALCUTTA.

Head Office: "CLUN HOUSE," 17, SURREY STREET, STRAND, LONDON, W.C. 2.

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The "CEAG" MINERS' SUPPLY CO., BARNSLEY, Yorkshire, ENGLAND.

DOIP—UNAJ

"CEAG" Charging Stands for 3,000 Cells (Bullcroft Main Colliery).
Tableaux de Chargement pour 3,000 Piles (Houillère Principale de Bullcroft).
Tableros para la Carga de Baterías, 3,000 Pilas (Hullera Principal de Bullcroft).

All Accessories for "Ceag" Lamps supplied.

Tous les Accessoires pour Lampisterie "CEAG."

Se Sumanistran todos los Accesorios para las Lámparas "CEAG."

Charging Stands.	*Tableaux de Chargement.*	Tableros de Carga
Lamp Racks.	*Râteliers pour Lampes.*	Perchas para Lámparas.
Magneto Openers.	*Appareils Magnétiques pour ouvrir les Lampes*	Aparatos magnéticos para abrir las Lámparas
Acid Fillers.	*[illegible] d'Acide*	Llenadores de Acidos
Voltmeters.	*Voltmètres.*	Voltímetros.
Cleaning Motors.	*Moteurs Nettoyeurs.*	Motores de Limpieza.

The "CEAG" is the only Accumulator successfully using a Solid Electrolyte EFFICIENCY. SIMPLICITY. STRENGTH.

L'Accumulateur "CEAG" est le seul qui ait permis d'employer avec succès un électrolyte solide. Efficacité, Simplicité, Solidité.

Acumulador "CEAG" es el único que haya permitido emplear con éxito un electrolito sólido. Eficacia, Simple y Fuerte

"CEAG" ACCUMULATOR.

"CEAG" ACCUMULATEUR

ACUMULADOR "CEAG"

For Particulars and Catalogues of "CEAG" Productions—

Pour renseignements et catalogue des Produits "CEAG"—

Para informes y catalogos de Productos "CEAG"—

Accessories,	*Accessoires,*	Accesorios
Rescue Lamps,	*Lampes de Secours,*	Lámparas de Socorro,
Sinking Lamps,	*Lampes d'Immersion,*	Lámparas de Inmersión,
Bullseye Lamps,	*Lampes à Lentille Grossissante*	[illegible]
Police Lamps,	*Lampes pour Policiers,*	Lámparas de Policía
Spare Parts,	*Pièces de Rechange*	[illegible]
etc.,	*etc.,*	etc.,
Please apply to—	*Prière de s'Adresser—*	Dirigirse á—

"CEAG" Lamp Racks with Number Plates 200 Lamps each.
Râteliers pour Lampes avec Plaques Numerotées "CEAG"—200 Lampes chacun.
Perchas para Lámparas con Placas Numeradas "CEAG"—200 Lámparas cada una.

The COLLEY ENGINEERING and MACHINERY CO., LONDON, PARIS, NEW YORK and CALCUTTA.

Head Office: "CLUN HOUSE," 17, SURREY STREET, STRAND, LONDON, W.C. 2.

Sole Export Agents for *Seuls Agents Exportateurs des Produits de la* Unicos Agentes Exportadores de Productos de la

The "CEAG" MINERS' SUPPLY CO., BARNSLEY, Yorkshire, ENGLAND.

CHAMPION LUMBERING TOOLS

SOLID SOCKET PEAVIES

Select Rock Maple Handle, Duck Bill Hook.

Solid sockets, made from best malleable iron, 2½ in. in diameter. They have all the strong points and are of latest improved patterns. Standard size peavies have hand hammered duck bill hooks made from ⅝×7/16 in. crucible steel and picks of 7/16 in. steel. Bolts are steel 1⅝×7/16 in. In the 2¾ in. peavies the hooks, picks, etc., are proportionately heavier.

Nos.	N254½	N255
Length, ft.	4½	5
W't, doz., lbs.	112	120
Per dozen	$52 60	54.00

Select Hickory Handle, Duck Bill Hook.

Nos.	N285
Length, ft.	5
W't, doz., lbs.	120
Per dozen	$67.20

HALF DOZEN IN A CRATE

PEAVEY AND CANT HOOK HANDLES

Rock Maple, Wax Finished.

Nos.	N2514	N2514½	N2515
Length, ft.	4	4½	5
W't, doz., lbs.	47	55	60
Per dozen	$10.70	11.80	13.20

Nos.	N2524½	N2525
Length, ft.	4½	5
W't, doz., lbs.	65	70
Per dozen	$4.60	16.00

Select Hickory, Wax Finished.

Nos.	N2574	N2574½	N2575	N2584½
Length, ft.	4	4½	5	5½
W't, doz., lbs.	60	67	80	70
Per dozen	$15.30	17.00	19.00	20 00

TWO DOZEN IN A CRATE

CANT HOOKS

Selected Rock Maple Handle, Short Malleable Iron Clips Bolted Through Handles, and Duck Bill Hooks.

Malleable iron clasps 2½ or 2¾ in. in diameter. Improved extension toe rings. Beveled on both sides to admit of use as a bar in "cutting" logs on skids, and is constructed so as to free itself readily. Standard size tools, 2½ in. in clasp, have hand hammered duck bill hooks of 1×7/16 in. crucible cast steel and proportionately heavier steel for 2¾ in.; 1⅝×½ in. steel bolts.

Nos.	N2614	N2614½
Length, ft.	4	4½
W't, doz., lbs.	90	100
Per dozen	$39.60	41.00

HALF DOZEN IN A CRATE

CANT HOOKS

Select Rock Maple Handle, Malleable Iron Clasp and Toe Rings, with Nib to Catch on Log, Crucible Steel Chisel Shaped Hook.

Malleable iron clasps 2½, 2¾ or 3 in. diameter. Beveled on both sides to admit of use as a bar in "cutting" logs on skids, and is constructed so as to free itself readily. Standard size tools 2½ in. in clasp, have hand hammered chisel bill 1×7/16 in. crucible cast steel and proportionately heaviner steel for 2¾ in.; 1⅝×½ in. steel bolts.

Nos.	N1074½	N1075
Length, ft.	4½	5
W't, doz., lbs.	90	92
Per dozen	$39.00	40.40

HALF DOZEN IN A CRATE

Select Rock Maple Handle, Hand Forged Wrought Steel Clasp, Malleable Iron Extension Toe Ring, Hand Forged Steel Duck Bill Hook.

Malleable iron clasps 2½, 2¾ or 3 in. diameter. Improved extension toe rings. Beveled on both sides to admit of use as a bar in "cutting" logs on skids, and is constructed so as to free itself readily. Standard size tools, 2½ in. in clasp, have hand hammered duck bill hooks of 1×7/16 in. crucible cast steel and proportionately heavier steel for

Nos.	N684½	N685
Length, ft.	4½	5
W't, doz., lbs.	90	100
Per dozen	$44.90	46.20

HALF DOZEN IN A CRATE

Select Rock Maple Handle, Duck Bill Hook.

Malleable iron clasps 2½, 2¾ or 3 in. diameter. Improved extension toe rings. Beveled on both sides to admit of use as a bar in "cutting" logs on skids, and is constructed so as to free itself readily. Standard size tools, 2½ in. in clasp, have hand hammered duck bill hooks of 1×7/16 in. crucible cast steel and proportionately heavier steel for 2¾ in.; 1⅝×½ in. steel bolts.

Nos.	N834	N834½	N835	N844½
Length, ft.	4	4½	5	4½
W't, doz., lbs.	87	92	117	110
Per dozen	$39.60	41.00	42.40	47.50

Select Hickory Handles, Duck Bill Hook.

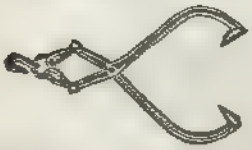
Nos.	N874½	N875
Length, ft.	4½	5
W't, doz., lbs.	102	106
Per dozen	$49.00	50.60

HALF DOZEN IN A CRATE

★ Items Marked Thus ★ Are Shipped From Factory Only.

CHAMPION LUMBERING TOOLS

SKIDDING TONGS



Octagon Steel, Heavy Upset Points.

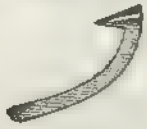
Made of the best hammered crucible steel, the swivels, hooks and clevises of best Swedes iron. The steel is upset in these to give the maximum strength at the point where the strain is greatest.

Nos.	N357	N150	N273
Diameter, in...	1	1¼	1½
Opens, in.	24	32	36
W't, pair, lbs..	16	23	27
Per doz. pairs	$94.50	105.20	132.50

No. N178—⅞ in., w't per doz. 150 lbs., otherwise same as No. N357, per dozen pairs $83.50

PACKED LOOSE

DUCK BILL HOOKS



No. 172—Cant hook, for 2⅜ and 2⅝ in. tools, size 1×⅞ in., w't per doz. 24 lbs. .....per dozen $14.60

No. 385—Peavey or can't hook, for 2⅜ and 2⅝ in. tools, size 1¼×⅜ in., w't per doz. 35 lbs., per dozen $20.40

PACKED LOOSE

LOADING HOOKS

No. 158—⅝ in. square steel, heavy round upset point, Swedes iron ring, w't per doz. 30 lbs., per dozen $15.30

LOOSE

SWAMP HOOKS

No. 156—1 in. hand hammered octagon steel, heavy round upset points, Swedes iron grab hook and ring, w't per doz. 65 lbs., per dozen $30.90

LOOSE

HOOKAROON PICKS

No. 377—Steel point, to fit on axe handle, w't per doz. 15 lbs., per dozen $8.20

LOOSE

LOADING AND SNATCH BLOCKS

No. N298—Wrought iron loading blocks, fitted with grab hook, 5×1¾ in. chain sheaves, w't per doz. 150 lbs., per dozen $32.50

PACKED LOOSE

No. N164—Loading and snatch blocks, with self-locking clasp, special ⅝×2¾ in. bolt, 5×1¾ in. iron sheave, Swedes iron round swivel hook, w't per doz. 144 lbs., per dozen ...$49.20

PACKED LOOSE

PIKE POLES

Select second-growth ash, seamless steel ferrule, hand forged crucible steel pike and hook, made from one piece.

Nos.	E134	E135	E136
Length, ft.	12	14	16
W't per doz., lbs.	85	100	110
Per dozen	$48.20	58.20	74.40

HALF DOZEN IN A CRATE

TIMBER GRAPPLES

No. N125—2½ in. malleable iron clamp, ⅝×⅝ in., opens 16 in., crucible cast steel hooks, hung with swivel hinge, select rock maple handles, length 4 ft., w't per doz. 120 lbs., per dozen $46.80

HALF DOZEN IN A CRATE

TIMBER GRAPPLE HANDLES

No. N220—Extra handles for timber grapples, 4 ft. long, w't per doz. 40 lbs. .....per dozen $12.00

TWO DOZEN IN A BUNDLE

PIKE POLE HANDLES

Select Second-Growth White Ash.

No. E217—Feet	12	14
Diameter, in.	1⅛	1⅛
W't per doz., lbs.	70	85
Per dozen	$35 20	43.00

HALF DOZEN IN A BUNDLE

PIKE POLE PIKES

No. 205—Straight pike, with hook and threaded shank, w't per doz. 10 lbs. per dozen $12.00

PACKED LOOSE

PIKE POLE FERRULES

No. 207—Polished seamless ferrules, w't per doz. sets 5 lbs., per dozen sets $5.30

PACKED LOOSE

CANT HOOK CLASPS

Hand Forged Steel.

No. 180—2¼ in., w't per doz. 12 lbs., per dozen $8.10

No. 181—2½ in., w't per doz. 13½ lbs., per dozen $8.60

PACKED LOOSE

Malleable Iron.

No. 183—2¼ in., w't per doz. 12 lbs., per dozen $6.50

No. 184—2½ in., w't per doz. 13½ lbs., per dozen $7.70

PACKED LOOSE

CAN'T HOOK TOE RINGS

FORGED STEEL

No. 185—2¼ in., w't per doz. 4 lbs., per dozen $3 70

No. 186—2½ in., w't per doz. 4 lbs., per dozen $3.70

MALLEABLE IRON

No. 187—2¼ in., w't per doz. 4 lbs., per dozen $2.40

No. 189—2½ in., w't per doz. 4 lbs., per dozen $2.40

LOOSE

No. 198—Malleable iron extension, for 2½ in. tools, w't per doz. 6½ lbs., per dozen $3.80

PACKED LOOSE

SWIVEL HOOKS

No. 627—Evener swivel grab hook, of 1 in. steel with ⅝ in. ring and hand ring .....per dozen $20.00

LOOSE

TELEPHONES

"CHICAGO DE LUXE"

Chicago De Luxe bridging telephone represents a distinct advance in the art of manufacturing magneto telephone apparatus. It embodies all the latest and best features in telephone construction, is encased in the popular extra compact cabinet of improved design, finished in hand rubbed quarter sawed golden oak. It is handsome in appearance, durable, efficient and absolutely reliable. The wiring is simplified so that each circuit may be easily traced. The connections between the cabinet and door are made by soldering the tinned copper wire to specially designed hinges, insuring positive and permanent contacts. Bipolar lightning arrester is a part of the regular equipment of each telephone, and has proved so dependable that we guarantee our telephones against damage by lightning, providing they are properly installed in accordance with printed instructions enclosed in each telephone. Line binding posts are regularly mounted outside; when desired they will be mounted inside the cabinet.

Specifications: Bridging generator; long pattern bridging striker; short lever automatic switch; platinum contacts; genuine solid back long distance transmitter; adjustable transmitter arm; long distance induction coil; bipolar receiver and cord; two cells dry battery; bipolar lightning arrester; quarter sawed oak cabinet with real piano finish.

Style A telephones are regular bridging code signal, party line instruments

Style B telephones are equipped with low capacity "ring-through" condensers in secondary circuit. Will ring last telephone on line with receivers of every intermediate telephone removed.

Style C telephones are equipped with direct current generators to throw drop at central without ringing other telephones on same line. Other telephones cannot be signaled by this style instrument.

Style D telephones are equipped with "secret-ring" push buttons to ground generator. When installed on metallic circuit with proper equipment at Central will ring other telephones on same line by code signal without calling Central; or by using push button will call Central without ringing other bells on the line.

Style E telephones are equipped with "secret-ring" push buttons for producing either direct or alternating current (a combination of Styles A and C). Can be used on either ground or metallic circuit.

No.	Style *A	*B	*C	D	*E	Generator	Ringer
18	....	....	....	....	....	Five bar	1000 ohm
19	....	....	....	....	....	Five bar	1600 ohm
20	....	....	....	....	....	Five bar	2500 ohm

Prices on application

When ordering affix to the number the letter indicating style, etc.

*Not carried in stock; will ship from factory

TELEPHONES

CHICAGO DESK SETS

Style A Chicago desk set has standardized equipment; it has the same transmitter, receiver, induction coil, generator ringer and lightning arrester as the wall type instrument. The generator, ringer movement, induction coil and lightning arrester are mounted in a neat compact magneto box, quarter sawed golden oak finish, 8x5x4½ inches. This arrangement allows the use of a three conductor cable, which is more flexible and less liable to kink and wear than the four, five or seven conductor cables.

The desk stand is constructed of seamless tubing, finished in black by a new process which prevents the finish from flaking off. The head to which the transmitter is attached is permanently fastened to the interior shaft. The hook switch is mounted on the shaft and is very simple and positive in operation. Hard rubber insulations are used throughout. The receiver cord and cable are of best quality copper tinsel, covered with a heavy green moistureproof silk braid. The bipolar lightning arrester is a part of the regular equipment, and is guaranteed against damage by lightning.

No.	Generator	Ringer
75A	Five bar	1600 ohm
*76A	Five bar	2500 ohm

Prices on application

TELEPHONE EXTENSION BELLS

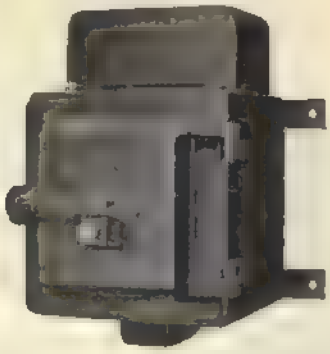
Can be used in connection with any standard make of telephone. The resistance of the extension bell should be the same as the resistance of telephone with which it is used; that is, a 1600 ohm bell should be used with a 1600 ohm telephone. Ringer enclosed in a quarter sawed oak case, golden oak finish.

No.	Resistance, Ohms
*237A	1000
237B	1600
*237C	2500

Prices on application

*Not carried in stock; will ship from factory

*MINE-A-PHONES



Mine telephone systems usually consist of several instruments connected to one pair of wires forming a party line. Local battery magneto telephones are used and signaling is done by code rings. Severe conditions encountered underground due to moisture, gases, acidulated water, etc., make it necessary to provide unusually well protected telephone instruments for this service. For use above ground, such as the engine-room, superintendent's office, etc., standard wall or desk type instruments can be used unless placed in exposed places. When the mine system requires more lines than one they should terminate in a switchboard located at some central point.

Mine-a-Phones are enclosed in black enameled cast iron cases doubly protected from moisture, acid fumes and gases by two iron doors. Outer door is fitted with a tubular rubber gasket extending around its inside bearing surface. When door is closed and latched the case is made air and watertight. Inner door equipped with a broad felt gasket to exclude the moisture. Gongs are 4 inches in diameter, give a clear loud signal and are protected by a cast iron hinged cover. Equipped with a five bar hand generator powerful enough to ring 40 telephones connected across the same line. All interior wiring and parts are heavily covered with insulating material to avoid short circuits. Two standard sized dry cells are mounted inside the case and are securely held in place by a spring retainer.

No.	Generator	Ringer	Weight Pounds
890-I.....	5 bar	1600 ohms	80

Prices on application

*SWITCHBOARDS

Write for special catalog on switch boards

Prices quoted on application

Illustration shows board equipped with 100 drops and jacks, 25 ringers and jacks, and 15 cord circuits.

When writing for quotations on switchboards, specify which board is preferred and indicate the number of lines which will be connected to the board when it is installed, and state whether the lines are party or individual lines, or, if both, the number of each. Also state whether or not a distributing board and lightning arrester is wanted, and, if so, for how many lines, and whether they are ground or metallic circuit.

*Not carried in stock; will ship from factory

TELEPHONE WIRE

Extra Double Galvanized B. B.

Used mostly by telephone and telegraph companies and in railway telegraph service. Stand a good mechanical test. The mile ohm is from 5500 to 5800.

In coils containing half mile

Nos.	10	11	12	14
Weight per coil, pounds.	129	103	85	50
Per 100 pounds . . . . . $..				

COPPER-CLAD STEEL

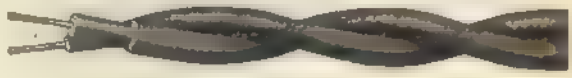
Twisted Pair, Braided

No. 17. B. & S. gauge conductors, $\frac{1}{32}$ inch rubber insulation, 100 megohms test. Black saturated weather proof braid with raised tracer in one conductor. This wire has approximately the same breaking strain as No. 14 hard drawn copper duplex. Has ample conductivity for all telephone needs. The same non-corrosive qualities of pure copper wire, and presents a much smaller surface to wind, sleet, etc.

No. 17. Weight per 1000 feet about 40 pounds.....
.....per 1000 feet, $.. .

One thousand feet in a coil

INSULATED TELEPHONE WIRES



Bridle Wire, Outside Twisted Pair

Used for outside connections of telephone work. One conductor having a raised tracer to distinguish it from the other.

No. 18. 18 B. & S. Gauge. Weight for 1000 feet about 35 pounds .....per 1000 feet, $.....

One thousand feet in a coil

Substation and Interior Telephone Wire, Twisted Pair

Used for inside telephone use and can also be used as a high grade insulated annunciator wire.

Soft drawn tinned copper wire insulated to a diameter of $\frac{1}{16}$ of an inch over rubber, covered with a single hard glazed cotton braid, twisted in pairs. Not weatherproofed.

No. 19. 19 B. & S. gauge. Weight per 1000 feet about 29 pounds .....per 1000 feet, $.....

One thousand feet in a coil

Plain Rubber Covered Telephone Wires

Pot Head Wires, Twisted Pair

Used for inside connections of telephone wires, around and in the telephone boxes.

Soft tinned copper conductors, insulated to a diameter of $\frac{1}{16}$ of an inch, over rubber, without any outer braid or protector.

No. 19. 19 B. & S. gauge. Weight per 100 feet about 34 pounds .....per 1000 feet, $.....

One thousand feet in a coil

Telegrams: *Télégrammes* Telegramas
"COLBY BROS., OULTON BROAD."
Telephone No. 38.

Codes: *Les Codes* Los Codigos
A B C (4th & 5th Editions), and Private

COLBY BROTHERS, LTD.

SHIPBUILDERS.

ENGINEERS, BOILERMAKERS, BRASS AND IRON FOUNDERS.

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Bureau principal—
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OULTON BROAD, LOWESTOFT.

Contractors to the WAR OFFICE and ADMIRALTY.

BUILDERS OF FISHING VESSELS OF EVERY CLASS.

PLANS, SPECIFICATIONS, AND PRICES ON APPLICATION.

STEAM TRAWLERS.

STEAM DRIFTERS,
WOOD OR STEEL.

LINE FISHING VESSELS.

FISH CARRIERS.

MOTOR FISHING VESSELS. WHALERS. SAILING TRAWLERS.

SPECIAL ATTENTION GIVEN TO CRAFT SUITABLE FOR ICELAND, NEWFOUNDLAND, AND BAY OF BISCAY FISHERIES.

SPECIAL TYPE STEAM TRAWLERS.

Code Word—"WILMINGTON."
Length, B.P. 170 ft. Breadth, ext. 27 ft. Depth, mld. 15 ft. 6 in. Bow rudder. Triple Engines. Cyls. 16 in., 25 in. and 42 in. by 27 in. stroke. Boiler, 16 ft. by 11 ft. 8 in. 180 lbs. w.p. Long quarterdeck with whaleback. Crew accommodation, 40 men. Bunker capacity 375 tons. Water ballast, 50 tons. Winch, 1,200 fthms. Speed, 11½ knots. Electric light throughout.

Code Word—"GRANVILLE."
Length, B.P. 147 ft. Breadth, ext. 22 ft. Depth, mld. 13 ft. 6 in. Triple Engines. Cyls. 13 in., 22 in. and 36 in. by 27 in. stroke. Boiler, 13 ft. 6 in. by 10 ft. 6 in. 180 lbs. w.p. Flush deck. Capstan. Winch, 800 fths. each barrel. Crew accommodation, 28 men. Bunker capacity, 190 tons. Water ballast, 30 tons. Speed, 11 knots. Electric light throughout.

Constructeurs navals
Ingénieurs. Chaudronnerie. Fonderie de cuivre et de fer.
Constructeurs de bateaux de pêche en tous genres.
Chalutiers à vapeur
Bateaux pour pêche à la ligne.

Fournisseurs de l'Amirauté et le Ministère de la Guerre.

Plans, spécifications et devis sur demande
Bateaux à vapeur pour la pêche au manet en fer ou en bois.
Illeges pour poisson
Bateaux de pêche automobile. Baleinieres. Chalutiers à voile.
Etude spéciale des bateaux appropriés à la pêche en Islande, en mer de Terre-Neuve et dans le golfe de Biscaye.

Chalutiers à vapeur type spécial.

Mot du code—"Wilmington."
Longueur, 52 mètres. Largeur, 8,10 mètres. Profondeur, 4,67 mètres. Gouvernail avant. Triple moteur. Cylindres de 406, 635, et 1066 mm. × 686 mm. de course. Chaudière de 487 × 350 cm. 81 kg. w.p. Gaillard d'arrière avec Cambrure. Installations pour 40 hommes d'équipage. Capacité des soutes, 375 tonnes. Lest d'eau, 50 tonnes treuil de 1200 brasses. Vitesse, 11¼ nœuds. Lumière électrique partout.

Mot du code—"Granville"
Longueur, 44,80 mètres. Largeur, 7,10 mètres. Profondeur, 4,07 mètres. Triple moteur. Cylindres de 330, 559, et 914 mm. × 686 mm. Chaudière de 406 × 320 cm. Pression de travail 12,7 kg. par c.m.² Franc-tillac, cabestan, treuil de 800 brasses chaque tambour. Installations pour 28 hommes d'équipage. Capacité des soutes, 190 tonnes. Lest d'eau, 30 tonnes Vitesse, 11 nœuds. Lumière électrique partout.

Ingenieros. Fabricación de Calderas. Fundidores de hierro y Bronce.
Constructores de vapores pesqueras de toda clase.
Barcos barrederos á vapor.
Barcos de pescar á la línea.

Contratistas del Almirantazgo y del Ministerio de Guerra.

Plano, precio y especificaciones, sobre pedido.
Vapores de madera ó acero para pescar al abareque.
Barcas automóviles de pesca. Balleneras. Barcos barrederos á velas.
Se dan atenciones muy especiales á los vapores adecuados para la pesca en Islandia, Terranova, y la Bahía de Biscaya.

Tipo especial de Barcos barrederos á vapor.

Palabra de código—
"Wilmington."

Eslora, 52 metros. Manga, 8,10 metros. Puntal, 4,67 metros. Timon de proa. Triple motor. Cilindros de 406, 635, y 1066 mm. por 686 mm. de carrera. Caldera de 487 por 350 cm. Presión de trabajo 12,7 kg por c.m.² largo alcazar de popa con cubierta combeada. Acomodación para 40 hombres. Capacidad de los pañoles, 375 toneladas. Lastre de agua 50 toneladas. Corno de 1200 brazas. Velocidad, 11¼ nudos. Luz eléctrica por todo.

Palabra de código—
"Granville."

Eslora, 44,80 metros. Manga, 7,10 metros. Puntal, 4,07 metros. Triple motor. Cilindros de 330, 559, y 914 mm. por 686 mm. Caldera de 406 por 310 cm. 81 kg. w.p. Cabrestante, guinche. Capacidad de los pañoles, 190 toneladas. Lastre de agua, 30 toneladas. Corno de 800 brazas. Velocidad, 11 nudos. Luz eléctrica port odo.

Telegrams: *Télégrammes*. Telegramas
"COLBY BROS, OULTON BROAD."
Telephone No. 38

Codes: *Codes*: Códigos
A.B.C. 4th & 5th Editions),
and Private.

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OULTON BROAD, LOWESTOFT.

Contractors to Admiralty & War Office. SHIP REPAIRERS.

CARGO & PASSENGER VESSELS of all classes up to 300 feet in length.
COASTING STEAMERS of 200, 310, 500, 600, 750, and 1,100 Tons deadweight.

RIVER STEAMERS, FERRY STEAMERS, TUGS, LIGHTERS.

A SEPARATE STAFF KEPT FOR REPAIR WORK.

WOOD TUGS FOR CANAL WORK.

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PLANS, SPECIFICATIONS, AND ESTIMATES ON APPLICATION.

1000 TON STEAM COASTER

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WOOD AUXILIARY SCHOONERS.

FISHING VESSELS OF ALL DESCRIPTIONS.

PLEASURE YACHTS.

Castings in all Metals, for all purposes. : : Send your Enquiries.

Bateaux pour passagers et marchandises en tous genres jusqu'à 91 mètres de longueur
Navires de cabotage de 200, 310, 500, 600, 750, et 1,100 tonnes de poids mort
Steamers de rivière, bateaux-mouches, remorqueurs, allèges etc
Equipes spéciales pour réparations.
Remorqueurs en bois pour navigation fluviale.
Barges en bois et en acier pour navigation fluviale
Caboteurs automobiles en bois.
Goélettes en bois.
Bateaux de pêche en tous genres.
Bateaux de plaisance.
Cabotier à vapeur de 1,000 tonnes.

Plans, spécifications et devis sur demande.

Buques de carga y de pasajeros de toda clase hasta 91 metro de largo.
Buques de cabotaje desde 200, 310, 500, 600, 750, 1,100 toneladas peso muerto.
Buques fluviales, barcos de transporte, remolcadores, lanchas
Tenemos un equipo separado para trabajos de carena.
Remolcadores de madera par canales
Barcos de madera y acero para rios y canales.
Barcos de cabotaje a motor, de madera
Goletas auxiliares, de madera.
Barcos pesqueros de toda clase.
Yates de placer.
Planes, especificaciones, presupuestos à peticion.

Fundiciones en todos los metales para todos fines.
Envíenos Vd. sus demandas.

E. A. WARNING SIGNALS

Warning Signals offer the widest selection of automobile warning signals, for in the many models will be found a horn adaptable to any style and size of car or truck.

Attractive design, strength of materials and reliable workmanship are the strongest features embodied in their construction, and every horn is carefully made and assembled under expert supervision. All parts are made interchangeable.

Are tested under conditions that will never be experienced while in service. The manufacturers absolutely guarantee materials, construction and workmanship.

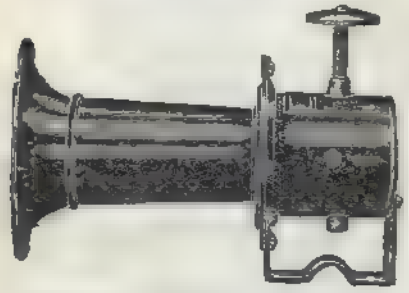
Furnished as regular equipment on a number of the standard automobiles and trucks.

Finish—"All Black" and are supplied in this manner unless otherwise specified.

Brackets—Equipped with brackets as illustrated.

Voltage—Wound for 6 volts, and supplied with wire and push button, ready for installation. Special voltage can be supplied at additional cost.

HAND OPERATED

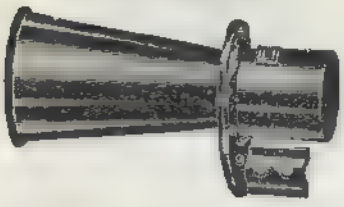


Noted for simplicity of design and construction. With slight pressure on plunger, a strong and commanding warning note is produced.

No. T6055—Length 9¼ in., diameter 5 in., w't each 3½ lbs. ..each $4.70

ONE IN A BOX

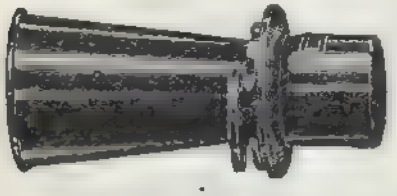
MOTOR DRIVEN



Under the Hood Type, the achievement of fifteen years' experience in the manufacture of the best warning signals that can be produced.

No. T6056—Length 10 in., diameter 5 in., w't each 4 lbs. ....each $8.00

ONE IN A BOX



Under the Hood Type. Extra large horn with a deep penetrating warning, easily heard for long distances.

No. T6058—Length 12 in., diameter 6 in., w't each 6¾ lbs. ..each $14.70

ONE IN A BOX

MOTOR DRIVEN

FOR FORDS

Built special to fit all Ford cars equipped with 6 volt batteries.

Finished in black, equipped with brackets as illustrated, ready for installation.

Not furnished with wiring. Wiring is already on Ford Cars.

No. T6057—Length 10 in., diameter 5 in., w't each 4 lbs. ...each $8.00

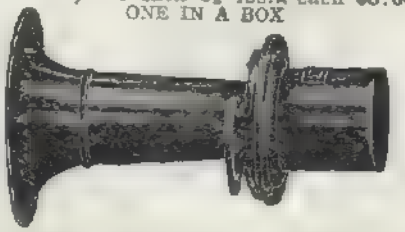
ONE IN A BOX

Torpedo model for attachment to outside of the car.

Extra large horn with a deep penetrating warning, easily heard for long distances.

No. F6059—Length 11 in., diameter 6 in., w't each 6¾ lbs.★ each $8.00

ONE IN A BOX



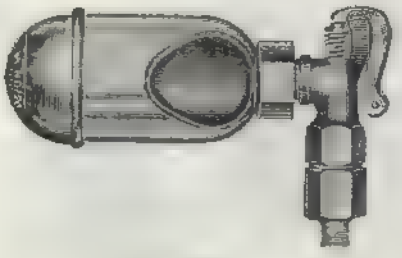
Large bell shaped model for attachment to outside of car.

Extra large horn with a deep penetrating warning, easily heard for long distances.

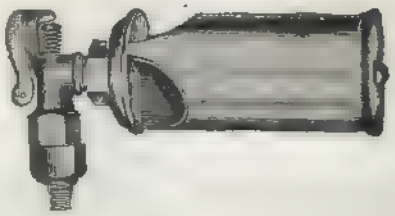
No. F6060—Length 12 in., diameter 6¾ in., w't each 6¾ lbs.★ each $8.00

ONE IN A BOX

BUELL EXPLOSION WHISTLES



No. 6070.



No. 6071.

A powerful, practical and perfect warning device, fits in priming cup opening, thereby getting the explosion direct instead of through the exhaust valves. It can be installed on practically all cars without any other parts. On engines not fitted with priming cups such as the Ford, a special spark plug with an opening on the side to accommodate the whistle is furnished.

No. 6070—Single tone, whistle complete, ready for installation, w't, each 1 lb. .....each $6.70

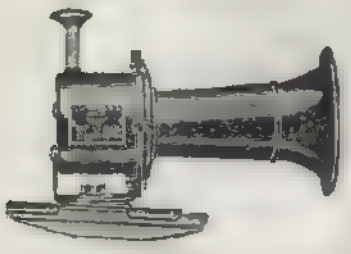
No. 6071—Chime tone, whistle complete, ready for installation, w't each 1 lb. .....each $9.30

No. 6072—Special Spark Plug for use on engines not having priming cups, w't each 10 oz., extra, each $1.30

ONE SET IN A BOX

★ Items Marked Thus ★ Are Shipped from Factory Only.

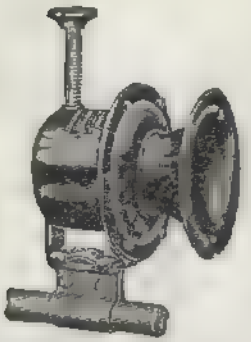
STEWART HAND-OPERATED WARNING SIGNALS



One push of plunger creates 192 distinct sound impulses—more than any other signal. This, together with its exclusive, large-sized vibratone steel diaphragm, accounts for the Stewart's wonderfully effective warning. No matter how installed, signal can always be pointed straight ahead.

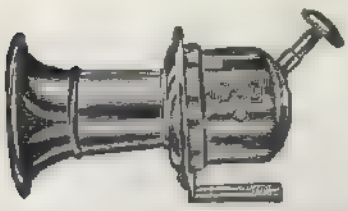
No. T6034—114—Double-supporting adjustable bracket and is self-lubricating. Finished in black enamel, w't each 5 lbs. .....each **$6.68**

ONE IN A BOX



No. T6038—115—Finished in black enamel with nickel plated bell, complete with brackets, w't each 4 lbs. .....each **$6.68**

ONE IN A BOX



This model is efficient in results. The push rod is set at a forty-five-degree angle, making possible a simplification of interior mechanism. One stroke of the plunger creates 84 sound impulses. It has a vibratone steel diaphragm.

No. T6036—151B—Black enamel finish, complete with bracket, w't each 3½ lbs. .....each **$4.68**

ONE IN A CASE

STEWART MOTOR-DRIVEN WARNING SIGNALS

A slight pressure on the large push button sends out a flood of commanding sound waves.

It is economical in current consumption. Brushes are large, rear bearing provided with ball thrust, shaft can never get out alignment, felt-packed oil well gives perfect lubrication.

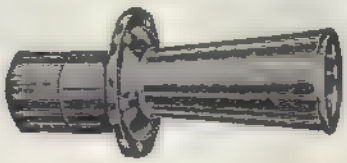
Has one-piece, seamless projector and back-cover. No solder, parts are riveted and bolted. Finished in hard-baked black enamel. Variety of brackets to fit any car. Outfit includes bracket, push button, terminals and five feet of double-strand electric cord, w't each 7 lbs.

No. F6039—136E—**For Underhood installation★** .....each **$11.34**

No. F6040—136C—**For Outside Installation★** .....each **$11.34**

ONE IN A BOX

Specify Make, Year and Model of Car When Ordering.



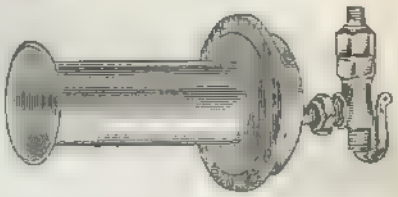
Motor is Stewart-built and embodies a new, improved design of magnetic circuit. Armature is large, gives greater power with less current, diaphragm is made of high grade tempered steel.

This new model is slightly smaller than the DeLuxe Stewart Motor-Driven Signal, No. T Model 136, being two and one-half in. shorter in length and having a diaphragm half a inch less in diameter.

No. F6041—163D—For Underhood installation, complete with bracket, push button, terminals and five feet of electric cord, w't each 3 lbs., each★ **$8.68**

ONE IN A BOX

BUELL TURBO HORNS



FOR ALL PASSENGER CARS AND MOTOR TRUCKS

The Buell Turbo Horn is made of aluminum and is a distinctive new type of warning signal utilizing the explosion pressure through priming-cup opening in cylinder head, using the same valve mechanism as the Buell Explosion Whistles.

The high pressure gas of the explosion is used to operate a small turbine which carries a cam engaging a diaphragm, as used in the motor-driven electric horn, the Buell Turbo Horn takes its mechanical power direct from the explosion of the cylinder instead of the devious circuit through engine, generator, battery and electric motor, each with its considerable loss of efficiency in transmission of power.

There is but one moving part in the Buell Horn, making it a signal with the maximum certainty of operation.

Comes complete with valves, steering wheel lever and enclosed wire control, 4½x7 in. over all.

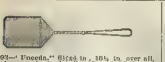
(Less Spark Plug) When Spark Plug is wanted order our No. 6072-½ in.

No. 6073—⅜ in. pipe thread, w't each 2 lbs.....each **$11.70**

ONE IN A CARTON

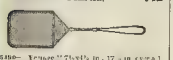
WIRE FLY SWATTERS

Our quotations look like 50% off prices when compared with other lines. You can undersell anyone in town with these whaling big sellers.



1H5493—"Freeda." Fitted in, 16½ in. over all, 10 in. round wire handle, 12 mesh black wire cloth, 10½x10½ round. 2 doz. in combination display stand carton.

Doz. **$0.45**
6 doz. lots, " **.42**

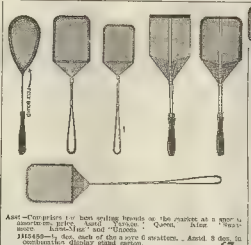


1H5486—"Lenox." Steel, in., 17 in. over all, 10 in. heavy round wire handle, 12 mesh, cloth wire cloth, oval top, extender 8 folds, stand and wire 8 folds overall full. 2 doz. in combination display stand carton.

Doz. **.45**

1H5491—"Economy." Steel, 16½ in. over all, 10 in. wire, square, wire stamped, two black wires, handle 2 wires bent, 1 doz. in combination display stand carton.

Doz. **$0.64**
6 doz. lots, " **.60**



Asst.—Comprises four best selling brands on the market at a saving to customers. Price. Asst. "Freeda." Asst. "Lenox." Asst. "Economy." Asst. "Handy-Mate" and "Unicorn."

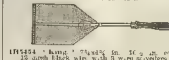
1H5485—5 doz. each of the above 5 swatters, combination display stand carton.

Asstd. 3 doz. in

Doz. **67c**
Asstd. 1 doz. in
Gro. **$7.25**

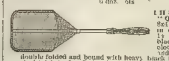
1H5079 "Hunt-Miss." Steel, 24 in. over all, 16 in. heavy strong wire handle, 12 mesh black wire cloth, ends are double folded and fastened with chain guards. 1 doz. in combination display stand carton.

Doz. **$0.68**
6 doz. lots, " **.62**



1H5454 "King." Steel, 24 in. over all, 16 in. heavy black wire handle, 12 mesh black wire cloth, ends are double folded and fastened with chain guards, extra heavy black enameled wood handle, easily removable. 1 doz. in combination display stand carton. Total $1.20

Doz. **$0.78**
6 doz. lots, " **.75**



1H5448 "Queen." Steel, 16½ in. over all, 10 in. wire, black wire mesh, end double folded and bound with heavy black fabric. Solid steel handle with japanned finish, nickel plated ferrule. 2 doz. in combination display stand carton.

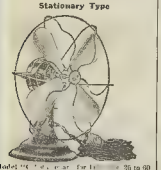
Doz. **$0.82**
6 doz. lots, " **.78**

ELECTRIC FANS FOR HOT WEATHER

The best known fans at prices that are not beat by anyone else. We have them in stock ready for immediate shipment.

"POLAR CUB" ELECTRIC FANS

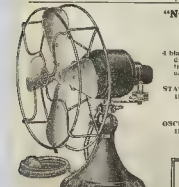
Stationary Type



Ideal "Polar Cub" for living rooms, 25 to 60 cycles, 110 volts alternating or direct current. 3 blades, nickel plated and polished brass guard, ebonite switch with rubber bushings, governor controlled, oscillating with self-starting device, 8 ft. cord and plug, 3 in box.

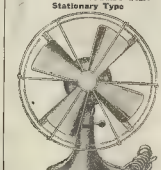
1H5922—6 in. Each **$3.75**
Lots of 12, " **3.50**

1H5900—8 in., heavily gear all over. Retails at $7.50. 1 in box. 6 lbs. Each **$5.50**
Lots of 12, " **5.25**



"STAR" ELECTRIC FAN

Stationary Type



1H7668—8 in., ht. over all 13½ in., 3 speeds, 100 to 130 volts alternating or direct current, 4 blades, nickel plated and polished brass guard, ebonite switch with rubber bushings, governor controlled, oscillating with self-starting felt wicks at either end of axle insuring for lubrication, heavy fan guard, thumb screw adjusts to any height, 6 ft. cord and wire with 2 pole plug. Guaranteed for 1 year. Retails at $10.00. 1 in box. 7 lbs. Each. **$7.50**
Lots of 3, " **7.00**

"NORTHWIND" ELECTRIC FANS

4 blades, universal motor, 110 volts alternating or direct current, starting switch in base, full swivel, ball and socket bronze bearings with felt oiling wicks, complete with cord. 1 in carton.

STATIONARY TYPE—

1H7726—8 in., 3 speeds, 6 ft. cord Each. **$6.20**
Lots of 12, " **6.00**

OSCILLATING TYPE—

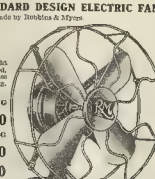
1H8314—10 in., 3 speeds, 8 ft. cord Each. **$14.34**
Lots of 12 " **13.88**

FIGHT FOR THE TURN

"R. & M." STANDARD DESIGN ELECTRIC FANS

Made by Dockins & Myers

Stationary Type



Stationary Type

Drawn steel frame, light weight white base, black japanned, striped in gold, 4 polished brass blades, 8 ft. cord and plug. 1 in box.

110 VOLT, ALTERNATING OR DIRECT CURRENT—

1H4529—9 in. Each **$14.60**

110 VOLT, ALTERNATING CURRENT—

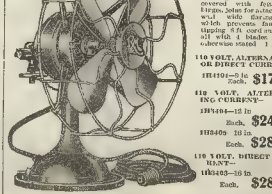
1H8413—12 in. Each **$18.80**

1H8444 16 in. Each **$21.60**

110 VOLT, DIRECT CURRENT

1H8423—16 in. Each **$21.60**

Oscillating Type



Oscillating Type

Light weight drawn steel frame, black japanned, striped in gold, 4 polished brass adjustable blades, 8 ft. cord and plug covered with fine mica fibres. Joint for adjustment to wind with friction nut which prevents fan from tipping. 8 ft. cord and plug all with 4 blades unless otherwise stated. 1 in box.

110 VOLT, ALTERNATING OR DIRECT CURRENT—

1H4491—8 in. Each. **$17.60**

110 VOLT, ALTERNATING CURRENT—

1H8404—12 in. Each. **$24.00**

1H8405 16 in. Each. **$28.00**

110 VOLT, DIRECT CURRENT—

1H8403—16 in. Each. **$28.00**

TOASTERS—HOT PLATES—CURLING IRONS

All items are for 110 volts alternating or direct current, unless otherwise stated

"LIBERTY" ELECTRIC HOT PLATE

1H5135—7¼ in. wide, 4 in. high, full nickel plated, 40 in. of cord heat-resistant, 6 in. of heavy black extension cord with 2 piece moulded attachment plug. 1 heating unit.

Each, **$1.45**

Lots of 6, " **1.40**
" 24, " **1.35**

An attractive colored easel card 14x22 in. packed with each order for 24 "Liberty" Hot Plates. Makes a stunning window or counter display.

"HOT, POINT" PERCOLATOR

1H6281—(Xfer. 10677), 6 cup nickel pot type, 11 in. overall polished, highly polished nickel plated, heat resisting glass knob, spout, ebonized wood handle, vulcanite, safety switch, with 6 ft. cord and attachment plug. 1 in box, 3 lbs.

Each, **$12.25**
Lots of 3, " **11.25**

"HOT POINT" CURLING IRONS

1H6779—(Xfer. 11214). Length 11¼ in., diam. of rod ¼ in., nickel plated ebonized handle, shield open parallel to the rod, permitting it to be easily separated from the hair, curved extension plug, complete with 6 ft. 10 in. of cord clamp is removable so that it can be used on a wall rod. 1 in box. Each, **$4.25**

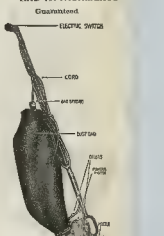
Lots of 3 " **4.21**

1H6776—(Xfer. 11217. With detachable aluminum comb. Otherwise as 1H6779. 3 in box

Each, **$5.08**
Lots of 3, " **4.70**

"RAYVAC" ELECTRIC VACUUM CLEANER AND ATTACHMENTS

Guaranteed



Vacuum Cleaner—Motor in cast aluminum case, 11 in. square with brush handle 45 inch in length, etc. dust bag attached to motor case and handle, easily removed and cleaned. Universal motor, 110 volts, 60 cycle A.C. or D.C. equipped handle, wrinkled brass 50 ft. of black electric cord and socket

1H6278—1 in heavy corrugated carton, 10 lbs.

Each, **$21.75**

Attachments for Above—Consists of 8 ft. of 1 in. green and black cloth covered vacuum hose, tool for upholstery, curtains, etc., another extension tube nozzle for curtain and mattresses, cloth brush, blower nozzle, oil can and blower connector 8 pcs. in set

1H6274—1 set in heavy corrugated carton

SET (8 pcs.), **$7.25**

"HOLD-HEET" TOASTER STOVE

1H5113—1 heat radiator, made of closely coiled wire, nickel finished, completely nickel plated toaster 2 slices of bread at one time. complete with cord and plug. 1 in box, weight 1½ lbs.

Each, **$1.37**
Lots of 6, " **1.30**

"HOLD-HEET" TOASTER

1H5114—11 in. by 5 in. highly polished nickel plated, universal, tilt turns the toast, takes two large slices, no crumbs or wires to get out of order with 6 ft. cord, in box.

Each, **$4.00**
Lots of 6, Each, **3.60**

"Hold-Heet" Electric Hot Plate

Guaranteed 2 years. The price is low for a hot plate of this excellent quality

1H5118—3 heats, 10x13½x4½ in., burner 8½ in. in diameter, three independent heating elements controlled by trigger switch, makes seven heating combinations possible, gives more heat than the ordinary disk stove or grill. Black japanned finish. Complete with 6 ft. of cord, each in box, 6 lbs.

Each, **$9.33**
Lots of 3, " **8.87**

ELECTRIC FANS

STATIONARY, OSCILLATING AND CEILING FANS

It should be worth a lot to any merchant to know that he can get the standard, best known electric fans right out of our stock without delay and at the lowest prices he can find anywhere.

"POLAR CUB" ELECTRIC FANS—Stationary Type

Model "C," stationary for 110 volt, 25 to 60 cycle, alternating or direct current, 4 blade, 8 in. diam. and improved solid bronze blades drawn steel motor shell with polished bronze bearings, cast iron base, motor claw, base and guard finished in black enamel, blades adjustable to any angle, 6 ft. of cord and plug.

1H8981—6 in. height over all 9 in., retails at $5.00. 1 in box, 5 lbs.

Each, **$2.75**
Lots of 12, " **2.50**

1H8806—6 in. height over all 10 in., Retails at $7.50. 1 in box, 4 lbs.

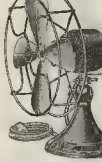
Each, **$5.60**
Lots of 12, " **6.25**

"STAR" ELECTRIC FAN

1H7680—8 in., 2 cycle all 25% in., 3 speeds, 100 to 120 volt, alternating or direct current, four blades nickel plated and polished with black enamel finish, 6 ft. rubber insulated power cord, ring grease cups with spring operating felt within an either end of axle bush to fit bakelite, Lucy or Westinghouse motors. Ready to be easy assembled, one year guaranteed, covered wire with 3 piece plug. Guaranteed for 1 yr. Retails for $10.00. 1 in box, 7 lbs.

Each, **$7.50**
Lots of 3, " **7.00**

"NORTHWIND" ELECTRIC FANS



4 blades, universal motor, 110 volts, alternating or direct current, starting switch in base, full swivel movement, ball bearings throughout, 6 ft. cord, complete with cord. 1 in carton.

STATIONARY TYPE—

1H17706—8 in., 2 speeds, 6 ft. cord

Each, **$6.20**
Lots of 12, " **6.00**

OSCILLATING TYPE—

1H6214—10 in., 3 speed, 6 ft. cord

Each, **$14.24**
Lots of 12, " **13.68**

"R & M" STANDARD DESIGN ELECTRIC FANS

Made by Robbins & Myers.

Stationary Type

Draws steel frame, light weight wire guard, 4 polished bronze blades, 6 ft. cord and plug. 1 in box.

110 VOLT DIRECT CURRENT

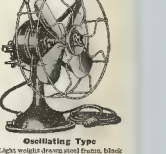
1H3412—16 in. Each, **$21.60**

110 VOLT, ALTERNATING OR DIRECT CURRENT—

1H3422—8 in. Each, **$14.40**

110 VOLT ALTERNATING CURRENT—

1H3413—12 in. Each, **$18.80**
1H3414—16 " " **21.60**



Oscillating Type

Light weight drawn steel frame, black japanned and stripped, brass bushings, mechanical gear oscillator, base covered with felt pad, hinged joint for attaching to wall while fabric brass which prevents fan from falling. 6 ft. cord and plug all with 3 speed motion otherwise as stated. 1 in box.

110 VOLT, ALTERNATING OR DIRECT CURRENT—

1H4104—9 in. Each, **$17.80**

110 VOLT, DIRECT CURRENT—

1H3483—16 in. Each, **$28.00**

110 VOLT, ALTERNATING CURRENT

1H3484—12 in Each **$24.00**
1H3485—18 " " **28.00**

WOOD BLADE CEILING FAN

Made by Robbins & Myers

1H4235—56 in., 4 blades, 3 speeds, plain type, black enamel finish, 110 volts, 60 cycle alternating current, with ceiling canopy, threaded hanger and hook, without hanger rod, ordinary ¾ in standard pipe can be used for hanger rod. 1 in carton, 105 lbs.

Each, **$47.60**

RUBBER STAIR TREADS

⅜ in. thick, block center design, corrugated rim, strong and durable.

1 doz. in pkg.

2H4822—6x18
2H4823—9x18

Doz. **$9.87**
" **1.35**

BIRD CAGE ASSORTMENTS

The three- and four-cage assortments of the ever popular Hendryx make, are selected with the view of satisfying all demands for variety, style and size. Feed cups, perches and swings are included. We do not break assortments.

HENDRYX

Plain White
9¼x6¾x15½

Fancy Enameled
10½x7x16

Fancy Enamel
Oval Top
11x7⅛x16⅝

Fancy Enamel
Ring Top
12¾x8¼x16

NO.	Wt.	ASSORTMENT
100	20 lb.	$21.00

All Brass
Crimped
10¾x7⅞x14

All Brass
9⅝x6¾x11½

Tinned—Guard
Brass Base
10½x7½x13⅛

NO.	Wt.	ASSORTMENT
200	15 lb.	$23.00

HENDRYX

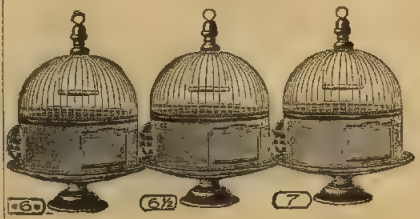
Tinned Body, Brass Base
9⅝x6¼x12½

Tinned Body, Brass Base
13x8¼x14½

Tinned Body
Brass Base and Guard
10¼x7⅛x13¼

Tinned Body
Brass Base and Guard
10½x7⅞x13⅜

NO.	Wt.	ASSORTMENT
300	20 lb.	$25.00



10x16¾ Ivory

11x17⅛ White

12x18 Ivory

Fancy Half Globe

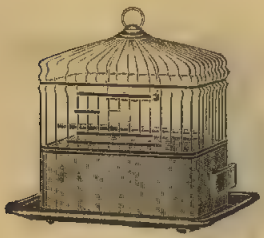
NO.	Wt.	ASSORTMENT
400	15 lb.	$27.50

BIRD CAGE ASSORTMENTS

HENDRYX

Tinned, Guard Brass Base
13x8½x14¾

All Brass, Guard, Drawer
10¾x8¾x15

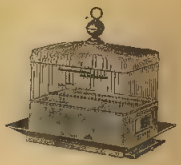


All Brass—Guard
10¼x7⅞x12¼

NO.	Wt.	ASSORTMENT
500	15 lb.	$31 00

HENDRYX

White and Bronze
9⅝x6¾x15½



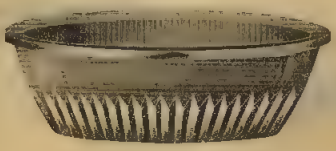
White and Guard
10¼x7¼x13¾

Enameled and Guard
12¼x8¼x17⅞

Plain White
13x8¾x18

NO.	Wt.	ASSORTMENT
600	20 lb	$35.00

BIRD BATHS



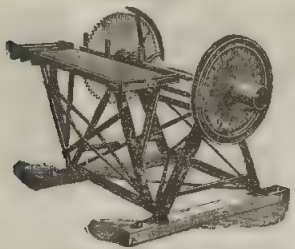
Oval Pressed Glass.

NO.	Size	Wt. Doz.	DOZEN
110-C	5x3½ in.	8 lb	$3.50
110-O	5x3½ in.	8 lb.	4.50

D 2

WOOD SAWING MACHINES

APPLETON



Steel Frame with Tilting Table.

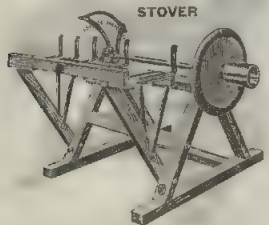
Frame is of angle steel, strongly bolted and firmly braced. The saw arbor is a piece of lathe turned steel 4 ft. 4 in. long and 1½ inches diameter. It is turned down to 1⅝ inches for the saw blade, and to 1⅞ inches for the balance wheel, pulley and boxes. Boxes are of ball and socket type, well babbitted, dust proof, non-heating and self-adjusting. The tilting table has a roller at one end to accomodate long poles. Interchangeable balance wheel and pulley. Frame is equipped with a saw guard.

Frame is arranged to receive the blade to the left of the operator, but if so ordered it can be arranged without extra charge to receive the blade to the right of the operator.

No. 1—Without blade; takes blades from 20 to 30 inches diameter; pulley 5x6 inches; speed 1000 to 1500 R. P. M.; power required to operate 2 H. P. gasoline engine or electric motor; distance between balance wheel and blade 3 ft. 6 inches ..... Each ✦$90 00

Shipping weight each 265 lbs.

STOVER



Wood Frame with Tilting Table.

Frame is well seasoned hardwood of ample size and weight to insure great strength, mortised, bolted and firmly braced. The saw arbor is a piece of lathe turned steel, 4 ft. 4 in. long and 1½ inches diameter. It is turned down to 1⅝ inches for the saw blade, and to 1⅞ inches for the balance wheel, pulley and boxes. Boxes are of the ball and socket type, well babbitted, dust proof, non-heating and self-adjusting. The tilting table has a roller at one end to accomodate long poles. Interchangeable balance wheel and pulley. Frame equipped with a saw guard.

Frame is arranged to receive the blade to the left of the operator, but if so ordered it can be arranged without extra charge to receive the blade to the right of the operator.

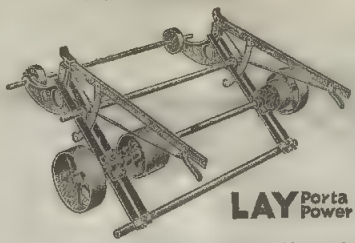
No. 2—Without blade; takes blades from 20 to 30 inches diameter; pulley 6x6 inches; speed 1000 to 1500 R. P. M.; power required to operate 2 H. P. gasoline engine or electric motor; distance between balance wheel and blade 3 ft. 6 inches ..... Each ✦$69 00

Shipping weight 874 lbs.

Note—For circular saw blades see Dept. 1.

✦F. O. B. Illinois Factory Only.

LAY PORTA POWER



A wonderful new farm implement which quickly transforms practically any make of automobile into a portable power plant.

It is universally adapted to operation in connection with practically any small size car. However, with the Ford car, in connection with which it is most commonly used, from six to seven Horse Power at the belt is about the maximum that should be developed.

With Lay Porta power attached to the car such machinery as the wood saw, grinding mill, hay press, pump, corn sheller, etc. can be successfully operated.

(Fig. 1)

After the car is backed into suitable position, the Lay Porta Power is pushed beneath the rear of car as shown in the accompanying illustration (Fig. 1), one foot resting on the base.

The hand clasps control the quadrant, are pressed in, and the handles pushed down. This jacks the car up and pulls it back until tires make contact with rollers. It is locked in this position (See Fig. 2).

(Fig. 2)

(Fig. 3)

Rear of car is now off the ground, the axle resting securely in the pockets on the end of each handle of the Lay Porta Power (See Fig. 3). Everything is firmly held in place, and the outfit now ready for belt application.

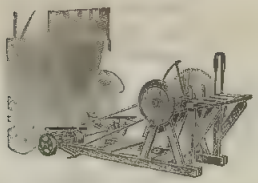
Each

No. LP100—Size pulleys 6x4 and 10x6 inches ..... ✦$79 50

Shipping weight each 180 lbs.

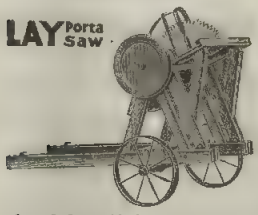
✦F. O. B. Indiana Factory Only.

LAY PORTA POWER ATTACHMENTS



The above illustration shows how attachments are used with the Lay Porta Power. The operation is extremely simple and requires but very little time to connect.

LAY PORTA SAWS



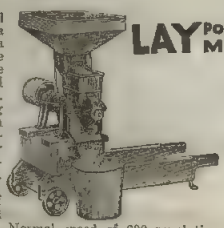
A well made and thoroughly inspected saw, furnished with 26 inch blade and 10 inch pulley.

Furnished complete with necessary belting.

	Each
No. PS10—Truck type, with wheels	✦$135 00
No. PS12—Stationary type, without wheels	✦ 105 75

Crated; shipping weight each 285 lbs.

LAY PORTA MILLS



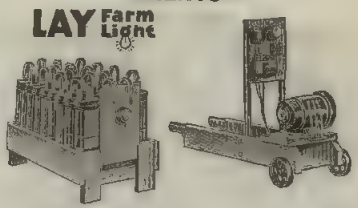
Especially designed to run with Lay Porta Power. The Porta truck means that the implement can be moved with ease, and is instantly attachable. Duplex type, having two sets of 6 inch burrs. Burrs designed with genuine shear cut construction giving greater capacity. Grain ground is uniform quality, hulls of oats chopped instead of remaining whole. Normal speed of 600 revolutions per minute. Furnished complete with necessary belting.

	Each
No. PM20—Capacity 20 to 25 bushels of ground grain per hour; 10 inch pulley	✦$90 00

Shipping weight each 275 lbs.

✦F. O. B. Indiana Factory Only.

LAY PORTA POWER ATTACHMENTS



Designed to be driven by Lay Porta Power, although it may be driven by an ordinary gasoline engine if desired.

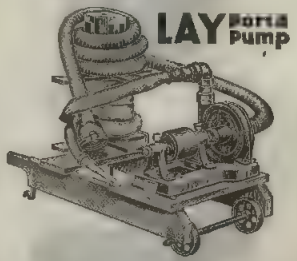
Lay Farm Light consists of a battery composed of sixteen cells of the highest type of storage batteries, made in glass jars, all mounted and assembled in a wooden battery box, together with a volt meter and a set of main terminals, connected to the generator unit.

The generator unit consists of the generator, a switchboard on which is mounted an automatic reverse current relay, an ammeter, fuse and instruction card, all assembled on the convenient Lay Truck so that it can be wheeled about.

Furnished complete with necessary belting. Each

No. FL5 -Designed to give ample current to light a large house, barns and operating various electrical devices. Batteries in a fully charged condition have a capacity of 3600 watt hours. This means that it would operate a 20 watt lamp 180 hours; 2 lamps 90 hours or 8 lamps for 20 hours; 12 inch pulley ✦$641 65

Shipping weight each 705 lbs.



Designed to be operated by Lay Porta Power. It may however be run by an ordinary gasoline engine.

Centrifugal type, for use in irrigating, fire protection and general water supply. Will elevate water in a pipe to a height of 60 feet, or will throw a stream of water from a hose over the top of any barn or farm building. Mounted on a two wheel truck so it can be wheeled around the farm or hitched to the rear of the car and hauled any distance. This is not a deep well pump, and is intended for use only where a large supply of water is available, and the suction or distance from pump to water does not exceed 16 to 18 feet.

Each outfit is equipped with a hose reel, which takes care of both suction and discharge hose. Hose not furnished with pump. Size hose used with this outfit, 2 inch suction, 1½ inch discharge, all connections are iron pipe thread. Always use foot valve or strainer on end of suction hose. Each

No. PP15—Capacity 75 to 80 gallon per minute. Furnished with belt ✦$146 25

Shipping weight 150 lbs.

✦F. O. B. Indiana Factory Only.

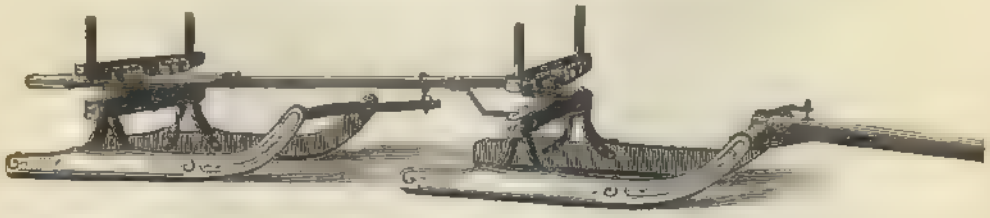
BOB SLEDS

McLAREN SLEDS

The popular McLaren Sled built of selected stock, well ironed.

McLaren; 38 in. track 2x6 in. x6 ft. runners, wgt. 420 lbs. ..... Each $
McLaren; 38 in. track 2x6 in. x7 ft. runners; wgt. 480 lbs. ..... Each
McLaren; 54 in. track 2x6 in. x6 ft. runners; wgt. 525 lbs. ..... Each
McLaren; 54 in track 2x6 in. x7 ft. runners; wgt. 550 lbs. ..... Each

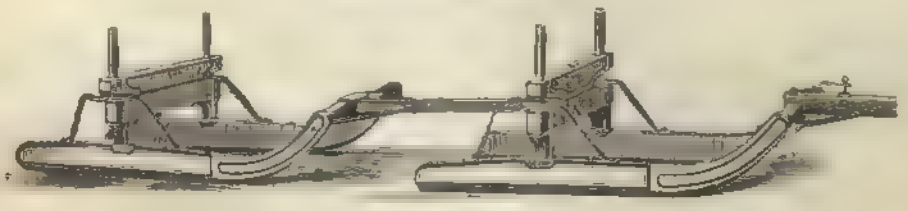
CURVED STEEL KNEE OSCILLATOR



Built with Mandt pattern steel knee, long and short reach combination provides easy means of adjusting length to meet all conditions; well ironed and painted.

Oscillator; lgt. of runners 5 ft., width 2 in., 38 in. track; wgt. about 375 lbs. ..... Each $
Oscillator; lgt. of runners 6 ft.; width 2 in., 38 in. track; wgt. about 425 lbs. ..... Each
Oscillator; lgt. of runners 5 ft.; width 2 in.; 54 in. track; wgt. about 400 lbs. ..... Each
Oscillator; lgt. of runner 6 ft.; width 2 in.; 54 in. track; wgt. about 450 lbs. ..... Each

IMPROVED MAINITE



With Roller Reach

Made of selected stock; heavily ironed off and well painted; roller reach.

Improved Mainite; lgth. of runners 6 ft.; width 2 in., 38 in. track; wgt. about 460 lbs. ..... Each $
Improved Mainite; lgt. of runners 7 ft.; width 2 in.; 38 in. track; wgt. about 470 lbs. ..... Each
Improved Mainite; lgth. of runners 6 ft.; width 2 in.; 54 in. track; wgt. about 480 lbs. ..... Each
Improved Mainite; lgt. of runners 7 ft.; width 2 in.; 54 in. track; wgt. about 550 lbs. ..... Each

PARTS FOR BOB SLEDS AND SLEIGH GEARS

BOB SLED TONGUES

Bob Sled Tongues; size 2x6x12 feet, finished ..... Each $7 50
Bob Sled Tongues; size 2x6x12 feet in the white ..... Each 6 00

MANDT STEEL KNEES

For Mandt Oscillating Bob Sled; made of wrought steel; set consists of four steel knees, four staples or hinges and four beam plates; weight 50 pounds..... Set $5.00

MANDT BOLSTER PLATES

For Mandt Oscillating Bob Sled; wrought steel; set consists of upper and lower plates and reach cap; lower plates has raised center; weight 10 pounds..... Set $3 00

CAST SLEIGH SHOES

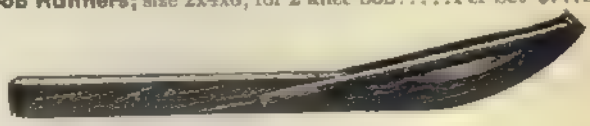
Size	For Style Bobs	Per Set
38-inch	2 Knee	$5 00
48-inch	5 ft. Mandt	5.25
54-inch	5 or 6 ft. Mandt	6 00
56-inch	6 ft. Mandt or Mainite	6 50
66-inch	7 ft. Mainite	7 00

FINISHED SLED ROLLERS

Track	38	54
Plain	$1.90	....
Grooved and mortised	2 80	....
Front, 4x6 Grooved and mortised	.....	$3.70
Hind, 4x5 Grooved and mortised	...	3.20
Front, 4x6 Grooved		3 30
Hind, 4x5 Grooved		2 80

BOB RUNNERS

High Bend
Selected hardwood; well seasoned
Bob Runners; size 2x4x6; for 2 knee bob..... Per Set $7.75



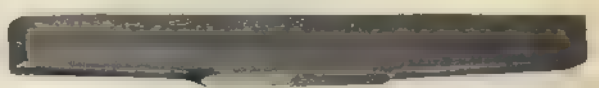
Regular Bend
Bob Runners; size 2x4x6; for 5 ft. Mandt .. Per Set $6 90
Bob Runners; size 2x5x6; for 6 ft. Mandt. Per Set 8.50

Camel Back
Bob Runners; size 2x6x7; for 7 ft. Mainite... Per Set $13 50

Ironed Runners

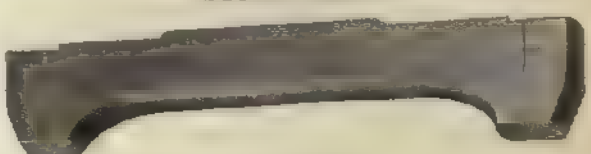
In white with shoes and nose irons.
Size 2x5x5 ft ..... Per Set $19 20
Size 2x6x6 ft ..... Per Set 21 60
Size 2x6x7 ft ..... Per Set 24 00

SLED BOLSTERS



		N. T.	W. T
3½-inch Front finished	Each	$2.40	$2 60
3½-inch Hind finished	Each	2.60	2 80
3½x4½x48-inch Rough	Each	1.56	1 70
4x5x48-inch Rough	Each	1.96	2 10

BLOCK BEAMS



Mainite

Track, inches	38	54
4x8 Finished	$5.00	$6 25
4x9 Finished	5 50	6 90
5x8 Finished	6.30	7.90
5x9 Finished	6.80	8 50

The "PRO" Golf Ball

Unequaled for Distance and Steadiness

This is an American made ball and the best ball that money can buy. It is made especially for us under exclusive patents and by one of the oldest golf ball makers in the country. **OLD** in quality and performance. Put up in a handsomely labeled sealed box.
No. 30—1.62 ozs. or 29½ pennyweight, size 1.65 in., w't per doz. 2 lbs. ....per dozen **$17.00**

ONE DOZEN IN A BOX

REACH

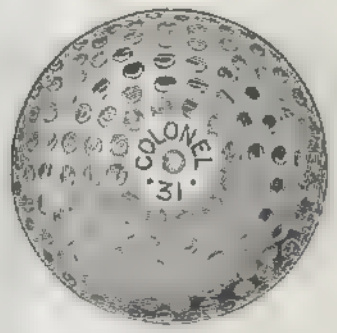
PARAMOUNT A

No. 1431—Sinker, medium size, alternating triangular markings, an extreme distance ball, size 1.665 in., w't each 1.62 oz. ..per dozen **$14.00**

ONE DOZEN IN A BOX

Our Very Best is the Very Best.

ST. MUNGO



COLONEL

No. 1331—Small sinker, w't 31 pwt., per dozen **$17.50**

ONE IN A BOX

NEW COLONEL 1.62

No. 162C—Sinker, meets all the requirements of the U. S. Golf Assoc., medium size, w't 1.62 ozs., or 29½ pwt. .....per dozen **$13.00**

ONE IN A BOX

DUNLOP GOLF BALLS

Unexcelled for distance, accuracy and long life. The center is made of moulded rubber. It is not forced into spherical shape and hence has no tendency to become distorted. The center of gravity stays at the ball center and the ball holds its shape. These balls keep their paint and accuracy under the hardest service.

NEW DUNLOP 162

No. 162D—Sinker, meets all the requirements of the U. S. Golf Assoc., medium size, w't 1.62 ozs., or 29½ pwt. .....per dozen **$17.50**

CADDY BAGS

No. 2—Sunday 4½x34 in., 12 oz. army olive drab duck, double leather bottom, double canvas strap w't 1 lb., per dozen $33.60

No. 105—Sunday, 5x35 in. brown canvas, trimmed with leather, cupped leather bottom, no stays, no handle, web sling strap, w't 2 lb., per dozen $59.20

No. 801—4½x35 in., three steel staves, leatherette covered, brown canvas, leather shoulder strap and handle, cup bottom, ball pocket, full length bag, w't 1¾ lbs. .....per dozen $69.70

No. 207—5x35 in., white leatherette trimmed throughout, leather shoulder strap and handle, leather top and bottom, two steel stays, special cupped bottom, w't 2¼ lb., per dozen ...$132.00

No. 817—5x35 in., heavy brown canvas, three steel stays leather covered, leather shoulder strap and ring handle, cup bottom ball pocket, w't 1½ lbs., per dozen $91.20

No. 800—4½x33 in., **plaid,** three leather covered stays, leather top and bottom, leather sling and handle, w't 1½ lbs. .....per dozen $152.10

An elegant bag for a lady.

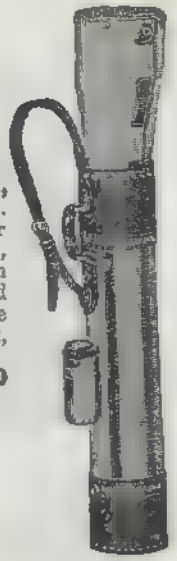
No. 803—4½x33 in., three stays, brown canvas covered, canvas sling strap and leather handle, w't 1¾ lbs., per dozen $89.20

No. 821—4½x33 in., brown, three steel stays, leather trimmings, cupped bottom, leather strap and handle, w't 1¾ lbs. .....per dozen $103.10

CADDY BAGS

No. 892—6x35 in., extra heavy canvas, brown, four steel stays, leather trimmed, bag fitted with hood padlock and key, w't 2¾ lbs., per dozen ..$153.40

No. 858—6x35 in., brown, extra heavy canvas, heavy leather trimmed, four steel stays, split hood and padlock, bag laced throughout with rawhide, umbrella holder on side, especially well made of the finest material obtainable, w't 3¾ lbs., per dozen ..$250.80

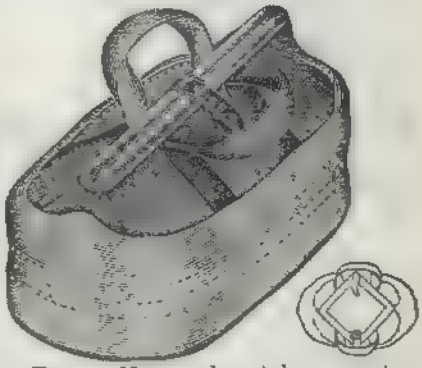


No. 1892—6x35 in., **brown duck,** 10 in. band of black leather on top and bottom, umbrella holder on side, rawhide laced throughout, five stays hood and lock, w't 4½ lbs., per dozen ..$345.60

The classiest all-around caddy bag made—serviceable and attractive.

No. 1140—5x35 in., with split hood with good lock and key, **brown duck,** trimmed with high grade black leather, 4 steel stays leather covered, 2 in. reinforced black leather bottom, leather top, high grade leather sling and handle, ball pocket .....per dozen $142.10

BOOTY BAGS



For golfers who take sweaters shoes, etc., from their homes or offices to the clubs. Well made, heavy board bottom, covered, strap and buckle to close, 2 strong handles. Also used by campers and automobilists. Size 17½ x9½ in. at bottom, w't each 2 lbs., 5 oz.

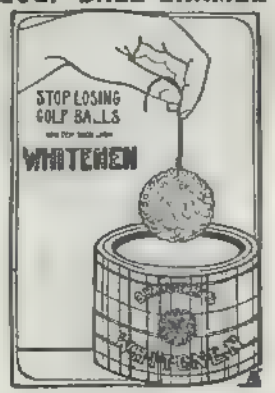
No. 1—Corduroy .....each $9.00
No. 3—Khaki Duck .....each 7.50
No. 4—White .....each 7.50

GOLF CLUB THREAD

This is a black waxed linen thread, put up on one pound tubes, made expressly for golf club grips and shafts, and is indispensable in making re-

No. 9B—Per pound $9.00

GOLF BALL ENAMEL



Elastic and quick drying. Will not chip off. Makes an old golf ball look like new and aids greatly in finding "lost" balls. A great money saver.

No. 25—Capacity ½ pt., w't per doz. cans, 6 lbs. .....per dozen $7.20

ONE DOZEN CANS IN A CASE

GOLF CALKS

No. 1Q—½ in. screw, ½ in. head, per box $0.80

FIFTY IN A BOX

U. S. GOLF BALLS

"They play well—they wear well." These golf balls are certified as complying with the limitations established by the United States Golf Association.

Standard and Official. Not only is the Royal 30-X the longest driving ball but it has a tough and durable cover and the paint is practically indestructible.

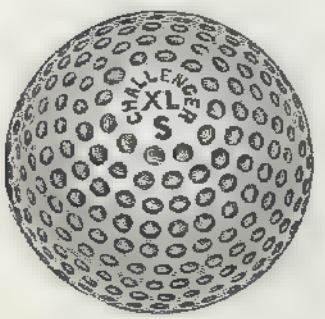
No. 30X—U. S. Royal, sinker, recessed marking, size 1.62 inches in diameter, w't 1.62 avoirdupois oz., per dozen $12.50

No. 20—U. S. Revere, sinker, recessed marking, size 1.62 inches in diameter, w't 1.62 avoirdupois oz., per dozen $11.40

No. 27—U. S. Floater, recessed marking, size 1.70 inches in diameter, w't 1.44 avoirdupois oz., per dozen $10.00

ALL ABOVE ARE ONE DOZEN IN A BOX

GOLF BALLS



CHALLANGER

Internationally reconized as one of the best yet produced scientifically constructed with the weight so distributed as to insure a long carry and easy control. An extremely durable ball. Furnished in Dimple markings.

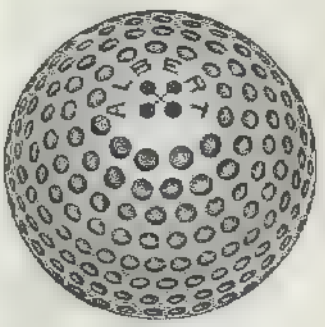
No. 12—Sinker, made to conform to standard specifications, size 1.62 in. in diam., w't 1.75 avoirdupois oz., per dozen $13.20

REX

A durable and generally satisfactory ball for those not caring for the higher powered balls. Furnished in Dimple marking only.

No. 11—Sinker, made to conform to standard specifications, size 1.62 in. in diam., w't 1.75 avoirdupois oz., per dozen $11.00

ABOVE. ONE DOZEN IN A BOX



ALBERT

This we believe to be the best so called "cheap ball'" on the market on account of its durability and wearing qualities. Particularly desirable for the less experienced player, who wants accuracy and durability rather than extreme distance. Furnished in Dimple marking only.

No. 10—Sinker, made to conform to standard specifications, size 1.62 in. in diam. w't 1.75 avoirdupois oz., per dozen $9.00

ONE DOZEN IN A BOX

MINE TROLLEY MATERIAL

+TYPE H HANGERS

Attached to Mine Timber by ½ in. Lag Screws; Dimensions given are diameter at bottom of Shell and Height Over-all, except Projecting Stud; Malleable Iron, Sheardized, ⅝ in. Stud.

Nos.	F1428A3	F1428A5	F1428A7	F1428A9
Fac. Nos.	9959	10603	11533	13175
Type	H1	H2	H3	H4
Diam. In.	3⅝	3¾	3⅞	2⅛
Hgt., In.	1⅝	1½	1⅝	1⅝
Each	*$1.25*	*1.10*	*.95*	*.85*

+TYPE K HANGERS

Attached directly to Roof by Expansion Bolt or similar means; Dimensions given are diameter at bottom of Shell and Height Over-all, except Projecting Stud, Malleable Iron, Sheardized, ⅝ in. Stud.

Nos	F1428B2	F1428B4	F1428B6	F1428B8
Fac. Nos.	9975	10620	11554	13175
Type	K1	K2	K3	K4
Diam. In.	3⅝	3¼	3½	2⅞
Hgt., In.	1⅝	1¼	1⅜	1¼
Each	*$1.25*	*1.10*	*.95*	*.85*

+UNIVERSAL HANGERS

Can be installed on Timber with Hanger Screw or directly to Roof with Expansion Bolt; Dimensions given are diameter bottom of Shell and Height Over-all, except Projecting Stud; Malleable Iron, Sherardized; ⅝ in. Stud.

Nos.	F1428C2	F1428C4	F1428C6
Factory Nos.	11809	11907	13174
Diam., In.	3⅝	3½	2⅝
Height, In.	3	2⅛	1⅛
Each	*$1.25*	*1.10*	*.95*

TYPE SK HANGERS

Upper and lower parts are connected by Ball and Socket Joints; This allows insulated part to rotate to align clamp or twist to bring wire straight in spite of irregularities in Roof or Timber; Three Set Screws make Hanger rigid; Malleable Iron, Sherardized, ⅝ in. Stud; Wrenches furnished with order.

Each

+No. F1428D—(12982SK) For Roof....*$1 25*

TYPE SH HANGERS

Upper and lower parts are connected by Ball and Socket Joints; This allows insulated part to rotate to align clamp or twist to bring wire straight in spite of irregularities in Roof or Timber; Three Set Screws make Hanger rigid; Malleable Iron, Sherardized, ⅝ in. Stud; Wrenches furnished with order

Each

+No. F1428D4—(132165H) For Timber.*$1.25*

STANDARD HANGERS

Attached to Roof Timber with ⅛ in. Lag Screw; Consists of Sherardized Malleable Iron Shell into which is screwed a Derigo Insulator with ⅝ in. Stud mounted on it; Insulator is renewable.

Each

+No. F1428E—(1030) Hanger Complete.*$1 35*

+No. F1428E4—(8675) Derigo Insulator Only .....*.75*

TYPE P HANGERS

Used in Low Vein Mines and lagged to side of Timber

Each

+No. F1428F—(11032) Malleable Iron, Sherardized, ⅝ in Stud.....*$1.15*

+I BEAM CLAMPS

For attaching Mine Timber Hangers to Steel I Beams; Quick to install

Nos.	F1428H	F1428H4
Factory Nos.	11236	10980
For I Beam Flange, In.	3–4½	4–6½
Each	*$0.53*	*.77*

+EXPANSION BOLTS

For attaching Type K, SK and Universal Hangers direct to Roof; Malleable Iron Shell, Sherardized; ¾ in. Diam.; ⅝ in. Stud.

Nos.	F1428J	F1428J4
Factory Nos.	10072	10073
Length Shell, In.	4	6
Each	*$0.42*	*.55*

MANSFIELD TROLLEY CLAMPS

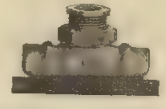
Always tight against Hanger when aligned with wire; Malleable Iron, Sherardized, ⅝ in. Boss; Wrench furnished with order.

Each

+No. F1428K —(13507) 0 and ⅜ Round Gauge Wire.....*$0.65*

+No. F1428K4—(13508) ⅜ and ½ Round Gauge Wire. .....*.66*

+No. F1428K8—(13509) ½ and ⅛ Gauge Wire, Fig 8 and Grooved.....*.66*



BULLDOG CLAMPS

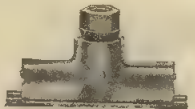
Jaws for Round Wire, Bronze; ⅝ in. Boss; Malleable Iron, Sherardized; Wrench furnished with order.

Each

+No. F1428L —(10344) For 0 and 00 Round Wire.....*$0.32*

+No. F1428L4—(10345) For ⅜ and ½ Round Wire.....*.34*

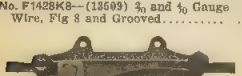
+No. F1428L8—(10340) For 0 and ⅛ Wire, 8 and Grooved.....*.62½*



TYPE MW CLAMPS

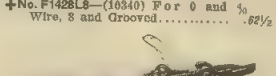
Wrench furnished with order; Bronze Clamps for any size can be furnished with the Feeder Wire Lug.

	Bronze	Each
+No. F1428M	—(10422) For 0 and ⅜ Round Wire..	*$1 04*
+No F1428M2—	(10423) For ⅜ and ½ Round Wire ..	*1 22*
+No. F1428M4—	(10424) For 0 and ½ Wire, Figure 8	*1 22*
+No. F1428M6—	(10425) For 0 and ⅜ Grooved Wire	*1.22*
	Malleable Iron	**Each**
+No. F1428N	—(10426) For 0 and ½ Wire, Figure 8	*$0.62½*
+No. F1428N4—	(10427) For ⅜ and ½ Grooved Wire	*.62½*



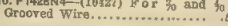
TYPE A FROGS

Bronze; 20, 15 and 8 Degree Angles; Left Hand, Right Hand and V; For all Sizes and Styles of Wire. Also made Three Way, 15 Degree Angle. Always specify Angle, Direction of Turn-out and Size and Style of Wire.



TYPE D FROGS

Made in 20, 15 and 8 Degrees; Left Hand, Right Hand and V; For all Sizes and Styles of Wire; Malleable Iron, Sherardized, except Tips, which are of long wearing Bronze. Specify Angle, Direction of Turn-out and Size and Style of Wire.



TYPE KI SPLICERS

Length 10 in.

No solder necessary; Tension on wire keeps Dog tight; Made for all Sizes of Round and Grooved, Fig. 8 Wires. In ordering, pecify Size and Style of Wire.

+Entire Page for Factory Shipment Only; F. O. B. Springfield, Ohio

MINE TROLLEY MATERIAL

Type M1, Bottom View

Type M2, Bottom View

SECTION INSULATOR SWITCHES

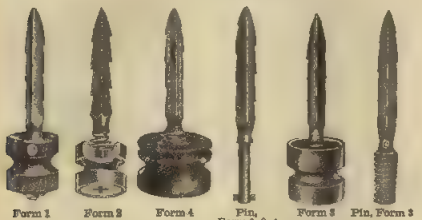
Used where it is desirable to keep current in a section only when locomotive is operating there. Opened when leaving section, closed when entering without driver leaving his seat. Fibre Flange and Composition Handle protect operator. Bronzed End Castings; Malleable Iron Center, Sherardized; Copper Switch Blades; Hickory Beam, Painted with Acidproof Paint.

250 Volt

Type M1 Nos.	Type M2 Nos.	For Wire	Each
F-L11631	F-L13450	3/0 Round and Grooved	$17.20
F-L11630	F-L13451	4/0 Round and Grooved	17.20
F-L11632	F-L13452	2/0, Fig. 8 Wire	17.20
F-L11633	F-L13453	4/0, Fig. 8 Wire	17.20

750 Volts

F-L13115	.....	3/0 Round and Grooved	$18.50
F-L13116	.....	4/0 Round and Grooved	18.50
F-L13117	.....	2/0, Fig. 8 Wire	18.50
F-L13118	.....	4/0, Fig. 8 Wire	19.50



Form 1 Form 2 Form 4 Pin, Form 1, 2, 4 Form 3 Pin, Form 3

MINE FEEDER WIRE INSULATORS

Used for supporting and insulating Feeder Wire in mines. Consists of Barbed Pin of Sherardized, Malleable Iron, and a Porcelain Spool. Pin of Forms 1, 2 and 4 lock in recess. Forms 2 and 3 have Spring to lock when used in horizontal position. Pin of Form 3 screws in Spool Wire Groove, 3/4 in. Diam.

Nos.	F1429F	F1429F2	F1429F4	F1429F6
Factory Nos	(3207)	(8737)	(13110)	(11002)
Form Complete	1	2	4	3
Each	$0.26	.27	.42	.33½

TYPE CM TROLLEY WIRE SPLICERS

Made of high strength, long wearing Bronze; With Patented Lily Approach which provides a smooth, straight under-run; Length 11 in.

Each

No. F1429C —(13423) For 0 and 2/0 Round and Grooved Wire..$2.30
No. F1429C2—(13424) For 4/0 Round and Grooved Wire..... 2.60
No. F1429C4—(13425) For 2/0 Fig. 8 Wire..... 2.60
No. F1429C8—(13426) For 4/0 Fig. 8 Wire..... 2.60

CLARK SPLICING EARS

Length 15 in.

Each

No. F1429D —(12606) For 0 to 2/0 Round and Grooved Wire; 5/8 in. Boss..... $2.75
No. F1429D4—(12608) For 3/0 Round and Grooved Wire; 5/8 in Boss..... 2.85
No. F1429D8 (12610) For 4/0 Round and Grooved Wire; 5/8 in Boss..... 3 00

CLARK SPLICING EARS

Length 10 in.

Each

No. F1429E (11886) For 0 and 2/0 Round and Grooved Wire...$1.70
No. F1429E4—(11887) For 3/0 Round and Grooved Wire..... 1.80
No. F1429E8—(11888) For 4/0 Round and Grooved Wire..... 2 00

Wheel

Harp

WHEELS AND HARPS

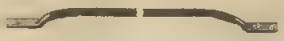
Extra high quality Bronze; Reservoir filled with selected Grease; Graphite Bushing; Harp swings freely around curves and along uneven wire.

Each

No. F1429H—(11017) 4 in. Wheel, 1/2 in. Axle (Nominal, Actual Diam 1¼ in.)..... $3.20
No. F1429H2—(11813) Graphite Bushing; 7/8x1 and 1/2x1½ in.... 35
No. F1429H4—(11161) Harp; Malleable Iron, Sherardized.... 5.40
No. F1429H6—(11162) Harp; Bronze, Malleable Iron Pole Casting..... 8.75

SELF-FEEDING MINE DRILLS

For drilling holes for Mine Hangers or for Blasting; Anchored against any solid place by changing movable Brace. Automatic Feed at two speeds. Form 1 makes 14 revolution to inch, and Form 2, 18 revolutions; Minimum Height 51½ in.



Each

No. F1429J—(Factory Type AW2) Base of Rail made in 3/0 and 4/0 Capacity; Various Lengths.....$. ..

ARC WELD BONDS

Steel Sleeve permanently United; Weld built up in 90 Degree Angle

Nos.	F1429K	F1429K2
Fact. Nos.	(13667)	(13668)
Type	AW3	AW3
Length, In	7	7
Capacity	2/0	4/0
Each	$0.50	.59

WELDING ROD

Per Cwt.

No. F1429L—(13549) Iron $38.00

Note—Order about 25 Lbs. for Each 100 Bonds

RAIL BONDS

In ordering, give Type, Form, Length Center to Center of Terminals. If Terminal Holes are already drilled, give Location

Each

No. F1429M—(Type E1) Compressed Terminal, also made Pin Driven Terminal .....$....

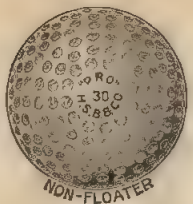
Each

No. F1429M4—(Type EP-2) Pin Driven Terminal, also made Compressed Terminal .....$....

Each

No. F1429M8— (Type F2) Compressed Terminal, also made Pin Driven Terminal .....$. ..

The "PRO" Golf Ball



Unequaled for Distance and Steadiness

This is an American made ball and the best ball that money can buy. It is made especially for us under exclusive patents and by one of the oldest golf ball makers in the country. OVB in quality and performance. Put up in a handsomely labeled sealed box.
No. 30—1.62 ozs. or 29½ pennyweight, size 1.65 in., w't per doz. 2 lbs. ....per dozen **$17.00**

ONE DOZEN IN A BOX

REACH

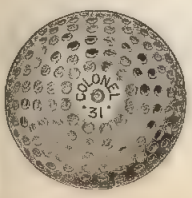
PARAMOUNT A

No. 1431—Sinker, medium size, alternating triangular markings, an extreme distance ball, size 1.665 in., w't each 1.62 oz. ..per dozen **$14.00**

ONE DOZEN IN A BOX

Our Very Best is the Very Best.

ST. MUNGO



COLONEL

No. 1331—Small sinker, w't 31 pwt., per dozen **$17.50**

ONE IN A BOX

NEW COLONEL 1.62

No. 162C—Sinker, meets all the requirements of the U. S. Golf Assoc., medium size, w't 1.62 ozs., or 29½ pwt. .....per dozen **$13.00**

ONE IN A BOX

DUNLOP GOLF BALLS

Unexcelled for distance, accuracy and long life. The center is made of moulded rubber. It is not forced into spherical shape and hence has no tendency to become distorted. The center of gravity stays at the ball center and the ball holds its shape. These balls keep their paint and accuracy under the hardest service.

NEW DUNLOP 162

No. 162D—Sinker, meets all the requirements of the U. S. Golf Assoc., medium size, w't 1.62 ozs., or 29½ pwt. .....per dozen **$17 5**

U. S. GOLF BALLS

"They play well—they wear well." These golf balls are certified as complying with the limitations established by the United States Golf Association.

Standard and Official. Not only is the Royal 30-X the longest driving ball but it has a tough and durable cover and the paint is practically indestructible.

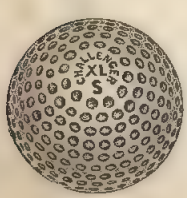
No. 30X—U. S. Royal, sinker, recessed marking, size 1.62 inches in diameter, w't 1.62 avoirdupois oz., per dozen $12.50

No. 20—U. S. Revere, sinker, recessed marking, size 1.62 inches in diameter, w't 1.62 avoirdupois oz., per dozen $11.40

No. 27—U. S. Floater, recessed marking, size 1.70 inches in diameter, w't 1.44 avoirdupois oz., per dozen $10.00

ALL ABOVE ARE ONE DOZEN IN A BOX

GOLF BALLS



CHALLANGER

Internationally reconized as one of the best yet produced scientifically constructed with the weight so distributed as to insure a long carry and easy control. An extremely durable ball. Furnished in Dimple markings.

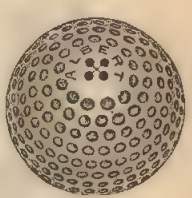
No. 12—Sinker, made to conform to standard specifications, size 1.62 in. in diam., w't 1.75 avoirdupois oz., per dozen $13.20

REX

A durable and generally satisfactory ball for those not caring for the higher powered balls. Furnished in Dimple marking only.

No. 11—Sinker, made to conform to standard specifications, size 1.62 in. in diam., w't 1.75 avoirdupois oz., per dozen $11.00

ABOVE. ONE DOZEN IN A BOX



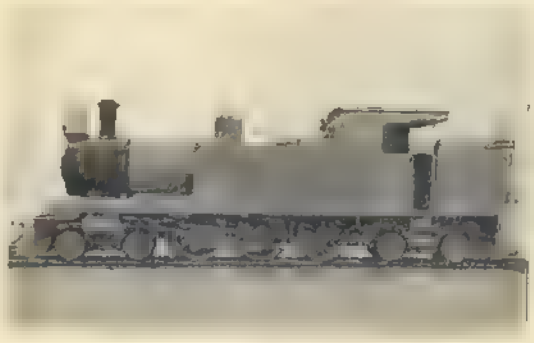
ALBERT

This we believe to be the best so called "cheap ball'" on the market on account of its durability and wearing qualities. Particularly desirable for the less experienced player, who wants accuracy and durability rather than extreme distance. Furnished in Dimple marking only.

No. 10—Sinker, made to conform to standard specifications, size 1.62 in. in diam. w't 1.75 avoirdupois oz., per dozen $9.00

ONE DOZEN IN A BOX

THE HUNSLET ENGINE CO., LTD.,
LEEDS, ENGLAND.



4-6-4 SIDE TANK LOCOMOTIVE (AC)
Locomotive avec Caisse à Eau Latérale
Locomotora con Depósito de Agua Lateral

2-6-4 SUPERHEATER TANK LOCOMOTIVE. (EF)
Locomotive avec Caisse à Eau Latérale
Locomotora con Depósito [illegible]

Builders of LOCOMOTIVES of ALL TYPES and GAUGES.

Constructeurs de Locomotives de tous Types et pour toutes Voies.

Constructores de Locomotoras de todos Modelos y Cualquier Ancho de Via.

All parts made to gauges and where possible standardised.

Toutes les Parties de nos Locomotives sont faites d'après des gabarits et quand c'est possible d'après un type

Todas las partes se [illegible] siempre que [illegible] posible

Designs, estimates and specifications on application.

[illegible]

[illegible]

4-6-0 LOCOMOTIVE WITH TENDER (B)
Locomotive avec Tender.
Locomotora-Tender

All materials used are made to British Standard Specifications unless otherwise ordered.

Tous les Matériaux employés dans nos Constructions sont conformes aux Spécifications Normales Britanniques.

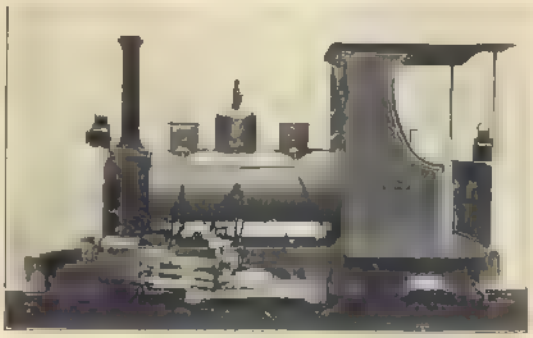
[illegible] forman á las Especificaciones inglesas de [illegible] contrario

THE HUNSLET ENGINE CO., LTD.,

Builders of LOCOMOTIVES for INDUSTRIAL PURPOSES, SUGAR PLANTATIONS, Etc.

Constructeurs de Locomotives pour toute Industrie, Plantations de canne à Sucre, etc.

Constructores de Locomotoras para fines industriales, Ingenios de azucar etc



0 4 0 FRAME TANK LOCOMOTIVE **OD**
Locomotive avec Caisse de Châssis à Eau
Locomotora con Depósito de Agua Sobre Bastidor.

0 6 4 SIDE TANK LOCOMOTIVE **UX**
Locomotive avec Caisse à Eau Latérale
Locomotora con Depósito de Agua Lateral

PATTERNS for over 50 GAUGES—from 1 ft. 6 ins. to 5 ft. 6 ins.

Nous avons en stock des gabarits pour plus de 50 Largeurs de Voie différentes, variant de 0m46 à 1m68

Modelos para más de 50 Anchos de via diferentes, de 0 m. 46 à 1 m. 68

Materials and Workmanship of the highest quality.

Matériaux de Première Qualité Main-d'œuvre Parfaite.

Materiales de Primera, y Excelente Mano de Obra

References given to users of engines at home and abroad

Nous adressons sur demande à MM les Références de la Liste des principaux Clients de la Grande-Bretagne et de l'Etranger

Referencias

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Locomotive avec Tender
Locomotora con Tender

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Codes: A.B.C. (5ème Edition) et Western. Códigos: A B.C. (5ta Edición) y Western

SEAMLESS STEEL BOAT CO., LTD.,

WAKEFIELD.

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No. 50 WAKEFIELD
Telegraphic Address
'BOAT, WAKEFIELD.'

Code
A.B.C (5th EDITION)

View of Boat Fitting Shop. *Vue de nos Ateliers de Montage de Bateaux.*

Sole Makers of Pressed Seamless Steel

LIFE BOATS, MOTOR BOATS, STEAM LAUNCHES, LIGHTERS.

Seuls Fabricants de Canots de Sauvetage, Bateaux Automobiles, Chaloupes à Vapeur, Chelands et Allèges, tous en Acier emboutie et sans Couture.

(NY

Seamless Steel Motor Launch—40' 0" × 8' 0" × 3' 9".
Speed 11 miles. Fitted with two 25 B.H.P. Paraffin Motors.

[illegible] *Vitesse:* 11 *Milles Marines*

CONTRACTORS TO THE CROWN AGENTS FOR THE COLONIES, INDIA OFFICE & FOREIGN GOVERNMENTS.

Fournisseurs des Ministères des Colonies, des Indes et des Gouvernements Étrangers.

SEAMLESS STEEL BOAT CO., LTD.,

WAKEFIELD.

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No 50 WAKEFIELD.
Telegraphic Address [illegible] Telegráfica
"BOAT, WAKEFIELD"

Code used: [illegible]
A.B.C (5th EDITION).

Cargo Boat 26' 0" x 7' 6" x 3' 3". To Carry 5 Tons on 2' 0" Draught.

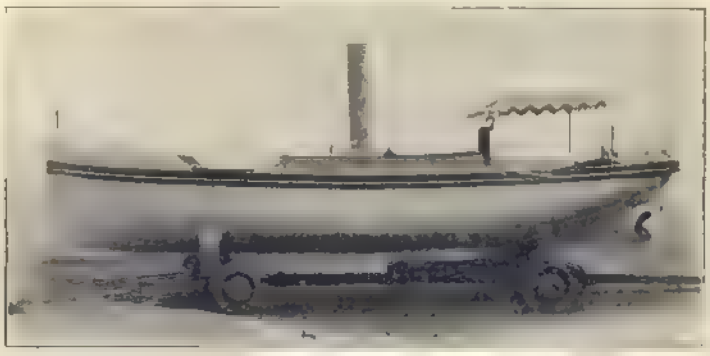
Bote de Carga. Dimensiones: 7,925 x 2,30 x 1 00 m. Capacidad: 5 toneladas con un calado de 0,60 m.

Sole Makers of Pressed Seamless Steel

LIFE BOATS, MOTOR BOATS,

STEAM LAUNCHES, LIGHTERS.

Unicos Fabricantes de Botes Salvavidas, Botes Automóviles, Lanchas a Vapor, Lanchones y Gangules, todos de Acero Embutido y sin Costura.



Seamless Steel Steam Launch fitted with 23 I.H.P. Engines and Boiler. (ZO)

Lancha á Vapor de Acero sin Costura, provista de Máquinas y Caldera de 23 Cab. Ind.

CONTRACTORS TO THE CROWN AGENTS FOR THE COLONIES, INDIA OFFICE& FOREIGN GOVERNMENTS.

Contratistas de los Ministerios de las Colonias, de las Indias y de los Gobiernos Extranjeros.

in the Hardware Field

powder mill explosion (4) The stove Abraham Lincoln used for "light housekeeping" during the Civil War. It is now in the building used as a summer residence by half a dozen Presidents. (5) Speedy winter sport in Kennett Square, Pa. Two sleds, fastened together with boards and bolts, are driven by motor power twenty miles an hour over ice and snow.

The Old and the New

(1) One of the oldest of hardware stores: the shop of Josue Van Baylvere, Rue de l'Academie, 23, Bruges, Belgium. (2) America's oldest department store, opened in 1680 on the main road from Duxbury to Marshfield, Mass. (3) The Sells-Atkins Company made this profitable billboard of the boarding over its show windows when the glass was blown out by a

Titans & Cantilever Cranes

(AG) (EF)

Grues Titan et Grue Cantilevers — Gruas de Tipos Titan y Cantilever

Fig. 1274

45 ton Titan at Fishguard Harbour.
Grue "Titan" de 45 tonnes au port de Fishguard
Grúa "Titan" de 45 toneladas en el Puerto de Fishguard

We make all kinds of Cranes and Plant for the construction of Harbours, Docks and Breakwaters, and have supplied the largest Block-setting Titans in the World.

Nous construisons tous genres de Grues et Installations pour la construction de ports, docks et jetées. Nous avons fourni les plus puissants "Titans" qui existent au Monde.

Construimos toda clase de grúas e instalaciones para la construcción de puertos, muelles y rompeolas, y hemos suministrado las mayores grúas "Titan" para asiento de bloques en el mundo.

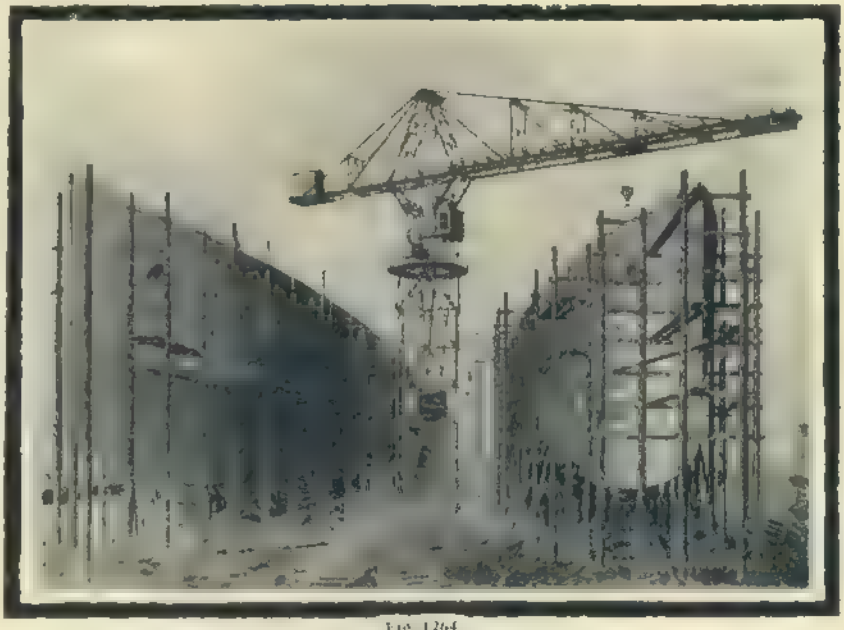


Fig. 1264

Cantilever Shipbuilding Cranes.
Grues Cantilever pour la construction de navires
Gruas tipo "Cantilever" para construcción de navíos

Telegrams "STOTHERT, BATH"
"STOTHERT, VIC LONDON"

Stothert & Pitt Ltd
Bath . . . . England

Cargo Handling Cranes

Grues de Quai. Grúas para Muelles.

Fig. 1263

"Toplis" Level Luffing Cranes at Southampton.

Grues à portée variable, "Toplis," au port de Southampton

Grúas "Toplis" con brazo de inclinación variable en el muelle de Southampton

Efficiency, Reliability, . . Simplicity. . . Send for Illustrated . Catalogue, No. 18. .

Rendement, Securite, . . Simplicité. . . Demandez notre Catalogue . . Illustré No. 18. . .

Eficacia, Sencillez, . . Seguridad. . . Pida nuestro Catálogo . Ilustrado No. 18. .

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Télégrammes "STOTHERT, VIC, LONDON."
Telegramas

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Bath . . . . England

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Sole Owners of the Business Established at Leeds in 1908 and Transferred to Sheffield in 1913.

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AND

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LONDON GERRARD 6643

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"DUVARBIDE, WESTRAND, LONDON."

THE ONLY MAKERS IN THE BRITISH EMPIRE

Of Wolf Benzine, Oil and Electric Lamps for Mines. Special Lamps for French, Belgian, Russian and other markets. Exporters of Lamp Glasses, Gauzes, Lamp Wick, Cerium and Paraffin Ignition Strips for Wolf Lamps, Naphtha, etc.

OUR LATEST WOLF ALKALINE (NICKEL-CADMIUM) ELECTRIC LAMP LASTS FOR FIVE YEARS and gives FIVE CANDLE POWER for one shift, or TWO CANDLE POWER for THREE SHIFTS WITH ONE CHARGE.

Exportateurs de Carbure et de Naphte.

Fabricants de toutes espèces de lampes de sûreté pour mines et usages industriels.

CATALOGUES GRATIS

Exportadores de Carburo y Nafta.

Constructores de toda clase de lámparas de seguridad para mineros y para fines industriales

CATALOGOS GRATIS

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THE WOLF SAFETY LAMP CO. (WM. MAURICE), LTD.

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Original Inventors of ACETYLENE LAMPS FOR MINES, RAILWAYS AND ALL INDUSTRIAL AND DOMESTIC PURPOSES.

Wholesale Suppliers of ACETYLENE BURNERS and BURNER CLEANING WIRES and of ACETYLENE WELDING, COOKING, HEATING, Etc., PLANT.

CATALOGUES (CODED) FREE.

NOTE. WOLF Acetylene Lamps, particularly our well-known Bridle Lever Lock and Bridle Lever (self-opening) Thumb-screw Lock Lamps, are freely copied. SEE THAT YOU GET GENUINE WOLF LAMPS.

Premiers inventeurs et constructeurs de lampes a acetylène pour mineurs, Municipalites et tous services industriels.

Fabricants de becs a l'acetylene et fils metalliques pour le nettoyage des becs.
Fabricants de materiel de soudure a l'acetylene, de materiel d'eclairage, de chauffage et matériel culinaire, à l'acetylene, etc.

Exportateurs de carbure. *Catalogues gratis.*

Inventores de las lamparas de acetileno para minas, servicio municipal y para todo propósito industrial.

Fabricantes de mecheros de acetileno y alambres limpiadores de mecheros
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SAFETY LAMPS FOR

ALL TYPES:

With or Without Electric Ignition, Magnetic or Lead Seal Locking.

Burning Spirit (Benzine), Mixed Colza or Petroleum (Kerosene).

ACCESSORIES:

Glasses, Gauzes, Fittings and Spares.

Lamp Stands and Lamp Room Fittings.

Magnets and Relighters.

ELECTRIC SAFETY LAMPS & INSTALLATIONS COMPLETE.
ACETYLENE HAND LAMPS AND SPARES.

INDENTS THROUGH SHIPPERS.

LAMPES DE SÛRETÉ POUR MINES ET CARRIÈRES

En tous genres :

Avec ou sans allumage électrique, à fermeture magnétique ou hermétique de plomb.

Brûlant de l'esprit (Benzine), de l'huile de colza mélangée ou du pétrole (Kérosène)

Accessoires :

Verres, toiles métalliques et pièces de recharge.

Ratelliers pour lampes et matériel de lampisterie.

Aimants et appareils pour rallumer les lampes.

Lampes de sûreté, électriques. Installations complètes.

Lampes portatives à l'acétylène et pièces de rechange.

Commandes par l'intermédiaire des maisons d'exportation.

LAMPARAS DE SEGURIDAD PARA MINAS Y CANTERAS.

Todo Modelo:

Con ó sin encendido eléctrico, de cierre magnético ó de sello de plomo.

Quemando espiritu (Benzina), mezcla de colza ó petróleo (Querosén).

Accesorios:

Cristales. Telas metálicas.

Piezas de repuesto.

Estantes para lámparas y accesorios de cámara de lámparas.

Imanes y reencendedores.

Lámparas de seguridad eléctricas. Instalaciones completas.

Lámparas de mano de acetileno y piezas de repuesto.

Pedidos por el intermedio de casas exportadoras.

W. E. TEALE & SWINTON, NR.

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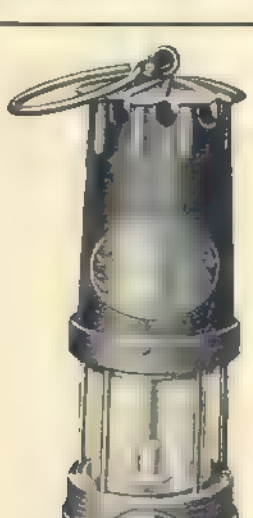
Code / Code / Código A.B.C. (5th Edition).

MINES & QUARRIES.



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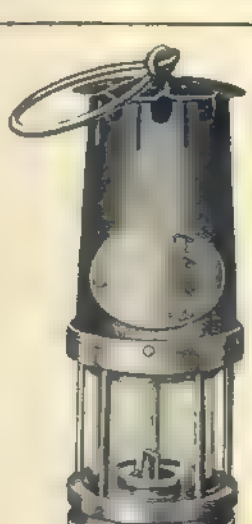


DD

UX

SA

COMPANY, LTD.,

MANCHESTER.

Telephone
[illegible] 124 ECCLES.

Prices on Application

X-RAY REFLECTORS

X-Ray Reflectors are the most powerful reflectors made. They are of a high grade glass, heavily plated with pure silver which is protected by a special green backing which will not peel, crack or blister. It is because of this powerful reflecting quality that they are standard for show window lighting all over the world.

JUPITER

For 100 watt Mazda Type "C" gas-filled lamp.

The JUPITER is a powerful concentrating reflector which will perfectly illuminate windows whose height equals about twice their depth. It has similar dimensions to the JOVE reflector and uses the same shade holder. Hence, when used together alternated they make a neat appearance in the window. They are made as small as possible to secure proper results.

Install in windows 10 to 15 ft. high and one-half to two-thirds as deep.

No. 610E—Width 10 in., depth 10¾ in., height including neck 7⅞ in., holder 3¼ in., form "A,"
each, reflector only $6.00

TWELVE IN A STANDARD PACKAGE
WEIGHT 35 LBS.

BEEHIVE

For 75 watt Mazda "C" lamp.

(Also may be used with 25, 40, 50 and 60 watt Mazda "B" lamps by using 2¼ in. form "O" holder).

A small distributing X-Ray reflector of pleasing lines, principally adapted for localized lighting, such as drop cord and bench lighting in shops, over counters and work tables, and for general illumination from comparatively low ceilings, as, for instance, bowling alleys, basements, store rooms and corridors.

No. 535E—Diam. 5⅜ in., 2¼ in. holder, form "H," height 5¼ in.,
each $2.00

TWENTY-FOUR IN A STANDARD PACKAGE. WT 18 LBS

BEEHIVE

For 100 watt Mazda "C" lamp.

A popular reflector for the 100 watt Mazda "C" lamp. It effectively conceals the lamp and gives a broad light distribution. A special system of spiral and vertical corrugations produces a practically even and well distributed light, eliminating all streaky effects.

No. 570E—Diam. 7⅛ in., 3¼ in. holder, form "A," height 6¼ in.,
each, reflector only $3.50

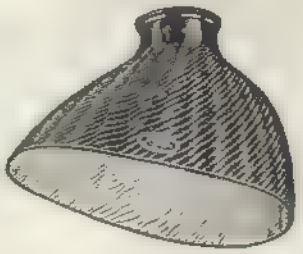
SIXTEEN IN A STANDARD PACKAGE
WEIGHT 32 LBS.

Our reputation founded on over sixty-seven years' business stands back of the OHB brand.

All goods branded OHB are guaranteed to be of highest quality material and workmanship and free from imperfections.

In selling OHB articles there is a profit for you and satisfaction to your customers.

JOVE



For 100 watt Mazda Type "C" gas-filled lamp.

The JOVE is a scientifically correct window lighting reflector with high temperature backing, designed especially for use with a 100 watt Mazda "C" lamp. This reflector and lamp gives the highest intensity of uniform store window illumination ever produced with 100 watts. Its shape completely hides the intensely bright filament and the special corrugations properly break up and distribute the light.

The JOVE has been designed for windows of average proportions, those whose height is one to one and one-half times their depth.

No. 600E—Width 10 in., depth from front to back 9 13/16 in., height including neck 7⅞ in., holder 3¼ in., form "A,"
each, reflector only $6.00

TWELVE IN A STANDARD PACKAGE
WEIGHT 35 LBS.

BEEHIVE

For 200 watt Mazda "C" lamp.

This reflector should be used for efficient, direct lighting of average, large working spaces. The spread of light from this reflector with a 200-watt Mazda "C" lamp will give good, general lighting in a space of 20 feet square at average hanging height.

No. 575E—Diam. 9⅜ in., 3¼ in. holder, form "A," height 8 in.,
each, reflector only $4.25

EIGHT IN A STANDARD PACKAGE
WEIGHT 14 LBS.

ELECTRIC LIGHT SHADES

Deep cone, porcelain green outside, white inside, for 2¼ in. holder.

Without Holder.

No. 627E— 7 in. ...per dozen $12.60
No. 630E—10 in. ...per dozen 20.80

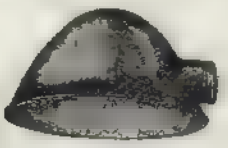
Deep cone tin, green outside white inside, standard for 2¼ in. holder.

No. 408E— 8 in. ....per dozen $4.70
No. 410E—10 in. ....per dozen 6.40
No. 412E—12 in. ....per dozen 12.00

Hubbell, deep cone tin, green outside, white inside, holder attached.

Per dozen.

No. 5440E— 8 in. ..per dozen $ 9.10
No. 5441E—10 in. ..per dozen 10.10



Diam. 6¾ in., height 3¾ in., for 60 watt lamp and less, equipped with snap on holder, aluminum frosted inside.

SOLID BRASS

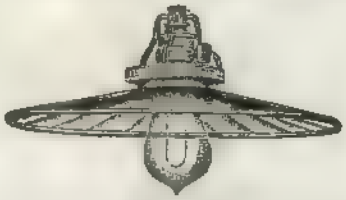
Per dozen.

No. 1186E—Brush Brass,
per dozen $18.90

No. 1185½E—"Hand" shade, green outside, aluminum frosted inside, 6 in. long, 3¾ in. wide, 1⅛ in. deep, with shade holder .....per dozen $9.00

ALL SHADES PACKED LOOSE

ELECTRIC LIGHT SHADES



Flat tin, silver plated glass mirror reflector, green outside, for 2¼ in. holder, without holder socket and bulb.

Throws powerful divergent light.

No. 1910E—10 in...per dozen $40.00
No. 1914E—14 in...per dozen 57.60

Opal, scalloped. For 2¼ in. holder.

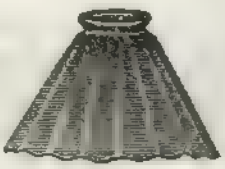
No. 556E—6 in. ....per dozen $5.20

Flat flint. For 2¼ in. holder.

No. 610E—10 in. ..per dozen $8.00

For 3½ in. Holder.

No. 614E—14 in. ..per dozen $16.00
No. 616E—16 in. ..per dozen 19.00



Deep cone, opal, crimped. For 2¼ in. holder.

No. 967E—7 in. ....per dozen $12.00

Flat, opal, crimped. For 2¼ in. holder.

No. 958E— 8 in. ....per dozen $6.00
No. 960E—10 in. ....per dozen 8.00

ALL SHADES PACKED LOOSE

REFLECTORS

"MOONSTONE DORIC"

Nos. V200E to 1202E.
HOLDERS NOT FURNISHED.

Moonstone Doric Reflectors are designed to give the highest possible efficiency where used in connection with light source of great brilliancy producing the best results for maximum of diffusion—minimum of glare—distribution of the fixtures, eye comfort, color of light.

The light transmitted by Moonstone Doric Reflectors is totally different compared to opal, opalescent, ground glass or prismatic shades. The Moonstone Doric Reflectors are free from shadows or dark spots when lighted. The entire surface is diffusive and of marble whiteness, soft and pleasing. Since the introduction of high efficiency light source oculists say eyestrain has largely increased. The Moonstone Doric Reflector will relieve the eyes. No other globe can compare with Moonstone for effective street illumination. Maximum of distribution and no shadows. Pure white free from sharp uncertain light rays and shadows.

No. 1213E

No. 1200E—Diam. 5 in., depth 3⅜ in., fitter 2¼ in., for 25 watt lamps, per dozen $10.20

SIX DOZEN IN A BARREL

No. 1201E—Diam. 5¾ in., depth 4⅜ in., fitter 2¼ in., for 40 watt lamps, per dozen $9.20

FIVE DOZEN IN A BARREL

No. 1202E—Diam. 7¼ in., depth 4¾ in., fitter 2¼ in., for 60 watt lamps, per dozen $16.00

THREE AND ONE-HALF DOZEN IN A BARREL

No. 1213E—Diam. 11 in., depth 4½ in., fitter 2¼ in., for 100 watt lamps, per dozen $28.00

ONE AND ONE-HALF DOZEN IN A BARREL

X-RAY REFLECTORS

SCOOP

For 75 watt Mazda Type "C" gas-filled lamp.

The SCOOP is a scientifically correct reflector, designed for use with the 75 watt Mazda "C" lamp. It is designed for small show windows, particularly those whose height is equal to the depth.

The reflector is small in size, requires little head-room and makes a very neat appearance. If very bright illumination is desired, install reflectors on 12-inch centers. For average conditions, reflectors on 18 to 24-inch centers give good results.

Install in windows 8 or 10 ft. high and 6 or 8 ft. deep.

No. 178E—Width 7 7/16 in., depth from front to back 6 1/16 in., height including neck 6 5/16 in., holder 2¼ in., form "O."
each, reflector only $4.00

TWENTY-FOUR IN A STANDARD PACKAGE. W'T 30 LBS.

POKE BONNET

For 25, 40, 50 and 60 watt Mazda Type "B" lamps.

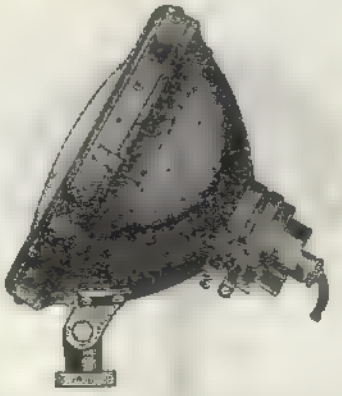
Install for low deep windows. A 6 in. window drape, moulding or sign will hide it.

No. 750E—Depth 7⅞ in., length 14 in., complete with adjustable fork, 18 inches of re-inforced cord, plug, twin sockets and reflector, no lamps, each $12.00

X-RAY REFLECTORS

Prices on Application

FLOOD LIGHT



For use with the 200 or 250 watt G-30 Mazda "C" flood lighting lamp.

Projector being small is particularly adapted for use on the sides of buildings, brackets, and other places difficult of access.

It has been widely and successfully used for protection lighting and for facilitating night operations in large spaces, both inside and outside.

The unit is weather-proof, perfectly ventilated, and not affected by heat, cold, rain, snow or ice.

No. P51XE—Finish gray, diam. 11⅛ in., depth over all 9⅝ in., swivel and tilting base supplied with unit for bolting to supporting surface, size of base 2x4 in., with two ½ in. holes 2⅝ in. on centers, **without lamp,** each $30.00

ONE IN A STANDARD PACKAGE WEIGHT 10 LBS.

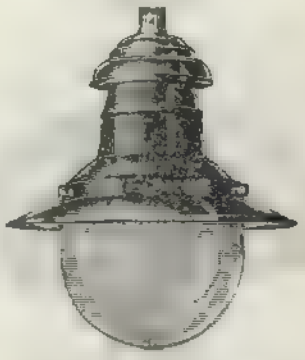
STREET LAMP FIXTURES

YARD LIGHTING UNIT

No. 1215E—Consists of a 12-inch non-discoloring white porcelain enameled steel reflector, copper cased weather-proof socket, and 30x½ in. gooseneck with heavy cast wall fitting. Reflector is green outside; bracket and wall fitting is galvanized, 60 watt lamp is recommended, w't packed approx. 5 lbs. .....each $6.40

LOOSE

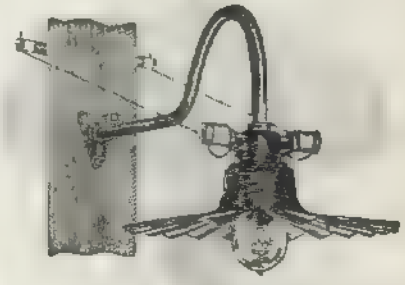
STREET LAMP FIXTURES



WATERPROOF UNIT

No. P505E—Furnished with 10⅛ inch non-discoloring white porcelain enameled steel reflector, and 6⅝x5¾ inch opal glass globe. It is tapped for ½ iron pipe stem. Finish black enamel. 200 watt nitrogen size of lamp recommended, w't packed approx. 10 lbs. .....each $13.50

LOOSE



STREET UNIT

No. P1207E—18 inch radial wave non-discoloring white porcelain enameled steel reflector, and 40x¾ inch gooseneck with heavy cast wall fitting. Furnished with cast iron top and cross-arm with porcelain knobs for open wiring. Reflector is black outside; galvanized fittings. 300, 400 and 500 watt nitrogen size of lamp recommended, w't packed approx. 20 lbs. .....each $18.80

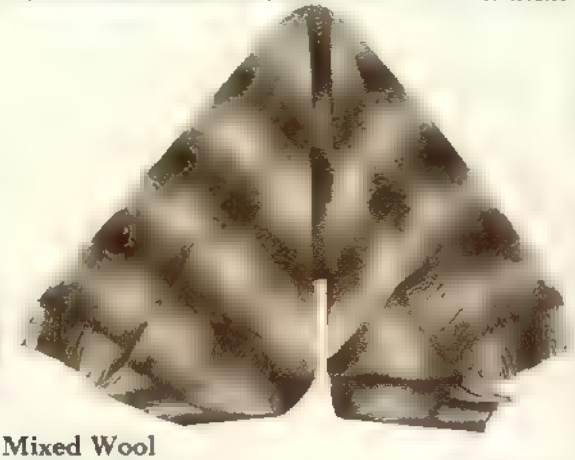
LOOSE

Steamer or Automobile Rugs.

Washable Mixed Wool

No. 6120. Reversible gray body, maroon, white and green plaid, size 60x80 in., weight about 4 pounds. Each $11.20

No. 6122. Reversible shaved, red, brown and blue ground, red and purple plaid, size 60x80 in., weight about 4 pounds. Each $13.00



Washable Mixed Wool

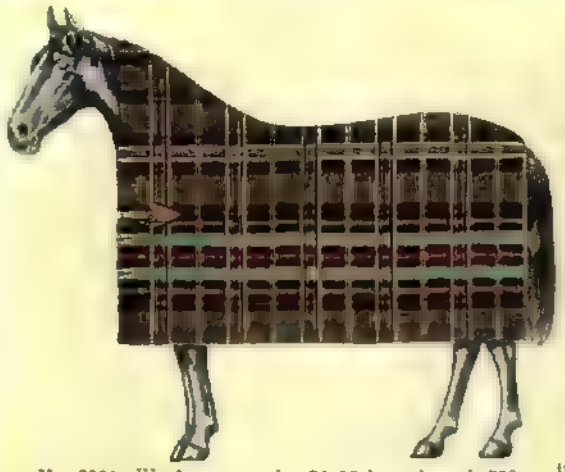
No. 6124. Red ground, red, green, light blue and white plaid, size 60x80 in., weight about 4 pounds. Each $17.00

No. 6126. Shaded brown and white plaid, size 60x80 in., weight about 4½ pounds. Each $18.00

Extra Fine All Wool Filling, Washable

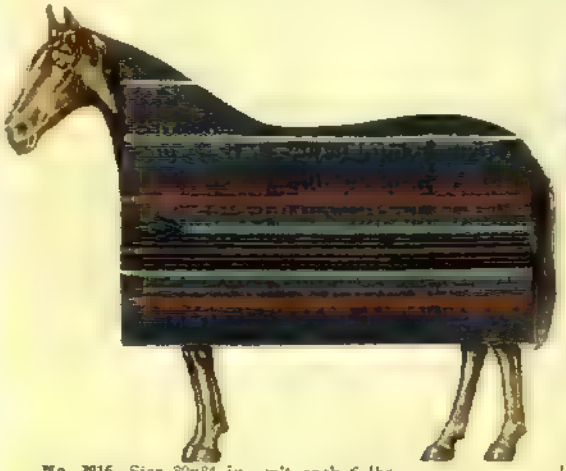
No. 6128. Navy blue, with white, light blue, olive and red plaid, blue back, size 60x80 in., weight about 5 pounds. Each $22.80

No. 6130. Green and dark brown ground, red and white plaid, dark brown back, size 60x80 in., weight about 6 pounds. Each $27.00

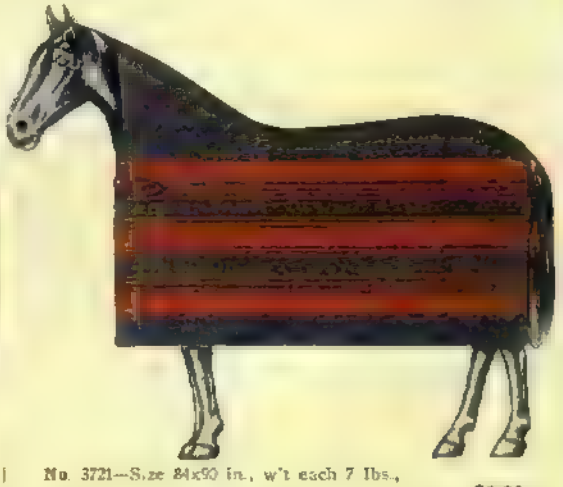


No. 3934—Wool ground, size 84x90 in., w't each 7½ lbs. ..... each $11.30

No. 3933—Mixed wool ground, size 84x90 in., w't each 7½ lbs. ..... each $9.50

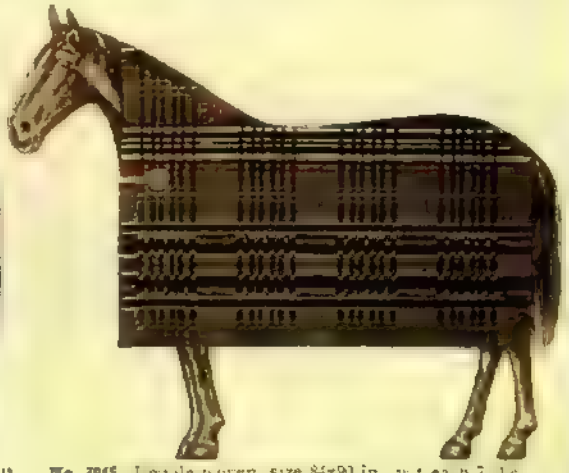


No. 3916—Size 80x84 in., w't each 6 lbs., each $7.00



No. 3721—Size 84x90 in., w't each 7 lbs., each $8.20

No. 3931—Mixed wool ground, size 90x96 in., w't each 7½ lbs. ..... each $10.00



No. 3945—Double woven, size 84x90 in., w't each 7 lbs., each $12.70

FLOOR LAMPS The Pick of the Market

All of these lamps are genuine hand carved, have two adjustable pull chain sockets with silk cord and tassel pulls and attachment plug with eight feet silk cord.

2C7008—65 in. high, antique mahogany finish base, 24 in. rose silk shade stretched top and rose silk arm and inner lining, antique finish mahogany old rose silk and 6 in. extra heavy double row fancy fringe, fine 2 ply silk, packed in separate carton. Each **$24.50**

2C7006—[illegible] high, antique gold with bronze finish base, 24 in. gold silk shade stretched top and rose silk arm, lined and inner shade wide fluted and back silk, soft harmonizing old rose silk skirt 5 in. extra heavy double row fancy and plain silk fringe. Base crated, shade packed in separate carton. Each **$26.25**

FLOOR LAMP ASSORTMENT

2C7000—Assortment consists of one each of 2C7008, 2C7006 and 2C7007 ASST. (3 complete lamps) **$72.00**

2C7007—65 in. high, antique gold polychrome finish base, 24 in. blue silk shade shirred top old rose inner liner silk and three band old rose skirt 6 in. double row blue silk fringe. Base crated, shade packed in separate carton. Each **$25.00**

Couch or Chair Reading Lamp

2C7025—55 in. high, antique gold polychrome finish base equipped with adjustable arm. 14 in. blue georgette top shade, double inner lining and silk drum, fancy shimmer satin fancy lined band and fringe, eight feet of silk cord, socket and attachment plug. Each base crated with shade packed in separate carton. Each **$16.50**

BIG SELLING FLOOR LAMPS

It is a principle of this business to name the same kind of low prices on Floor Lamps that we do on popular priced specialties. That explains our immense business in Floor Lamps and these remarkable under-market prices.

All these floor lamps are genuine hand carved, 65 in. high, have two adjustable pull chain sockets with silk cord and tassel pulls, and attachment plug with 8 ft. of silk cord.

2C7011—Antique mahogany finish base, 24 in. gold silk shade, shirred top and rose edging, inset mix velvet ribbon band, old rose silk skirt, 6 in. extra heavy bead and gold silk fringe. Base crated, shade packed in separate carton. Each **$24.75**

2C7010—Antique mahogany finish base, 24 in. silk shade, shirred top, old rose silk lining, chenney print border, old rose silk skirt, 5 in. extra heavy double row blue silk fringe. Base crated, shade packed in separate carton. Each **$23.85**

2C7009—Antique gold polychrome finish base, 24 in. rose silk shade, stretched top, old rose silk design, inset and inner lining, antique tinsel band, old rose silk skirt, 5 in. extra heavy double row gold and old rose silk fringe. Base crated, shade packed in separate carton. Each **$25.00**

FLOOR LAMP ASSORTMENT

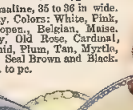
2C7005—Assortment consists of one each of the above three lamps.

ASST. (3 complete lamps) **$70.00**

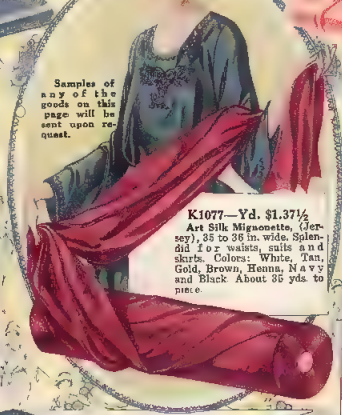
Dress Silks

K1101—Yd. $1.47½
All Silk Messaline, 35 to 36 in. wide, better quality. Colors: White, Pink, Lt. Blue, Copen., Belgian, Maise, Reseda, Gray, Old Rose, Cardinal, Garnet, Orchid, Plum, Tan, Myrtle, Taupe, Navy Seal Brown and Black. About 60 yds. to pc.

K1003—Yd. $1.72½
All Silk Charmeuse Satin, 39 to 40 in. wide, fine quality. Colors. White, Lt. Gray, Copen., Tan, Henna, Seal Brown, Peacock, Belgian, Dk. Gray, Burgundy, Plum, Myrtle, Orchid, Old Rose, Fuchsia, Navy and Black. About 60 yds to pc.



Samples of any of the goods on this page will be sent upon request.



K1077—Yd. $1.37½
Art Silk Mignonette, (Jersey), 35 to 36 in. wide. Splendid for waists, suits and skirts. Colors: White, Tan, Gold, Brown, Henna, Navy and Black. About 35 yds to piece.

K1088 Yd. $1.75
All Silk Chiffon Taffeta, very good quality, 35 to 36 in. wide. Colors: Brown, Navy and Black. About 60 yds. to pc.

K1017—Yd. 47½c
Jap. All Silk 27 in. wide Colors: White, Pink, Light Blue, Tan, Copen., Maise, Lavender, Old Rose, Emerald, Myrtle, Plum, Purple Gray Brown, Scarlet, Garnet, Royal Blue, Navy and Black. About 50 yds. to pc.

K1018—Yd. $1.07½
All Silk Wash Satin, 35 to 36 in wide. Colors: White, Flesh and Pink. About 60 yds. to pc.

K1019—Yd. $1.87½
All Silk Wash Satin, 32 to 33 in. wide, good quality. Colors: White, Flesh and Pink. About 60 yds. to pc.

All goods on this page come about 60 yards to piece, unless otherwise stated.

K1099—Yd. 92½c
Fancy All Silk Jersey, 36 in. wide. Very desirable fabric for lingerie, underwear, etc. Colors: White, Flesh and Pink. About 40 yds. to pc.

K1044 Yd. 62½c
Susquehanna Silk Mixed Poplin, 36 in. wide Colors: White, Pink, Lt. Blue, Copen., Old Rose, Helio, Tan, Gray, Maise, Lt. Brown, Dk. Brown, Myrtle, Purple, Plum, Garnet, Peacock, Navy and Black. About 60 yds. to pc.

K1045 Yd. $1.00
Cotton Back Satin, 32 to 33 in. wide, heavy quality Colors: White, Pink, Light Blue, Copen, Old Rose, Tan, Tea, Brown, Plum, Kelly Green, Medium Gray, Navy Scarlet, Buff and Black. About 60 yds. to pc.

K1100—Yd. $1.65
Cotton Back Satin, 35 to 36 in. wide, extra quality Colors: White, Medium Grey, Seal Brown, Navy and Black. About 60 yds. to pc.

Silks

Samples of any goods on this page will be sent upon request.

K1034—Yd. $1.97½

All Silk Crepe Meteor fine quality, 39 to 40 in. wide. Colors White, Pink La. Blue, Sapphire, Myrtle Taupe, Cel Rose, Orchid Plum, Seal Brown, Peacock Tan, Periwinkle, Henna, Belgian, Navy and Black. About 70 yds. to pc.

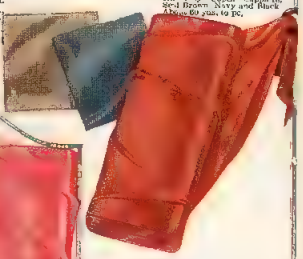
K1102 -Yd. $2.22½

All Silk Satin Face Crepe 39 to 40 in. wide, extra quality Colors: White, Old Rose, Orchid, Tan, Fuchsia, Periwinkle Golden Brown, Myrtle, Garnet, Henna, Burgundy, Dk. Gray, Copen, Sapphire, Seal Brown, Navy and Black. About 60 yds. to pc.

K1040—

Yd. $2.12½

All Silk Crepe de Chine, 39 to 40 in. wide, extra heavy. Colors: White, Flesh, Pink Turquoise, Orchid, Med. Gray, Old Rose, Copen, Plum, Seal Brown, Navy, Lt. Blue, Maize, Periwinkle and Black. About 60 yds. to pc.

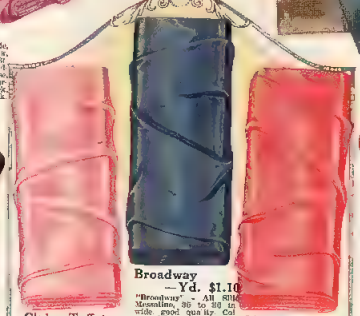


K1082 –Yd. $2.42½

All Silk Plain Canton Crepe, 40 to 40 in. wide, good quality Colors, White, Light Gray, Dk. Gray, Fuchsia, Periwinkle, Jade, Sapphire, Old Rose, Copen, Orchid, Henna Burgundy, Tan, American Beauty, Seal Brown, Navy and Black, About 60 yds. to pc.

K1041—Yd. $1.47½

All Silk Crepe de Chine 39 to 40 in. wide, better quality Colors White, Flesh, Pink, Old Rose, Turquoise, Orchid, Lavender, Jade, Light Gray, Plum, Henna, Seal Brown, Burgundy, Dk. Gray, Cardinal, Nile, Peacock, Copen, Sapphire, Belgian, Navy and Black. About 60 yds. to pc.



Broadway

—Yd. $1.10

"Broadway" – All Silk Messaline, 36 to 39 in. wide, good quality Colors White, Pink, Light Blue, Old Rose, Turquoise, Orchid, Tan, Orange, Kelly, Lavender, Tan, Fuchsia, Golden Brown, Rose, Periwinkle, Myrtle, Scarlet, Maize, Light Gray, Purple, Henna, Seal Brown, Burgundy, Dk. Gray, Copen, Sapphire, Belgian, Jade, Taupe, Light Navy, Dark Navy and Black. About 60 yds. to pc.

Claire Taffeta

Yd. $1.12½

Claire—All Silk Taffeta, 35 to 36 in. wide, good quality. Colors White, Pink, Light Blue, Old Rose, Turquoise, Orchid, Lt. Orange, Kelly Tan, Fuchsia, Golden Brown, Rose, Periwinkle, Myrtle, Scarlet, Maize, Light Gray, Purple, Henna, Seal Brown, Burgundy, Dk. Gray, Cardinal, Nile, Copen, Sapphire, Belgian, Jade, Taupe, Light Navy, Dark Navy and Black. About 60 yds. to pc.

Mayfair

—Yd. $1.15

Mayfair — All Silk Crepe de Chine, 39 to 40 in. wide, good quality Colors: White, Flesh, Pink, Light Blue, Honeydew, Old Rose, Turquoise, Orchid, Lt. Orange, Jade, Lavender, Tan, Fuchsia, Golden Brown, Rose, Periwinkle, Myrtle, Maize, Light Gray, Plum, Henna, Seal Brown, Burgundy, Dk. Gray, Cardinal, Nile, Peacock, Copen, Sapphire, Belgian, Navy and Black. About 60 yds. to pc.

K1087 -Yd. $2.92½

All Silk Plain Canton Crepe, 38 to 40 in. wide, fine quality, medium weight Colors White, Lt. Gray, Tan, Henna, American Beauty, Lavender, Fuchsia, Jade, Pink, Seal Brown, Turquoise, Peacock, Copen, Old Rose, Periwinkle, Navy and Black. About 60 yds. to pc.

K1031 –

Yd. $2.92½

All Silk Satin Face Canton Crepe 39 to 40 in. wide, fine quality Colors, Jade, Gray, White, Turquoise, Sapphire, Belgian, Dk. Gray, Henna, Seal Brown, Navy and Black. About 60 yds. to pc.

All goods on this page come about 60 yards to piece unless otherwise stated

K1046—Yd. $2.72½

All Silk Satin Face Canton Crepe 40 in. wide extra quality Colors White, Peacock, Copen, Dk. Gray, Henna, Tan, Jade, Fuchsia, Periwinkle, Seal Brown, Navy and Black. About 60 yds. to pc.

K1043 -Yd. $2.50

All Silk Radium Taffeta, 36 to 40 in. wide extra quality Colors White, Nile, Med. Gray, Orchid, Old Rose, Fuchsia, Seal Brown, Copen, Sapphire, Belgian, Tan, Plum, Henna, Navy and Black. About 60 yds. to pc.

Silks

Samples of any goods on this page will be sent upon request.

K1034—Yd. $1.97½

All Silk Crepe Meteor fine quality, 39 to 40 in. wide. Colors White, Pink La. Blue, Sapphire, Myrtle Taupe, Cel Rose, Orchid Plum, Seal Brown, Peacock Tan, Periwinkle, Henna, Belgian, Navy and Black. About 70 yds. to pc.

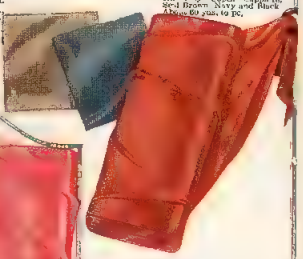
K1102 -Yd. $2.22½

All Silk Satin Face Crepe 39 to 40 in. wide, extra quality Colors: White, Old Rose, Orchid, Tan, Fuchsia, Periwinkle Golden Brown, Myrtle, Garnet, Henna, Burgundy, Dk. Gray, Copen, Sapphire, Seal Brown, Navy and Black. About 60 yds. to pc.

K1040—

Yd. $2.12½

All Silk Crepe de Chine, 39 to 40 in. wide, extra heavy. Colors: White, Flesh, Pink Turquoise, Orchid, Med. Gray, Old Rose, Copen, Plum, Seal Brown, Navy, Lt. Blue, Maize, Periwinkle and Black. About 60 yds. to pc.

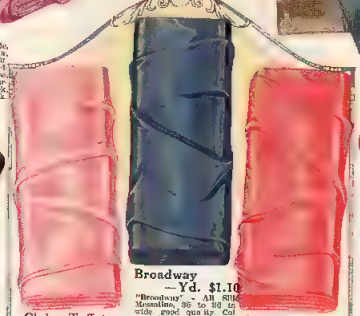


K1082 –Yd. $2.42½

All Silk Plain Canton Crepe, 40 to 40 in. wide, good quality Colors, White, Light Gray, Dk. Gray, Fuchsia, Periwinkle, Jade, Sapphire, Old Rose, Copen, Orchid, Henna Burgundy, Tan, American Beauty, Seal Brown, Navy and Black, About 60 yds. to pc.

K1041—Yd. $1.47½

All Silk Crepe de Chine 39 to 40 in. wide, better quality Colors White, Flesh, Pink, Old Rose, Turquoise, Orchid, Lavender, Jade, Light Gray, Plum, Henna, Seal Brown, Burgundy, Dk. Gray, Cardinal, Nile, Peacock, Copen, Sapphire, Belgian, Navy and Black. About 60 yds. to pc.



Broadway

—Yd. $1.10

"Broadway" – All Silk Messaline, 36 to 39 in. wide, good quality Colors White, Pink, Light Blue, Old Rose, Turquoise, Orchid, Tan, Orange, Kelly, Lavender, Tan, Fuchsia, Golden Brown, Rose, Periwinkle, Myrtle, Scarlet, Maize, Light Gray, Purple, Henna, Seal Brown, Burgundy, Dk. Gray, Copen, Sapphire, Belgian, Jade, Taupe, Light Navy, Dark Navy and Black. About 60 yds. to pc.

Claire Taffeta

Yd. $1.12½

Claire—All Silk Taffeta, 35 to 36 in. wide, good quality. Colors White, Pink, Light Blue, Old Rose, Turquoise, Orchid, Lt. Orange, Kelly Tan, Fuchsia, Golden Brown, Rose, Periwinkle, Myrtle, Scarlet, Maize, Light Gray, Purple, Henna, Seal Brown, Burgundy, Dk. Gray, Cardinal, Nile, Copen, Sapphire, Belgian, Jade, Taupe, Light Navy, Dark Navy and Black. About 60 yds. to pc.

Mayfair

—Yd. $1.15

Mayfair — All Silk Crepe de Chine, 39 to 40 in. wide, good quality Colors: White, Flesh, Pink, Light Blue, Honeydew, Old Rose, Turquoise, Orchid, Lt. Orange, Jade, Lavender, Tan, Fuchsia, Golden Brown, Rose, Periwinkle, Myrtle, Maize, Light Gray, Plum, Henna, Seal Brown, Burgundy, Dk. Gray, Cardinal, Nile, Peacock, Copen, Sapphire, Belgian, Navy and Black. About 60 yds. to pc.

K1087 -Yd. $2.92½

All Silk Plain Canton Crepe, 38 to 40 in. wide, fine quality, medium weight Colors White, Lt. Gray, Tan, Henna, American Beauty, Lavender, Fuchsia, Jade, Pink, Seal Brown, Turquoise, Peacock, Copen, Old Rose, Periwinkle, Navy and Black. About 60 yds. to pc.

K1031 –

Yd. $2.92½

All Silk Satin Face Canton Crepe 39 to 40 in. wide, fine quality Colors, Jade, Gray, White, Turquoise, Sapphire, Belgian, Dk. Gray, Henna, Seal Brown, Navy and Black. About 60 yds. to pc.

All goods on this page come about 60 yards to piece unless otherwise stated

K1046—Yd. $2.72½

All Silk Satin Face Canton Crepe 40 in. wide extra quality Colors White, Peacock, Copen, Dk. Gray, Henna, Tan, Jade, Fuchsia, Periwinkle, Seal Brown, Navy and Black. About 60 yds. to pc.

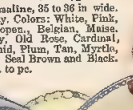
K1043 -Yd. $2.50

All Silk Radium Taffeta, 36 to 40 in. wide extra quality Colors White, Nile, Med. Gray, Orchid, Old Rose, Fuchsia, Seal Brown, Copen, Sapphire, Belgian, Tan, Plum, Henna, Navy and Black. About 60 yds. to pc.

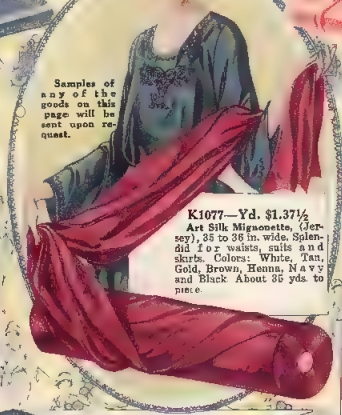
Dress Silks

K1101—Yd. $1.47½
All Silk Messaline, 35 to 36 in. wide, better quality. Colors: White, Pink, Lt. Blue, Copen., Belgian, Maise, Reseda, Gray, Old Rose, Cardinal, Garnet, Orchid, Plum, Tan, Myrtle, Taupe, Navy Seal Brown and Black. About 60 yds. to pc.

K1003—Yd. $1.72½
All Silk Charmeuse Satin, 39 to 40 in. wide, fine quality. Colors. White, Lt. Gray, Copen., Tan, Henna, Seal Brown, Peacock, Belgian, Dk. Gray, Burgundy, Plum, Myrtle, Orchid, Old Rose, Fuchsia, Navy and Black. About 60 yds to pc.



Samples of any of the goods on this page will be sent upon request.



K1077—Yd. $1.37½
Art Silk Mignonette, (Jersey), 35 to 36 in. wide. Splendid for waists, suits and skirts. Colors: White, Tan, Gold, Brown, Henna, Navy and Black. About 35 yds to piece.

K1088 Yd. $1.75
All Silk Chiffon Taffeta, very good quality, 35 to 36 in. wide. Colors: Brown, Navy and Black. About 60 yds. to pc.

K1017—Yd. 47½c
Jap. All Silk 27 in. wide Colors: White, Pink, Light Blue, Tan, Copen., Maise, Lavender, Old Rose, Emerald, Myrtle, Plum, Purple Gray Brown, Scarlet, Garnet, Royal Blue, Navy and Black. About 50 yds. to pc.

K1018—Yd. $1.07½
All Silk Wash Satin, 35 to 36 in wide. Colors: White, Flesh and Pink. About 60 yds. to pc.

K1019—Yd. $1.87½
All Silk Wash Satin, 32 to 33 in. wide, good quality. Colors: White, Flesh and Pink. About 60 yds. to pc.

All goods on this page come about 60 yards to piece, unless otherwise stated.

K1099—Yd. 92½c
Fancy All Silk Jersey, 36 in. wide. Very desirable fabric for lingerie, underwear, etc. Colors: White, Flesh and Pink. About 40 yds. to pc.

K1044 Yd. 62½c
Susquehanna Silk Mixed Poplin, 36 in. wide Colors: White, Pink, Lt. Blue, Copen., Old Rose, Helio, Tan, Gray, Maise, Lt. Brown, Dk. Brown, Myrtle, Purple, Plum, Garnet, Peacock, Navy and Black. About 60 yds. to pc.

K1045 Yd. $1.00
Cotton Back Satin, 32 to 33 in. wide, heavy quality Colors: White, Pink, Light Blue, Copen, Old Rose, Tan, Tea, Brown, Plum, Kelly Green, Medium Gray, Navy Scarlet, Buff and Black. About 60 yds. to pc.

K1100—Yd. $1.65
Cotton Back Satin, 35 to 36 in. wide, extra quality Colors: White, Medium Grey, Seal Brown, Navy and Black. About 60 yds. to pc.

HIBBARD, SPENCER, BARTLETT & CO.

THE NEW HERCULES SPARK PLUGS

Strictly a Quality Product

[OVER]

HERCULES *Spark Plugs*

MOGUL TYPE

THE new HERCULES MOGUL type of spark plug represents a tremendous advance from an engineering standpoint, and sets a new mark of efficiency in spark plug construction. This type is absolutely adapted to tractor, marine or stationary engine work as well as for the truck and passenger car. Dealer profit margin is ample

The HERCULES is not new on the market, but is one of the "old line" standards with a reputation for maximum dependability and durability under every condition of service.

⅞-inch S. A. E.

A heavy duty model recommended for Cadillac, Chalmers, Dodge, Hudson (prior to 1921), Hupmobile, Lexington, Packard Studebaker and others. Also for trucks or tractors using ⅞" thread. Absolutely dependable under the most extreme of operating conditions.

No. 5316. Per box of 10, $12.00

Ford —½-inch Standard

This plug will be found particularly serviceable on Ford car, truck or tractor, both porcelain breakage and fouling having been practically eliminated. Base of plug is baffled to hold back oil and prevent compression pound gasket insulator. Also recommended for Overland, old Studebaker and other motors using ½" standard thread

No. 5315. Per box of 10, $12.00

½-inch Extension

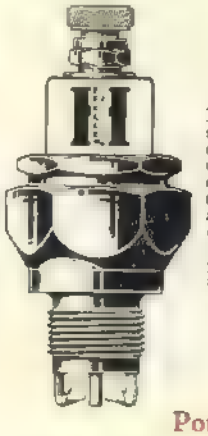
For Reo and many types of tractor. The slight extension will give added power and efficiency in Ford car. Particularly recommended for [illegible] tractor

No. 5314. Per box of 10, $12.00

Buick ⅞-inch Extension

This type is a short, sturdy model especially designed to fit the Buick motor. Also adapted for use in such cars as the Dodge, Winton, Packard and trucks, cars or tractors where a slight, increased cylinder [illegible] is desirable or necessary.

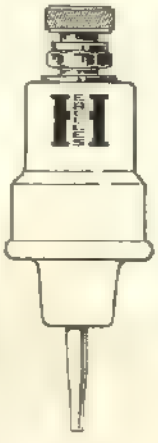
No. 5317.
Per box of 10, $12.00



Metric

Built to standard metric specifications and especially designed to take care of Essex, Hudson, old Packard, Pierce and many of foreign built cars. May also be used in motorcycle calling for metric thread. The most efficient plug built for high speed and high compression motors.

No. 5313
Per box of 10, $12.00



⅝-inch Long

This plug carries a long shank or shell to take care of deep gasket pockets, and is especially desirable in such cars as the Chalmers, Packard, Oldsmobile 6, Peerless, Stearns, Willys-Knight and others. Also efficient for trucks, tractors or marine service.

No. 5319 Per box of 10, $12.00

Porcelains

Insulators are of maximum size with extra heavy shoulder lathe turned to perfect accuracy with [illegible] gauge. Special design of gland and gasket seat protect insulator from heat and absolutely eliminate compression leakage or breaks due to compression pound, even under most extreme conditions. Highest tensile and dielectric strength known in any insulator Heat and break proof. One size interchangeable in all models.

No. 5318. Per box of 10, $6.00

SPECIAL FEATURES

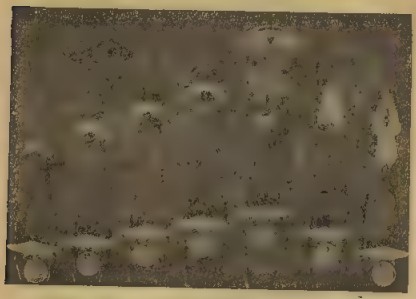
The HERCULES MOGUL is greatly reduced in size and weight but retains maximum strength and durability. Shoulder of porcelain is greatly enlarged and soft copper gasket provided with improved type of spring gland seat, permitting flexibility against expansion and contraction. Absolutely leak proof compression seat—impossible to crush or tear compression gasket by tightening gland or lock nut—base of plug baffled or choked bore in accordance with latest airplane practice to hold back oil and carbon, keeping base of plug entirely clean. Compression can not pound against insulator in base of plug. Electrodes swedged to knife edge, which concentrates spark to blue flame, burning away soot or carbon. The most highly efficient plug for universal service on the market.

Shipping weight approximately three pounds per package of ten.

KRAEUTER PLIERS

DISPLAY BOARDS

Each display is mounted on a green Mission finish wood panel fitted with strong wooden easel. Each article is securely attached, yet can be readily taken from the board. The number, size and suggested retail price are shown on every item. Boards are 16x12 inches.



Assortment No. K5

This Assortment contains 7 tools, one each of the following: No. 1850 5-, 6-, 7-, and 8-in. Nippers, No. 1880 -10½-in. Staple Puller; No. 4460 8-in. Seaming Plier; No. 450 -8-inch Glass Plier.

NO.	Wt. Each	EACH
K5	8½ lb.	$18.00

Assortment No. K2

Button Assortment

This Assortment contains 6 Pliers and 1 Wrench, one each of the following: No. 1821 6½-, 7½-, 8 inch; No. 1841—6½, 8-, 10-in. Pliers, and No. 365 Wrench.

NO.	Wt. Each	EACH
K2	7½ lb.	$18.00

Assortment No. K6

This Assortment contains 10 Slip Joint Combination Pliers, one each of the following: No. 305—7-in.; 356—5½-, 6-, 8-, and 10 in.; 1863 1873, 1903, 1923—8- and 10-inch.

NO.	Wt. Each	EACH
K6	6½ lb.	$13.00

Assortment No. K1

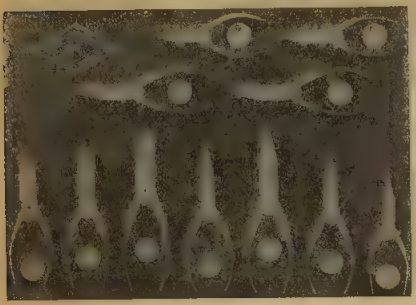
Side Cutter Assortment

This Assortment contains 8 Pliers, one each of the following: No. 1801—6-, 7-, 8½-in.; No. 1831 4-, 5-, 6½-, 7-, 8-inch.

NO.	Wt. Each	EACH
K1	7 lb.	$20.00

PLIERS

KRAEUTER DISPLAY BOARDS



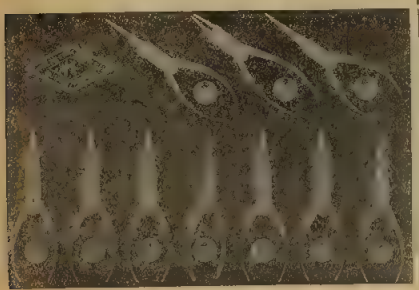
Assortment No. K4

Each Display is mounted on a green Mission finish wood panel, with strong wooden easel. Each article has number, size and suggested retail price, and is securely fastened, yet can be easily taken off. Board is 16x12 in.

Flat, Round and Chain Nose Assortment

This Assortment contains 11 Pliers, one each of the following: Nos. 1591, 1593, 1601—4½-, 5-, 6-in.; Nos. 1641, 1701, 1711, 2601—5-, 5½-, 6-inch.

NO.	Wt. Each	EACH
K4	4½ lb.	$21.00



Assortment No. K3

Long Nose Assortment

This Assortment contains 10 Pliers, one each of the following: No. 1611—5½-in.; Nos. 1521, 1631, 1651, 1661, 1671, 1681, 1691, 1721, 1731.

NO.	Wt. Each	EACH
K3	4½ lb.	$28.00

LINEMEN'S, SIDE CUTTING

Genuine Klein's

Diamond Special.—For use on copper or iron wire.

NO.	Length	Wt. Doz.	DOZEN
201-6	6 in	5½ lb.	$48.00
201-7	7 in	8¼ lb	60 00
201-8	8 in.	12 lb	72 00
201-9	9 in.	15 lb	84.00

COMBINATION

Simplex

Plain, oil finished, made from forged steel; combines gas plier, wire cutter, wrench and screw driver.

NO.	Length	Wt. Doz.	DOZEN
1357-6	6 in.	6 lb.	$12.00
1357-8	8 in.	9 lb.	16.00
1357-10	10 in.	12 lb.	18.00

Nickel plated, otherwise same as No. 1357.

NO.	Length	Wt. Doz.	DOZEN
N1357-5	5 in.	5 lb.	$15.00
N1357-6	6 in.	6 lb.	15.00
N1357-8	8 in.	9 lb.	16.00

Cee Tee Co.'s

Nickel plated combination.

NO	Length	Wt. Doz.	DOZEN
CT6	6 in.	6 lb.	$9.00

BERNARD PLIERS

Cutting

Heavy pattern, crucible steel, nickel plated, open throat, parallel jaws.

NO.	Length	Wt. Doz.	DOZEN
102-4½	4½ in.	3½ lb.	$24.00
102-5½	5½ in.	6 lb.	30.00
102-6½	6½ in.	9½ lb.	36.00
102-8	8 in.	11½ lb.	42.00

TALKING MACHINES

MANOPHONES

MODEL B

Cases are of genuine 5-ply stock, ⅞ inch thick. Mahogany cases are of genuine mahogany veneer. Oak cases (reguardless of finish), are genuine quarter sawed oak veneer. Universal tone arm; plays Hill and Dale or Lateral cut records; twelve inch turntable; tone modifier; automatic stop; heavy double spring motor with bevel gear wind, can be wound while playing; shelf equipment for records. All metal parts highly nickel plated.

Height	47 inches
Width	20½ inches
Depth	22 inches

No.		List	Each
B-M	Mahogany	*$175 00*	216 90
B-GO	Golden Oak	*175 00*	216 90
B-FO	Fumed Oak	*175 00*	216 90

Well boxed; shipping weight each 144 lbs.

MODEL D

Cases are genuine veneer 5-ply stock, ⅞ inch thick. Mahogany cases are of genuine mahogany veneer. Oak cases (reguardless of finish), are of genuine quarter sawed oak veneer.

Universal tone arm; plays Hill and Dale or Lateral cut records; twelve inch turntable; tone modifier; automatic stop, strong double spring motor with bevel gear wind, can be wound while playing, and plays six 10 inch records with one winding; finest spring motor. Albums furnished for filing. All metal parts highly nickel plated.

Height	50 inches
Width	21⅛ inches
Depth	23½ inches

No.		List	Each
D-M	Mahogany	*$250 00*	315 90

Well boxed; shipping weight each 265 lbs.

TALKING MACHINES

MANOPHONES

MODEL F

Cases are of genuine mahogany veneered 5-ply stock, ⅞ inch thick; finest spring motor.

Equipped with special patented filing device, with four vertical files for twenty records each.

Universal tone arm; plays Hill and Dale or Lateral cut records; twelve inch turntable; tone modifier; heavy double spring motor; automatic stop. Motor can be wound while playing and plays six 10 inch records with one winding. All exposed metal parts heavily gold plated.

Height	51⅛ inches
Length	24⅛ inches
Depth	24¾ inches

Genuine Mahogany Veneered.

No.	F-M
List Price, Each	*$300 00*
Price, Each	✣486 00

Well boxed, shipping weight each 318 lbs.

MODEL L

Cases are of genuine mahogany veneered 5-ply stock, ⅞ inch thick.

Universal tone arm; plays Hill and Dale or Lateral cut records; twelve inch turntable; tone modifier; heavy double spring motor; automatic stop. Motor can be wound while playing and plays six 10 inch records with one winding. Five albums furnished with each machine for filing records. All exposed metal parts heavily gold plated.

Height	36 inches
Length	53½ inches
Depth	27½ inches

Genuine Mahogany Veneered.

No.	L-SM
List Price, Each	*$500 00*
Price, Each	✣648 00

Well boxed; shipping weight each 330 lbs.

✣F. O. B. Michigan Factory Only.

TALKING MACHINES

MANAPHONES

The Manaphone is designed to meet the demands of the most discriminative purchasers; a talking machine whose superior tone quality will instantly appeal to the ears of the most critical listeners possessing educated musical tastes.

It is manufactured by the same factory and the same skilled artisans who for 68 years have been makers of world famous Clough & Warren pianos. It was designed by experts having a knowledge of the finest principles of acoustics, resulting in a machine which, for beauty and fidelity of tone production is rivaled only by nature itself.

The Manophone is a finished article, an ornament to the most richly furnished homes. It is built by master workmen, educated to turn out only a first-class product. Plays all makes of records (without an extra attachment), with a pleasing interpretation heretofore unequaled.

Fig. 1

Fig 2

Figure 1 shows the position of the reproducer when set to play Lyric, Puritain, Victor and all other Lateral cut records.

Figure 2 shows the position of the reproducer when set to play Path, Edison and similar cut records.

MODEL M.

Waxed oak and Fumed oak or mahogany finish case.

Universal tone arm; plays Hill and Dale or Lateral cut records; twelve inch turntable; brake and speed regulator; heavy double spring worm gear motor, can be wound while playing. All metal parts highly nickel plated.

Height ..... 14½ inches.
Width ..... 18¼ inches.
Depth ..... 18¼ inches.

Nos.		List	Each
M-M	Mahogany	$70 00	97 50
M-WO	Waxed Oak	70 00	97 50
M-FO	Fumed Oak	70 00	97 50

One in a wood box; shipping weight each 52 lbs.

TALKING MACHINES

MANOPHONES

MODEL A A

Cases are of genuine veneered 5-ply stock, ⅞ inch thick.

Mahogany cases are of genuine mahogany veneer. Oak cases (reguardless of finish), are genuine quarter sawed, oak veneer. Universal tone arm, plays Hill and Dale or Lateral cut records; twelve inch turn table; tone modifier; heavy double spring motor, can be wound while playing; five shelves for record albums.

All metal parts highly nickel plated.

Height ..... 42½ inches
Width ..... 19 inches
Depth ..... 19 inches

Nos.		List	Each
AA-M	Mahogany	$120 00	148 65
AA-FO	Fumed Oak	120 00	148 65

Well boxed; shipping weight each 112 lbs.

MODEL A

Cases are of genuine veneered 5-ply stock, ⅞ inches thick. Mahogany cases are of genuine mahogany veneer. Oak cases (reguardless of finish), are of genuine quarter sawed oak veneer.

Universal tone arm; plays Hill and Dale or Lateral cut records; twelve inch turntable; tone modifier; automatic stop; heavy double spring motor, can be wound while playing; five shelves for record albums.

All metal parts highly nickel plated.

Height ..... 45 inches
Width ..... 19½ inches
Depth ..... 21 inches

No.		List	Each
A-M	Mahogany	$150 00	185 85
A-GO	Golden Oak	150 00	185 85

Well boxed; shipping weight each 138 lbs.

HUNTING KNIVES

Made from a special grade steel similar to that of the very best razor steel. Not the regular butcher knife steel. Hand forged, swaged and polished. Ground to a very sharp razor edge. Scored ebony handle. Fastened to blade with three large head brass rivets. The blade extends through the entire length of the handle.

No. 745—5 in. blade, full length 9¼ in., **without sheath** w't per doz. 3 lbs. .....per dozen **$13.50**

For Leather Sheath for No. 745 hunting knife, see No 955 sheath illustrated on this page.

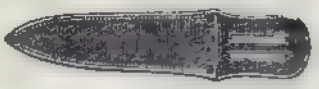
HALF DOZEN IN A BOX

No. 7803—Extra finish, finest quality, scored ebony handle, metal bolster, 6 in. polished and swaged blade, **without sheath** .....per dozen **$12.00**

For Leather Sheath for No. 7803 hunting knife, see No. 955 sheath illustrated on this page.

HALF DOZEN IN A BOX

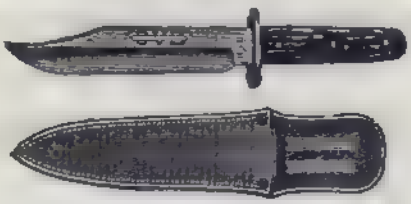
LEATHER SHEATHS FOR HUNTING KNIVES



Made of heavy Russet Leather, embossed front., strongly sewed., fitted with two copper rivets at the top thus affording the greatest strength where it is most required fitted with loops through which a belt may be slipped.

Nos.	955	956
For blades, in.	5 and 6	7 and 8
Full length, in.	9½	11
Per dozen	$6.00	6.00

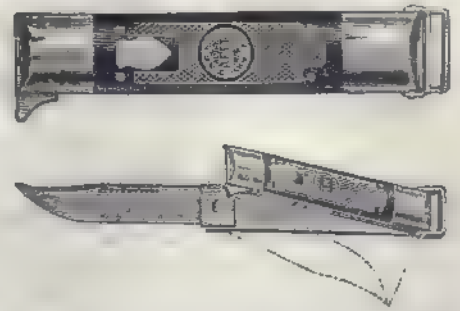
HUNTING KNIVES



Stag handles, nickeled silver guard, hand forged crucible steel blade, clip point, crocus polished, **leather sheath.**

Nos.	7374	7375	7376	7377	7378
Blades, in.	5	5	6	7	8
Per dozen	$44.00	49.50	54.50	60.00	66.00

HALF DOZEN IN A BOX



A slight pressure on the shield opens the knife, swings blade out into cutting position, close case or handle and you have a rigid knife that is ready for business.

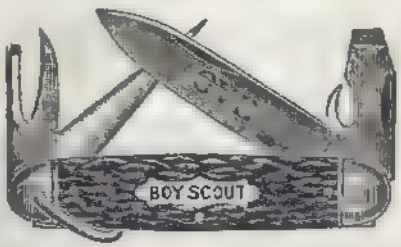
No torn thumb nails or sore fingers, no projections to catch or tear clothing.

Adaptable for every outdoor use. For hunting, fishing, camping, etc., it has no superior. Blades can be easily changed. Unconditionally warranted.

No. 961—Neft Safety Knife, made of the highest grade crucible steel, scientifically tempered and ground to a keen and lasting edge, length of blade 4¼ in., length of knife when closed 5½ in., scored hard rubber handle, large nickel silver bolsters with guard and toggle to attach to rope or key chain, small metal wrench for interchanging blades .....per dozen **$60.00**

HALF DOZEN IN A BOX

BOY SCOUT KNIVES



Brass lined, nickel silver shield large nickel silver shackle for attaching to belt.

No. 21—1 large blade, 1 Harrison punch, 1 can opener, 1 combination screw driver and bottle opener, polished stag handle, 3⅜ in. closed ....per dozen **$30.00**

No. 22—2 blades, polished ebony handle, 3½ in. closed .....per dozen **$16.00**

No. 2705P—1 large blade etched, **Boy Scouts of America,** 1 leather punch, 1 can opener, 1 combination screw driver and bottle opener, stag handle, nickel silver holsters, 3⅜ in. closed .....per dozen **$27.00**

ARMY KNIVES

No. 25—**Army,** 1 large spear point blade, 1 Harrison patent leather punch, 1 can opener blade, 1 combination screw driver and crown cap bottle opener blade, stag handle, brass lined with heavy steel center lining, nickel silver bolsters and nickel silver shield, stamped **Army Knife.** Nickel silver shackle for attaching to key chain or rope halyard, 3⅜ in. when closed, per doz. **$30.00**

HALF DOZEN IN A BOX

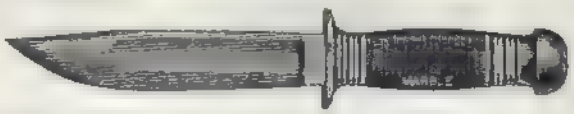
MARBLE'S HUNTING KNIVES

Marble's Hunting Knives are forged from Razor Steel, are hand tempered, tested and honed to a Keen edge. Each Knife is fully Guaranteed.

IDEAL HILT KNIVES

A combination of quality and excellent features of design and finish, that has won a world wide reputation.

The blade is adapted to sticking and skinning. It is oval ground at back of point for chopping bones and other hard substances.



Laminated Leather Handle, with colored hard fibre and brass washers. Has flush Aluminum tip. Complete in leather sheath.

No. 45—

Blade ins.	5	6
W't per dozen lbs.	6½	7½
Per dozen	$51.00	55.50

HALF DOZEN IN A BOX

Stag Horn Handle, with colored hard fibre, leather and brass washers. Has flush Aluminum tip. Complete in leather sheath.

No. 46—

Blade ins.	5	6
W't per dozen lbs.	6½	7½
Per dozen	$64.70	69.30

HALF DOZEN IN A BOX

CANOE KNIVES

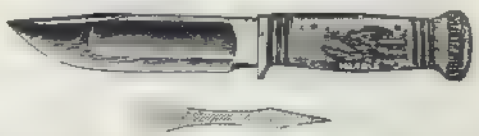
Some of the prominent canoeists of the Country requested a knife for their use. Marbles Canoe Knife has won their approval as it is "short and stout."

When sailing a Canoe or yacht, a short, keen sheath knife is a necessity for slashing rigging in case of sudden squall or Capsizing.

Liminated Leather Handle, with colored hard fibre and brass washers. Has flush Aluminum tip. Complete in leather sheath with point protector.

No. 51—4½ in. blade, weight per dozen 5 lbs., per dozen $46.20

HALF DOZEN IN A BOX



Stag Horn Handle, with colored hard fibre, leather and brass washers. Has flush Aluminum tip. Complete in leather sheath with point protector.

No. 52—4½ in. blade, weight per dozen 5 lbs., per dozen $60.00

HALF DOZEN IN A BOX

WOODCRAFT KNIVES

The desirable features of several knives embodies in one. Is adapted for Sticking, Skinning, Cleaning, Slicing Breaking bones etc.

The thick tapering bevel blade carries the strength from handle to point. Back of blade close to handle is checkered to give a firm grip with thumb and finger. The back of point is beveled for chopping, breaking bones, etc.

AN ALL PURPOSE WOODMANS KNIFE.

Laminated Leather Handle, with colored hard fibre and brass washers. Has flush Aluminum tip. Complete in leather sheath.

No. 49—4½ in. blade, weight per doz. 5 lbs., per dozen $41.60

HALF DOZEN IN A BOX

DALL DE WEESE PATTERN

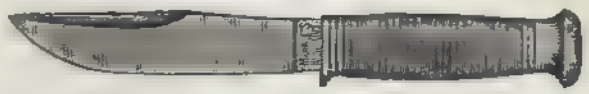
Designed by Dall DeWeese, for use on expedition after big game, where every item of the outfit has to be figured down to the lightest and most compact form. It has a dull saw back on which the thumb is placed when skinning or cutting hard substances. When sticking the little finger should be doubled up, letting the end of handle rest against it. This takes the place of a hilt.

Stag Horn Handle, with groove to fit finger. Complete in leather sheath with point protector.

No. 62—4 in. blade, weight per dozen 4 lbs., per dozen $37.00

HALF DOZEN IN A BOX

EXPERT KNIVES



Particularly designed to meet the requirements of the professional hunter, trapper and guide, who requires a thin, keen edge for dressing skins and furs.

The back of the blade is designed for scraping skins while on the forms.

Laminated Leather Handle, with colored hard fibre and brass washers. Has flush Aluminum tip. Complete in leather sheath with point protector.

No. 545—5 in. blade, weight per dozen 5 lbs., per dozen $46.20

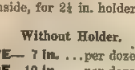
HALF DOZEN IN A BOX

ELECTRIC LIGHT SHADES

Deep cone, porcelain green outside, white inside, for 2¼ in. holder.

Without Holder.

No. 627E— 7 in. ...per dozen $12.60
No. 630E—10 in. ...per dozen 20.80



Deep cone tin, green outside white inside, standard for 2¼ in. holder.

No. 408E— 8 in. ....per dozen $4.70
No. 410E—10 in. ....per dozen 5.40
No. 412E—12 in. ....per dozen 12.00

Hubbell, deep cone tin, green outside, white inside, holder attached.

Per dozen.
No. 5440E— 8 in. ..per dozen $ 9.10
No. 5441E—10 in. ..per dozen 10.10

Diam. 6¾ in., height 3¾ in., for 60 watt lamp and less, equipped with snap on holder, aluminum frosted inside.

SOLID BRASS

Per dozen.
No. 1186E—Brush Brass, per dozen $18.90

No. 1185½E—"Hand" shade, green outside, aluminum frosted inside, 6 in. long, 3¾ in. wide, 1⅛ in. deep, with shade holder .....per dozen $9.00

ALL SHADES PACKED LOOSE

ELECTRIC LIGHT SHADES

Flat tin, silver plated glass mirror reflector, green outside, for 2¼ in. holder, without holder socket and bulb.

Throws powerful divergent light.

No. 1910E—10 in...per dozen $40.00
No. 1914E—14 in...per dozen 57.60

Opal, scalloped. For 2¼ in. holder.
No. 558E—6 in. ....per dozen $5.20

Flat flint. For 2¼ in. holder.
No. 610E—10 in. ..per dozen $8.00

For 3¼ in. Holder.
No. 614E—14 in. ..per dozen $16.00
No. 618E—16 in. ..per dozen 19.00

Deep cone, opal, crimped. For 2¼ in. holder.
No. 967E—7 in. ....per dozen $12.00

Flat, opal, crimped. For 2¼ in. holder.
No. 958E— 8 in. ....per dozen $6.00
No. 960E—10 in. ....per dozen 8.00

ALL SHADES PACKED LOOSE

REFLECTORS

"MOONSTONE DORIC"

Nos. V200E to 1202E.
HOLDERS NOT FURNISHED.

Moonstone Doric Reflectors are designed to give the highest possible efficiency where used in connection with light source of great brilliancy producing the best results for maximum of diffusion—minimum of glare—distribution of the fixtures, eye comfort, color of light.

The light transmitted by Moonstone Doric Reflectors is totally different compared to opal, opalescent, ground glass or prismatic shades. The Moonstone Doric Reflectors are free from shadows or dark spots when lighted. The entire surface is diffusive and of marble whiteness, soft and pleasing. Since the introduction of high efficiency light source oculists say eyestrain has largely increased. The Moonstone Doric Reflector will relieve the eyes. No other globe can compare with Moonstone for effective street illumination. Maximum of distribution and no shadows. Pure white free from sharp uncertain light rays and shadows.

No. 1213E

No. 1200E—Diam. 5 in., depth 3¼ in., fitter 2¼ in., for 25 watt lamps, per dozen $10.20
SIX DOZEN IN A BARREL

No. 1201E—Diam. 5¾ in., depth 4⅜ in., fitter 2¼ in., for 40 watt lamps, per dozen $9.20
FIVE DOZEN IN A BARREL

No. 1202E—Diam. 7¼ in., depth 4¾ in., fitter 2¼ in., for 60 watt lamps, per dozen $16.00
THREE AND ONE-HALF DOZEN IN A BARREL

No. 1213E—Diam. 11 in., depth 4½ in., fitter 2¼ in., for 100 watt lamps, per dozen $28.00
ONE AND ONE-HALF DOZEN IN A BARREL

Prices on Application

X-RAY REFLECTORS

X-Ray Reflectors are the most powerful reflectors made. They are of a high grade glass, heavily plated with pure silver which is protected by a special green backing which will not peel, crack or blister. It is because of this powerful reflecting quality that they are standard for show window lighting all over the world.

JUPITER

For 100 watt Mazda Type "C" gas-filled lamp.

The JUPITER is a powerful concentrating reflector which will perfectly illuminate windows whose height equals about twice their depth. It has similar dimensions to the JOVE reflector and uses the same shade holder. Hence, when used together alternated they make a neat appearance in the window. They are made as small as possible to secure proper results.

Install in windows 10 to 15 ft. high and one-half to two-thirds as deep.

No. 610E—Width 10 in., depth 10½ in., height including neck 7⅞ in., holder 8¼ in., form "A," each, reflector only $6.00

TWELVE IN A STANDARD PACKAGE
WEIGHT 35 LBS.

BEEHIVE

For 75 watt Mazda "C" lamp.

(Also may be used with 25, 40, 50 and 60 watt Mazda "B" lamps by using 2¼ in. form "O" holder).

A small distributing X-Ray reflector of pleasing lines, principally adapted for localized lighting, such as drop cord and bench lighting in shops, over counters and work tables, and for general illumination from comparatively low ceilings, as, for instance, bowling alleys, basements, store rooms and corridors.

No. 535E—Diam. 5⅝ in., 2¼ in. holder, form "H," height 5¼ in., each $2.00

TWENTY-FOUR IN A STANDARD PACKAGE. WT 18 LBS.

BEEHIVE

For 100 watt Mazda "C" lamp.

A popular reflector for the 100 watt Mazda "C" lamp. It effectively conceals the lamp and gives a broad light distribution. A special system of spiral and vertical corrugations produces a practically even and well distributed light, eliminating all streaky effects.

No. 570E—Diam. 7⅛ in., 3¼ in. holder, form "A," height 6¼ in., each, reflector only $3.50

SIXTEEN IN A STANDARD PACKAGE
WEIGHT 32 LBS.

Our reputation founded on over sixty-seven years' business stands back of the HHB brand.

All goods branded HHB are guaranteed to be of highest quality material and workmanship and free from imperfections.

In selling HHB articles there is a profit for you and satisfaction to your customers.

JOVE

For 100 watt Mazda Type "C" gas-filled lamp.

The JOVE is a scientifically correct window lighting reflector with high temperature backing, designed especially for use with a 100 watt Mazda "C" lamp. This reflector and lamp gives the highest intensity of uniform store window illumination ever produced with 100 watts. Its shape completely hides the intensely bright filament and the special corrugations properly break up and distribute the light.

The JOVE has been designed for windows of average proportions, those whose height is one to one and one-half times their depth.

No. 600E—Width 10 in., depth from front to back 9 1⅞₆ in., height including neck 7⅞ in., holder 3¼ in., form "A," each, reflector only $6.00

TWELVE IN A STANDARD PACKAGE
WEIGHT 35 LBS.

BEEHIVE

For 200 watt Mazda "C" lamp.

This reflector should be used for efficient, direct lighting of average, large working spaces. The spread of light from this reflector with a 200-watt Mazda "C" lamp will give good, general lighting in a space of 20 feet square at average hanging height.

No. 575E—Diam. 9⅜ in., 3¼ in. holder, form "A," height 8 in., each, reflector only $4.25

EIGHT IN A STANDARD PACKAGE
WEIGHT 14 LBS.

MOSSBERG SPECIAL WRENCHES FOR FORD CARS

TRIPLE END UTILITY WRENCH

A useful wrench for some very difficult adjustments and is a supplementary tool in larger sizes for unusual work.

Openings: 1 1/16, 1 5/16 in. hex.

Fits:

1 1/16 in. hex.

Battery cable terminal nut on floor board.
Battery clamp bolt nut.
Body bracket connecting bolts and nuts.
Brake shoe support bolt.
Fender eye bolt nut.
Front and rear spring hanger nut.
Hub flange bolt nuts.
Spindle body bolt with oiler.
Spindle connecting rod bolt nuts.
Spindle conecting rod bolt with oiler.

1/2 in. hex.

Front spring clip nut (1921).
Rear spring clip nut.
Spindle arm nut.

1 5/16 in. hex.

Crank case drain cup plug.
Differential housing oil plug.
Drive shaft castle nut.
Front spring perch nut.
Rear hub lock nut.
Spark plug (Champion X).

Construction—1/2 in. heavy steel bar.
Sockets—Specially drawn.
Length—10 1/2 in.
Finish—Burnished nickel.

No. 6539—676B—W't per set 9 1/2 lbs., each $1.70

SIX IN A CARTON

1/2 in. bar steel, 4 in. throw, heavy duty socket, 19 1/2 in. long, satin-nickel finish.

No. 6544—611—Socket opening 1 9/32 in., fits: Crank case nuts, cylinder head, manifold and intake nuts, cover or side plate, front fender bolts, steering post bracket nut, side light bracket nut, timer spring nut, engine base bolts and nuts, w't per doz. 22 lbs., per dozen $12.80

No. 6545—612—Socket opening 2 1/32 in., fits: Cylinder head cap screw, cylinder water intake and outlet connection, crank case front bearing screw, drive shaft roller bearing housing stud nuts, w't per doz. 22 lbs. .....per dozen $12.80

No. 6546—613—Socket opening 1 1/64 in., fits: Lower crank case nuts, differential drive gear screws, dash bracket bolts and nuts, steering post bolts and nuts, horn bolts and nuts, coil box nuts, rear axle housing bolts and nuts, w't per doz. 22 lbs., per dozen $12.00

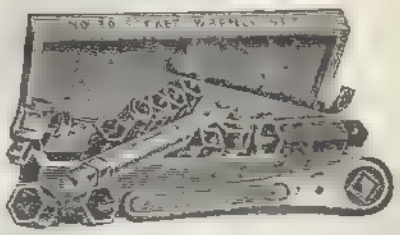
HALF DOZEN IN A BOX

Carry a line of goods upon which you can rely.

The dealer who carries H. S. B. & Co. Brands marks his store as a place where the better goods are sold.

A house with over sixty-seven years' experience stands back of our brands.

"UNIVERSAL" SOCKET SET



The set sells in greatest quantity with least selling resistance of any set.

For a low price, it offers nearly all adjustments that the average owner ever needs to make, without disassembling the car.

Contains:

No. 355 ratchet handle, 8 in. long, No. 351 extension, 10 in. long, No. 336 Universal joint, No. 101 offset screwdriver. 10 guaranteed sockets.

No.	Socket Size Hex.	U. S. Stand. Bolts & Nuts	Fitting S. A. E. Screws	Hex. Head Cap Screws
115	7/16	..	1/2	1/2
117T	1/2	1/2	9/16	9/16
119T	9/16	..	5/8	5/8
121	5/8	..	11/16	11/16
123	1 1/16	5/8	..	..
125	3/4	..	3/4	3/4
129	7/8	3/4	13/16	5/8
131	1 5/16	..	7/8	..

No.	Socket Size Square	Square Head Set Screw	Square Head Coach Screw	Square Head Cap Screw
169	9/16	9/16	5/8	7/16

Also one 4 in. 3 1/32 in. spark plug socket fitting all plugs made for Fords.

Fits: 84 possible adjustments on Fords.

Finish: Nos. 355, 351 and 336 burnished nickel, No. 101 oil black, sockets mottled.

No. 6536—30—W't per set 4 1/2 lbs., per set $6.60

ONE SET IN A CABINET

MOSSBERG SPECIAL TOOLS FOR FORD CARS

CONNECTING ROD WRENCHES

After removing the pan underneath the engine of a FORD, the three front connecting rods are fairly easy to adjust. The fourth is back from the opening (working from under the car as you must) a special wrench is necessary to adjust this No. 4 connecting rod.

No. 6482—623—Hardened steel, satin-nickel finish, w't each 1 lb. .....each $0.60

WRENCHES

TRIPLE END SOCKET

For Fords.

The large socket on the double-end gives high powered leverage to start or tighten cylinder head nuts. The single-end socket "twirls" these nuts rapidly after they are loosened. The small socket on the double-end is tapered to fit nuts on rear axle housing; no other wrench will carry these nuts.

No. 6541—630—Steel, satin-nickel finish, w't each 1 lb., each $0.90

REVERSE AND BRAKE PEDAL TENSION

No. 6542—645—Special steel, satin-nickel finish, w't each 12 oz. .....each $0.70

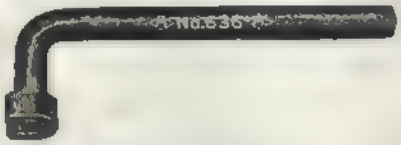
SPARK PLUG

Wrench to fit spark plugs on Ford cars. Satin-nickel finish. Duplicate of Ford No. 2335.

No. 6476—635—Length 10 in., w't per doz. 6 lbs., per dozen $13.60

HALF DOZEN IN A CARTON

FLY WHEEL CAP SCREW WRENCH



The man who has ever adjusted the cap screws on the fly wheel of a Ford car will appreciate the new wrench designed just for this work. The idea of the construction is that it is especially sturdy and strong, and yet clearance of all obstruction is given.

A look at the wrench tells the story better than words.

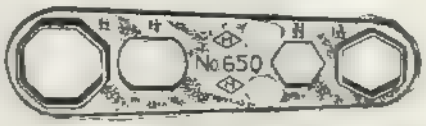
Thoroughly hardened and guaranteed.

Made of steel, $^{23}/_{32}$ in. socket, length 9¼ in., satin-nickel finish, especially designed for fly wheel cap screw body bolts and spring hanger nuts.

No. 6543—636—W't each 1 lb. .....each $1.50

HALF DOZEN IN A CARTON

HUB CAP WRENCH



No. 6499—650—Stamped from steel, satin-nickel finish, w't per doz., 5 lbs. .....each $0.25

ONE DOZEN IN A CARTON

REVERSIBLE RATCHET SOCKET WRENCH FOR CONNECTING RODS

Perhaps the most awkward adjustment on a Ford is that of the No. 4 connecting rod.

The use of the new reversible ratchet wrench shaped especially to reach up and over the edge of the pan and on the nuts of the connecting rods, means that you will not have to remove the wrench after you once fit it to the nuts. This surely means speed and time saved.

No. 6483—624—11¼ in. long, hardened, socket opening, $^{41}/_{64}$ in., for use on other $^{7}/_{16}$ in. screws, w't each 1¼ lbs. .....each $3.40

LOOSE

NEW HAVEN ENAMELED ALARM CLOCKS

DURABLY ENAMELED in White, Blue, Pink and Lavender. Can be kept CLEAN AND BRIGHT by wiping with a damp cloth. Trimmings Heavily Nickeled. Seamless Cases of Solid Brass

One day, alarming intermittently for five minutes in 20-seconds intervals. Have silent switch.

No. 810, per doz. $57.60 No. 811, per doz. $57.60

No. 812, per doz. $57.60 No. 813, per doz. $57.60

Height, 3¼ inches dial 2 inches—**JUNIOR TATTOO**—The smallest practical alarm clock made

No. 814, per doz. $57.60 No. 815, per doz. $57.60

No. 816, per doz. $57.60 No. 817, per doz. $57.60

Height, 4¼ inches; dial, 2 inches—**CIRCLE**—A unique, globe shaped design

No. 818, per doz. $58.80 No. 819, per doz. $58.80

No. 820, per doz. $58.80 No. 821, per doz. $58.80

Height, 4 inches dial, 2¾ inches—**BROWNIE**—A little alarm clock of special design

NEW HAVEN ENAMELED ALARM CLOCKS

DURABLY ENAMELED in White, Blue, Pink and Lavender Can be kept CLEAN AND BRIGHT by wiping with a damp cloth. Trimmings Heavily Nickeled Seamless Cases of Solid Brass

No. 802, per doz. $42.00 No. 803, per doz. $42.00 No. 804, per doz. $42.00 No. 805, per doz. $42.00

Height 5¼ inches dial, 3¾ inches, convex glass—**SLUMBER STOPPER** One-day alarm Has silent switch on top

No. 806, per doz. $28.80 No. 807, per doz. $28.80 No. 808, per doz. $28.80 No. 809, per doz. $28.80

Height, 6½ inches; dial, 4 inches—JUMP—One-day alarm, with shut-off switch

PRIEST'S HORSE CLIPPING MACHINES

HAND POWER

These machines are constructed throughout of the highest grade materials; are reliable, noiseless and durable. Have Priest's flexible shaft, made up of a series of universal steel joints, impossible to kink. All parts are made to gauge from perfectly tempered steel and are interchangeable.

Beltless

A balanced arm beltless machine, with cut gears and steel frame. Main gear drive is encased and runs in oil. Complete with cutting handle and one extra set of 3-inch cutters.

NO.	Weight Each	EACH
40	100 lb.	$50.00

Belt Driven

A balanced arm, belt driven machine; 28-in. ball-bearing balance wheel and ball-bearing gear head. Heavy frame, well balanced, noiseless and easy running. Complete with 4½-foot flexible shaft, cutting handle and one extra set of cutters.

NO.	Weight Each	EACH
10	145 lb.	$60.00

MACHINE POWER

Constructed in the most approved style, of highest grade materials; have cut gears; are strong, durable, light-running and noiseless. The balanced arm takes the weight of the shaft from the hand and arm of the operator. Freedom of movement and a large range is obtained with a short shaft. One-half horsepower required for clipping; 1¼ horsepower for grooming.

Single Clipper

For one operator; not recommended for use with grooming attachment, as there is no provision for reversing the brush, but can be used by holding the brush upside down. Complete with extra set of 3-inch cutters, countershaft and all overhead work. No motor, driving pulley, flat belting or grooming attachment.

NO.	Weight Each	EACH
78	175 lb.	$140.00

Double Clipper

For two operators. Made extra heavy, with long bearings and self-oiling boxes. Complete with two extra sets of 3-inch cutters, countershaft and all overhead work for two shafts. No motor, driving pulleys or flat belting. Grooming attachment extra.

NO.	Weight Each	EACH
7D	315 lb.	$220 00

PRIEST'S CLIPPING MACHINE PARTS

CUTTING HANDLE—ASSEMBLED

No. 40

No. 10

NO.	Cutter	Wgt. Each	EACH
40	3 in.	— lb.	$12.00

PARTS

NO.	Part	EACH	NO.	Part	EACH
40H	-Handle only	$6.00	40T	-Top Plate	$2.00
40C	—Cutter only	6.00	40B	—Bottom Plate	3.00

VIBRATING HANDLE—ASSEMBLED

NO.	Cutter	Wgt. Each	EACH
10-4	4 in.	— lb.	$32 00
10-3	3 in.	— lb	30.00

PARTS

NO.	Part	EACH	NO.	Part	EACH
10-H	—Hdle. only	$24 00	10-ST	-3-in.Top Pl.	$2.00
10-4C	—4 in. Cutter	8.00	10-3B	-3-in.Bot.Pl.	3.00
10-3C	—3 in. Cutter	6.00			

VIBRATING HANDLE—ASSEMBLED

NO.	Cutter	Wgt. Each	EACH
15-3	3 in.	— lb.	$12.00
15-4	4 in.	— lb.	14 00

PARTS

NO.	Part	EACH	NO.	Part	EACH
15H	—Handle only	$6.00	938	—Bodies	$2.50
15-4C	—4-in. Cutter	8 00	939	—Shafts	2.50
15-3C	—3-in. Cutter	6 00	940	—Nuts	1.00
15-4T	—4-in.Top Pl.	3.00	941	—Washers	.30
15-3T	—3-in.Top Pl.	2.00	942	—Hd.Shaft Wash.	.50
15-4B	—4-in.Bot.Pl.	4.50	943	—Roll	.50
15-3B	—3-in.Bot.Pl.	3 00	944	—Studs	.50
840	—Guide Bolts	.15	842	—Pressure Plates	.50
841	—Coil Springs	.15	838	—Guide Bolt Nuts	.15
948	—Handle Screws	.15	806	—Top Plate Scr.	.15
			807	—Bot. Plate Scr.	.15

GROOMING ATTACHMENT—ASSEMBLED

For use on Priest's Power Machines. When used with No. 7D the flat belt from countershaft to yoke should be crossed to give the proper direction.

NO.	Brush	Wgt. Each	EACH
08	3½x6 in.	1½ lb.	$14.00
08B	Extra Brushes		9.00

FLEXIBLE SHAFTS

NO.	For Machine	Wgt. Each	EACH
12F	No. 12 Hand	4½ lb.	$10 00
7SF	No. 7S Power	— lb.	20.00
7DF	No. 7D Power	— lb	20.00

SHAFT CASES

NO.	For Machine	Wgt. Each	EACH
12S	No. 12 Hand	— lb.	$ 6.50
7SS	No. 7S Power	— lb	10.00
7DS	No. 7D Power	— lb	10.00

PARTS

NO.	Part	EACH	NO.	Part	EACH
11	Quill	$2 00	17	Female Links	$0.15
12	Sleeve	1.00	18	Male Links	.15
13	Hooks	.80	14	Link Rivets Dz.	.20
15	Interpieces	.15	16	Interp. Riv. Dz.	20
10	Thumb screw for quill			Each	.40
081	Side links, old style shaft			Each	.10
082	Interpieces, old style shaft			Each	.15
088	Rivets, old style shaft			Doz.	20

PULLEY HEAD AND PARTS

NO.	Part	EACH
1	—Frame	$6.00
2	—Nut	1.50
3	Cup	4.00
4	—Pulley	2.00
5	Bottom Shaft	3.00
6	—Top	3.00
7	—Block	2.00
8	—Head, Complete	20.00
9	—End of Balance Arm	1.50
10	—Blind Set Screws for No. 5	.50
11D	—Drive Pulley for Round Belt	4.00
12B	—Belts	1.75

Prices on Application

RESIDENCE TYPE LOCAL BATTERY TELEPHONES

No. 21 telephone is offered to meet the demand for a small, neat telephone for residence use where the batteries can be placed in some out of the way place, equipped with standard parts as furnished with larger telephones, each of highest efficiency and dependable in every respect. Oak Cabinet is of neat design and attractive finish. This instrument will operate in conjunction with other standard telephones and can be furnished in any combination of generator and ringer.

No. F214E—Bridging, 3-bar generator, 500 ohm ringer★ ..each $30.00

No. F219E—Bridging, 5-bar generator, 1600 ohm ringer, each★ $32.25

No. F2110E—Bridging, 5-bar generator, 2500 ohm ringer, each★ $33.00

SHIPPING WEIGHT PACKED, ABOUT 22 LBS.

COMBINATION TELEPHONE AND SWITCH BOARD

Cabinet is of similar design and size to the REVERE compact style Telephone, but the battery space is equipped with drops and jacks of the express type, and a hand microphone for operator's set. This combination instrument makes an exceptionally practical and economical outfit for handling a number of lines for rural districts.

Can be made with any number of drops up to fifteen.

Shipping w't approximately 60 lbs.

No. F85E—5 line, combination telephone and switchboard, each★ .....$.....

SWITCHBOARDS EQUIPMENT

The drops are of the unit or individual type, which permits any number being installed up to the full capacity of the board, thus no unnecessary amount of money need be tied up in equipment to take care of future requirements. Additional drops can be easily installed, one or more at a time. The construction of this type is very simple, there being few parts with each of ample size and strength to assure long life and freedom from break downs or trouble. They are arranged for use with both grounded and metallic lines.

The regular equipment of these boards consists of complete operator's, set either with a breast-plate transmitter or suspended type with supporting arm, operator's watch-case receiver with head-band, connecting cord, operator's plug, cord and jack, induction coil, a powerful hand generator, hand and power generator switching key, a buzzer in the generator circuit, and complete night bell circuit with switching key.

Boards are furnished with cable, also with necessary batteries for operator's equipment and night bell circuit if so specified on order.

Cabinets are made of quarter-sawed oak, substantially built and attractively finished—furnished for one or more operator's positions.

CABINET

Express switchboards are made up in various styles and sizes of cabinets.

We recommend the purchase of boards with sufficient capacity to cover possible future growth.

No. F11E—Fifty line unit, with the unit type of drop and jack, also individual cord circuits, it is possible to install in one of these cabnets any equipment to suit individual needs, w't 275 lbs.★ .....each $.....

SWITCHBOARDS

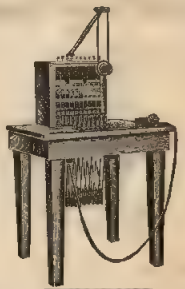
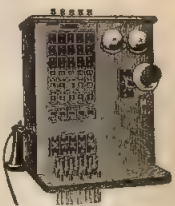


TABLE BOARD

Exceedingly popular for private exchange work, such as for hotels, hospitals, public buildings, etc. They are also adaptable for toll line work. The same type of apparatus are used in these as in the larger floor type switchboards, together with the convenience of a desk. These cabinets can be furnished with any special wiring required, or with any apparatus needed to meet particular local conditions.

No. F70E—W't 125 lbs.★ ..each $....



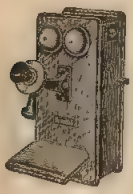
COMBINATION

No. F77E—In a wall type switchboard with a capacity for 30 lines the No. 77 cabinet is built along practical lines—this is equipped with same style drops and jacks as the floor type boards, although single lever keys are used in the cord circuits, simplifying the equipment. Standard telephone apparatus installed in the same cabinet furnishes the operator's equipment. This board is provided with clear-out drops, night bell circuit and is in every way well adapted for the handling of a small exchange where the number of lines will not eventually exceed thirty★ .....each $.....

★ Items Marked Thus ★ Are Shipped From Factory Only.

TELEPHONES

REV-O-NOC COMPACT MAGNETO TYPE



No. F7308E REV-O-NOC—Bridging, 3-bar generator, 500 ohm ringer, each★ $30.00

No. F7516E REV-O-NOC—Bridging, 5-bar generator, 1600 ohm ringer, each★ $32.00

No. F7520E REV-O-NOC—Bridging, 5-bar generator, 2500 ohm ringer, each★ $32.50

PACKED ONE IN A BOX. SHIPPING WEIGHT ABOUT 15 LBS.

This wall telephone is made with enclosed gongs, a new arrangement of parts permitting a smaller and neater cabinet. 3 in. gongs are mounted inside of the cabinet. Slotted plates on each side of the cabinet permit the ringing of the bells being distinctly audible.

Series telephones are no longer recommended. When it is only a short distance, or for town service, not over five telephones to the line we recommend the No. 7308E.

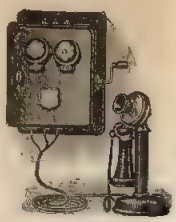
Five bar bridging telephones are for use on country lines, with over five telephones on the same circuit. In ordering instruments for a system of this kind the capacity of generator and ringer should be the same as the other telephones on the same circuit.

Cabinets of REV-O-NOC Telephones are made of quarter-sawed oak, highly polished and finished, and each instrument is equipped with powerful generator, adjustable ringer movement, bi-polar receiver, lightning arrester, long distance transmitter mounted on adjustable arm.

Batteries are not included, but space is left in the bottom of cabinet.

Telephones equipped with condensers 75c extra net.

REV-O-NOC MAGNETO DESK SETS



No. F113E REV-O-NOC—Bridging 3-bar generator, 500 ohm ringer, each★ $34.50

No. F114E REV-O-NOC—Bridging, 4-bar generator, 1600 ohm ringer, each★ $36.00

No. F115 REV-O-NOC—Bridging, 5-bar generator, 1600 ohm ringer, each★ $34.70

PACKED ONE IN A BOX. SHIPPING WEIGHT ABOUT 20 LBS.

Telephone is metal, black enameled, very strong and serviceable. In these two piece telephones the generator, ringer movement and terminal block are mounted in one cabinet 6¾ in. wide, 9¾ in. high, 7 in. thick, quarter-sawed oak highly polished and finished. The induction coil is mounted in base of telephone.

Batteries and lightning arrester are not included.

H.S.B. & CO. REV-O-NOC

We Stand Behind Our Brand.

PORTABLE TELEPHONES

Also used as a testing set in locating trouble.

No. F423E—4-bar generator, 1600 ohm ringer, watch case receiver, in oak case with steel front and back plates 8x10½x7¾ in. collapsible handle, batteries not included but space provided for them, w't 12 lbs., each .....$.....

MINE TELEPHONES

These instruments are for mines, mills, police and railway systems, and any exposed use, and are enclosed in cast iron box 15½ in. high, 12¾ in. wide, 10⅜ in. deep. Working parts protected by iron shield. Door has rubber gasket. Box can be locked with padlock when not in use.

Telephones are equipped with transmitter, rubber shell receiver. Space is provided for two dry batteries. Batteries and arrester are not included.

Telephones of different capacity ringer and generator can be supplied. Prices on application.

No. F995E—5-bar generator, 1600 ohm ringer★ .....each $.....

PACKED ONE IN A BOX. SHIPPING WEIGHT ABOUT 70 LBS.

★ Items Marked Thus ★ Are Shipped From Factory Only.

Powerful Twin-Screw Shallow-Draught Tug

BUILT BY

Telegrams / *Adresse télégraphique* / Telegramas } "YARROW, GLASGOW"

YARROW & CO., LTD., GLASGOW (Formerly of Poplar, LONDON).

PUISSANT REMORQUEUR À DOUBLE HÉLICE ET À FAIBLE TIRANT D'EAU.
Construit par YARROW & CO., LTD., GLASGOW (anciennement de Poplar, LONDRES)
REMOLCADOR POTENTE DE POCO CALADO, DE DOBLE HÉLICE
Construido por YARROW & CO., LTD., de GLASGOW, Escocia (previamente de Poplar, LONDRES)

YARROWS, Limited, of Victoria, British Columbia, Shipbuilders, Ship Repairers and Engineers, are associated with YARROW & Co., Ltd., GLASGOW.

MM. YARROWS, Limited, de Victoria (Colombie Britannique), Ingénieurs-constructeurs et réparateurs de bateaux, sont associés avec MM. YARROW & Co., Ltd., de GLASGOW.

La casa YARROWS Ltd. de Victoria, [illegible] de la Britán[illegible] Columbia, [illegible] de obra en [illegible] é ingen[illegible] [illegible] de la Casa YARROW Ltd., de [illegible] GOW.

The above represents a twin-screw Shallow Draught Tug, length 80 ft., beam 14 ft. 6 ins., draught 22 ins., propelled by screws working in tunnels fitted with YARROW'S PATENT HINGED FLAP, by means of which considerable increase of speed is secured without additional power or cost, and the maximum efficiency under all conditions of load is obtained.

(PE.

La fig. ci-dessus représente un Remorqueur à double hélice et à faible tirant d'eau (longueur, 25 mètres, largeur, 4,40 m.; tirant d'eau, 56 cm.) mû par hélices protégées par des tubes munis du VOLET BREVETÉ "YARROW" à CHARNIÈRES qui permettent d'obtenir une augmentation considérable de vitesse sans dépense additionnelle de force motrice, ainsi qu'un maximum de rendement avec charges quelconques.

[illegible] grabado [illegible] representa un remolcador [illegible] de doble hélice, estará [illegible] 25 metros [illegible] [illegible] SON [illegible] [illegible] acondicionado en tuneles equipados con [illegible] YARROW [illegible] [illegible] [illegible] engranar a gran [illegible] velocidad un necesario [illegible] [illegible] [illegible]

Telegrams: *Adresse télégraphique*. Telegramas: **"YARROW, GLASGOW."**

STERN-WHEEL STEAMER

VAPEUR À ROUES-ARRIÈRE

VAPOR Á RUEDA DE POPA

BUILT BY

YARROW & CO., LTD., GLASGOW

(Formerly of Poplar, LONDON).

YARROWS, Limited, of Victoria, British Columbia, Shipbuilders, Ship Repairers and Engineers, are associated with YARROW & Co., Ltd., GLASGOW.

YARROWS, Limited, de Victoria (Colombie Britannique), Ingénieurs-constructeurs et réparateurs de bateaux, sont associés avec YARROW & Co., Ltd., de GLASGOW.

La Casa YARROWS, Limited, de Victoria, Colombia Británica, Constructores navales y Reparación de Buques [illegible] se halla asociada con la Casa YARROWS, Ltd., de GLASGOW.

(20)

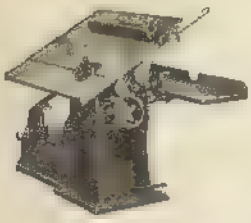
The above represents a Shallow-Draught Stern-Wheel Steamer.
Length, 130 feet. Beam, 31 feet. Draught, 3 feet when carrying 110 tons.

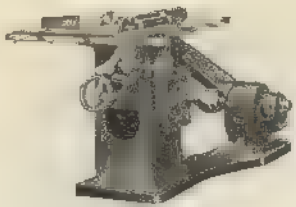
Messrs. YARROW construct fast Passenger and Commercial Vessels, Shallow-Draught Steamers, Tugs, etc., propelled by Stern Wheels, Side Wheels or Screws working in Tunnels fitted with Yarrow's Patent Hinged Flap.

La fig. ci-dessus représente un vapeur à roue arrière et à faible tirant d'eau
Longueur [illegible] m. Largeur, 9,45. Tirant d'eau 0,9 m. avec chargement de 110 tonnes.
Les [illegible] YARROW [illegible] pour passagers et marchandises, remorqueurs, etc., à faible tirant d'eau, à roue de derrière, à roues latérales ou à hélices [illegible] du volet breveté Yarrow.

El grabado de arriba representa un vapor con rueda á popa para navegación de poco calado
Eslora, 39,65 m. Mango, 9,45 m. Calado 0,9 m. cuando conduce 110 toneladas.
La Casa YARROWS construye barcos rápidos para pasajeros y mercantes, vapores de poco calado, remolcadores, barcos, accionados por ruedas de popa laterales o con hélices [illegible] túneles equipados con aleta engoznada, patente "Yarrow."

CRESCENT WOOD WORKING MACHINERY


No. 2 Combination Saw Table


No. 2 Saw Table Motor Driven

No. 5 Saw Table Motor Driven

No. 3 Universal Saw Table

20-inch Band Saw

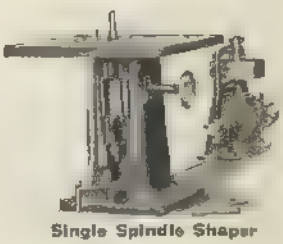
26-inch Band Saw Motor Driven

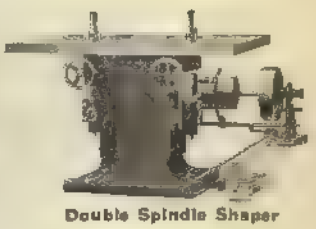
Swing Cut-Off Saw

Hollow Chisel Mortiser

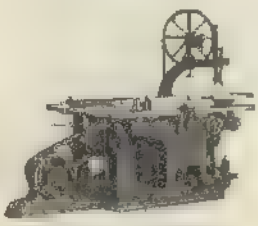
Post Borer

Universal Borer


Single Spindle Shaper


Double Spindle Shaper

Universal Wood Worker


Universal Wood Worker Motor Driven

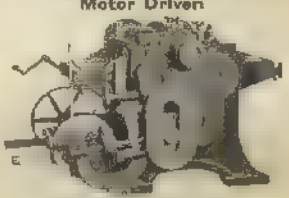
Variety Wood Worker

Variety Wood Worker Motor Driven

Variable Feed Planer

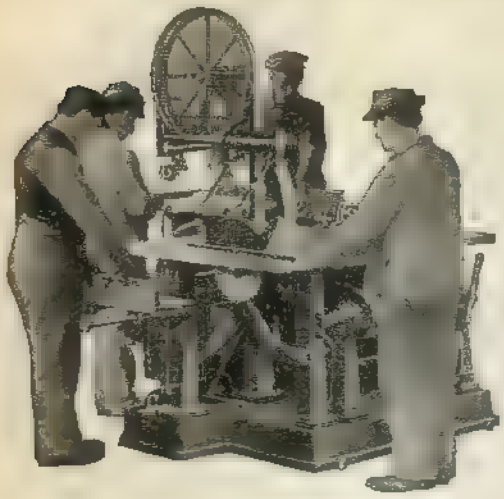
Variable Feed Planer and Matcher

Variable Feed Surfacer


Variable Feed Surfacer Motor Driven

Special Note We are prepared to furnish, upon request a special catalog showing large illustrations and detail descriptions of the above line of wood working machines, and a great many other machines which space will not permit us to show here. Parties wanting quotations should state what particular machines are being considered, and net prices will then be quoted. This secures to the buyer the lowest net price in effect at time of purchase.

CRESCENT UNIVERSAL WOOD WORKERS



Not a combination machine, but a combination of machines composed of five units proper, viz., a band saw, a jointer, a shaper, a saw table, and borer. Each unit having the conveniences of an individual machine. By use of special attachments the machine is adaptable as a re-saw, hand feed molder, tennoner, panel raiser, pole rounder, disk grinder, knife grinder, plain grinder and hollow chisel mortiser. Each machine arranged to give an easy and natural position to operator, and material being worked is handled as conveniently as with separate machines. All driven by one main belt from line shaft, and each machine is started and stopped independently with its own lever. One or all of the machines may be used at the same time, but it is not necessary to run all machines in order to use one. Machines are all heavily constructed along the general lines of the individual machines, and mounted on a heavy single cast base which insures alignment and eliminates vibration. Heavy swivel casters under frame raise entire machine with set screws which act as jacks, making it portable; when set screws are released the machine rests securely on its base.

We would be pleased to furnish special catalog illustrating and describing this combination of machines in a very comprehensive manner, together with detailed information regarding full line of equipment for wood working shops and planing mills.

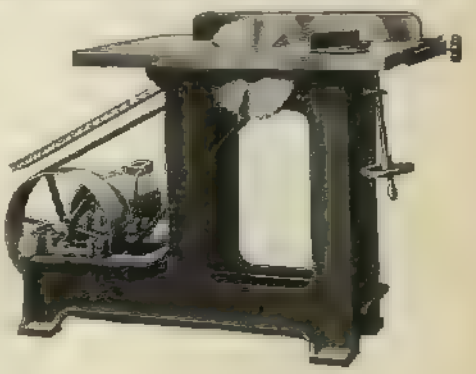
DIMENSIONS OF REGULAR MACHINES

	No. 51	No. 52	No. 53	No. 54	No. 55	No. 56	No. 57	No. 58	No. 59
Size of jointer, ins	8	8	8	12	12	12	16	16	16
Size of band-saw, ins	26	32	none	26	32	none	26	32	none
Floor space, over all, ins	75x80	83x80	68x80	75x86	83x86	68x86	75x90	83x90	69x90
Floor space when borer is removed, ins	75x63	83x63	68x63	75x68	83x68	68x68	75x73	83x73	68x73
Height, over all, ins	78	87	42	78	87	42	78	87	42
Size main drive pulley, ins	10x6	10x6	10x6	10x6	10x6	10x6	10x6	10x6	10x6
Speed main pulley, RPM	1120	1120	1120	1120	1120	1120	1120	1120	1120
Shipping weight, lbs	3200	3300	2900	3325	3425	3025	3450	3550	3150
Each	$970 00	1050 00	775 00	1015 00	1080 00	825 00	1055 00	1115 00	910 00

NO. 1 CRESCENT SAW TABLES

The frame is cast in one piece, insuring a rigid machine free from vibration. The countershaft and shifter are mounted on rear of bed, making the machine self contained and ready for business wherever set. The countershaft has adjustable bearings to tighten belt whenever necessary, and this admits the use of an endless belt, a very desirable feature. The ripping fence will tilt to any angle to 45 degrees for bevel sawing. It opens 19 inches from the saw, and a scale is provided showing width to be ripped. The cut-off fence adjusts for any angle. The table is of cast iron, 30x38. It is hinged at back and has wooden throat piece to suit for grooving. The mandrel is made of steel, having collar and pulley shrunk on. The bearings are 1¼ inches in diameter 4 inches long. The "stub" of the mandrel is 1 inch diameter, will take a groove head 2 inches wide between tight collar and nut. Saws up to 14 inches may be used. A 12-inch saw will saw through a piece 2½ inches thick.

Dimensions—	
Size of table (iron)	30x38 inches
Size of mandrel hole for saw	1 inch
Size of tight and loose pulleys	10x5 inches
Speed of countershaft	650 revolutions
Speed of saw	3000 revolutions
Size of pulley	3½x4½ inches
Floor space, over all	38x58 inches
Power required	3 to 4 horsepower
Shipping weight	750 pounds
Each	$275 00

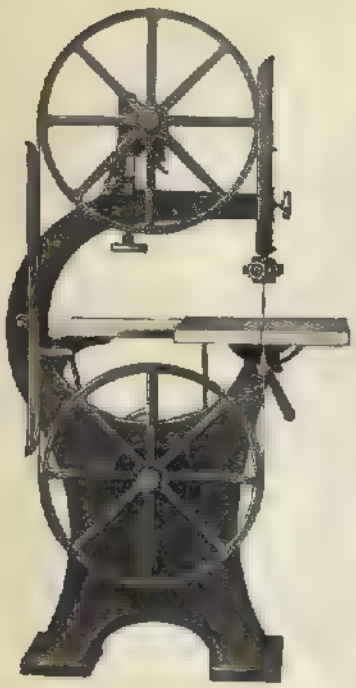


Regular equipment: With each machine is furnished one 12-inch saw, one endless leather belt from countershaft to mandrel, one ripping-fence, one cut-off fence and one mandrel wrench.

Write for special catalog showing complete line of Crescent Woodworking Machinery, upon which we will be pleased to quote you prices at any time. Crated. First class freight.

F. O. B. Leetonia, Ohio. First class freight.

CRESCENT BAND SAWS



The following general description applies to all sizes of Crescent Band Saws, except the 20-inch. Owing to its smaller size this machine is somewhat different in construction, having a special upper bearing arrangement; in other respects it is practically the same as the larger machines.

Main Frames are cast in one piece, cored out hollow rectangular section; foot portion arched, allowing machine to set firmly on even floors. **The Upper Bearing** arrangement, the vital part of a band saw, because the upper wheel plus the tension of the saw hangs upon it, is described in detail below. The wheel may be raised or lowered and inclined backward or forward while the saw is in motion. The tilting wrench is within easy reach of operator from front of machine. Spring holds bearing in proper position, preventing back-lash in case saw should break. Upright standard upon which head slide is bolted to arm portion of frame on machined surfaces, and provided with steel gib adjustable for wear, all easily removable for repairs. Upright standard stands edgewise to the strain. Upper wheel not fastened in the ordinary way on stationary pin, like a loose pulley, but is hung on long shaft which revolves in long split babbitted journal and is readily adjustable for wear. Lower shaft runs in long bearing bolted rigidly to frame, and cannot get out of alignment.

We have a large special catalog showing in detail the above band saws and a complete line of woodworking and planing mill machinery which we would be pleased to furnish upon request.

DIMENSIONS OF 20, 26, 32 AND 36-INCH SAWS

	20-Inch	26-Inch	32-Inch	36-Inch
Size of wheels	20x1¾ in	26x1¾ in	32x1¾ in	36x2 in
Distance clear from saw to frame	20 in	26 in	32 in	36 in
Height clear under guide, when raised	7 in.	9 in.	13 in	16 in
Size of table (iron)	18x22 in.	20x24 in	24x28 in	28x32 in.
Size of tight and loose pulleys	7x3 in.	10x3 in.	12x3½ in	12x4 in
Speed, revolutions per minute	400 to 450	400 to 450	400 to 450	400 to 450
Length of saw blade	10 ft 1 in.	13 ft 9 in.	16 ft 4 in.	18 ft 6 in.
Height, over all	67 in.	78 in.	86 in.	92 in.
Floor space required, over all	20x30 in.	30x40 in.	35x50 in.	39x57 in.
Power required	½ to 1 h.p.	1 to 1½ h.p.	1 to 2 h.p.	2 to 3 h.p.
Shipping weight	335 lbs.	700 lbs.	950 lbs.	1200 lbs.
Each	$120.00	$195.00	$250.00	$315.00

F. O. B. Leetonia, Ohio. First Class Freight.

NARROW BAND SAWS

Width Inches	Standard Gauge	Teeth per Inch	Wgt. per 100 Ft. Lbs.	Per Foot
⅜	23	8	1 05	$0 13
½	23	7	1 57	13
⅝	22	6	2 15	13
¾	22	5-2	3 52	14
⅞	21	5	5 36	18
1	21	4½	6 70	16
1¼	21	4	8 05	18

Note Prices as given do not include joining, setting or filing. Narrow band saws with beveled backs advance list 50 per cent for first gauge and 10 per cent for each additional gauge. For band saws with knife edge add 10 cents per foot to list. We make a specialty of band saws in coils, any length desired.

BRAZING BAND SAW BLADES

¼ to ½ inch wide ..... Per braze $0 40
⅝ to ¾ inch wide ..... Per braze .50

CRESCENT JOINTERS

Solid one-piece frame; wide, arched base, which insures rigidity and stability. Bearings are given special care; the lower part is cast solid with frame, insuring permanent alignment; bushed with high-speed babbitt; provided with liners to adjust for wear; large oil chamber and capillary felt, practically self oiling. Tables have wide flanges and are heavily ribbed; rear table has offset along front side for rabbeting; has rear table equal in length to front table. Inclines on which the tables rest are provided with adjustable clip to take up all wear; tables may be withdrawn from head without distributing their adjustment, making cutters readily accessible. Regularly made with square head, solid lips, but may be furnished with square head and steel lips, or with safety head with either solid or steel lips.

Regular Equipment: Each machine is furnished with one pair of knives, one countershaft having self oiling loose pulley, one fence, one pressure spring, one wrench, and one jointer guard. By the use of special cutters this jointer may be used for beading, grooving, making light molding and similar work.

	8	12	16	18	20	24
Length of knives, inches	31½	40	40	40	40	40
Length of front table, inches	31½	40	40	40	40	40
Length of rear table, inches	65	82	82	82	82	82
Length over all, inches	18	15½	19½	21½	23½	27½
Width of tables, inches	33	33½	33½	33½	33½	33½
Height of table from floor, inches	3½	4	4	4	4	4
Diameter of pulley on head, inches	2½	4	4	4	4	4
Widest belt to be used, inches	1¼x4½	1½x7	1½x7	1½x7	1½x7	1½x7
Size of bearing pulley end, inches	1¼x3½	1½x5	1½x5	1½x5	1½x5	1½x5
Size of bearing, operator end inches	8x3	10x5	10x5	10x5	10x5	10x5
Size of right and loose pulleys, inches	800	800	800	800	800	800
Speed, countershaft, revolutions per minute	1000	1000	1000	1000	1000	1000
Driving head spool, revolutions per minute	21x64	31x82	35x82	37x82	39x82	43x82
Floor space, exclusive of countershaft, inches	2 to 3	3 to 4	3 to 4	4 to 5	4 to 5	4 to 5
Horse power required	800	1375	1525	1625	1700	1800
Shipping weight, pounds	$350 00	$410 00	$470 00	$480 00	$500 00	$560 00
Each						

Prices on Application

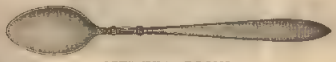
1847 ROGERS BROS. SILVERWARE

TIPPED LOUVAIN QUEEN ANNE OLD COLONY CROMWELL

XS Triple Plate.

	Teaspoons.	Dessert Spoons.	Tablespoons.	Spoon Handle Dessert Forks.	Spoon Handle Medium Forks.
Tipped ..... per dozen	$ 8.80	$17.00	$17.60	$17.00	$17.60
Queen Anne, bright finish..... per dozen	8.80	17.00	17.60	17.00	17.60
Old Colony ..... per dozen	8.80	17.00	17.60	17.00	17.60
Cromwell ..... per dozen	8.80	17.00	17.60	17.00	17.60
Louvain ..... per dozen	8.80	17.00	17.60	17.00	17.60

ONE DOZEN IN A BOX



ICED TEA SPOONS

Queen Anne, bright finish ..... per dozen $12.80

Old Colony ..... per dozen 12.80

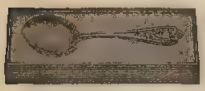
Cromwell ..... per dozen 12.80

Louvain ..... per dozen 12.80

ONE DOZEN IN A BOX

Prices on Application

1847 ROGERS BROS. SILVERWARE



SUGAR SHELLS

No. 9—Tipped, bright finish, per dozen *$18.80*
No. 10—Queen Anne, bright finish, per dozen *$18.80*
No. 12—Old Colony, per dozen *$18.80*
No. 13—Cromwell,
No. 14—Louvain ..per dozen *$18.00*

ONE IN A LINED BOX

CHEESE SERVERS
Hollow Handles.

Queen Anne, bright finish, per dozen *$37.60*
Old Colony ..... per dozen *37.60*
Cromwell .....per dozen *37.60*
Louvain .....per dozen *37.60*

ONE IN A LINED BOX

CREAM LADLES

Queen Anne, bright finish, per dozen *$25.60*
Old Colony .....per dozen *25.60*
Cromwell .....per dozen *25.60*
Louvain .....per dozen *25.60*

ONE IN A LINED BOX

GRAVY LADLES

Queen Anne, bright finish, per dozen *$33.60*
Old Colony .....per dozen *33.60*
Cromwell .....per dozen *33.60*
Louvain .....per dozen *33.60*

ONE IN A LINED BOX

MEDIUM SOUP LADLES

Queen Anne, bright finish, per dozen *$104.00*
Old Colony .....per dozen *104.00*
Cromwell .....per dozen *104.00*
Louvain .....per-dozen *104.00*

ONE IN A LINED BOX

SUGAR TONGS

Queen Anne, bright finish, per dozen *$27.20*
Old Colony .....per dozen *33.60*
Cromwell .....per dozen *33.60*
Louvain .....per dozen *33.60*

Queen Anne sugar tongs are made in small size only. The other patterns are large size.

ONE IN A LINED BOX

SALAD SPOONS AND FORKS

Queen Anne, bright finish, per set *$9.75*
Old Colony .....per set *9.75*
Cromwell .....per set *9.75*
Louvain .....per set *9.75*

ONE SET IN A LINED BOX

ORANGE SPOONS
Plain Bowls.

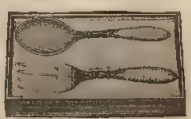
Queen Anne, bright finish, per dozen *$11.20*
Old Colony .....per dozen *11.20*
Cromwell .....per dozen *11.20*
Louvain .....per dozen *11.20*

HALF DOZEN IN A LINED BOX

BUTTER KNIVES

No. 14—Tipped, bright finish, per dozen *$21.28*
No. 15—Queen Anne, bright finish, per dozen *21.28*
No. 17—Old Colony, per doz. *21.28*
No. 18—Cromwell, per dozen *21.28*
No. 19—Louvain ..per dozen *21.28*

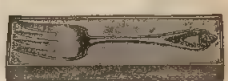
ONE IN A LINED BOX



BABY SPOON AND FORK SETS
Straight Handles.

Queen Anne, bright finish, per set *$2.40*
Old Colony ..... .per set *2.40*
Cromwell ....per set *2.40*

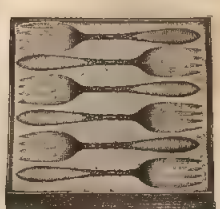
ONE SET IN A LINED BOX



COLD MEAT FORKS

Queen Anne, bright finish, per dozen *$28.00*
Old Colony .....per dozen *28.00*
Cromwell .....per dozen *28.00*
Louvain .....per dozen *28.00*

ONE IN A LINED BOX



INDIVIDUAL SALAD FORKS

Queen Anne, bright finish, per dozen *$17.60*
Old Colony .....per dozen *17.60*
Cromwell .....per dozen *17.60*
Louvain .....per dozen *17.60*

HALF DOZEN IN A LINED BOX

Prices on Application

1847 ROGERS BROS.

HOLLOW HANDLE KNIVES AND FORKS

Knives Have Nickel Silver Hollow Handles and Finest Crucible Steel Scimeter Blades.
Forks are All Nickel Silver with 4 Tines.

QUEEN ANNE Pattern.

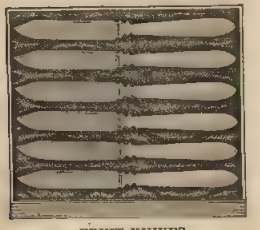
Bright Finish.

No. 1920—Medium knives	.....per dozen	*$36.50*
No. 1921—Medium forks	.....per dozen	*36.50*
No. 1922—Dessert knives	.....per dozen	*34.50*
No. 1923—Dessert forks	.....per dozen	*34.50*

CROMWELL Pattern.

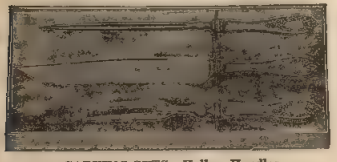
All Burnished.

No. 1710—Medium knives	.....per dozen	*$36.50*
No. 1712—Medium forks	.....per dozen	*36.50*
No. 1711—Dessert knives	.....per dozen	*34.50*
No. 1713—Dessert forks	.....per dozen	*34.50*



FRUIT KNIVES

No. 1650—Plain or satin handles .....per dozen *$10.00*



CARVING SETS—Hollow Handles.

Queen Anne, bright finish	.....per set	*$24.50*
Old Colony pattern	.....per set	*24.50*
Cromwell pattern	.....per set	*24.50*
Louvain pattern	.....per set	*24.50*

OLD COLONY Pattern.

French Gray.

No. 1700—Medium knives	.....per dozen	*$36.50*
No. 1702—Medium forks	.....per dozen	*36.50*
No. 1701—Dessert knives	.....per dozen	*34.50*
No. 1703—Dessert forks	.....per dozen	*34.50*

LOUVAIN Pattern.

French Gray.

No. 1990—Medium knives	.....per dozen	*$36.50*
No. 1992—Medium forks	.....per dozen	*36.50*
No. 1991—Dessert knives	.....per dozen	*34.50*
No. 1993—Dessert forks	.....per dozen	*34.50*

26 Piece Family Assortment.

Oak chest with drawer, white lined, containing—

6 teaspoons, triple plate.
6 tablespoons, triple plate.
6 medium knives, 16 dwt.
6 medium forks, triple plate, flat handles.
1 sugar shell, triple plate.
1 butter knife, triple plate.

WITH SOLID HANDLE KNIVES

No. 48—Queen Anne pattern, bright finish, each		*$44.20*
No. 48—Old Colony pattern	.....each	*44.20*
No. 49—Cromwell pattern	.....each	*44.20*
No. 50—Louvain pattern	.....each	*44.20*

WITH HOLLOW HANDLE KNIVES

No. 42—Queen Anne pattern, bright finish, each		*$55.20*
No. 43—Old Colony pattern	.....each	*55.20*
No. 44—Cromwell pattern	.....each	*55.20*
No. 45—Louvain pattern	.....each	*55.20*

AMERICAN DOLLS

The fact that we pile up such enormous sales on American dolls each year is proof that we offer values that other distributers do not match. American made dolls are particularly popular because unbreakable. Note especially our remarkable offerings in "Mama" dolls and dolls that talk.

UNBREAKABLE DOLLS

excellently modeled composition heads, painted features, well stuffed bodies, hip and shoulder joints.

F7260—2 styles, 17 in. heads with floral plate painted hair, sateen rompers and dresses of small checked percale, trimmed with braid and lace. Assrtd 1 doz in box.
Doz **$2.00**

F7203—2 styles, 12 in. composition head with large hinge jointed painted hair full cut pouch, stripe, small checked percale dresses and rompers. Assrtd 1 doz in box.
Doz **$2.25**

F7321 3 styles 15 in. composition head with large jointed painted hair, sateen picture muslin aprons over colored percale dresses of pretty checked designs, lace and lawn collars and caps, black shoe feet. Assrtd 1 doz in box.
Doz **$4.25**

F7322—6 styles, 15 in. composition head with large hinge plate painted hair full cut pouch, small checked percale and lawn dresses, lace and lawn collars and caps, and solid color sateen flounced voile dresses with lace trimmed shoe feet, wool hose.
Doz **$4.25**

F7210—Big Six, 6 styles, 14 in. doll like models, composition heads painted in full colors, jointed arms, flowered and checked gingham dresses, some with solid color chambray and attached white pique aprons, white stockings and black shoes. Assrtd 1 doz in box.
Doz **$4.25**

F7223 3 styles, 15 in., extra size character heads, painted hair, set pockets hands, checked percale and solid color lawn dresses trimmed with colors and caps, black shoe feet. Assrtd 1 doz in box.
Doz **$4.40**

F7227—3 styles, 16½ in. character heads with extra size bodies, painted hair, composition feet, some solid color and flowered percale dresses, set pockets and full skirts with wide lawn ruffles, some with attached lawn pantalettes. Assrtd 1 doz in box.
Doz **$8.00**

F7285—3 styles, 15 in. character heads, painted hair, full composition arms, sateen dresses, some with checked gingham aprons, others with solid color lawn trimmed ruffles, lace and lawn bonnets to match, stockings, leatherette slippers, each in box. Assrtd 1 doz Style
Doz **$8.00**

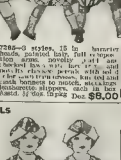
F7286—3 styles, 15 in. character heads, painted hair, full composition arms, sateen dresses, some with checked gingham aprons, others with solid color lawn trimmed ruffles, lace and lawn bonnets to match, stockings, leatherette slippers, each in box. Assrtd 1 doz Style
Doz **$8.00**

F7288—6 styles, 15 in. marbleized heads, realistic wigs, full composition arms, plain linons, flowered and combination solid color linons and flowered lawn dresses, lace and lawn bonnets to match, stockings, leatherette slippers. Assrtd 1 doz in box.
Doz **$8.50**

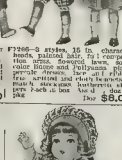
"LITTLE TOTS" SOFT BODY DOLLS

F7899—9 in. stuffed cloth body with large sensational store seller. 1 doz in box
Doz **82c**

F7901—Girl and her pet, 11 in. painted and tinted character head, wool plush body, gingham dress, knit drawers, bonnet to match. Assrtd 1 doz in box
Doz **$2.25**



F7902 6 styles, 13 in., painted and tinted hair and features with large stuffed body and jointed limbs, pretty dress, white bonnet to match, stockings, leatherette slippers, each in box. Assrtd 1 doz Style
Doz **$3.75**



EFFANBEE "BABY MADELINE" DOLLS

With Moving Eyes

Compos. toe heads and hands with fine flesh finish painted eyes, bobbed parts, moving eyes, with natural curl effect, extra wide hat and shoe sizes, pantalettes and underwear with solid color lace trim over organdie ruffle, bonnets to match, fashionable footwear in all.

F7534—16 in.	Each	$3.00
F7535—21 "	"	3.75
F7536—23 "	"	5.00

"IDEAL" SLEEPING, WALKING AND TALKING DOLLS

"Ideal" dolls enjoy an excellent reputation for quality. They have sleeping, walking and talking eyes. Flesh finish compos. toe heads and hands, stuffed bodies, hip and shoulder joints, underwear.

F7270—3 styles, 15 in. compos. toe heads and hands, stuffed bodies, jointed limbs, flesh finish, sleeping eyes, fine human hair wigs, dressed in pretty lawn dresses with sateen ribbon trimmings and caps, knitted sacques, bootees, shoes and stockings, bodies have curved waists, black shoe feet. Assrtd 1 doz in box.
Doz **$8.50**

F7271 3 styles, 14 in. ideally baby and toddler models, jointed limbs and bodies, flesh finish, sleeping eyes, fine human hair wigs, dressed in pretty lawn dresses with sateen ribbon trimmings and caps, knitted sacques, bootees, shoes and stockings, bodies have curved waists, black shoe feet. Assrtd 1 doz in box.
Doz **$10.00**

F7272 6 styles, 16½ in. ideally baby and toddler models, jointed limbs and bodies, flesh finish, sleeping eyes, fine human hair wigs, dressed in pretty lawn dresses with sateen ribbon trimmings and caps, knitted sacques, bootees, shoes and stockings, bodies have curved waists, black shoe feet. Assrtd 1 doz in box.
Doz **$13.50**

F7657—18 in., composition flexarm bobbed mohair wig, wholesale by hand doll value naturally. However, lawn dress, satin trim, walks, sock and sleeve lace hose, short or white waist bonnet to match, stockings, leatherette slippers. 1 in box.
Each, **$2.25**

F7658 18 in., composition forearm bobbed mohair wig, wholesale by hand doll value naturally. "Mama" voice, sleeping eyes, open mouth, real baby teeth, curly head, walks and says "mama." Has flannel sacque, dress, bonnet, shoes, stockings, leatherette slippers. 1 in box.
Each **$3.00**

F7538—20 in. composition forearm bobbed mohair wig, wholesale by hand doll value naturally. "Mama" voice, sleeping eyes, open mouth, real baby teeth, curly head, walks and says "mama." Has flannel sacque, dress, bonnet, shoes, stockings, leatherette slippers. 1 in box.
Each **$4.50**

AMERICAN DOLLS—Continued

"ACME" BABIES

Well stuffed chubby bodies, composition heads and hands, painted features, big and shoulder joints, position limbs, fine white lawn short baby dress, full skirt, wide lace trim yoke, neck, sleeves and bottom, lace trim cap, ribbon ties, booties.

17 In. High—1 in box.
F7528—Painted hair
Each $1.20
F7529—Mohair wig
Each $1.50

18½ In. High—1 in box.
F7530—Painted hair
Each $1.60
F7531—Mohair wig
Each $1.90

"NELKE" SOFT DOLLS

Nationally advertised light weight doll for indoor, soft and cuddly, unbreakable waterproof hand painted features and hair, attractive color, go painted eyelashes; dollies attached trademark tags.

Girl and Clown Asst—8½ in., solid color girl with contrasting collar, 2 color clown with ruche neck, hats to match.
F7805—Asst 1 doz. in box.
Doz. $4.25

Boy and Girl Asst — Solid color boy with sweater, girl with solid color dress, contrasting trim collar and bolero to match.
F7806—10 in. Asst. 12 doz. in box.
Doz. $8.00
F7807—14½ in. Asst 6 doz in box.
Doz. $10.75

CRYING DOLL ASSORTMENTS

Specially treated rubber shoulder bodies, celluloid faces, when pressed down cries and cries, will stand.

F7824—6 styles, 8 in., solid color rompers, solid color, plaid gingham, fancy prints and corduroy dresses and sweaters, tinsel braid trimmed hoods, contrasting trim. Asst 6 doz. in box.
Doz. $2.15
F7825—4 styles, 11½ in., plaid gingham, fancy prints and corduroy dresses and sweaters, tinsel braid trimmed hoods, contrasting trim.
Doz. $4.10

"K & K" BISQUE HEAD DRESSED DOLLS

Fancy costume dolls at reasonable prices. F or imported flesh tinted bisque heads and feat.ures, moving glass eyes, exposed teeth, bobbed, wool blonde, black and brunette wool curly mohair wigs, well stuffed bodies, kid and shoulder joints composition hands, lace trim underwear, lace stockings, leatherette slippers All with link kid lower limbs, flesh tinted except F7831, flesh tied in fancy green bow.

F7631—14½ In., colored organdie dress with ruffle down front, ruffle around neck and collar with novelty stitching on points, puff crown organdie hat with novelty stitching on wide brim, ruffled cape. Each $1.85

F7632—17 In. white organdie dress, lace trim collar, cuffs and bottom of skirt, cluster tucking lace edged colored slip, large hat with white flaring brim, ribbon rosette and lace trim Each $3.25

F7633—17 in. colored organdie dress with wide facing, contrasting collar, puff crown organdie bonnet with tucks and wide ruffle, white straps. Each $3.25

F7634—13½ In. real eye, bisque head, solid color lawn dress, contrasting trim collar and cuffs, novelty striped shirring attached to lawn waist, large puff crown hat, black with ribbon trim Each $4.75

F7637—23 in. real eyelashes, white organdie party dress, cluster pin tucked, lace trim, wide lace trim panel, wide lace trim sash, short sleeves lace edge edged slip, large flaring organdie hat, wide satin ribbon band, under chin Each $7.00

F7636—24 in. real eyelashes, white organdie dress, large contrasting collar with ribbon bow, 3 large pockets, flared cuffs, extra wide lace trim, 3 tiers ruffled edge, wide satin ribbon sash and bow Each $8.50

AVERILL'S "MADAM HENDREN" MAMA DOLLS

Nationally advertised and recognized as the best and most popular on the market trade. You will find the styles illustrated the most popular in demand. Sold by the best department stores, yet reasonably priced for all classes of Highest priced numbers with favorite gold medal features. All with genuine Lloyd "Mama" voice, stockinet, leatherette slippers.

With Painted Hair—Solid color crinkle dress with flowered lawn cuffs and deep band at bottom of skirt, lace trim square neck, lawn slip with elastic sewed, puff crown bonnet to match, 3 in box
F7303 16½ in.
Each $2.75
F7304—18½ in.
Each $3.50
F7305—21½ in., with medal
Each $5.25

With Mohair Wig, Sleeping Eyes—Checked gingham dress with tie back sash, braid bound square neck and cuffs, lawn slip with elastic sewed, puff crown bonnet to match, 3 in box, tie straps, 1 in box
F7302 16½ in.
Each $3.50
F7304 18½ in., with medal
Each $4.90

With Painted Hair, Rompers—Checked gingham rompers, braid bound neck and sleeves, white lawn puff crown cap with gingham sunback 3 in box
F7299—16½ in.
Each $3.50
F7301—21½ in. with medal
Each $5.25

With Painted Hair, Romper Dress—Solid color poplin dress, braid bound square neck and sleeves elastic at knee, cap to match with large puff crown, 3 in box
F7298—18½ in.
Each $3.50
F7299—21½ in., with medal
Each $5.25

With Painted Hair Fancy Dressed Wig, Sleeping Eyes—Fancy dress with fine flounce ribbon bow trim sleeves, lace edge slip with tulip pin, organdie French bonnet with ribbon rosette, tie strings, lace trim panties, coat, carved painted shoes, leather soles, 1 in box
F7276—16½ in.
Each $3.25
F7289—16½ in. with medal
Each $4.00
F7289 21½ in with medal
Each $5.00

"MAMA" DOLLS—To Retail Up To $5.00

Six popular priced numbers, soft bodies, velvet and composition heads, shoes and stockings, all with "Mama" voices. Will be the rage this Fall

"Gem"—Composition baby heads, with breast plate, painted hair and features, composition forearms

F7350 18 in., checked percale rompers, white pique bonnet, collar and wide ruffle, wide lawn sash, hat to match, with elastic 1 in box
Each, $1.75

"Tip-Toe" Pressed velvet face over cardboard, painted features, composition head, black mohair wig, checked percale rompers, fancy braid at neck, wide lace cuffs, bonnets with long wide tie strings, 1 in box

F7353—20 in	Each $1.95
F7353—27 "	" 2.65

"Ideal" Bonnie Velour Baby, new jointed limbs, composition head painted hair and features, composition forearms, wide checked gingham rompers, braid trim neck, hood with wide lace trim and ruffle, ribbon and rosette, "Mama," tipped buttoned shoes

F7354—1 in box Each $3.00

"Effanbee" 23½ in. composition baby head, with breast plate, composition forearms and lower limbs, large checked percale "Pollyanna" dress, collar trimmed with lace, white pique bonnet square neck, puffed sleeves, knee, wide sash at back, cap with wide lawn ribbon tags

F7353—1 in box Each, $3.50

NOVELTY DOLLS

IMPORTED NOVELTY DRESSED DOLLS

F8370—Clown on stick, 11½ in., composition head, painted clown features and hair, soft stuffed body, turned wood stick, whistling voice. 1 doz in box
Doz $1.00

Clapping Clown With Jolly Voice—14 in., composition head, painted clown features and hair, soft stuffed body, braid and lace trim, wood hands and feet, claps cymbals with voice when bellows are pressed

F8429—1 doz. in box
Doz $2.16

Clown, With Voice—11 in., composition baby head, painted features and hair, soft stuffed body, velvet costume, lace and gold paper trim, claps cymbals with harmonica voice when bellows are pressed

F8479—1 doz in box
Doz $4.00

F8461 Bahtese, with voice, 13 in. celluloid face, painted features and hair, cloth covered soft stuffed body and head, brass buttons, colored sleeve shoe ties, bellows voice. ½ doz. in box
Doz. Out

Sailor Boys and Girls—9½ in., celluloid heads, painted features and hair, soft stuffed flannel bodies, regulation sailor costume with white braid trim anchor buttons, rubber grommets, ladies' caps, shoe feet

F8475—Asstd. 1 doz in box
Doz. $2.16

Whistling Clown—14 in. composition head, painted features and eyebrows, jointed arms and legs, 2 color flannet costume with white ruff, colored slippers. Whistle when bellows are pressed

F8467 ½ doz. in box
Doz. $4.00

Harlequin 13 in., celluloid face, painted features and hair, soft stuffed body pompon trimmed vari-color felt dress, satin ruffle, pointed caps, white pointed slippers, white pointed felt hands and shoe feet

F8468—1 doz. in box
Doz. $2.00

F8471—Clapping doll, with voice, 15½ in., Bisque head glass eyes, short human hair wig, blue satin Russian dress, red velvet trimmed blouse and hat, wood hands clapper and cymbals with voice when bellows are pressed. ½ doz. in box
Doz. $3.75

WHISTLING DOLL

Bisque heads, painted features and hair with stuffed bodies, hip and shoulder joints, costumed in 2 color felt trimmed velvet pancake hat, 2 tone color felt covered legs, white socks and slippers

F6463 11 in ½ doz in box
Doz $4.00

F6464—14½ in ½ doz. in box . . . Doz $10.00

IMPORTED PATENT WASHABLE DOLLS

Composition head arms and legs, well stuffed bodies, patent washable head heads and feet

F6320—8½ in., painted hair and features, cotton slip 1 doz. in box
Box $1.25

F6321—Bi 12 in., painted features, assorted color eyes, asstd blonde and brunette wigs, jointed arms and legs, cotton slip Asstd 1 doz in box
Doz. $2.25

F6323—Bi. 17½ in., large head, painted eyes, assorted wigs, mohair wigs, jointed arms and legs, cotton slip with ribbon bound satin bodice, lace trimmed Asstd
In box. Doz. $4.00

F6328—With coat and hood, 16 in., bisque head, painted features, glass eyes, asstd blonde and brown curly mohair wigs, jointed arms and legs, baby doll dress, matching coat and hood, voice. Asstd
In box Doz. $4.75

"FINALE HOPPER" CARNIVAL CLOWN DOLL

With Mama Voice

F7913—27in with voice, soft stuffed body, stitched hands pressed linen face, painted features, 2-color muslin harlequin costume, ruche neck ruffs and tie, black cloth pompoms on clown hat, costume and ankle, black leatherette slippers 1 in box
Each $2.00

F7912

Tinted Metal Cloth Pantaletees, Wired full skirt, with tinsel trimmed chiffon shirred skirt and sparkling tinsel straps and head band with fancy marabou to one side

F7911	18 in Doz $14.00
F7912	24 in., with gilt head cloth Doz. $22.00

NOVELTY DRESSED DOLLS

Modeled composition flesh sprayed bodies, painted costume, moulded shoes and socks, mohair wigs with side curls, one vail over face and fair black painted shoes With mask

F7910—16 in., colored sateen pantaletees and wired full skirt with fancy tinsel braid, straps and head band 1 doz in box
Doz $6.50

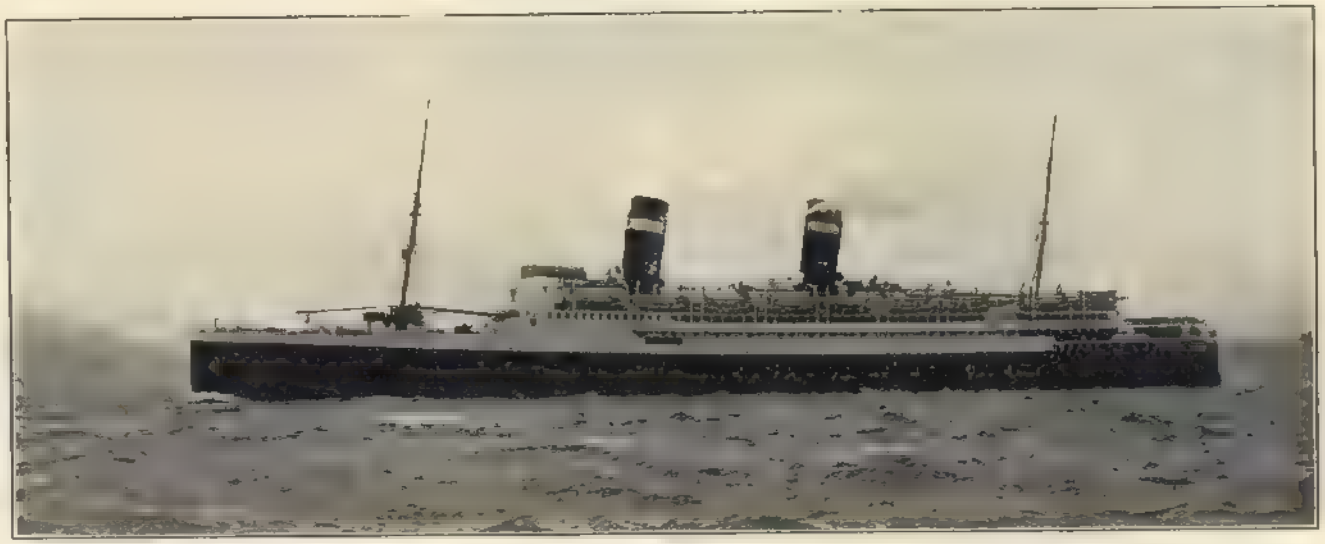
F7911

F7912

WILLIAM BEARDMORE & Co., LTD.

NAVAL CONSTRUCTION WORKS,

DALMUIR.



The above is a photograph of S.S. *Alsatian*, built for the Allan Line Steam Ship Co., Limited, Liverpool.

She is 18,500 tons gross; horse-power 20,000, and speed 19½ knots. She was engaged on Patrol Duty and Atlantic Convoy Duty during the Great War. She has been re-conditioned by Messrs. William Beardmore & Co., Ltd. (the Builders), and is now known as the "Empress of France."

The Works at Dalmuir are capable of turning out all classes of Merchant Steamers from the largest Atlantic Liner to High Speed Passenger Carrying Steamers for Channel Service in any part of the world, as well as all classes of Special Cargo Steamers. They are also prepared to arrange for the supply of all classes of Barges and Vessels of Light Draught of any description.

They are also prepared to undertake the building of any Special Vessel to meet any Special requirements for any Special trade or work.

Designs, specifications and prices can be supplied from the Naval Construction Works, Dalmuir, Scotland, on application.

La gravure ci-dessus représente le steamer "Alsatian," construit pour compte de la "Allan Line Steam Ship Co., Ltd," de Liverpool.

Tonnage brut 18,500 tonnes; Puissance 20,000 chevaux, et vitesse 19½ noeuds. Ce navire a fait le service de patrouille et de transport sur l'Atlantique pendant la grande guerre. Depuis, il a été réequipé par la maison Wm. Beardmore & Co., Ltd. (les constructeurs), et est connu actuellement sous le nom de "Empress of France."

Les chantiers navals de Dalmuir peuvent construire des navires de commerce de toutes classes depuis le plus grand transatlantique jusqu'au plus rapide paquebot pour la traversée de la Manche, y compris des bateaux pour la navigation dans toutes les parties du monde, aussi bien que des navires marchands de tous genres. Ils sont disposés à entreprendre également la construction de toute espèce de barges et de bateaux à faible tirant d'eau, de toutes catégories

La maison peut aussi se charger de construire tous bâtiments répondant à des conditions spéciales, pour tout usage ou commerce spécial.

Les plans, spécifications et prix peuvent être fournis sur demande par les Chantiers de Construction Navale de Dalmuir, Ecosse

La fotografía arriba representa el vapor "Alsatian," construido para la Linea de Vapores de la Compañia "Allan Line Steam Ship Co., Ltd," de Liverpool

Este Vapor es de 18,500 toncladas (tonelaje bruto); 20,000 caballos de fuerza y un andar de 19½ nudos por hora Durante la gran guerra él fué destinado al servicio de patrullas y convoyes en el Atlántico. Ultimamente fué renovado por la Casa William Beardmore & Co., Ltd (los constructores), y actualmente es conocido bajo el nombre de "Empress of France

Los talleres navales de Dalmuir pueden construir toda clase de Vapores Mercantes, desde el transatlantico mas grande hasta el vapor de pasajeros mas veloz para el servicio del Canal de la Mancha y para cualesquier parte del mundo. Construyen también toda clase de vapores especiales para carga. También se encargarán del suministro de todas clases de lanchones y buques de poco calado de toda descripción

La Casa está también preparada para tomar á su cargo la construcción de cualesquier buque especial, para responder á cualquier servicio que se le designe, ya sea para el comercio ú otros trabajos, segun sean las necesidades

Dichas especificaciones y precios, pueden ser suministrados, sobre pedido por los talleres de Construcción Naval de Dalmuir en Escocia

WILLIAM BEARDMORE & Co., LTD.

NAVAL CONSTRUCTION WORKS,

CHANTIERS NAVALS, TALLERES DE CONSTRUCCIÓN NAVAL,

TELEGRAMS: *Télégrammes:* Telegramas:
"BEARDMORE, DALMUIR."
"BEARDMORE, GLASGOW."
"BEARDMORE, LONDON."

DALMUIR.

LONDON OFFICE: *Bureau de Londres:*
36, VICTORIA STREET,
WESTMINSTER, S.W. 1.

WM. BEARDMORE & CO'S YARD FROM A HEIGHT OF 1,200 FEET
CHANTIERS NAVALS DE WM. BEARDMORE & CIE. VUE PRISE À 365 MÈTRES DE HAUTEUR
VISTA DE LOS ASTILLEROS NAVALES DE WM. BEARDMORE Y CIA., TOMADA DESDE UNA ALTURA DE 360 METROS

WILLIAM BEARDMORE & Co., LTD.

NAVAL CONSTRUCTION WORKS,

DALMUIR.

The Naval Construction Works of Messrs Wm. Beardmore & Co., Ltd., are situated on the North Bank of the Clyde, about 9 miles from Glasgow

The total area of the yard is about 100 acres, with a river frontage of over one mile. A Fitting-out Basin of 7½ acres in extent with a low water depth of 32 feet enables ships of the largest size to be brought alongside a Cantilever Crane capable of placing weights up to 200 tons on board a ship of 90 feet Beam.

On the east side of this basin are the Constructional Departments, comprising Platers' Sheds, Smithy, Mechanics' Shop, Loft Joiners' Shop, etc., and the Building Berths. These are nine in number, covering an area of 14 acres and capable of taking ships up to 1,000 feet in length and 100 feet in width. One of these Berths is fitted with a Gantry 750 feet long, 105 feet wide, and 150 feet high, equipped with travelling Cranes of 20, 15 and 5 tons lift for the rapid assembling of the various constructional members of the ship

On the west side of the Fitting-out Basin large shops with a floor area of 5½ acres are situated. These are excellently equipped with the most modern Machinery for the construction of Engines and Boilers of the largest size On this side, too, are four covered Building Berths with overhead Cranes, suitable for smaller vessels of the Cross Channel type up to 300 feet long. There is also a patent Slipway, capable of dealing with small ships up to 1 000 tons when these require repair or overhaul.

Large shops in the west yard, which were used for the production of Gun Mountings, etc, during the War, are now diverted to the construction of Locomotives of the latest type.

Les chantiers navals de la Maison Wm Beardmore & Co Ltd., sont situés sur la rive Nord de la Clyde, à environ 14 km. de Glasgow

La superficie totale des chantiers est d'environ 40,46 hectares avec une longueur de plus d'un mille (1,609 km), au bord de la rivière. Une cale d'armement d'environ 3,03 hectares de superficie d'une profondeur de 9,70 m à marée basse permet aux navires du plus grand tirant d'eau d'être amenés à côté d'une grue géante capable de déposer des poids atteignant 200 tonnes à bord de bateaux de 27 m. de largeur.

Du côté est de ce bassin, se trouvent les ateliers de construction, comprenant les halles d'ouvriers en fer de chaudronnerie de forge, les ateliers de mécanique et d'ébénisterie, etc., ainsi que les chantiers de montage. Ces derniers sont au nombre de 9 et couvrent ensemble une superficie de 5,06 hectares et peuvent recevoir des navires de 305 m de longueur et de 30 m de large. Un de ces chantiers est pourvu d'une charpente couverte de 228 m de longueur et 32 m de largeur et 45 m. de hauteur muni de ponts roulants de 20, 15 et 5 tonnes de charge, pour l'assemblage rapide des diverses parties du navire.

Du côté ouest de la cale d'armement sont situés d'importants ateliers d'une superficie totale de 2,23 hectares. Ces ateliers sont pourvus de l'outillage le plus moderne pour la construction de machines et de chaudières les plus grandes dimensions. Du même côté se trouvent également quatre chantiers de montage couverts, avec ponts roulants convenant pour le montage de navires plus petits du type "Traversée de la manche" ne dépassant pas 91 m de longueur. Il existe aussi une cale de lancement pour les bateaux de petit tonnage, ne dépassant pas 1,000 tonnes, qui doivent être réparés ou remis en état.

Les grands ateliers du chantier ouest qui pendant la guerre ont servi à la construction d'affûts et fourgons de canons, etc, servent actuellement d'ateliers de construction de locomotives des derniers modèles

Los astilleros de Construcción Naval de la casa Wm Beardmore & Co, Ltd, están situados sobre el río Clyde en la parte Norte, como á 14 km. de Glasgow.

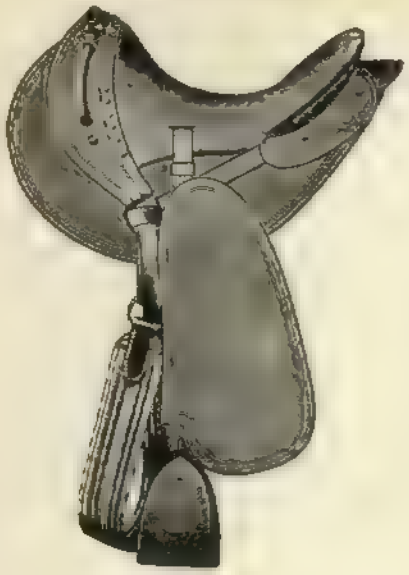
La superficie ó área total que ocupan los talleres, es como de 40,46 hectáreas, con un frente hacia el río de más de una milla (1,609 km.) de extensión. Una dársena para la armadura, de 3,03 hectáreas de superficie, con una profundidad, en baja mareé de 9,70 m., permite á buques de las más grandes dimensiones, atracar á una grua de contrapeso Cantilever capáz de colocar pesos, hasta de 200 toneladas, á bordo de un buque de 27 m. de manga

Al lado este de esta dársena se encuentran los departamentos de construcción, comprendiendo los talleres de forja, los de mecánica, la sala de herreros talleres de carpintería etc y los astilleros. Estos últimos son 9, cubriendo un área de 5,06 hectáreas y capaces de recibir, para su construcción, buques hasta de 305 m. de eslora y 30 m de manga Un de estos astilleros está provisto con un techo de 228 m de largo, 32 m de ancho y 45 m de alto, provisto con gruas movibles para levantar 20, 15 y 5 toneladas de peso para el manejo rápido de las piezas que forman parte en la construcción de un buque

Al lado oeste de la dársena para el ajuste final de las embarcaciones se encuentran situados grandes talleres, con una superficie de piso de 2,23 hectáreas Estos talleres estan todos exactamente equipados con las maquinarias mas modernas para la construcción de maquinas y calderas de las mas grandes dimensiones. Sobre este mismo lado, también, se encuentran cuatro astilleros de construcción, techados, con gruas en la parte superior, a propósito para la construcción de pequeños buques, de los del tipo que se usa para la travesia del Canal de la Mancha, hasta de 91 m de eslora Ademas hay tambien un carenero de patente capáz de recibir buques pequeños hasta de 1,000 toneladas cuando éstos necesite ser reparados o recorridos

Los grandes talleres que se encuentran al oeste del astillero, y que durante la guerra se usaron para la construcción de montajes de cañónes, etc., están ahora destinados á la construcción de locomotoras del tipo más moderno.

RIDING SADDLES



MOSBY

No. 3. Tree, 13 inches, felt lined, **Fenders,** 8x14 inches, **Stirrup Leathers** and **Tie Straps** 1 inch; **Girths,** corded; **Leather,** fair; **Weight,** 12 pounds . . . . . each **$24.00**

No. 1. Tree, 14 inches, leather lined; **Fenders,** 8½x15½ inches; **Stirrup Leathers** and **Tie Straps** 1⅛ inches; **Girths,** corded; **Stirrups,** plain wood. **Leather,** fair; **Weight,** 13 pounds. . . . . each, **40.00**

MORGAN

No. 6½ Men's. Leather, black; **Tree,** 13½ inches **Fenders,** 8x14 inches, **Stirrup Leathers,** 1 inch, **Buckle Girths,** corded; **Girth Straps,** 1⅛ inches; **Weight,** 11 pounds.....each, **$20.00**

No. 6½ Boys'. Leather, black; **Tree,** 11 inches; **Fenders,** 6x10 inches; **Stirrup Leathers,** ⅞ inch; **Buckle Girth,** corded; **Girth Strap,** 1 inch; **Weight,** 9 pounds. . . . . each, **18.00**

RIDING SADDLES

BUENA VISTA

No. 40. Tree, 17 inches, Canton flannel pad; **Fenders,** 9½x15 inches, **Stirrup Leathers,** 1¼ inches; **Girth,** 1¼ inch buckle; **Stirrups,** 4 inches, plain; **Leather,** fair; **Weight,** 17 pounds.....each, **$55.00**

No. 45. Tree, 18 inches, kersey pad; **Fenders,** 11x17 inches; **Stirrup Leathers,** 1½ inches; **Girths,** 1¼ inch buckle; **Stirrups,** 4 inches, covered; **Leather,** fair; **Weight,** 21 pounds.....each, **60.00**

McCLELLAN

No. 35B. Tree, 17 inches, bound cantle, perforated seat; **Fenders,** 10x20 inches; **Stirrup Leathers,** 1½ inches, **Stirrups,** 4 inches, covered; **Leather,** black; **Weight,** 20 pounds.....each, **$58.00**

No. 35F. Leather, fair; otherwise the same as No. 35B ..... each, **64.00**

No. 66B. Tree, 17 inches, full harness leather covered seat and bars; **Skirts,** 13½x14 inches, harness leather; **Fenders,** 8½x14 inches; **Stirrup Leathers** and **Tie Straps,** 1¼ inches; **Stirrups,** 4 inches, covered in black leather; **Weight,** 16 pounds..each, **45.00**

No. 66F. Leather, fair; otherwise the same as No. 66B . . . . . each, **48.00**

RIDING SADDLES

TEXAS

No. 260. **Tree,** 14½ inch steel fork; **Skirt,** 20 inches; **Fenders,** 8x12 inches, felt covered bars, **Stirrup Leathers,** 1¼ inches, **Tie Straps,** 1⅛ inches, double; **Girths,** corded; **Stirrups,** 4 inches; **Leather,** orange; **Weight,** 14 pounds.....each. **$40.80**

No. 261. **Tree,** 14½ inch steel fork; **Skirt,** 21½ inches; **Fenders,** 8x12 inches, leather covered bars; **Stirrup Leathers,** 1⅜ inches; **Tie Straps,** 1¼ inches, double; **Girths,** corded; **Stirrups,** 4 inches, plain. **Leather,** orange; **Weight,** 14 pounds.....each, **44.00**

TEXAS

No. 99. **Tree,** 13½ inches, **Fenders,** 8x14 inches; **Stirrup Leathers,** 1 inch; **Girths,** covered, **Girth Straps,** ⅞ inches, double; **Stirrups,** 4 inches, plain, **Weight,** 12 pounds.....each, **$32.00**

RIDING SADDLES

TEXAS

No. 264. **Tree,** 15 inch steel fork; **Skirt,** 20 inches; **Fenders,** 7½x13 inches; **Stirrup Leathers,** 1½ inches; **Girth Straps,** 1⅜ inches, double; **Stirrups,** ox bow wood; **Leather,** fair; **Weight,** 16 pounds .....each, **$50.00**

No. 278. **Tree,** 15 inch steel fork, **Skirt,** 10x20 inches, heavy felt lined, **Fenders,** 8x13 inches; **Stirrup Leathers,** 1¼ inches, **Girths,** heavy corded, **Tie Straps,** 1½ inches, double, **Stirrups,** ox bow wood; **Leather,** fair; **Weight,** 17 pounds.....each, **60.00**

TEXAS

No. 274. **Tree,** 14½ inch seat, 10 inch bulge, steel fork; **Seat,** full, fancy border stamp; **Skirt,** 21 inches, felt lined **Fenders,** 8x14 inches, stamped borders; **Stirrup Leathers,** 1¼ inches to lace; **Tie and Off Straps,** 1 inch; **Girths,** 15 strand cotton Texas; **Stirrups,** oval, ox bow, 1½ inches, **Weight,** 19 pounds .....each, **$55.00**

RIDING SADDLES

TEXAS

Fine Hand Stamped, Maltese Cross Pattern

No. AG. **Tree,** Taylor, 15 inch seat, 12 inch bulge; **Seat,** full straight up cantle, laced **Skirt,** 12x24 inches, felt lined: **Fenders,** 9-16 inches; **Stirrup Leathers,** 2¼ inches, reinforced liner; **Tie Straps,** 1½ inches, billet 1½ inches; **Girths,** 20 strand cotton, with tongues; **Stirrups,** plain ox bow, oiled; **Weight,** 22 pounds.....each, **$57.50**

RIDING SADDLES

TEXAS

No. JFB. **Tree,** Macea, 14 inch seat, 12 inch bulge; **Seat,** full straight up cantle, fancy embossed, laced front, **Skirt,** 12x21½ inches, felt lined; **Fenders,** 7½ x 14 inches; **Stirrup Leather,** 2 inches with reinforced liner; **Tie Straps,** 1⅛ inches; **Girths,** 15 strand cotton, **Stirrups,** 2 inches, solid bent Texas; **Weight,** 21 pounds... each, **$46.00**

TEXAS

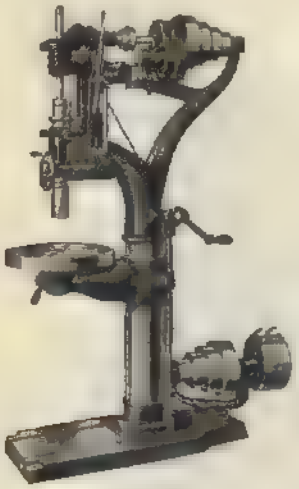
No. 451. **Tree,** 14 inches, steel fork; **Skirt,** 20 inches, felt lined bars; **Fenders,** 12 inches; **Stirrup Leathers,** 1¼ inches; **Tie Straps,** 1 inch border stamped; **Stirrups,** plain wood; **Weight,** 16 pounds....each, **$32.00**

LADIES' ASTRIDE

No. Park. **Tree,** 16½ inches, full leather lined; **Seat,** open center, round cantle; **Skirts,** 12½ x 21½ inches; **Stirrup Leathers,** 1⅛ inch; **Stirrups,** metal; **Girth,** 4 inch plain white English web; **Leather,** fair; **Weight,** 10 pounds.....each, **$50.00**

DRILLS

CANEDY-OTTO UPRIGHT DRILLS

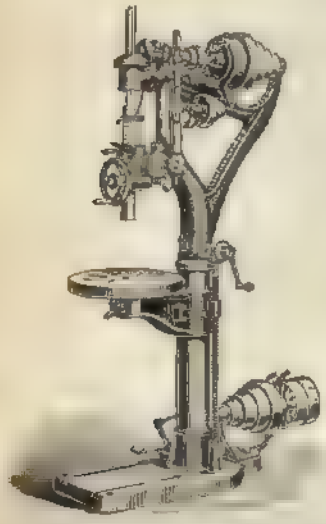


No. 36

Hand and power feed with automatic stop; back geared (furnished with tapping attachment at small extra charge); square base; drills to center of 21-inch circle; up-and-down run 9 inches; slotted table, with device to raise and lower, 1 5/16-inch spindle; takes No. 3 Morse drills; tight and loose pulleys 8x2½ inches; four step cone pulleys; counter shaft speed 380 RPM; weight 680 pounds.

No. 36—Western Chief Upright Drills ..Each $174 00

CHAMPION 20-INCH UPRIGHT DRILL



Champion 20-Inch Upright Power Drill with lever, wheel, power feed and automatic stop; back geared, all gears cut; change from plain to back gear by sliding gears; eight speeds; drills up to 1½-inch hole; drills to center of 20-inch circle; up-and-down run 8 inches; round slotted table, with device for raising and lowering; 1¼-inch spindle, takes No. 4 Morse taper shank drills No. 3 Morse Taper can be had if so ordered

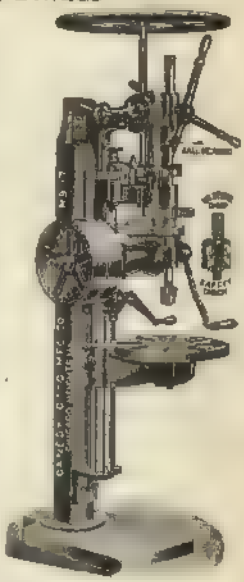
20-Inch Champion Upright Power Drills; back geared; less belts; weight 815 pounds Each $280 00

20-Inch Champion Upright Power Drills, less back gears; less belts; weight 800 pounds. Each 240 00

20-Inch Champion Upright Power Drills; with lever and wheel feed only; less belts; weight 770 pounds ..... Each 220 00

20-Inch Champion Upright Power Drills; with lever feed only; less belts; weight 750 lbs. Each 210 00

CANEDY-OTTO FLOOR DRILLS

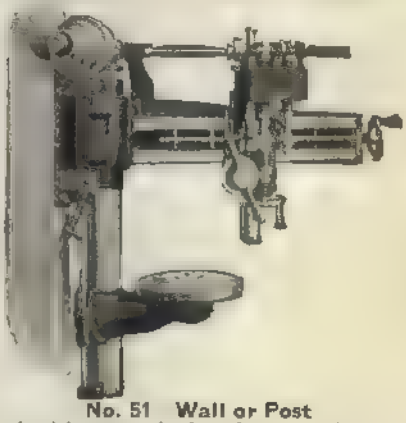


Hand Lever Feed and Horizontal Gear Driven Positive Self-Feed feeds independent of each other, and have quick return; instantly changed to fast, medium or slow speed; height 71 inches; square base; drills up to 1½-inch hole; drills to center of 24-inch circle; up-and-down run 6¼ inches; slotted table, with quick acting device to raise and lower; takes ½-inch straight shank drill bits **Fitted to take 61/64-inch straight shank or No. 3 Morse taper shank drills bit, when so ordered.** Weight 535 pounds

No. 17 Western Chief Upright Hand and Power Drills Each $85 35

Wheel Holder Attachment..... Each 4 00

CANEDY-OTTO RADIAL DRILL



No. 51 Wall or Post

Equipped with power feed and automatic stop; self feed has four speeds, driven by 4-step gear cones, arm moved to any degree within half circle, and securely clamped; spindle head traverses along arm by means of hand wheel screw and can be firmly clamped in any position

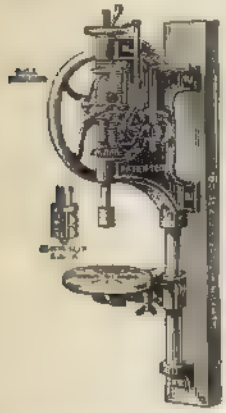
	2½ ft. arm	3½ ft. arm
Height, inches	56	56
Drills center of circle outside column	64	84
Distance center of spindle to column	7 to 32	7 to 42
Greatest distance spindle to table	18	18
Diam. spindle inside of sleeve	1 5/16	1 5/16
Up and down run of spindle	9	9
Drills	0 to 1 2	0 to 1½
Diam. column	5 5/8	5 5/8
Table	15	15
Size T & L pulleys	8x2½	8x2½
Cone pulleys	8, 7, & 5 8	8, 7½ & 5
Countershaft pulleys	6x3	6x3
Countershaft speed	380	380
Each	$286 00	$301 00

Note Furnished complete with countershaft

Crated. Second class freight.

CHAMPION POST DRILLS

The No. 200 series Champion Post Drills illustrated all have Combination Automatic Self-Feed and Double Compound Lever-Feed, which delivers a maximum pressure direct to point of drill. Feeds are independent of each other, and both are instantaneous return; lever feed makes these machines especially adapted to wood boring all metal bearing, light and quiet running; spindles bored same as Champion Never Slip Drill Chuck, to take ½ or 41/64 shank drills, and have countersunk set screw.

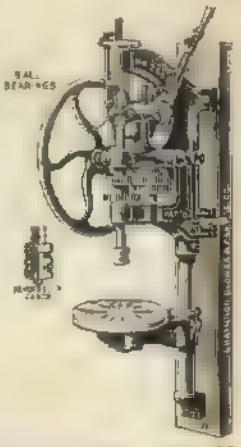


Combination automatic self-feed and double compound lever-feed; feeds are independent, both instantaneous return; ball bearing; drills up to 1¼-inch hole; drills to center of 16-inch circle; up-and-down run 4 inches; slotted table; 1¼-inch spindle, takes ½-inch straight shank drill bits. **Fitted to take ⅝ or 41/64-inch straight shank drill bits, when so ordered.** Weight 180 pounds.

No. 200—Champion Hand Power Post Drills Each $45 00

No. 200 Champion Hand and Power Post Drills; tight and loose pulley, 6x2 ins., 250 RPM Each $50 00

Combination automatic self-feed and double compound lever-feed drill; feeds are independent, both quick return; **two speeds,** changed by sliding gears; ball bearing, slotted table; drills up to 1½-inch hole; drills to center 18-inch circle; up-and-down run 5½ inches; 1¼-inch spindle, takes ½-inch straight shank drill bits. **Fitted to take ⅝ or 41/64-inch straight shank drills, when so ordered.** Weight 240 pounds.



No. 200½—Champion Hand Power Post Drills $54 00

No. 200 ½ Champion Hand and Power Post Drills; tight and loose pulley, 11x2½ ins.; 100 RPM 62 00

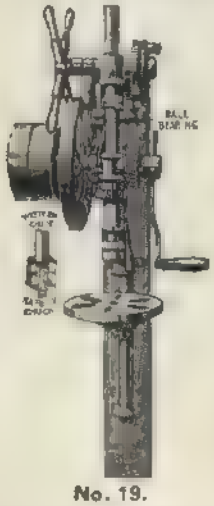
CANEDY-OTTO POST DRILLS

No. 16.

Hand lever feed, and horizontal gear driven positive self-feed; fast, slow or medium feeds, changed instantly; quick return; gears are cut; ball bearing, slotted table; drills up to 1¼-inch hole, drills to center of 24-inch circle; up-and-down run 6¼ inches, takes ½-inch straight shank drill bits. **Fitted to take 41/64-inch straight shank drill bits, when so ordered.**

No. 16—Western Chief Hand Power Post Drills; wgt. 340 lbs Each $61.00

No. 16—Western Chief Hand and Power Post Drills; tight and loose pulley, 10¾x2½ ins.; 180 RPM.; wgt. 360 lbs ..... Each 67 50



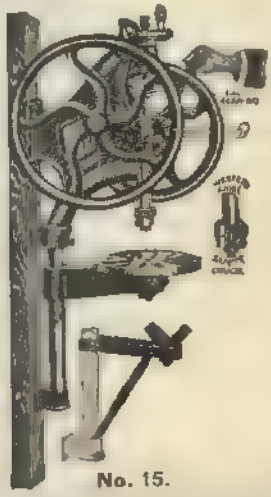
No. 19.

Combined hand and self-feed drill; feeds are independent of each other; ball bearing; drills up to 1¼-inch hole; drills to center of 16½-inch circle; up-and-down run 5½ inches; slotted table; takes ½-inch straight shank drill bits. **Fitted to take 41/64-inch straight shank drill bits, when so ordered.**

No. 19—Western Chief Hand Power Post Drills; wgt. 130 lbs ..... Each $24 55

No. 19—Western Chief Hand and Power Post Drills; tight and loose pulley, 8x2 ins.; 200 RPM.; wgt. 140 lbs ..... Each 28 60

Crated. Second class freight.



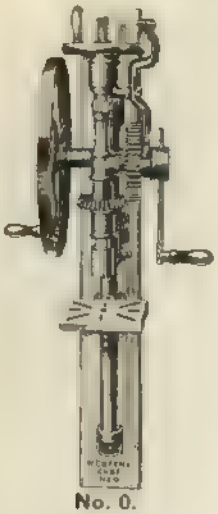
No. 15.

Automatic self-feed; changeable speed; back geared; spur gears are cut; ball bearings; drills up to 1½-inch hole; drills to center of 19-inch circle; up-and-down run 4 inches; slotted table; takes ½-inch straight shank drill bits. **Fitted to take 41/64-inch straight shank drill bits when so ordered.**

No. 15—Western Chief Hand Power Post Drills; wgt. 180 lbs..... Each $27 45

No. 15 Western Chief Hand and Power Post Drills, tight and loose pulley 8x2½ ins., 200 RPM.; wgt. 190 lbs... Each 31 45

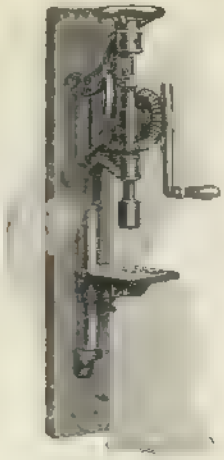
CANEDY-OTTO POST DRILLS



No. 0.

Self-feed, light post drill; steel mandrel, shafts and feed screw; fast and slow speed; drills up to ¾-inch hole, drills to center of 12-inch circle; up-and-down run 2¾ inches, takes ¼-inch straight shank drill bits. Weight 75 pounds.

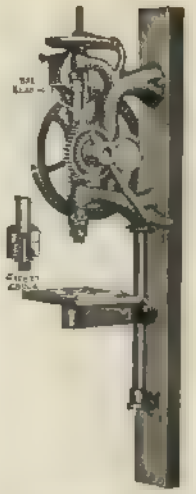
No. 0—Western Chief Hand Power Post Drills... Each $10 35



No. 0½.

Hand feed single geared post drill, drills from 0 to ¾-inch to center of 12-inch circle up-and-down run of spindle 2¾ inches; up-and-down run of table 9½ inches takes ½-inch straight shank drill bits. Weight 50 pounds.

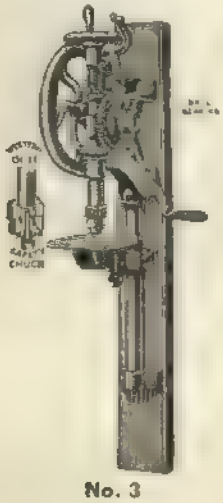
No. 0½—Western Chief Hand Power Post Drills Each $7 40



No. 1 Quick Return.

Automatic self-feed and quick return; three speeds; drills to center of 15-inch circle; drills up to 1½ inches; up-and-down run of spindle 2¾ inches; slotted, rotating, swinging table; takes ½-inch straight shank drill bits. **Fitted to take 41/64-inch straight drill bits, when so ordered.**

No. 1—Quick Return Western Chief Hand Power Post Drill; wgt. crated 142 lbs..... Each $20 95



No. 3

Particularly adapted for battery service stations; automatic self feed; drills 0 to 1-inch to center of 14½-inch circle, up-and-down run of spindle 3½ inches; up-and-down run of table 15½ inches; dotted table; takes ½-inch straight shank drill bits. **Fitted to take 41/64-inch shank bits when so ordered.**

No. 3—Canedy-Otto Hand Power Post Drill; weight 93 pounds..... Each $12 50

No. 3—Canedy-Otto Hand and Power Post Drill; tight and loose pulley, 8x2½ in.; 250 R. P. M., weight 103 pounds. . ..... Each $16 45

No. L. B. B.

Two speed, lever feed, ball bearing post drill; drills 0 to 1¼ inch to center of 14¾-inch circle; up-and-down run of spindle 4 inches; up-and-down run of table 11 inches; takes ½-inch straight shank drill bits.

No. L. B. B.—Canedy-Otto Hand Power Post Drill; weight 93 pounds ..... Each $13.45

No. L. B. B.—Canedy-Otto Hand and Power Post Drill; tight and loose pulley, 8x2 inches; weight 103 pounds ..... Each $17.45

CHAMPION SPARK PLUGS

A-13, ½-In. Thread
Conical Insulator
15/16-Inch Hex
Two Piece
Each $0 75

A-15, ½-In. Thread
For Ford Cars
Petticoat Insulator
15/16 Inch Hex
Two Piece
Each $0 60

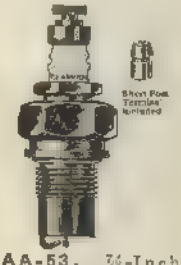
A-25, ½-In. Thread
Long
For Ford Cars
Petticoat Insulator
15/16-Inch Hex
Two Piece
Each $0 60

A-26, ½-In. Thread
Long
A-34, ½-In. Thread
Ex. Long
Petticoat Core
Two Piece
Each $0 75

A-43, ½-In. Thread
A-63, Metric Thread
Conical Insulator
A-44, ½-In. Thread
A-64, Metric Thread
15/16-Inch Hex
Two Piece
Each $1 00

AB-44 ½-In. Thread
For Dodge Cars
Petticoat Insulator
15/16-Inch Hex
Two Piece
Each $0 7

A-53, ½-In. Thread
Long
Conical Insulator
15/16-Inch Hex
Two Piece
Each..... $0 75



AA-53, ½-Inch
Thread
Long
Conical Insulator
15/16 Inch Hex
Two Piece
Each $0 75

B-13, ½-In. Thread
B-43, ½-In. Thread
B-53, ½-In. Thread
Long
B-73 ½-In. Thread
Each $1 00

H-14 ½-In. Thread
H-44, ½-In. Thread
H-64 Metric Thread
Petticoat Insulator
15/16 Inch Hex
Two Piece
Each $1 00

JB-43, ½-Inch
Thread
Conical Insulator
15/16-Inch Hex
One Piece
Each $0 7

J-13, ½-In. Thread
15/16-Inch Hex
J-43 ½-In. Thread
J-53, ½-In. Thread
Long
$0 7

JA-43, ½-In. Thread
Conical Insulator
15/16-Inch Hex,
One Piece
Each..... $0 75

JAS-43, ½-In Thread
JA-53, ½-In Thread
Long
Conical Insulator
13/16 In. Hex,
One Piece
Each.....$0 75

J-63, Metric Thread
Conical Insulator
1 Inch Hex
One Piece
Each $0 75

CHAMPION INSULATORS

No. A103
Conical

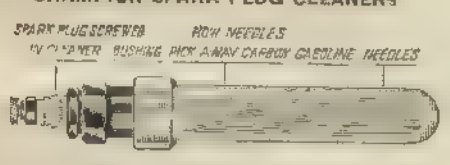
No. A104
Petticoat

No. A105
"X"

No. B103
Conical

Insulator	Plug Type	Each
A-103	A-13, A-43, A-53	$0 [illegible]
A-104	A-15, A-44, A-64	[illegible]
A-105	A-25	[illegible]
A-205	A-26	[illegible]
A-206	A-26, AB-44	40
A-304	A-34	40
A-503	A-53, AA-53	40
B-103	B-13, B-43, B-53, B-73	45
H-104	H-14, H-44, H-64	40

CHAMPION SPARK PLUG CLEANERS



For cleaning spark plugs; fits every size and make of spark plug

Champion Spark Plug Cleaner .....Each $0 75

CHAMPION GASKETS

Patented copper, asbestos lined

Champion Gaskets .. .. Each $0 03

SPLITDORF SPARK PLUGS

No. P163

No. P174

No. P165

No. P182

No. P163—⅞-18 S. A. E. Standard; for Apperson 6, Auburn, Briscoe, Cadillac, Chalmers Six, Dort, Elgin, Hudson, Hupmobile, Locomobile, Marmon, Mitchell, Oakland, Oldsmobile 8, Pierce-Arrow, Stutz . . . . . Each $1.00

No. P174—⅞-18 Long; for Buick prior to 1918 Each 1.00

No. P165—⅞-18 Long; for Allen, Apperson 8, Mercer, Nash, Oakland 32 . . . . . Each 1.00

No. P182—⅞-18 Long; for Chevrolet and Frankl[illegible] . . . . . Each 1.00

No. P10190

No. P10190—⅜ inch Extra Long Heavy Hexagon; for heavy duty and oil country use. . . Each $1.75

No. P10178—¾ inch Long Body; for tractors; crop maker, case 20-40, I. H. C. 8-16, Ohio, Mogul, Titan . . . . . Each 1.50

No. P10178

No. P148

No. P144

No. P126

No. P157

No. P148—Auto Metric Short; for Essex, Scripps-Booth 8 . . . . . Each $1.00

No. P144—½-inch for Marathon, Overland 83B 90 . . . . . Each 1.00

No. P126—Metric Motorcycle; for Ace, Cleveland, Excelsior Henderson, Thor Each 1.00

No. P157—⅞-18 Motorcycle; for Haynes, Overland, Packard Twin-Six, Indian (Power Plus) . . . Each 1.00

No. P179

No. P785

No. P784

No. P141

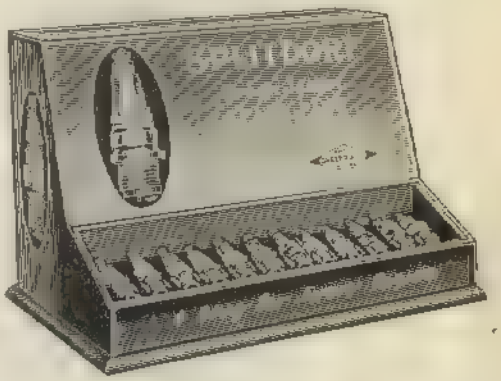
No. P179—½ inch Ford Special; for Ford, Overland 79 80-81-83, Regal . . . . . Each $0.75

No. P785—⅞-18 Long Body; for Chandler, Dodge and National . . . . . Each 1.00

No. P784—⅞-18 Long Heavy Hexagon; for Buick, Chalmers 32, Scripps-Booth . . . . . Each 1.00

No. P141—½ inch Extra Long; for Metz 4 cylinder, Reo . . . . . Each 1.00

SPLITDORF MERCHANDISER



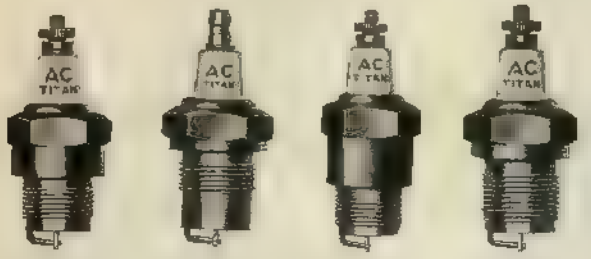
A silent salesman; handsomely finished; will add to attractiveness of display room; compartments in back hold a stock of 120 plugs; supplied No Charge with orders for 120 assorted Splitdorf spark plugs.

SPLITDORF LIGHTHOUSE

An exact reproduction of the famous Splitdorf Green Jacket Spark Plug; makes an attractive display for window. Is 18 inches high, finished in durable colors and fitted with an automatic flashing device, 12 feet of lamp cord and 25 watt mazda lamp. Supplied No Charge with orders for 100 assorted Splitdorf spark plugs.

AC SPARK PLUGS

AC TITAN—Each $1.00



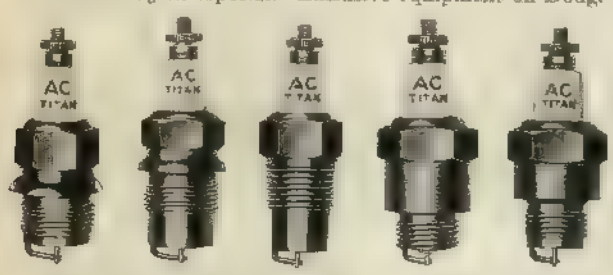
No. 78RT **No. 78LT** **No. 78LBT** **No. 78DT**

No. 78RT ⅞ inch regular Equipment on Cadillac, Cleveland, Cole, Dort, Hudson Hupmobile, Packard, Paige and other well-known passenger cars, trucks, etc.

No. 78LT ⅞ inch long. Equipment on Buick, Chevrolet and other passenger cars. Also on Knox, Samson and other tractors.

No. 78LBT ⅞ inch long body Equipment on Chandler Stevens-Duryea, White, etc

No. 78DT ⅞ inch special. Exclusive equipment on Dodge



No. SAET **No. SAELT** **No. 12LT** **No. 18MT** **No. 18SMT**

No. SAET S. A. E. regular. Equipment on Apperson, Commonwealth, Haynes, Marmon, Mitchell, Saxon, Stearns-Knight and other passenger cars

No. SAELT S. A. E. long. Equipment on Oakland since 1915, Oldsmobile 6 cyl., Scripps-Booth 6 cyl., all Nash cars up to 1920, etc

No. SAENT—S. A. E. extra long. Equipment on 1920 Nash cars.

No. 12LT—½ inch long. Equipment on Reo cars and trucks, Speedway Motors. Recommended for Overland to 1914.

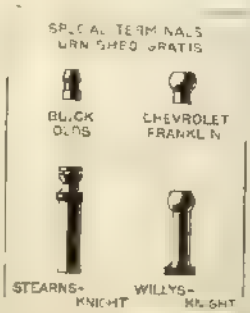
No. 18MT Metric regular. Equipment on Essex, Excelsior Motorcycles, Briggs & Stratton and Johnson Motor Wheels Recommended for 1915 Pierce-Arrow and all cars using metric plugs

No. 18LMT -Metric long Equipment on 8 cyl. Scripps-Booth

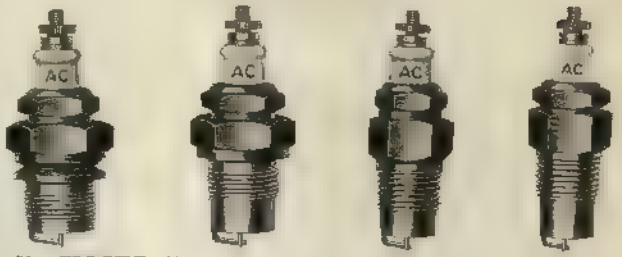
No. 18SMT Metric short. Equipment on Henderson Motorcycles. Recommended for Packard up to 1914. Peerless up to 1915.

No. 18ACA—Aircraft Type Each $1.25

No. 18ACA—Metric. Equipment on Curtiss and Hall-Scott Airplanes. Used on Liberty and Hispano-Suiza Motors.



AC TWO-PIECE Each $1.25



No. 78ACTP **No. 78LACTP** **No. 12ACTP** **No. 12LACTP**

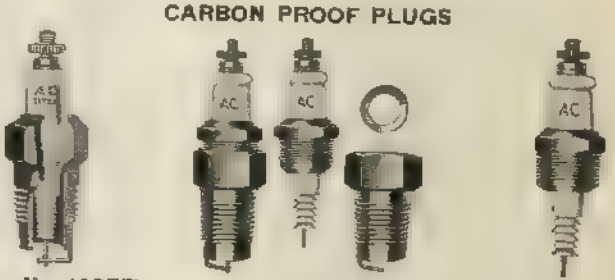
No. 78ACTP—⅞ inch regular. Equipment on Boring, Lauson, Stockton, Tiger, Turner-Simplicity and Wetmore Tractors. Also on Hewitt-Ludlow, Low-Bed and Italia Trucks.

No. 78LACTP—⅞ inch long For cars requiring ⅞ inch extension plugs

No. 12ACTP—½ inch regular Equipment on LaCrosse, Pioneer and Minneapolis Tractors, also on Mudge and Woolery Railway Motors.

No. 12LACTP -½ inch long For cars requiring ½ inch extension plug.

CARBON PROOF PLUGS



No. 12CPT **No. 12ACTP** **No. ACP**

No. 12CPT—½ inch regular. Equipment on Moller passenger cars Elmira Trucks, A. & T. Buffalo, New Britain and other Tractors. Also on Schwarz Lighting Plants Maytag Washing Machine, etc Recommended for Ford, Overland Studebaker and any cars using ½ inch regular plugs .. Each $1 00

No. 78RCPT—⅞ inch regular AC Titan Carbon Proof. Equipment on Glide cars, United Trucks, Bullock and Topp-Stewart Tractors. Can be used on any car requiring ⅞ inch regular plug.....Each $1.00

No. 12ACTP—½ inch regular A C Two-Piece Carbon Proof Plug An excellent and most efficient plug for Ford and all motors requiring ½ inch regular plugs Each $1 25

No. ACP Extra porcelain with bushing . Each $0 75

AC MERCHANDISER

Supplied no charge on orders for 140 or more assorted AC Spark Plugs holds a supply of the 14 most selling types, and enables the supplying instantly of the correct plug for any make of car, truck, tractor, motorcycle, motor boat or stationary engine. Chart showing correct spark plug for every motor is mounted in merchandiser for ready reference.

Packed 100 in carton, weight approximately 25 pounds. First class freight.

FIBRE PORCH FURNITURE

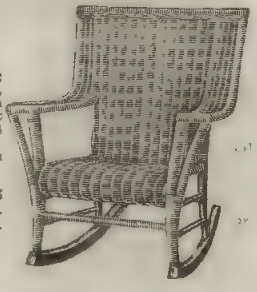
CHAIR

Hardwood frame, closely woven seat, back and arms. Width seat 19 inches; height back from seat 24 inches.

Each

No. 307FC Baronial brown finish $24 75

Wrapped singly; shipping weight each 18 lbs.



ROCKER

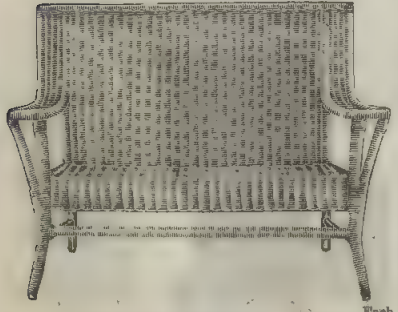
Hardwood frame; closely woven seat, back and arms. Width seat 19 inches; height back from seat 24 inches.

Each

No. 307FR - Baronial brown finish..... $24 75

Wrapped singly; shipping weight each 20 lbs.

SETTEE



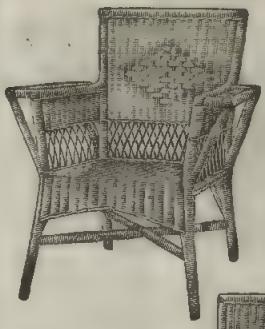
Each

No. 307FS—Hardwood frame; closely woven seat, back and arms. Width seat 39 inches; height back from seat 24 inches..... $41 25

Wrapped singly; shipping weight each 35 lbs.

FIBRE PORCH FURNITURE

—BLUE RIBBON—



FIBRE CHAIR

(Shown also on page 3041)

Each

No. BR2FC—Select fibre, baronial brown finish; wide arms; seat 20x20 ins.; height 33 inches. ..$32 25

Wrapped singly; shipping weight each 24 lbs.

FIBRE ROCKER

(Shown also on page 3041)

Each

No. BR2FR Select fibre, baronial brown finish; wide arms; seat 20x20 ins.; ht. 33 ins. $32 25

Wrapped singly; shipping weight each 36 lbs.

FIBRE SETTEE

(Shown also on page 3041)

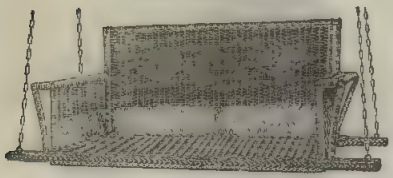
Each

No. BR2FS—Select fibre, baronial brown finish; wide arms; length 40 inches; height 33 inches..... $53 25

Wrapped singly; shipping weight each 45 lbs.

FIBRE PORCH FURNITURE

FIBRE SWINGS
—BLUE RIBBON—



Hardwood frame, covered with woven fibre, baronial brown finish. Complete with chains.

(Shown also on page 3044)

Nos.	BR20F-4	BR20F-5	BR20F-6
Length, feet	4	5	6
Weight each, lbs.	48	58	68
Each	$58 50	68 25	81 00

Well wrapped in heavy paper.

FIBRE TABLE
—BLUE RIBBON—

A stylish and well built veranda table. Legs are of seasoned hardwood, covered with woven fibre; quarter sawed oak top and shelf.

(Shown also on page 3044)

Each

No. BR3FT—Baronial brown finish; diameter top 27 in.; ht. 30 inches $32 25

Wrapped singly; shipping weight each 24 lbs.

FIBRE ROCKER

Hardwood frame closely woven seat and arms; fancy open-work back. Width seat 20 in.; height back from seat 27 inches.

(Shown also on page 3042)

Each

No. 943RB—Baronial brown finish $22 50

Two in a bundle; shipping weight each 15 lbs.

PORCH FURNITURE

MAPLE ROCKER

Each

No. 219—Maple natural finish; 2½ inch posts; cane seat 17x22 inches; height from seat to top of back 33 ins. $21 75

Two in a bundle, wrapped; shipped set up; shipping weight each 26 lbs.

MAPLE ROCKER

Each

No. 212—Maple, natural finish; 2 in. posts; cane seat and back; seat 17x22 in.; height from seat to top of back 30 inches $17 70

Two in a bundle; shipping weight each 20 lbs.

MAPLE SWING

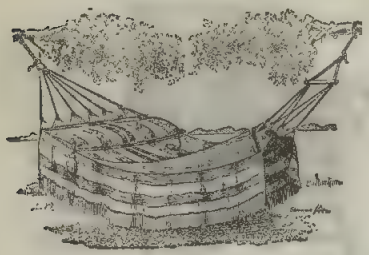
Each

No. 215—Maple, natural finish; 2 inch posts; wide arms; cane seat and slat back; seat 17½x38 inches; height from seat to top of back 25 inches $24 75

Packed singly, shipping weight each 32 lbs.

HAMMOCKS

—BLUE RIBBON—

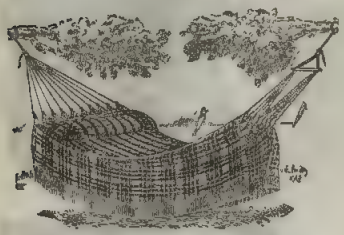


Per Dozen

No. 16BR—Size of bed 38x80 in.; close twill weave; the design is of conventional Jacquard figures with border and valance in striking contrast with the center. Colors, green, red and tan with green predominating. Lay back pillow with buttons and tassels; wide full valance with fringe; wt. per doz. 68 lbs.. $120 75

Wrapped singly.

—BLUE GRASS—



Per Dozen

No. 26CG—Size of bed 37x82 in.; close twill and seated weave. The pattern is a pleasing arrangement of stripes strengthened by a Corinthian design of pronounced and distinctive character. Colors, brown, green and yellow, with brown predominating. Lay back pillow with buttons and tassels; wide full valance with fringe; weight per dozen 60 lbs.....$140 25

Wrapped singly.

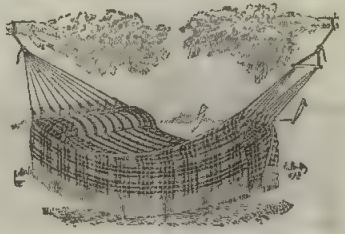
No. 34BG—Size of bed 38x80 in.; made of firm heavy canvas in rich coloring; red, green blue and khaki, with khaki predominating. Lay back pillow with buttons and tassels; wide full valance with fringe; weight per dozen 85 lbs..... 173 25

Wrapped singly.

No. 42BG—Size of bed 40x84 in.; close heavy twill and Marseilles weave. Carefully planned stripes well colored and firmly woven, make of this number an unusually smart and durable hammock. Colors, brown, black and white with brown predominating. Lay back pillow with buttons and tassels; wide full valance with fringe; wt. per dozen 91 lbs..... 237 75

Wrapped singly.

HAMMOCKS



—CYCLONE—

Per Dozen

No. 6C—Size of bed 36x78 in.; open gauge weave in attractive plaid patterns. Colors, red, black and green with red predominating. Regular pillow, wide full valance with fringe; wt. per dozen 88 lbs..... $60 00

Wrapped singly.

—BLUE RIBBON—

Per Dozen

No. 8BR—Size of bed 36x78 in.; close canvas weave, with tastefully colored stripes. Colors, brown, green and white, with brown predominating. Regular pillow, wide full valance with fringe; wt. per doz. 42 lbs....$66 00

No. 10BR—Size of bed 36x80 ins.; close twill weave; colored stripes strengthened by Jacquard figures of Roman pattern. Colors black, red and white with red predominating. Regular pillow with buttons and tassels; wide full valance with fringe; wt. per doz. 48 lbs 82 50

No. 17BR—Size of bed 38x80 in.; designed especially for the use of motorists campers and outing parties. An exceedingly strong and durable hammock being made of firm heavy canvas in khaki color. Made without spreaders, pillow or valance; **no bags furnished**; wt. per doz. 84 lbs.....107 25

Wrapped singly.

FIBRE PORCH ROCKERS

ROCKER

Hardwood frame; closely woven seat; back and arms. Width seat 20 in.; height back from seat 27 inches.

(Shown also on page 3042)

Each

No. 944RB Baronial brown finish $20 70

Two in a bundle; shipping weight each 15 lbs

"CENTURY"

Homer Laughlin trademarked. Light wt. white semi porcelain, first selection, scalloped edges, hollow pieces plain shirred, decorated pink rose sprays and cherry blossoms, green foliage. All pieces with gold edges and striped handles. **Open stock, sold in any quantity. No Package Charge.**

DINNER SETS

E12294—31 piece set.
Shipping weight about 40 lbs. SET. $3.30

E12296—42 piece set.
Shipping weight about 60 lbs. SET. $6.25

E12296—50 piece set.
Shipping weight about 80 lbs. SET. $7.80

E12292—100 piece set.
Shipping weight about 90 lbs. SET. $17.50

OPEN STOCK

CUPS AND SAUCERS—
E12295—Tea 2¾x2¾ in. saucer 5½ Doz. $2.25
PLATES—
E12218—6 in. sct. 6 Doz. $1.20
E12211 6 " " 7 " 1.36
E12215 " " 8 " 1.56
E12212 " " 9 " 1.85
E12213 " " 10 " 2.56
E12214—Deep nsm. 7 in. sct. 9 Doz. $2.40
E12227—Coupe soup. 7 in. sct. 9 Doz. $2.10
BAKER—
E12234—7 in. sct. 8¼x3½ Doz. $3.40

BOWL—
E12231—10 in. Doz. $3.25
PLATTERS—
E12242 12 in. sct 11¼x8¾ Doz. $3.60
E12245—16 " " 12¾x9¾ " 6.25
E12247 " 12 " 15¼x11¾ " 10.00
SALAD—
E12232—7 in. sct. 9 Doz. $4.20
FRUIT—
E12236—4 in. sct. 6 . . Doz. $0.90
OATMEAL—
E12245—10 in. Doz. $2.10
CREAMER—
E12276—10 in. Doz. $3.00

COVERED SUGAR—
E12277—10 in. Doz. $7.20
COVERED BUTTER—With drainer
E12278— " " Doz. $10.80
INDIVIDUAL BUTTER—
E12279—3½ in. Doz. $0.60
COVERED DISH—Oval
E12280—7 in. Doz. $13.80
CASSEROLE—Round.
E12281—7 in. Doz. $15.60
SAUCE BOAT—Without stand
E12282—6½x3 in. Doz. $4.80
PICKLE DISH
E12283—6½x5 in. Doz. $2.25

"LA SALLE"

Homer Laughlin trademarked. Light wt. white semi porcelain, R. K. selected, plain shape, wide left blue and verge line with blue medallions. **Open stock, sold in any quantity. No Package Charge.**

DINNER SETS

E12690—42 piece set.
Shipping weight about 46 lbs. SET. $7.15

E12696—50 piece set.
Shipping weight about 50 lbs. . . . . Temp. Out

E12693—100 piece set.
Shipping weight about 90 lbs. . . . SET. $19.95

OPEN STOCK

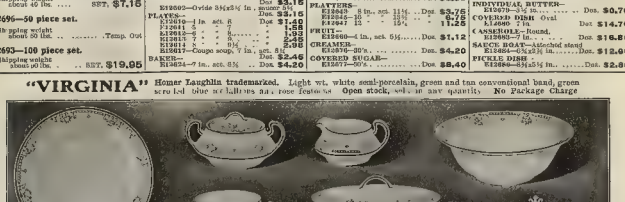
CUPS AND SAUCERS—
E12695—Tea 2¾x2¾ in. saucer 5½ Doz. $3.15
E12302—Oxide 3¾x2¾ in. saucer 5¾ Doz. $3.60
PLATES—
E12210—6 in. sct. 6 Doz. $1.40
E12211 6 " " 7 " 1.63
E12212—6 " " 8 " 1.93
E12213 " " 9 " 2.40
E12214 " " 10 " 2.96
E12227—Coupe soup, 7 in. sct. 8½ Doz. $2.46
BAKER—
E12234—7 in. sct. 8¼ . . . Doz. $4.20

BOWL—
E12231—10¼ in. . . . . Doz. $3.50
PLATTERS—
E12242 12 in. sct. 11¼ Doz. $3.75
E12245—16 " " 12¾ " 6.25
E12247 " 15¼ " 11.25
FRUIT—
E12260—4 in. sct. 6¼ . . . . Doz. $1.12
CREAMER—
E12276—10¼ in. . . . . Doz. $4.20
COVERED SUGAR—
E12277—10¼ in. . . . . Doz. $8.40

COVERED BUTTER—With drainer
E12278— " " . . . . Doz. $12.60
INDIVIDUAL BUTTER—
E12279—3½ in. . . . . Doz. $0.70
COVERED DISH Oval
E12280—7 in. Doz. $14.70
CASSEROLE—Round.
E12282—7 in. . . . . Doz. $16.80
SAUCE BOAT—Attached stand
E12285—6½x3¾ in. . . . . Doz. $12.60
PICKLE DISH
E12283—6½x5¼ in. . . . . Doz. $2.80

"VIRGINIA"

Homer Laughlin trademarked. Light wt. white semi-porcelain, green and tan conventional band, green scroll blue medallions and rose festoons. **Open stock, sold in any quantity. No Package Charge.**



DINNER SETS

E12894—31 piece set.
Shipping weight about 30 lbs. SET. $4.50

E12899—42 piece set.
Shipping weight about 60 lbs. SET. $8.25

E12896—50 piece set.
Shipping weight about 80 lbs. SET. $9.50

E12893—100 piece set.
Shipping weight about 90 lbs. SET. $22.60

OPEN STOCK

CUPS AND SAUCERS—
E12895—Tea 3½x2¾ in. saucer 5¼ Doz. $3.60
E12302—Oxide 3¾x2¾ in. saucer 5¾ Doz. $3.60
PLATES—
E12210—6 in. sct. 6 Doz. $1.00
E12211 6 " " 7 " 1.60
E12212—6 " " 8 " 2.00
E12213 " " 9 " 2.60
E12214 " " 10 " 3.40
E12247 Coupe soup 7 in. sct. 8½ Doz. $2.80
BAKER—
E12234—7 in. sct. 8¼x3½ Doz. $4.80

BOWL—
E12231—10¼ in. Doz. $4.00
PLATTERS—
E12242 12 in. sct. 11½ Doz. $4.50
E12245 16 " " 13¼ " 8.10
E12247 " 12 " 15¼ " 13.50
SALAD—
E12252 7 in. sct. 8½ Doz. $4.80
SPECIAL—
E12260—4 in. sct. 6¼ Doz. $1.20
OATMEAL—
E12245—10 in. . . . . Doz. $2.50
CREAMER—
E12276—10¼ in. Doz. $4.80

COVERED SUGAR—
E12277—10¼ in. Doz. $9.60
COVERED BUTTER—With drainer
E12278— " " Doz. $14.40
INDIVIDUAL BUTTER—
E12279—3½ in. Doz. $0.80
COVERED DISH—Oval
E12280—7 in. Doz. $16.80
CASSEROLE—Round.
E12282—7 in. . . . . Doz. $19.20
SAUCE BOAT—Without stand
E12286—7½ in. Doz. $6.80
PICKLE DISH—
E12289—6½x5¼ in. Doz. $3.25

Composition of Our Dinner Sets

31 Piece Set

6 cups
6 saucers
6 plates, 6 in.
6 plates, 7 in.
6 plates, 8 in.
1 platter 12 in.

We will give you quotation on any set you think you can sell.

42 Piece Set

6 tea cups
6 saucers
6 plates, 6 in.
6 plates, 7 in.
6 plates, 8 in.
6 plates, 9 in.
1 bowl, 10 in.
1 platter 12 in.
6 fruits, 4 in.
1 coved sugar (2 pcs.)
1 creamer
1 baker, 7 in.

50 Piece Set

6 tea cups
6 saucers
6 plates, 6 in.
6 plates, 7 in.
6 plates, 8 in.
6 plates, 9 in.
6 coupe soups
6 fruits, 4 in.
1 nappy, 7 in.
1 bowl, 10 in.
1 dish, 10 in.
1 creamer
1 coved sugar (2 pcs
1 coved dish (4 pcs.)

100 Piece Set

12 tea cups
12 saucers
12 plates, 6 in.
12 plates, 7 in.
12 plates, 8 in.
12 coupe soups
1 baker, 7 in.
1 platter, 8 in.
1 platter, 12 in.
12 fruits, 4 in.
1 coved sugar (2 pcs.),
1 creamer
1 butter dish (3 pcs.)
1 casserole (2 pcs.)
1 coved dish, 4 in. (5 pcs
1 sauce boat (3 pcs.)
1 pickle dish

"CAPITOL" WHITE & GOLD

Light weight white semi porcelain, highly glazed, new shapes, 3-16 in. gold band edges, gold ornamented handles. **Open stock,** sold in any quantity. **No Package Charge.**

DINNER SETS

E11894—31 piece set.

6 tea cups, 6 plates, 6 in.
6 saucers, 6 fruits, 4 in.
6 plates, 6 in. 1 platter 8 in.

Shipping weight about 50 lbs. SET **$4.10**

E11890—42 piece set.

6 tea cups, 1 bowl, 8½in.
6 saucers, 1 platter, 6 in.
6 plates, 6 in 6 fruits 4 in.
6 plates, 7 in 1 creamer
1 baker, 7 in 1 cover. sugar (2 pcs

Shipping weight about 60 lbs. SET (42 pcs.) **$5.35**

NO PACKAGE CHARGE

E11896—50 piece set.

6 tea cups, 1 salad, 7 in.
6 saucers, 1 bowl, 9½in.
6 plates 6 in 1 platter 13 in
6 plates, 7 in. 1 creamer
6 plates, 9 in. 1 cover. sugar (2 pcs.)
6 fruits, 4 in. 1 cover. dish (2 pcs.)

Shipping weight about 50 lbs SET (50 pcs.) **$6.90**

E11893—100a piece set.

12 tea cups 12 fruits, 4 in.
12 saucers, 1 creamer
12 plates, 6 in 1 cover. sugar (2 pcs
12 plates, 7 in. 1 cover. dish (2 pcs
12 plates, 9 in. 1 casserole (2 pcs.)
12 soups scups. 1 cover. dish, 9 in
1 baker, 7 in (2 pcs.)
1 platter, 13 in. 1 sauce boat (2 pcs.)
1 platter, 16 in. 1 pickle dish.

Shipping weight about 90 lbs SET (100 pcs.) **$14.95**

OPEN STOCK

CUPS AND SAUCERS—		
E11886—Tea 3¼x2⅛ in., saucer 5½	Doz.	$2.40
E11892—Grill 3¼x2½, " saucer 5½	Doz.	$2.25
PLATES—		
E11810—4 in., sce 6	Doz.	$1.05
E11811—5 " 7	"	1.20
E11812—6 " 8	"	1.45
E11813—7 " 9	"	1.85
E11814—8 " 10	"	2.25
E11817—Compo soup, 9 in., sct. 9¼	Doz.	$1.85
E11816—Deep soup, 9 in., sct. 9¼	Doz.	$2.10
BAKER—		
E11824—7 in., w. 8 ,vb.,	Doz.	$2.16
BOWLS—		
E11820—30 z	Doz.	$2.10
E11831—30½ z.	"	2.65
PLATTERS—		
E11840—7 in., sct. 10½	Doz.	$2.10
E11843—9 " " 11½	"	2.62
E11845—10 " " 13½	"	4.75
E11847—12 " " 15¾	"	6.60

SALAD—		
E11853—7 in., sct. 8½	Doz.	$3.15
FRUIT—		
E11850—4 in., sct 5 x	Doz.	$0.78
OATMEAL—		
E11855—5½z	Doz.	$1.65
CREAMER—		
E11870—5½ z.	Doz.	$3.15
COVERED SUGAR—		
E11877—30½ z.	Doz.	$6.30
COVERED BUTTER—		
E11879—7½ in.	Doz.	$9.45
INDIVIDUAL BUTTER		
E11878—3 in	Doz.	$0.65
COVERED DISHES—Oval		
E11890—7 in.	Doz	$11.75
E11891 8 "	"	13.20
CASSEROLE—Round		
E11805—7 in.	Doz	$13.20
SAUCE BOAT—Without stand		
E11865—7x4¼ in.	Doz.	$4.20
PICKLE DISH—		
E11856—8¼x5½ in.,	Doz.	$2.00

"PRESIDENTIAL"

"Kwaker" shape, light weight white semi porcelain, pastel tinted, blue, green, pink and yellow medallion border, gold edges and gold striped handle on hollow pieces. **No Package Charge.**

DINNER SETS

E13794—31 piece set.

6 tea cups 6 plates 6 in.
6 saucers. 6 fruits, 4 in.
6 plates, 4 in., 1 platter, 8 in
Shipping weight about 50 lbs. SET **$3.50**

E13790—42 piece set.

6 tea cups 1 bowl 30's
6 saucers 1 platter, 8 in.
6 plates, 4 in. 6 fruits, 4 in.
6 plates 6 in 1 creamer
6 plates 7 in 1 cover. sugar (2 pcs.)
1 baker, 7 in

Shipping weight about 60 lbs. SET (42 pcs.) **$6.00**

E13796—50 piece set.

6 tea cups 1 salad 7 in
6 saucers 1 bowl 30 z
6 plates, 4 in. 1 platter, 10 in.
6 plates, 6 in. 1 creamer
6 plates, 7 in 1 cover. sugar (2 pcs.)
6 soups scups 1 cover. dish 2 pcs.)
6 fruits, 4 in

Shipping weights about 50 lbs. SET (50 pcs.) **$8.10**

E13793—100 piece set.

12 tea cups. 12 fruits, 4 in.
12 saucers 1 cover. sugar (2 pcs.)
12 plates, 6 in 1 creamer
12 plates, 7 in 1 cover. dish 3 pcs)
12 plates, 9 in 1 casserole (2 pcs
12 soups scups. 1 cover. dish, 7 in.
1 baker, 7 in (2 pcs.)
1 platter, 12 in. 1 sauce boat (2 pcs)
1 platter, 15 in. 1 pickle dish

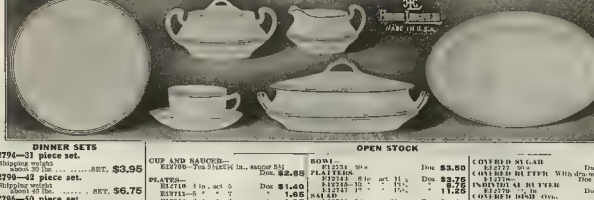
Shipping weights about 90 lbs SET (100 pcs) **$17.50**

OPEN STOCK

CUP AND SAUCER—		
E13786—Tea 3¼x2⅛ in., saucer 5½	Doz.	$2.50
PLATES—		
E13710—6 in., sct. 6	Doz.	$1.25
E13711—5 " 7	"	1.40
E13712—6 " 8	"	1.75
E13713—7 " 9	"	2.50
E13714—8 " 10½	"	2.70
E13717—Compo soup, 7 in., sct. 7½	Doz.	$2.20
BAKER—		
E13724—7 in., sct. 8½	Doz.	$3.75
BOWL—		
E13731 30 z	Doz.	$3.15
PLATTERS—		
E13743—8 in., sct. 11½	Doz.	$3.15
E13745—10 " " 13¾	"	6.45
E13747 12 " " 15¾	"	9.40

SALAD—		
E13732 7 in sct 8½	Doz.	$3.75
FRUIT—		
E13700—4 in., sct 5½	Doz.	0.95
OATMEAL—		
E13705—5½ z	Doz.	$1.95
CREAMER—		
E13770—5½ z.	Doz.	$3.75
COVERED SUGAR—		
E13777 30's	Doz.	$7.50
COVERED BUTTER—With drainer		
E13779—	Doz.	$11.25
COVERED DISH—Oval		
E13790—7 in	Doz	$13.20
CASSEROLE—Round		
E13780—7 in.	Doz	$16.00
SAUCE BOAT—Without stand		
E13765—7x4¼ in.	Doz	$11.25
PICKLE DISH—		
E13788—8¼x5½ in.	Doz	$3.75

"YALE" Homer Laughlin trademarked. Light cream white semi-porcelain, with blue band, inner gold line and edges, tinted handles. Open stock, sold in any quantity. No Package Charge.



DINNER SETS

E12794—31 piece set.
Shipping weight about 33 lbs. ..... NET, $3.95

E12795—42 piece set.
Shipping weight about 45 lbs. ..... NET, $6.75

E12796—50 piece set.
Shipping weight about 50 lbs. ..... NET $7.90

E12793—100 piece set.
Shipping weight about 90 lbs. ..... NET, $19.50

OPEN STOCK

CUP AND SAUCER—
E12796—Tea 3¼x2¾ in., saucer 5½ ..... Doz. $2.85

PLATES—
E12710 6 in., act. 5 ..... Doz $1.40
E12715—6 " " 7 " ..... " 1.65
E12712—7 " " 8 " ..... " 1.95
E12725—8 " " 9 " ..... " 2.20
E12717—Coupe soup, 7 in., act. 8½ ..... Doz $2.20

BAKER—
E12724 7 in., act. 8½x8½ ..... Doz. $4.20

BOWL—
E12720 10 in. ..... Doz $3.50

PLATTERS—
E12741 9 in., act. 11½ ..... Doz $2.75
E12742—10 " " 13½ ..... " 6.75
E12743 12 " " 16½ ..... " 11.25

SALAD—
E12752—7 in., act. 8½ ..... Doz $4.20

FRUIT—
E12726—4 in., act. 6 ..... Doz $1.05

OATMEAL—
E13763—36 oz. ..... Doz $2.20

CREAMER—
E13770—30 oz. ..... Doz $4.20

COVERED SUGAR
E12772 30 oz. ..... Doz $8.40

COVERED BUTTER With drainer
E12770 ..... Doz $12.60

INDIVIDUAL BUTTER
E12779 ..... Doz $0.76

COVERED DISH Oval
E12780 ..... Doz $14.70

CASSEROLE Round
E12785—7 in., Attached stand ..... Doz $16.80

SALTY ROAT Attached stand
E12784 6½x2¾ in. ..... Doz $5.60

PICKLE DISH—
E12788—8½x5½ in. ..... Doz $3.40

"BRISTOL" Homer Laughlin trademarked. Light weight white semi-porcelain, first selection, green band border with blue floral medallion, plus rose clusters, gold edges, tinted handles and knobs. Open stock, sold in any quantity. No Package Charge.

DINNER SETS

E12794—31 piece set.
Shipping weight about 33 lbs. ..... NET, $4.40

E12796—42 piece set.
Shipping weight about 45 lbs. ..... NET $6.95

E12795—50 piece set.
Shipping weight about 50 lbs. ..... NET, $10.00

E12793—100 piece set.
Shipping weight about 90 lbs. ..... NET, $25.50

OPEN STOCK

CUPS AND SAUCERS—
E12800—Tea 3½x2¾ in., saucer 5½ ..... Doz. $3.40

PLATES
E12802—6 in. 3½x2 in. saucer 5½ ..... Doz $3.40
E12810 6 in. act. 6 ..... Doz $1.50
E12815—7 " " 7 ..... " 1.70
E12811 8 " " 9 ..... " 2.75
E12814 9 " " 10 ..... " 3.25
E12817 Coupe soup 7 in. act. 8½ ..... Doz $2.75

BAKER Doz $4.50

BOWL—
E12820 10 in. ..... Doz $3.75

PLATTERS—
E12824 9 in. act. 11½ ..... Doz $3.75
E12825—10 " " 13½ ..... " 7.50
E12826—12 " " 16½ ..... " 12.00

SALAD—
E12852—7 in., act. 8½ ..... Doz $4.50

FRUIT—
E12806 4 in. act. 5½ ..... Doz $1.10

OATMEAL—
E13763 36 oz. ..... Doz $2.25

CREAMER
E13776—32 oz. ..... Doz $4.50

COVERED SUGAR
E12872 30 oz. ..... Doz $ 9.00

COVERED BUTTER With drainer
E12870 ..... Doz $13.50

INDIVIDUAL BUTTER
E12879 ..... Doz $0.80

COVERED DISH Oval
E12880—7 in. ..... Doz $15.75

CASSEROLE Round
E12885—7 in. ..... Doz $18.00

SALT BOAT Attached stand
E12884 6½x2¾ in. ..... Doz $13.50

PICKLE DISH
E12888—8½x5½ in. ..... Doz $4.50

"NEW CONGRESSIONAL" Homer Laughlin trademarked. Light white semi-porcelain, Kwaker shape of the best grade, with border, half rose gold bevelled, base of upright pieces coin gold traced. Open stock, sold in any quantity. No Package Charge.

DINNER SETS

E13890—42 piece set.
Shipping weight about 40 lbs. ..... NET, $9.95

E13895—50 piece set.
Shipping weight about 50 lbs. ..... NET Net

E13892—100 piece set.
Shipping weight about 90 lbs. ..... NET, $28.95

OPEN STOCK

CUP AND SAUCER
E13900 Tea 3¼x2¾ in. saucer 5½ ..... Doz. $4.40

PLATES
E13910 4 in. act. 6 ..... Doz $1.95
E13911 6 " " 7 ..... " 2.25
E13912 6 " " 8 ..... " 2.50
E13913—7 " " 9 ..... " 3.50
E13914 8 " " 9½ ..... " 4.15
E13917—Coupe soup, 7 in., act. 8½ ..... Doz $3.50

BAKER
E13824—7 in. act. 8½ ..... Doz $6.00

BOWL—
E13831—10 in. ..... Doz $5.00

PLATTERS—
E13841 9 in. act. 11½ ..... Doz $6.00
E13842—10 " " 13½ ..... " 10.80
E13847 12 " " 16½ ..... " 18.00

SALAD—
E13866—7 in. act. 8½ ..... Doz $1.50

OATMEAL—
E13863 36 oz. ..... Doz $3.10

CREAMER
E13876—30 oz. ..... Doz $6.00

COVERED SUGAR
E13827 32 oz. ..... Doz $12.00

COVERED BUTTER
E13820 ..... Doz $18.00

INDIVIDUAL BUTTER
E13879 ..... Doz $0.98

COVERED DISH Oval
E13868 ..... Doz $23.20

CASSEROLE Round
E13885—7 in., act. 8½ ..... Doz $24.00

SALT BOAT Attached stand
E13884 6½x2¾ in. ..... Doz $19.20

PICKLE DISH—
E13888—8½x5½ in. ..... Doz $6.00

Composition of Our Dinner Sets

31 Piece Set	42 Piece Set	50 Piece Set	100 Piece Set
6 cups 6 fruits, 4 in.	6 tea cups. 1 bowl, 10 in.	6 tea cups. 1 saucer, 7 in.	12 tea cups. 12 fruits, 4 in.
6 saucers. 6 plates, 6 in.	6 saucers. 1 platter, 9 in.	6 saucers. 1 bowl, 10 in.	12 saucers 1 bowl sugar (2 pcs.).
6 plates, 6 in. 1 platter 9 in.	6 plates, 4 in. 6 fruits, 4 in.	6 plates, 4 in. 1 dish 12 in	12 plates, 6 in 1 creamer
	6 plates, 6 in. 1 cov. sugar (2 pcs.)	6 plates, 6 in. 1 creamer	12 plates, 7 in. 1 butter dish (2 pcs.)
We will quote prices on any composition you think you can sell.	6 plates, 7 in. 1 creamer.	6 plates, 7 in. 1 cov. sugar (2 pcs.)	12 plates 9 in. 1 casserole (2 pcs.)
	1 baker, 7 in.	6 fruits, 4 in. 6 coupe soups. 1 cov. dish (3 pcs.).	12 fruits, 4 in. 1 platter, 12 in. 1 dish, 7 in
			12 soups, 7 in. 1 sugar 7 in.
			1 platter 9 in. 1 sauce boat (3 pcs.).
			1 platter, 12 in. 1 pickle dish.

"CAPITOL" WHITE & GOLD

Light weight white semi porcelain, highly glazed, new shapes, 3-16 in. gold band edges, gold ornamented handles. **Open stock,** sold in any quantity. **No Package Charge.**

DINNER SETS

E11894—31 piece set.

6 tea cups, 6 plates, 6 in.
6 saucers, 6 fruits, 4 in.
6 plates, 6 in. 1 platter 8 in.

Shipping weight about 50 lbs. SET **$4.10**

E11890—42 piece set.

6 tea cups, 1 bowl, 8½in.
6 saucers, 1 platter, 6 in.
6 plates, 6 in 6 fruits 4 in.
6 plates, 7 in 1 creamer
1 baker, 7 in 1 cover. sugar (2 pcs

Shipping weight about 60 lbs. SET (42 pcs.) **$5.35**

NO PACKAGE CHARGE

E11896—50 piece set.

6 tea cups, 1 salad, 7 in.
6 saucers, 1 bowl, 9½in.
6 plates 6 in 1 platter 13 in
6 plates, 7 in. 1 creamer
6 plates, 9 in. 1 cover. sugar (2 pcs.)
6 fruits, 4 in. 1 cover. dish (2 pcs.)

Shipping weight about 50 lbs SET (50 pcs.) **$6.90**

E11893—100a piece set.

12 tea cups 12 fruits, 4 in.
12 saucers, 1 creamer
12 plates, 6 in 1 cover. sugar (2 pcs
12 plates, 7 in. 1 cover. dish (2 pcs
12 plates, 9 in. 1 casserole (2 pcs.)
12 soups scups. 1 cover. dish, 9 in
1 baker, 7 in (2 pcs.)
1 platter, 13 in. 1 sauce boat (2 pcs.)
1 platter, 16 in. 1 pickle dish.

Shipping weight about 90 lbs SET (100 pcs.) **$14.95**

OPEN STOCK

CUPS AND SAUCERS—		
E11886—Tea 3¼x2⅛ in., saucer 5½	Doz.	$2.40
E11892—Grill 3¼x2½, " saucer 5½	Doz.	$2.25
PLATES—		
E11810—4 in., sce 6	Doz.	$1.05
E11811—5 " 7	"	1.20
E11812—6 " 8	"	1.45
E11813—7 " 9	"	1.85
E11814—8 " 10	"	2.25
E11817—Compo soup, 9 in., sct. 9¼	Doz.	$1.85
E11816—Deep soup, 9 in., sct. 9¼	Doz.	$2.10
BAKER—		
E11824—7 in., w. 8 ,vb.,	Doz.	$2.16
BOWLS—		
E11820—30 z	Doz.	$2.10
E11831—30½ z.	"	2.65
PLATTERS—		
E11840—7 in., sct. 10½	Doz.	$2.10
E11843—9 " " 11½	"	2.62
E11845—10 " " 13½	"	4.75
E11847—12 " " 15¾	"	6.60

SALAD—		
E11853—7 in., sct. 8½	Doz.	$3.15
FRUIT—		
E11850—4 in., sct 5 x	Doz.	$0.78
OATMEAL—		
E11855—5½z	Doz.	$1.65
CREAMER—		
E11870—5½ z.	Doz.	$3.15
COVERED SUGAR—		
E11877—30½ z.	Doz.	$6.30
COVERED BUTTER—		
E11879—7½ in.	Doz.	$9.45
INDIVIDUAL BUTTER		
E11878—3 in	Doz.	$0.65
COVERED DISHES—Oval		
E11890—7 in.	Doz	$11.75
E11891 8 "	"	13.20
CASSEROLE—Round		
E11805—7 in.	Doz	$13.20
SAUCE BOAT—Without stand		
E11865—7x4¼ in.	Doz.	$4.20
PICKLE DISH—		
E11856—8¼x5½ in.,	Doz.	$2.00

"PRESIDENTIAL"

"Kwaker" shape, light weight white semi porcelain, pastel tinted, blue, green, pink and yellow medallion border, gold edges and gold striped handle on hollow pieces. **No Package Charge.**

DINNER SETS

E13794—31 piece set.

6 tea cups 6 plates 6 in.
6 saucers. 6 fruits, 4 in.
6 plates, 4 in., 1 platter, 8 in
Shipping weight about 50 lbs. SET **$3.50**

E13790—42 piece set.

6 tea cups 1 bowl 30's
6 saucers 1 platter, 8 in.
6 plates, 4 in. 6 fruits, 4 in.
6 plates 6 in 1 creamer
6 plates 7 in 1 cover. sugar (2 pcs.)
1 baker, 7 in

Shipping weight about 60 lbs. SET (42 pcs.) **$6.00**

E13796—50 piece set.

6 tea cups 1 salad 7 in
6 saucers 1 bowl 30 z
6 plates, 4 in. 1 platter, 10 in.
6 plates, 6 in. 1 creamer
6 plates, 7 in 1 cover. sugar (2 pcs.)
6 soups scups 1 cover. dish 2 pcs.)
6 fruits, 4 in

Shipping weights about 50 lbs. SET (50 pcs.) **$8.10**

E13793—100 piece set.

12 tea cups. 12 fruits, 4 in.
12 saucers 1 cover. sugar (2 pcs.)
12 plates, 6 in 1 creamer
12 plates, 7 in 1 cover. dish 3 pcs)
12 plates, 9 in 1 casserole (2 pcs
12 soups scups. 1 cover. dish, 7 in.
1 baker, 7 in (2 pcs.)
1 platter, 12 in. 1 sauce boat (2 pcs)
1 platter, 15 in. 1 pickle dish

Shipping weights about 90 lbs SET (100 pcs) **$17.50**

OPEN STOCK

CUP AND SAUCER—		
E13786—Tea 3¼x2⅛ in., saucer 5½	Doz.	$2.50
PLATES—		
E13710—6 in., sct. 6	Doz.	$1.25
E13711—5 " 7	"	1.40
E13712—6 " 8	"	1.75
E13713—7 " 9	"	2.50
E13714—8 " 10½	"	2.70
E13717—Compo soup, 7 in., sct. 7½	Doz.	$2.20
BAKER—		
E13724—7 in., sct. 8½	Doz.	$3.75
BOWL—		
E13731 30 z	Doz.	$3.15
PLATTERS—		
E13743—8 in., sct. 11½	Doz.	$3.15
E13745—10 " " 13¾	"	6.45
E13747 12 " " 15¾	"	9.40

SALAD—		
E13732 7 in sct 8½	Doz.	$3.75
FRUIT—		
E13700—4 in., sct 5½	Doz.	0.95
OATMEAL—		
E13705—5½ z	Doz.	$1.95
CREAMER—		
E13770—5½ z.	Doz.	$3.75
COVERED SUGAR—		
E13777 30's	Doz.	$7.50
COVERED BUTTER—With drainer		
E13779—	Doz.	$11.25
COVERED DISH—Oval		
E13790—7 in	Doz	$13.20
CASSEROLE—Round		
E13780—7 in.	Doz	$16.00
SAUCE BOAT—Without stand		
E13765—7x4¼ in.	Doz	$11.25
PICKLE DISH—		
E13788—8¼x5½ in.	Doz	$3.75

"CENTURY"

Homer Laughlin trademarked. Light wt. white semi porcelain, first selection, scalloped edges, hollow pieces plain shirred, decorated pink rose sprays and cherry blossoms, green foliage. All pieces with gold edges and striped handles. **Open stock, sold in any quantity. No Package Charge.**

DINNER SETS

E12294—31 piece set.
Shipping weight about 40 lbs. SET. $3.30

E12296—42 piece set.
Shipping weight about 60 lbs. SET. $6.25

E12296—50 piece set.
Shipping weight about 80 lbs. SET. $7.80

E12292—100 piece set.
Shipping weight about 90 lbs. SET. $17.50

OPEN STOCK

CUPS AND SAUCERS—
E12295—Tea 2¾x2¾ in. saucer 5½ Doz. $2.25
PLATES—
E12218—6 in. sct. 6 Doz. $1.20
E12211 6 " " 7 " 1.36
E12215 " " 8 " 1.56
E12212 " " 9 " 1.85
E12213 " " 10 " 2.56
E12214—Deep nsm. 7 in. sct. 9 Doz. $2.40
E12227—Coupe soup. 7 in. sct. 9 Doz. $2.10
BAKER—
E12234—7 in. sct. 8¼x3½ Doz. $3.40

BOWL—
E12231—10 in. Doz. $3.25
PLATTERS—
E12242 12 in. sct 11¼x8¾ Doz. $3.60
E12245—16 " " 12¾x9¾ " 6.25
E12247 " 12 " 15¼x11¾ " 10.00
SALAD—
E12232—7 in. sct. 9 Doz. $4.20
FRUIT—
E12236—4 in. sct. 6 . . Doz. $0.90
OATMEAL—
E12245—10 in. Doz. $2.10
CREAMER—
E12276—10 in. Doz. $3.00

COVERED SUGAR—
E12277—10 in. Doz. $7.20
COVERED BUTTER—With drainer
E12278— " " Doz. $10.80
INDIVIDUAL BUTTER—
E12279—3½ in. Doz. $0.60
COVERED DISH—Oval
E12280—7 in. Doz. $13.80
CASSEROLE—Round.
E12281—7 in. Doz. $15.60
SAUCE BOAT—Without stand
E12282—6½x3 in. Doz. $4.80
PICKLE DISH
E12283—6½x5 in. Doz. $2.25

"LA SALLE"

Homer Laughlin trademarked. Light wt. white semi porcelain, R. K. selected, plain shape, wide left blue and verge line with blue medallions. **Open stock, sold in any quantity. No Package Charge.**

DINNER SETS

E12690—42 piece set.
Shipping weight about 46 lbs. SET. $7.15

E12696—50 piece set.
Shipping weight about 50 lbs. . . . . Temp. Out

E12693—100 piece set.
Shipping weight about 90 lbs. . . . SET. $19.95

OPEN STOCK

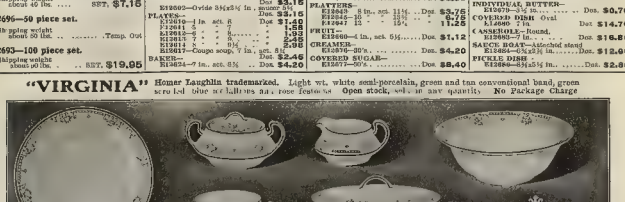
CUPS AND SAUCERS—
E12695—Tea 2¾x2¾ in. saucer 5½ Doz. $3.15
E12302—Oxide 3¾x2¾ in. saucer 5¾ Doz. $3.60
PLATES—
E12210—6 in. sct. 6 Doz. $1.40
E12211 6 " " 7 " 1.63
E12212—6 " " 8 " 1.93
E12213 " " 9 " 2.40
E12214 " " 10 " 2.96
E12227—Coupe soup, 7 in. sct. 8½ Doz. $2.46
BAKER—
E12234—7 in. sct. 8¼ . . . Doz. $4.20

BOWL—
E12231—10¼ in. . . . . Doz. $3.50
PLATTERS—
E12242 12 in. sct. 11¼ Doz. $3.75
E12245—16 " " 12¾ " 6.25
E12247 " 15¼ " 11.25
FRUIT—
E12260—4 in. sct. 6¼ . . . . Doz. $1.12
CREAMER—
E12276—10¼ in. . . . . Doz. $4.20
COVERED SUGAR—
E12277—10¼ in. . . . . Doz. $8.40

COVERED BUTTER—With drainer
E12278— " " . . . . Doz. $12.60
INDIVIDUAL BUTTER—
E12279—3½ in. . . . . Doz. $0.70
COVERED DISH Oval
E12280—7 in. Doz. $14.70
CASSEROLE—Round.
E12282—7 in. . . . . Doz. $16.80
SAUCE BOAT—Attached stand
E12285—6½x3¾ in. . . . . Doz. $12.60
PICKLE DISH
E12283—6½x5¼ in. . . . . Doz. $2.80

"VIRGINIA"

Homer Laughlin trademarked. Light wt. white semi-porcelain, green and tan conventional band, green scroll blue medallions and rose festoons. **Open stock, sold in any quantity. No Package Charge.**



DINNER SETS

E12894—31 piece set.
Shipping weight about 30 lbs. SET. $4.50

E12899—42 piece set.
Shipping weight about 60 lbs. SET. $8.25

E12896—50 piece set.
Shipping weight about 80 lbs. SET. $9.50

E12893—100 piece set.
Shipping weight about 90 lbs. SET. $22.60

OPEN STOCK

CUPS AND SAUCERS—
E12895—Tea 3½x2¾ in. saucer 5¼ Doz. $3.60
E12302—Oxide 3¾x2¾ in. saucer 5¾ Doz. $3.60
PLATES—
E12210—6 in. sct. 6 Doz. $1.00
E12211 6 " " 7 " 1.60
E12212—6 " " 8 " 2.00
E12213 " " 9 " 2.60
E12214 " " 10 " 3.40
E12247 Coupe soup 7 in. sct. 8½ Doz. $2.80
BAKER—
E12234—7 in. sct. 8¼x3½ Doz. $4.80

BOWL—
E12231—10¼ in. Doz. $4.00
PLATTERS—
E12242 12 in. sct. 11½ Doz. $4.50
E12245 16 " " 13¼ " 8.10
E12247 " 12 " 15¼ " 13.50
SALAD—
E12252 7 in. sct. 8½ Doz. $4.80
SPECIAL—
E12260—4 in. sct. 6¼ Doz. $1.20
OATMEAL—
E12245—10 in. . . . . Doz. $2.50
CREAMER—
E12276—10¼ in. Doz. $4.80

COVERED SUGAR—
E12277—10¼ in. Doz. $9.60
COVERED BUTTER—With drainer
E12278— " " Doz. $14.40
INDIVIDUAL BUTTER—
E12279—3½ in. Doz. $0.80
COVERED DISH—Oval
E12280—7 in. Doz. $16.80
CASSEROLE—Round.
E12282—7 in. . . . . Doz. $19.20
SAUCE BOAT—Without stand
E12286—7½ in. Doz. $6.80
PICKLE DISH—
E12289—6½x5¼ in. Doz. $3.25

Composition of Our Dinner Sets

31 Piece Set

6 cups
6 saucers
6 plates, 6 in.
6 plates, 7 in.
6 plates, 8 in.
1 platter 12 in.

We will give you quotation on any set you think you can sell.

42 Piece Set

6 tea cups
6 saucers
6 plates, 6 in.
6 plates, 7 in.
6 plates, 8 in.
6 plates, 9 in.
1 bowl, 10 in.
1 platter 12 in.
6 fruits, 4 in.
1 coved sugar (2 pcs.)
1 creamer
1 baker, 7 in.

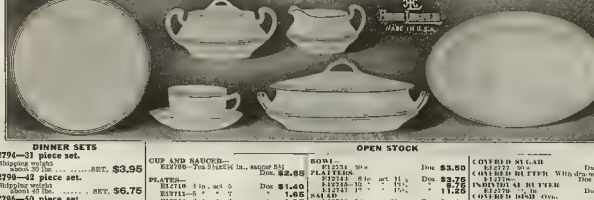
50 Piece Set

6 tea cups
6 saucers
6 plates, 6 in.
6 plates, 7 in.
6 plates, 8 in.
6 plates, 9 in.
6 coupe soups
6 fruits, 4 in.
1 nappy, 7 in.
1 bowl, 10 in.
1 dish, 10 in.
1 creamer
1 coved sugar (2 pcs
1 coved dish (4 pcs.)

100 Piece Set

12 tea cups
12 saucers
12 plates, 6 in.
12 plates, 7 in.
12 plates, 8 in.
12 coupe soups
1 baker, 7 in.
1 platter, 8 in.
1 platter, 12 in.
12 fruits, 4 in.
1 coved sugar (2 pcs.),
1 creamer
1 butter dish (3 pcs.)
1 casserole (2 pcs.)
1 coved dish, 4 in. (5 pcs
1 sauce boat (3 pcs.)
1 pickle dish

"YALE" Homer Laughlin trademarked. Light cream white semi-porcelain, with blue band, inner gold line and edges, tinted handles. Open stock, sold in any quantity. No Package Charge.



DINNER SETS

E12794—31 piece set.
Shipping weight about 33 lbs. ..... NET, $3.95

E12795—42 piece set.
Shipping weight about 45 lbs. ..... NET, $6.75

E12796—50 piece set.
Shipping weight about 50 lbs. ..... NET $7.90

E12793—100 piece set.
Shipping weight about 90 lbs. ..... NET, $19.50

OPEN STOCK

CUP AND SAUCER—
E12796—Tea 3¼x2¾ in., saucer 5½ ..... Doz. $2.85

PLATES—
E12710 6 in., act. 5 ..... Doz $1.40
E12715—6 " " 7 " ..... " 1.65
E12712—7 " " 8 " ..... " 1.95
E12725—8 " " 9 " ..... " 2.20
E12717—Coupe soup, 7 in., act. 8½ ..... Doz $2.20

BAKER—
E12724 7 in., act. 8½x8½ ..... Doz. $4.20

BOWL—
E12720 10 in. ..... Doz $3.50

PLATTERS—
E12741 9 in., act. 11½ ..... Doz $2.75
E12742—10 " " 13½ ..... " 6.75
E12743 12 " " 16½ ..... " 11.25

SALAD—
E12752—7 in., act. 8½ ..... Doz $4.20

FRUIT—
E12726—4 in., act. 6 ..... Doz $1.05

OATMEAL—
E13763—36 oz. ..... Doz $2.20

CREAMER—
E13770—30 oz. ..... Doz $4.20

COVERED SUGAR
E12772 30 oz. ..... Doz $8.40

COVERED BUTTER With drainer
E12770 ..... Doz $12.60

INDIVIDUAL BUTTER
E12779 ..... Doz $0.76

COVERED DISH Oval
E12780 ..... Doz $14.70

CASSEROLE Round
E12785—7 in., Attached stand ..... Doz $16.80

SALTY ROAT Attached stand
E12784 6½x2¾ in. ..... Doz $5.60

PICKLE DISH—
E12788—8½x5½ in. ..... Doz $3.40

"BRISTOL" Homer Laughlin trademarked. Light weight white semi-porcelain, first selection, green band border with blue floral medallion, plus rose clusters, gold edges, tinted handles and knobs. Open stock, sold in any quantity. No Package Charge.

DINNER SETS

E12794—31 piece set.
Shipping weight about 33 lbs. ..... NET, $4.40

E12796—42 piece set.
Shipping weight about 45 lbs. ..... NET $6.95

E12795—50 piece set.
Shipping weight about 50 lbs. ..... NET, $10.00

E12793—100 piece set.
Shipping weight about 90 lbs. ..... NET, $25.50

OPEN STOCK

CUPS AND SAUCERS—
E12800—Tea 3½x2¾ in., saucer 5½ ..... Doz. $3.40

PLATES
E12802—6 in. 3½x2 in. saucer 5½ ..... Doz $3.40
E12810 6 in. act. 6 ..... Doz $1.50
E12815—7 " " 7 ..... " 1.70
E12811 8 " " 9 ..... " 2.75
E12814 9 " " 10 ..... " 3.25
E12817 Coupe soup 7 in. act. 8½ ..... Doz $2.75

BAKER Doz $4.50

BOWL—
E12820 10 in. ..... Doz $3.75

PLATTERS—
E12824 9 in. act. 11½ ..... Doz $3.75
E12825—10 " " 13½ ..... " 7.50
E12826—12 " " 16½ ..... " 12.00

SALAD—
E12852—7 in., act. 8½ ..... Doz $4.50

FRUIT—
E12806 4 in. act. 5½ ..... Doz $1.10

OATMEAL—
E13763 36 oz. ..... Doz $2.25

CREAMER
E13776—32 oz. ..... Doz $4.50

COVERED SUGAR
E12872 30 oz. ..... Doz $ 9.00

COVERED BUTTER With drainer
E12870 ..... Doz $13.50

INDIVIDUAL BUTTER
E12879 ..... Doz $0.80

COVERED DISH Oval
E12880—7 in. ..... Doz $15.75

CASSEROLE Round
E12885—7 in. ..... Doz $18.00

SALT BOAT Attached stand
E12884 6½x2¾ in. ..... Doz $13.50

PICKLE DISH
E12888—8½x5½ in. ..... Doz $4.50

"NEW CONGRESSIONAL" Homer Laughlin trademarked. Light white semi-porcelain, Kwaker shape of the best grade, with border, half rose gold bevelled, base of upright pieces coin gold traced. Open stock, sold in any quantity. No Package Charge.

DINNER SETS

E13890—42 piece set.
Shipping weight about 40 lbs. ..... NET, $9.95

E13895—50 piece set.
Shipping weight about 50 lbs. ..... NET Net

E13892—100 piece set.
Shipping weight about 90 lbs. ..... NET, $28.95

OPEN STOCK

CUP AND SAUCER
E13900 Tea 3¼x2¾ in. saucer 5½ ..... Doz. $4.40

PLATES
E13910 4 in. act. 6 ..... Doz $1.95
E13911 6 " " 7 ..... " 2.25
E13912 6 " " 8 ..... " 2.50
E13913—7 " " 9 ..... " 3.50
E13914 8 " " 9½ ..... " 4.15
E13917—Coupe soup, 7 in., act. 8½ ..... Doz $3.50

BAKER
E13824—7 in. act. 8½ ..... Doz $6.00

BOWL—
E13831—10 in. ..... Doz $5.00

PLATTERS—
E13841 9 in. act. 11½ ..... Doz $6.00
E13842—10 " " 13½ ..... " 10.80
E13847 12 " " 16½ ..... " 18.00

SALAD—
E13866—7 in. act. 8½ ..... Doz $1.50

OATMEAL—
E13863 36 oz. ..... Doz $3.10

CREAMER
E13876—30 oz. ..... Doz $6.00

COVERED SUGAR
E13827 32 oz. ..... Doz $12.00

COVERED BUTTER
E13820 ..... Doz $18.00

INDIVIDUAL BUTTER
E13879 ..... Doz $0.98

COVERED DISH Oval
E13868 ..... Doz $23.20

CASSEROLE Round
E13885—7 in., act. 8½ ..... Doz $24.00

SALT BOAT Attached stand
E13884 6½x2¾ in. ..... Doz $19.20

PICKLE DISH—
E13888—8½x5½ in. ..... Doz $6.00

Composition of Our Dinner Sets

31 Piece Set	42 Piece Set	50 Piece Set	100 Piece Set
6 cups 6 fruits, 4 in.	6 tea cups. 1 bowl, 10 in.	6 tea cups. 1 saucer, 7 in.	12 tea cups. 12 fruits, 4 in.
6 saucers. 6 plates, 6 in.	6 saucers. 1 platter, 9 in.	6 saucers. 1 bowl, 10 in.	12 saucers 1 bowl sugar (2 pcs.).
6 plates, 6 in. 1 platter 9 in.	6 plates, 4 in. 6 fruits, 4 in.	6 plates, 4 in. 1 dish 12 in	12 plates, 6 in 1 creamer
	6 plates, 6 in. 1 cov. sugar (2 pcs.)	6 plates, 6 in. 1 creamer	12 plates, 7 in. 1 butter dish (2 pcs.)
We will quote prices on any composition you think you can sell.	6 plates, 7 in. 1 creamer.	6 plates, 7 in. 1 cov. sugar (2 pcs.)	12 plates 9 in. 1 casserole (2 pcs.)
	1 baker, 7 in.	6 fruits, 4 in. 6 coupe soups. 1 cov. dish (3 pcs.).	12 fruits, 4 in. 1 platter, 12 in. 1 dish, 7 in
			12 soups, 7 in. 1 sugar 7 in.
			1 platter 9 in. 1 sauce boat (3 pcs.).
			1 platter, 12 in. 1 pickle dish.

KITCHEN CABINETS

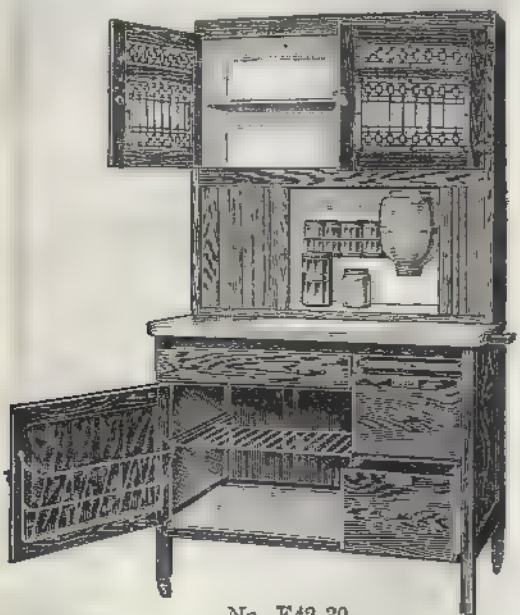
MADE OF WOOD

No. F80 25.

Height 70 in., width 40 in., depth 25 in. Nickel trimmings. Interior of top compartments white enameled. Drop roll curtain, glass jar equipment, metal bread and cake drawer. Albairon white porcelain sliding top. Shiping weight 200 lbs.

No. F80-25—Oak, finished golden oak, waxed, each★ $65.90

No. F80E-25E—Finished in Snow White Enamel, each★ $76.50



No. F42-30.

Nickeled trimmings Interior of top compartments white enameled. Side roll curtain. Glass jar equipment. Albairon white porcelain sliding top. Note extra roomy top compartments on account of omitting flour bin. The two deep drawers in base are for flour and bread. Height 70 in., width 40 in., depth 26 in. Shipping weight 220 lbs.,

No. F42-30—Oak, finished golden oak★ ...each $61.60

No. F42E-30E—Snow White Enamel Finish thruout, each★ $72.20

No. F43-30.

Nickeled trimmings. Glass jar equipment including white enameled wood bin for sugar. Interior of top compartment white enameled. Albairon white porcelain sliding top. Florentine glass in two large doors. Height 70 in., width 40 in., depth 26 in., shipping weight 210 lbs.

No. F43-30—Oak, golden oak finish,★ ..each $71.20

No. 43E-30E—Finished in Snow White Enamel thruout, each★ $81.80

No. F74E-16E.

Nickeled trimmings. Drop roll curtain. Glass jar equipment. Metal Bread and Cake drawer. Albairon white porcelain sliding top, height 70 in., width 40 in., depth 28 in., shipping weight 250 lbs.

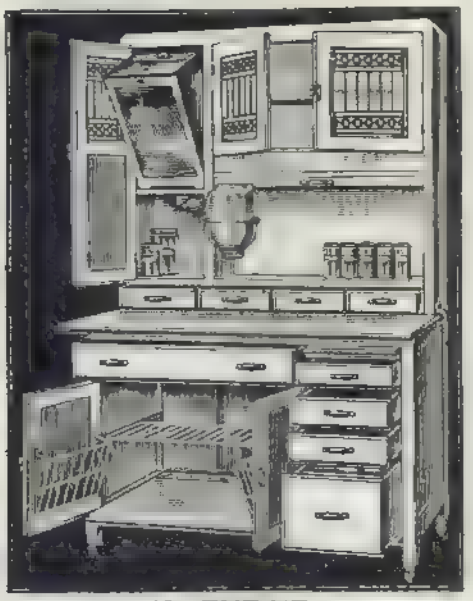
No. F74E-16E—Snow white enamel finish thruout, each★ $88.20

No. F74-16—Oak, golden oak finish★ .....each $77.50

★ Items Marked Thus ★ Are Shipped From Factory Only.

KITCHEN CABINETS

MADE OF WOOD



No. F86E-91E.

Nickeled trimmings, drop roll curtain, glass jar equipment, metal bread and cake drawer. Albairon white porcelain sliding top, height 73 in., width 48 in., depth 28, in., shipping weight 260 lbs.

No. F86E-91E—Snow white enamel finish thruout, each★ $112.60

No. F86-91—Oak, golden oak finish★ . . .each $102.00

No. F85-90.

Nickeled trimmings., interior of top compartments white enameled, drop roll curtain, glass jar equipment, metal bread and cake drawer, metal pastry cooler, Albairon white porcelain sliding top, height 73 in., width 56 in., depth 28 in., shipping weight 330 lbs.

No. F85-90—Oak, finished golden oak, each★ $119.00

No. F85E-90E—Snow white enamel thruout, each★ $131.90

OAK

No. F75E-35E— Snow white enamel finish, nickeled trimmings, drop roll curtain, glass jar equipment, metal bread and cake drawer, handy seat as shown, albairon white porcelain sliding top, height 70 in., width 40 in., depth 28 in., shipping weight 250 lbs.★ each $91.40

Nickeled trimmings, side roll curtains, glass jar equipment, sliding table top. The two deep drawers are for flour and bread. The flour bin being left out of the top leaves extra large roomy compartments. Height 70 in., width 40 in., depth 25 in., w't each about 200 lbs.

No. F40-30P—Golden oak kitchen cabinet, **polished metal top★** .....each $57.40

No. F40-30A—Golden oak kitchen cabinet, **porcelain top★** .....each $63.80

No. F40E-30EP—White enamel oak kitchen cabinet, **polished metal top★** .....each $68.00

No. F40E-30EA—White enamel oak kitchen cabinet, **porcelain top★** .....each $74.40

★ Items Marked Thus ★ Are Shipped From Factory Only.

STEEL KITCHEN CABINETS

STEEL, ENAMELED WHITE

A structural steel frame far superior to sheet steel.

Strongly built, every joint is welded with oxy-acetylene gas, body is die pressed and electrically welded to the frame.

They will never sag or vibrate, each coat of enamel is baked on.

The doors and drawers work on the structural frame.

Dimensions—The table is 33 in. high, 28 in. deep and 40½ in. wide. It is a full extension top and may be removed at will. The upper cabinet is 36 in. high, 12 in. deep and 40 in. wide. The total height is 69 in.

Coffee, Tea and Five Spice Jars of crystal glass, with screw caps and a measuring cup, are included.

Finish—White enamel thruout. W't 300 lbs. each.

No. F2—Porcelain Table Top★ .....each $94.50

No. F2N—Nickeloid Table Top★ .....each $92.50

STEEL STOOLS

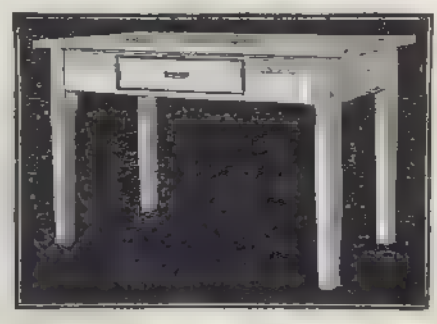
Structural Steel Frame, W't 20 lbs.

No. F18—Height 18 in.★ ..... each **$3.00**

No. F24—Height 24 in.★ ..... each **$3.50**

ONE IN A CRATE

WOOD KITCHEN TABLES



Nos. F105 and F110.

Snow white enamel finish, Albairon white porcelain top, lip drawers, finished inside with varnish, nickeled trimmings, tapered legs from 2½ in. square stock, equipped with domes of silence. Shipped K. D., two in a crate.

No. F105—27x48 in. top, one drawer 4x20 in., average w't 90 lbs. each★ .....each **$23.00**

No. F110—27x56 in. top, two drawers each 4x16 in., average w't about 105 lbs. each★ .....each **$30.80**

WOOD CABINET TABLES

Nickeled trimmings, has two extra deep drawers for bread and flour, height 30 in., width 40 in., depth 25 in., w't each about 100 lbs.

No. F30-TP—Golden oak cabinet table, **polished metal top★** .....each **$31.90**

No. F30-TA—Golden oak cabinet table, **porcelain top,** each★ **$38.30**

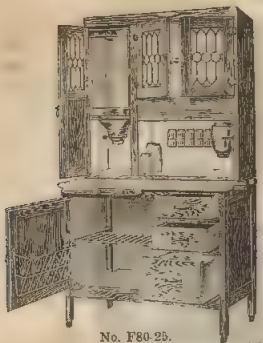
No. F30-TEP—White enameled oak cabinet, **polished metal top★** .....each **$37.20**

No. F30-TEA—White enameled oak cabinet, **porcelain top★** .....each **$43.60**

★ Items Marked Thus ★ Are Shipped From Factory Only.

KITCHEN CABINETS

MADE OF WOOD



No. F80-25.

Height 70 in., width 40 in., depth 25 in. Nickel trimmings. Interior of top compartments white enameled. Drop roll curtain, glass jar equipment, metal bread and cake drawer. Albairon white porcelain sliding top. Shipping weight 200 lbs.

No. F80-25—Oak, finished golden oak, waxed, each★ $65.90

No. F80E-25E—Finished in Snow White Enamel, each★ $76.50

No. F42-30.

Nickeled trimmings. Interior of top compartments white enameled. Side roll curtain. Glass jar equipment. Albairon white porcelain sliding top. Note extra roomy top compartments on account of omitting flour bin. The two deep drawers in base are for flour and bread. Height 70 in., width 40 in., depth 26 in. Shipping weight 220 lbs.,

No. F42-30—Oak, finished golden oak★ ... each $61.60

No. F42E-30E—Snow White Enamel Finish thruout, each★ $72.20

No. F43-30.

Nickeled trimmings. Glass jar equipment including white enameled wood bin for sugar. Interior of top compartment white enameled. Albairon white porcelain sliding top. Florentine glass in two large doors. Height 70 in., width 40 in., depth 26 in., shipping weight 210 lbs.

No. F43-30—Oak, golden oak finish,★ ..each $71.20

No. 43E-30E—Finished in Snow White Enamel thruout, each★ $81.80

No. F74E-16E.

Nickeled trimmings. Drop roll curtain. Glass jar equipment. Metal Bread and Cake drawer. Albairon white porcelain sliding top, height 70 in., width 40 in., depth 28 in., shipping weight 250 lbs.

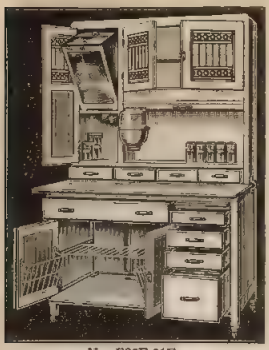
No. F74E-16E—Snow white enamel finish thruout, each★ $88.20

No. F74-16—Oak, golden oak finish★ .....each $77.50

★ Items Marked Thus ★ Are Shipped From Factory Only.

KITCHEN CABINETS

MADE OF WOOD

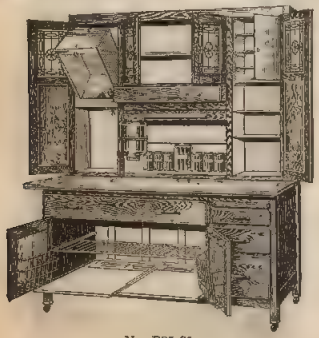


No. F86E-91E.

Nickeled trimmings, drop roll curtain, glass jar equipment, metal bread and cake drawer. Albairon white porcelain sliding top, height 73 in., width 48 in., depth 28, in., shipping weight 260 lbs.

No. F86E-91E—Snow white enamel finish thruout, each★ $112.60

No. F86-91—Oak, golden oak finish★ ....each $102.00



No. F85-90.

Nickeled trimmings., interior of top compartments white enameled, drop roll curtain, glass jar equipment, metal bread and cake drawer, metal pastry cooler, Albairon white porcelain sliding top, height 73 in., width 56 in., depth 28 in., shipping weight 330 lbs.

No. F85-90—Oak, finished golden oak, each★ $119.00

No. F85E-90E—Snow white enamel thruout, each★ $131.90

OAK

No. F75E-35E— Snow white enamel finish, nickeled trimmings, drop roll curtain, glass jar equipment, metal bread and cake drawer, handy seat as shown, albairon white porcelain sliding top, height 70 in., width 40 in., depth 28 in., shipping weight 250 lbs.★ each $91.40

Nickeled trimmings, side roll curtains, glass jar equipment, sliding table top. The two deep drawers are for flour and bread. The flour bin being left out of the top leaves extra large roomy compartments. Height 70 in., width 40 in., depth 25 in., w't each about 200 lbs.

No. F40-30P—Golden oak kitchen cabinet, **polished metal top★** .....each $57.40

No. F40-30A—Golden oak kitchen cabinet, **porcelain top★** .....each $63.80

No. F40E-30EP—White enamel oak kitchen cabinet, **polished metal top★** .....each $68.00

No. F40E-30EA—White enamel oak kitchen cabinet, **porcelain top★** .....each $74.40

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STEEL KITCHEN CABINETS

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A structural steel frame far superior to sheet steel.

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Coffee, Tea and Five Spice Jars of crystal glass, with screw caps and a measuring cup, are included.

Finish—White enamel thruout. W't 300 lbs. each.

No. F2—Porcelain Table Top★ .....each $94.50

No. F2N—Nickeloid Table Top★ .....each $92.50

STEEL STOOLS

Structural Steel Frame, W't 20 lbs.

No. F18—Height 18 in.★ ..... each $3.00

No. F24—Height 24 in.★ ..... each $3.50

ONE IN A CRATE

WOOD KITCHEN TABLES

Nos. F105 and F110.

Snow white enamel finish, Albairon white porcelain top, lip drawers, finished inside with varnish, nickeled trimmings, tapered legs from 2¼ in. square stock, equipped with domes of silence. Shipped K. D., two in a crate.

No. F105—27x48 in. top, one drawer 4x20 in., average w't 90 lbs. each★ .....each $23.00

No. F110—27x56 in. top, two drawers each 4x16 in., average w't about 105 lbs. each★ .....each $30.80

WOOD CABINET TABLES

Nickeled trimmings, has two extra deep drawers for bread and flour, height 30 in., width 40 in., depth 25 in., w't each about 100 lbs.

No. F30-TP—Golden oak cabinet table, **polished metal top**★ .....each $31.90

No. F30-TA—Golden oak cabinet table, **porcelain top**, each★ $38.30

No. F30-TEP—White enameled oak cabinet, **polished metal top**★ .....each $37.20

No. F30-TEA—White enameled oak cabinet, **porcelain top**★ .....each $43.60

★ Items Marked Thus ★ Are Shipped From Factory Only.

ON THE FOLLOWING LISTS
BRITISH AND FOREIGN ADMIRALTIES, INDIA OFFICE, WAR OFFICE, CROWN AGENTS, TRINITY HOUSE, IRISH LIGHTS COMMISSIONERS, NORTHERN LIGHTS COMMISSIONERS, CHINESE IMPERIAL MARITIME CUSTOMS, ALL THE PRINCIPAL ENGLISH AND FOREIGN RAILWAYS.

FOURNISSEURS DE :
Amirautés Britannique et étrangères, Ministère de l'Inde, Ministère de la Guerre, Agents de la Couronne, Trinity House, Commissaires des Phares d'Irlande, Commissaires des Phares des côtes anglaises du Nord, Service des Douanes Impériales Chinoises, et toutes les principales Compagnies de Chemins de fer anglaises et étrangères.

PROVEEDORES Y CONTRATISTAS DE
Los Almirantazgos Británico y Extranjeros, Ministerio de la India, Ministerio de la Guerra, Agentes de la Corona para las Colonias, Dirección General de Aduanas Inglesas, Comisionados de los Faros de Irlanda, [illegible] de los Faros del Norte, Servicio de Aduanas Marítimas Imperiales de China, Todos los Principales Ferrocarriles Ingleses y del Extranjero.

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London Office / *Bureau de Londres* / Oficina de Londres: **57, BISHOPSGATE, E.C.**
Telephone / *Téléphone* / Teléfono: **6585 LONDON WALL.**

Telegrams / *Télégrammes* / Dirección telegráfica: **"WRIGHT, TIPTON."**
Telephone / *Téléphone* / Teléfono: **No. 111 TIPTON.**

JOSEPH WRIGHT & CO., LIMITED,
TIPTON, STAFFS.

ANCHORS FOR EVERY MARKET.

ANCRES POUR TOUS MARCHÉS.

ANCLAS PARA TODO MERCADO.

NORWEGIAN OR "AALESUND" TYPE FISHING ANCHOR.
Ancre pour bateau de pêche, type Norvégien ou "Aalesund."
Ancla de Pesca, tipo noruego ó sea "Aalesund."

TERMS. For approved a/c's Nett Cash Monthly. In cases where no ledger a/c, Nett Cash against Documents through London Bankers.

CONDITIONS DE VENTE.—Net, au comptant à 30 jours, pour les clients qui sont déjà en relations d'affaires avec nous. Net, au comptant par l'intermédiaire d'une banque de Londres, contre remise des documents pour les clients qui ne sont pas encore en relations d'affaires avec nous.

CONDICIONES. Para cuentas aprobadas, Efectivo Neto Mensual. En casos en que no se tenga cuenta con nosotros, Efectivo Neto contra documentos por conducto de Banqueros de Londres.

Unless otherwise stated it is taken for granted that Anchors above 168 lbs. gross, are for Lloyd's Test, but if for:—
Bureau Veritas, give Code Word FRANCO. British Corporation, give Code Word BAIT.
German Lloyd's, " " " GERM. Norwegian Veritas, " " " NORGE.

Sauf stipulation contraire, il est entendu que toutes les ancres pesant plus de 168 livres brut doivent subir les épreuves du Lloyd s'il y a lieu d'indiquer, lorsqu'elles sont destinées à :—
Bureau Veritas, le mot du code **FRANCO.** *British Corporation, le mot du code* **BAIT.**
Lloyd Allemand, " **GERM.** *Bureau Veritas Norvégien,* " **NORGE.**

A menos que se diga lo contrario, se tomará por entendido que las Anclas de un peso bruto de más de kilos [illegible], son para la Prueba de Lloyd's, pero si son para :—
Bureau Veritas, sírvase dar la palabra código **FRANCO.** British Corporation, sírvase dar la palabra código **BAIT.**
Lloyd Alemán, " " " " **GERM.** Veritas Noruego, " " " " **NORGE.**

ON THE FOLLOWING LISTS

BRITISH AND FOREIGN ADMIRALTIES, INDIA OFFICE, WAR OFFICE, CROWN AGENTS, TRINITY HOUSE, IRISH LIGHTS COMMISSIONERS, NORTHERN LIGHTS COMMISSIONERS, CHINESE IMPERIAL MARITIME CUSTOMS, ALL THE PRINCIPAL ENGLISH AND FOREIGN RAILWAYS.

FOURNISSEURS DE

Amirautés Britanniques et étrangères, Ministère de l'Inde, Ministère de la Guerre, Agents de la Couronne, Trinity House, Commissaires des Phares d'Irlande, Commissaires des Phares des côtes anglaises du Nord, Service des Douanes Impériales Chinoises, et toutes les principales Compagnies de Chemins de fer anglaises et étrangères

PROVEEDORES Y CONTRATISTAS DE:

Los Almirantazgos Británico y Extranjeros, Ministerio de las Indias, Ministerio Inglés de Guerra, Agentes de la Corona para las Colonias, Dirección General de Aduanas Inglesas, Comisión de los Faros de Irlanda, Comisión de los Faros del Norte de la Gran Bretaña, Aduanas Marítimas Imperiales de China, Todos los Principales Ferrocarriles Ingleses y del Extranjero

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JOSEPH WRIGHT & CO., LIMITED,

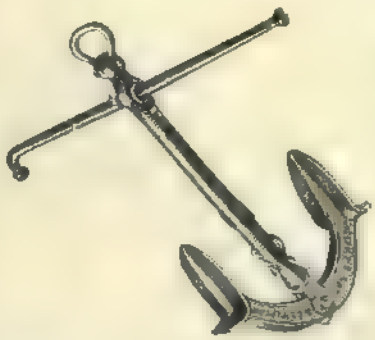
TIPTON, STAFFS.

No. 4.

No. 01.

No. 2.

No. 32.



No. 38.

No. 12.

No. 02.

No. 41.

No. 22.

When ordering quote pattern numbers. :: :: Prices on application.

En remettant la commande, prière d'indiquer les numéros des modèles.

Prix sur demande.

Al pasar un pedido, sírvase citar los números de los modelos. :: Precios á solicitud.

ON THE FOLLOWING LISTS

BRITISH AND FOREIGN ADMIRALTIES, INDIA OFFICE, WAR OFFICE, CROWN AGENTS, TRINITY HOUSE, IRISH LIGHTS COMMISSIONERS, NORTHERN LIGHTS COMMISSIONERS, CHINESE IMPERIAL MARITIME CUSTOMS, ALL THE PRINCIPAL ENGLISH AND FOREIGN RAILWAYS.

FOURNISSEURS DE

Amirauté ... Commissaires des Phares d'Irlande. Commissaires des Phares ...

Los Almirantazgos Británico y Extranjeros, Ministerio de las Indias, Ministerio Inglés de Guerra, Agentes de la Corona para las Colonias, Dirección General de Aduanas ...

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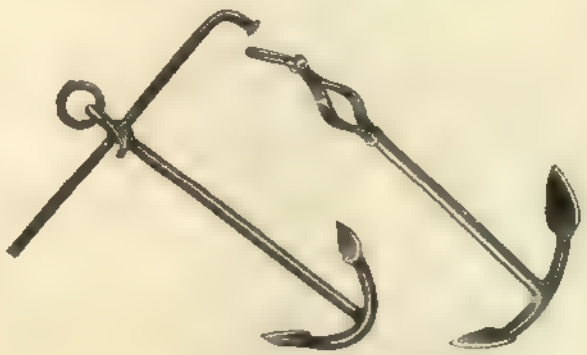
TIPTON, STAFFS.

No. 30.

No. 61. No. 42.

No. 40. No. 51.



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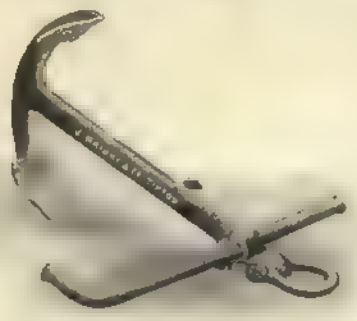


No. 92.

Prices on application.
When ordering quote pattern number.

Prix sur demande.
En remettant la commande, prière d'indiquer les numéros des modèles

Precios á solicitud
Al pasar un pedido, sírvase citar el número del dibujo.

INCANDESCENT LAMPS

KENTUCKY

Tungsten, Mill Type, Straight Side, Drawn Wire Filament.

Guaranteed to have average burning life 1000 hours.

Made to withstand jars, jolts and vibration. The whole filament is spring supported by a piece of steel wire to absorb shock. Used successfully in mills, shops, factories and foundries where there is extreme vibration or sudden jolts; also in portable extension cords for rough handling such as in garages, inspection work, budding construction, etc.

Nos.	Watts	Volts	Style Bulb	Spher. C. P.	Size, in.	Std. Pkg.	Each Clear	Each Frstd.
25-110TMT	25	110	S19	18	5½x2⅜	100	$1 35	1 50
25-115TMT	25	115	S19	18	"	100	1 35	1 50
25-120TMT	25	120	S19	18	"	100	1 35	1 50
--------	25	125	S19	18	"	100	1 35	1 50
--------	25	220	S19	18	"	100	1 59	1 74
--------	25	230	S19	18	"	100	1 59	1 74
--------	25	240	S19	18	"	100	+1 59	+1 74
--------	25	250	S19	18	"	100	1 59	1 74
50-110TMT	50	110	S19	38	"	100	1 35	1 50
50-115TMT	50	115	S19	38	"	100	1 35	1 50
50-120TMT	50	120	S19	38	"	100	1 35	1 50
--- -- --	50	125	S19	38	"	100	+1 35	+1 50
--- -- --	50	220	S19	38	"	100	+1 59	+1 74
--- -- --	50	230	S19	38	"	100	+1 59	+1 74
--- -- --	50	240	S19	38	"	100	+1 59	+1 74
------	50	250	S19	38	"	100	+1 59	+1 74

Shipping weight per standard package 21 lbs.

KENTUCKY

Tungsten-Vacuum Type, Straight Drawn Wire Filament.

For Jupiter, Perfection, Delco and other Farm Lighting plants. 28-32 volts.

Guaranteed to have average burning life 1000 hours.

Note—When ordering lamps, always give wattage and voltage, and state whether **clear, half-frosted** or **all-frosted** bulbs are wanted. Unless frosted lamps are specified, clear lamps will be shipped. If frosted lamps are specified, **bowl**-frosted ones will be shipped unless order calls for **all**-frosted lamps. Bowl or half frosted lamps are same price as all-frosted ones.

Medium Screw Base—Unskirted.

Nos.	Watts	Volts	Size, in.	Std. Pkg.	Each Clear	Each Frstd.
15-32T	15	28-32	4⅛x2⅛	100	$1 20	1 35
25-32T	25	28-32	4⅝x2⅜	100	1 20	1 35
40-32T	40	28-32	5⅛x2⅝	100	1 20	1 35
50-32T	50	28-32	5⅛x2⅝	100	1 20	1 35

Shipping weight per standard package 21 lbs.

+F. O. B. New York Factory Only.

INCANDESCENT LAMPS

KENTUCKY SIGN

Tungsten-Vacuum Type, Straight Side. Round Wire Filament.

For Sign Lighting Second in quality only to Edison lamps. Guaranteed to have average burning life 2000 hours. Recommended especially for customer whose lamp business is not large enough to entitle him to Form A Edison agency, or who does not want or cannot get a consigned stock of lamps.

Nos.	Watts	Volts	Size, in.	Std. Pkg.	Each Clear	Each Frstd.
----	2½	10	4x1¾	100	+$1 20	+1 35
----	2½	11	"	"	+ 1 20	+1 35
----	2½	12	"	"	+ 1 20	+1 35
----	2½	13	"	"	+ 1 20	+1 35
----	2½	14	"	"	+ 1 20	+1 35
----	5	10	"	"	+ 1 20	+1 35
----	5	11	"	"	+ 1 20	+1 35
----	5	12	"	"	+ 1 20	+1 35
----	5	13	"	"	+ 1 20	+1 35
----	5	14	"	"	+ 1 20	+1 35

Shipping weight per standard package 19 lbs.

KENTUCKY

Tungsten-Vacuum Type. Round Bulb. Drawn Wire Filament. For Decoration.

Guaranteed to have average burning life 1000 hours.

Note—When ordering lamps, always give wattage and voltage, and state whether **clear, half-frosted** or **all-frosted** bulbs are wanted. Unless frosted lamps are specified, clear lamps will be shipped. If frosted lamps are specified, **bowl**-frosted ones will be shipped unless order calls for **all**-frosted lamps. Bowl or half-frosted lamps are same price as all-frosted ones.

Medium Screw Base—Unskirted.

Nos.	Watts	Volts	Style Bulb	Spher. C. P.	Size, in.	Std. Pkg.	Each Clear	Each Frstd.
R15-110TF	15	110	G18½	10	3¾x2⅛	100	+$1 65	+1 80
R15-115TF	15	115	G18½	10	"	"	+ 1 65	+1 80
----	15	120	G18½	10	"	"	+ 1 65	+1 80
----	15	125	G18½	10	"	"	+ 1 65	+1 80
R25-110TF	25	110	G18½	18	"	"	+ 1 65	+1 80
----	25	115	G18½	18	"	"	+ 1 65	+1 80
----	25	120	G18½	18	"	"	+ 1 65	+1 80
----	25	125	G18½	18	"	"	+ 1 65	+1 80

Shipping weight per standard package 19 lbs.

----	15	110	G25	10	3¾x2⅝	100	+ 1 80	+1 95
----	15	115	G25	10	"	"	+ 1 80	+1 95
----	15	120	G25	10	"	"	+ 1 80	+1 95
----	15	125	G25	10	"	"	+ 1 80	+1 95
----	25	110	G25	18	"	"	+ 1 80	+1 95
----	25	115	G25	18	"	"	+ 1 80	+1 95
----	25	120	G25	18	"	"	+ 1 80	+1 95
----	25	125	G25	18	"	"	+ 1 80	+1 95

Shipping weight per standard package 19 lbs.

----	40	110	G25	30	4¾x3⅛	50	+ 1 80	+1 95
----	40	115	G25	30	"	"	+ 1 80	+1 95
----	40	120	G25	30	"	"	+ 1 80	+1 95
----	40	125	G25	30	"	"	+ 1 80	+1 95

Shipping weight per standard package 19 lbs.

+F. O. B. New York Factory Only.

INCANDESCENT LAMPS

KENTUCKY

Tungsten-Vacuum Type. Straight Side Drawn Wire Filament For Sign and General Lighting.

Guaranteed to have average burning life 1000 hours.

Note—When ordering lamps, always give wattage and voltage, and state whether **clear, half-frosted** or **all-frosted** bulbs are wanted. Unless frosted lamps are specified, clear lamps will be shipped. If frosted lamps are specified, **bowl-frosted** ones will be shipped unless order calls for **all-frosted** lamps. Bowl or half-frosted lamps are same price as all frosted ones.

10, 15 and 20 watts

25 and 40 watts

60 watts

100 watts

Medium Screw Base—Unskirted.

CLEAR SIGN LAMPS

Nos.	Watts	Volts	Spherical C. P.	Size in.	Std. Pkg.	Each Clear	Each Frstd.
10-110T$	10	110	6	4¼x2½	100	$1 20	$1 35
10-115T$	10	115	6	"	"	1 20	1 35
10-120T$	10	120	6	"	"	1 20	1 35
------	10	125	6	"	"	✚1 20	✚1 35

BLUE

Nos.	Watts	Volts	Spherical C. P.	Size in.	Std. Pkg.	Each
25-110TB$	25	110	6	4½x2½	100	$1 65
25-115TB$	25	115	6	"	"	1 ■
25-120TB$	25	120	6	"	"	1 65

Shipping weight per standard package 18 lbs.

REGULAR LAMPS

10-110T	10	110	6	4¼x2½	100	$1 20	$1 35
10-115T	10	115	6	"	"	1 20	1 35
10-120T	10	120	6	"	"	1 20	1 35
------	10	125	6	"	"	✚1 20	✚1 35
15-110T	15	110	10	"	"	1 20	1 35
15-115T	15	115	10	"	"	1 20	1 35
15-120T	15	120	10	"	"	1 20	1 35
------	15	125	10	"	"	✚1 20	✚1 35

Shipping weight per standard package 21 lbs.

25-110T	25	110	18	5¼x2⅝	100	1 20	1 35
25-115T	25	115	18	"	"	1 20	1 35
25-120T	25	120	18	"	"	1 20	1 35
------	25	125	18	"	"	✚1 20	✚1 35

Shipping weight per standard package 27 lbs.

40-110T	40	110	30	5¼x2⅝	100	1 20	1 35
40-115T	40	115	30	"	"	1 20	1 25
40-120T	40	120	30	"	"	1 20	1 35
------	40	125	30	"	"	✚1 20	✚1 35
50-110T	50	110	38	"	"	1 20	1 35
50-115T	50	115	38	"	"	1 20	1 35
50-120T	50	120	38	"	"	1 20	1 35
------	50	125	38	"	"	✚1 20	✚1 35

Shipping weight per standard package 27 lbs.

60-110T	60	110	46	5½x2⅝	100	1 35	1 50
60-115T	60	115	46	"	"	1 35	1 50
60-120T	60	120	46	"	"	1 35	1 50
------	60	125	46	"	"	✚1 35	✚1 50

Shipping weight per standard package 30 lbs.

✚F. O. B. New York Factory Only.

REGULAR LAMPS

Medium Screw Base—Skirted.

Nos.	Watts	Volts	Spherical C. P.	Size in.	Std. Pkg.	Each Clear	Each Frstd.
100-110T	100	110	80	7⅛x3¾	24	$3 00	$3 30
100-115T	100	115	80	"	"	3 00	3 30
100-120T	100	120	80	"	"	3 00	3 30
------	100	125	80	"	24	✚3 00	✚3 30

Shipping weight per standard package 21 lbs.

Medium Screw Base—Unskirted.

25-220T	25	220	15	5⅛x2⅝	100	1 35	✚1 50
	25	230	15	"	"	✚1 35	✚1 50
	25	240	15	"	"	✚1 35	✚1 50
25-250T	25	250	15	"	"	1 35	
	25	250	15	"	"	✚1 35	✚1 50

Shipping weight per standard package 27 lbs.

50-220T	50	220	33	5¼x2⅝	100	1 35	✚1 50
	50	230	33	"	"	✚1 35	✚1 50
	50	240	33	"	"	✚1 35	✚1 50
50-250T	50	250	33	"	"	1 35	
	50	250	33	"	"	✚1 35	✚1 50

Shipping weight per standard package 27 lbs.

Medium Screw Base—Skirted.

100-220T	100	220	72	7⅛x3¾	24	3 45	✚3 75
	100	230	72	"	"	✚3 45	✚3 75
	100	240	72	"	"	✚3 45	✚3 75
------	100	250	72	"	"	✚3 45	✚3 75

Shipping weight per standard package 21 lbs.

✚F. O. B. New York Factory Only.

D 3

INCANDESCENT LAMP CONTRACTS

PURCHASER'S AND CONSUMER'S CONTRACTS

FORM "E" CONTRACTS

Form "E" contracts are for large consumers, such as street railways, central stations, mills, coal mines, hotels, factories, etc. The following discounts are allowed to purchasers under Form "E" contracts with us for a quantity of any style Gem or Mazda lamps, aggregating net value exclusive of freight charges.

Freight charges on standard packages of lamps shipped on Form "E" contracts will be prepaid to all points east of the Mississippi River and in the state of Missouri. On shipments to other points, additional charges will be made for delivery as per schedule.

On less than standard packages of lamps shipped on Form "E" contracts, the broken package price will be charged and lamps will be F. O. B. point of shipment.

	Stan. Pkgs.	Broken Pkgs.
Contracts for less than	$150 00	
Contracts for more than	150 00	
" "	300 00 & over	Discounts on application.
" "	600 00 & over	
" "	1,200 00	
" "	2,500 00	
" "	5,000 00	
" "	10,000 00	

2% 10 days, 30 days net.

"Standard package discounts for lamps in the Form "E" schedule can be given only on orders for standard packages, quantities or multiples thereof. It is allowable, however, to combine in one standard package all sizes of lamps having the same standard package quantity. It is also allowable for lamps having the same standard package quantities to combine different voltages and finish of bulb."

Contract prices may be allowed on lamps purchased, billed and delivered within 30 days prior to date of contract, lamps so delivered being included in contract and proper credit allowed.

Lamps which are ordered forward before the expiration of any contract, to be delivered and invoiced within 30 days after the expiration of the contract, may be included in such contract, but lamps so ordered, which are not to be delivered and invoiced within 30 days after the expiration of contract, shall not be included in such contract.

Special Note—Under the terms of these Form "E" contracts, if a purchaser buys more than the amount of his contract, and sufficient to bring his purchases up to the next higher amount, he will be rebated to equal the price of that contract just as soon as his payments cover that amount. SHOULD HE FAIL TO PURCHASE the amount of his contract, he will be charged to equal the price of the next lower contract. For this reason a contract should be made with every purchaser of lamps in order that he may receive the benefit and give him an incentive to increase his sales. He has everything to gain and nothing to lose. Be careful not to overrate a customer's contract in the beginning—if in doubt, put the contract on a low basis.

No contract for carbon lamps can be made and purchases of them cannot be included in contracts for Mazda or Gem lamps.

FORM CE CONTRACTS

Purchaser contract for central stations only who do not desire to sign a CA contract.

This form of contract is similar to the Form E contract with the exception that it permits the central station to distribute lamps supplied under this contract **to consumers of their current.** Central stations should not be taken on any other form of purchaser's contract. The same discounts apply as in connection with those mentioned under the heading of Form E contracts.

INCANDESCENT LAMPS

KENTUCKY

CARBON FILAMENT

Recommended where Mazda lamps cannot be used economically. There are circumstances in which it is best to use the carbon lamps, viz: where the lamp is apt to be broken frequently, as in portable lamp guards, and in mines where picks, etc., of the miners are apt to strike against it and also where cost of current is apt to be very low. The "Kentucky" lamp will meet any requirements that a carbon lamp can be called on to meet.

Clear.

Nos.	Watts	Volts	C. P.	Size, in.		Per 100
✤	20	105-125	4	5⅛x2¾	$22 00	51 75
✤	30	105-125	8	4⅛x2⅛	22 00	51 75
✤	35	220-260	8	"	24 00	56 25
50-110K	50	110	16	5⅛x2¾	22 00	51 75
✤	50	105-125	16	"	22 00	51 75
50-115K	50	115	16	"	22 00	51 75
50-120K	50	120	16	"	22 00	51 75
60-220K	60	220	16	"	24 00	56 25
60-250K	60	250	16	"	24 00	56 25
60-275K	60	275	16	"	24 00	56 25
✤	60	105-125	20	"	22 00	51 75
✤	60	220-260	16	"	24 00	56 25

250 in a standard package; weight 70 lbs.

Nos.	Watts	Volts	C. P.	Size, in.		Per 100
✤	100	105-125	32	5¾x3	$30 00	70 50
100-110K	100	110	32	"	30 00	70 50
100-115K	100	115	32	"	30 00	70 50
100-120K	110	120	32	"	30 00	70 50
120-220K	120	220	32	"	35 00	81 75
120 250K	120	250	32	"	35 00	81 75
120-275K	120	275	32	"	35 00	81 75
✤	100	105-125	40	"	30 00	70 50
✤	120	220-260	32	"	35 00	81 75

100 in a standard package; weight 30 lbs.

SIGN LAMPS—Clear.

No.	Watts	Volts	C. P.	Size, in.		Per 100
✤	10	105-125	2	3½x1 3/16	$22 00	51 75

250 in a standard package; weight 35 lbs.

FOR STREET RAILWAY SERVICE—Clear.

Nos.	Watts	Volts	C. P.	Size, in.		Per 100
✤	64	105	16	5⅛x2¾	$22 00	51 75
64-110K	64	110	16	"	22 00	51 75
✤	64	115	16	"	22 00	51 75
✤	64	120	16	"	22 00	51 75
✤	64	125	16	"	22 00	51 75

250 in a standard package; weight 70 lbs.

✤F. O. B. Kentucky Factory Only.

D 3

INCANDESCENT LAMP CONTRACTS

PURCHASER'S AND CONSUMER'S CONTRACTS

FORM "E" CONTRACTS

Form "E" contracts are for large consumers, such as street railways, central stations, mills, coal mines, hotels, factories, etc. The following discounts are allowed to purchasers under Form "E" contracts with us for a quantity of any style Gem or Mazda lamps, aggregating net value exclusive of freight charges.

Freight charges on standard packages of lamps shipped on Form "E" contracts will be prepaid to all points east of the Mississippi River and in the state of Missouri. On shipments to other points, additional charges will be made for delivery as per schedule.

On less than standard packages of lamps shipped on Form "E" contracts, the broken package price will be charged and lamps will be F. O. B. point of shipment.

	Stan. Pkgs.	Broken Pkgs.
Contracts for less than	$150 00	
Contracts for more than	150 00	
" "	300 00 & over	Discounts on application.
" "	600 00 & over	
" "	1,200 00	
" "	2,500 00	
" "	5,000 00	
" "	10,000 00	

2% 10 days, 30 days net.

"Standard package discounts for lamps in the Form "E" schedule can be given only on orders for standard packages, quantities or multiples thereof. It is allowable, however, to combine in one standard package all sizes of lamps having the same standard package quantity. It is also allowable for lamps having the same standard package quantities to combine different voltages and finish of bulb."

Contract prices may be allowed on lamps purchased, billed and delivered within 30 days prior to date of contract, lamps so delivered being included in contract and proper credit allowed.

Lamps which are ordered forward before the expiration of any contract, to be delivered and invoiced within 30 days after the expiration of the contract, may be included in such contract, but lamps so ordered, which are not to be delivered and invoiced within 30 days after the expiration of contract, shall not be included in such contract.

Special Note—Under the terms of these Form "E" contracts, if a purchaser buys more than the amount of his contract, and sufficient to bring his purchases up to the next higher amount, he will be rebated to equal the price of that contract just as soon as his payments cover that amount. SHOULD HE FAIL TO PURCHASE the amount of his contract, he will be charged to equal the price of the next lower contract. For this reason a contract should be made with every purchaser of lamps in order that he may receive the benefit and give him an incentive to increase his sales. He has everything to gain and nothing to lose. Be careful not to overrate a customer's contract in the beginning—if in doubt, put the contract on a low basis.

No contract for carbon lamps can be made and purchases of them cannot be included in contracts for Mazda or Gem lamps.

FORM CE CONTRACTS

Purchaser contract for central stations only who do not desire to sign a CA contract.

This form of contract is similar to the Form E contract with the exception that it permits the central station to distribute lamps supplied under this contract **to consumers of their current.** Central stations should not be taken on any other form of purchaser's contract. The same discounts apply as in connection with those mentioned under the heading of Form E contracts.

INCANDESCENT LAMPS

KENTUCKY

CARBON FILAMENT

Recommended where Mazda lamps cannot be used economically. There are circumstances in which it is best to use the carbon lamps, viz: where the lamp is apt to be broken frequently, as in portable lamp guards, and in mines where picks, etc., of the miners are apt to strike against it and also where cost of current is apt to be very low. The "Kentucky" lamp will meet any requirements that a carbon lamp can be called on to meet.

Clear.

Nos.	Watts	Volts	C. P.	Size, in.		Per 100
✤	20	105-125	4	5⅛x2¾	$22 00	51 75
✤	30	105-125	8	4⅛x2⅛	22 00	51 75
✤	35	220-260	8	"	24 00	56 25
50-110K	50	110	16	5⅛x2¾	22 00	51 75
✤	50	105-125	16	"	22 00	51 75
50-115K	50	115	16	"	22 00	51 75
50-120K	50	120	16	"	22 00	51 75
60-220K	60	220	16	"	24 00	56 25
60-250K	60	250	16	"	24 00	56 25
60-275K	60	275	16	"	24 00	56 25
✤	60	105-125	20	"	22 00	51 75
✤	60	220-260	16	"	24 00	56 25

250 in a standard package; weight 70 lbs.

Nos.	Watts	Volts	C. P.	Size, in.		Per 100
✤	100	105-125	32	5¾x3	$30 00	70 50
100-110K	100	110	32	"	30 00	70 50
100-115K	100	115	32	"	30 00	70 50
100-120K	110	120	32	"	30 00	70 50
120-220K	120	220	32	"	35 00	81 75
120 250K	120	250	32	"	35 00	81 75
120-275K	120	275	32	"	35 00	81 75
✤	100	105-125	40	"	30 00	70 50
✤	120	220-260	32	"	35 00	81 75

100 in a standard package; weight 30 lbs.

SIGN LAMPS—Clear.

No.	Watts	Volts	C. P.	Size, in.		Per 100
✤	10	105-125	2	3½x1 3/16	$22 00	51 75

250 in a standard package; weight 35 lbs.

FOR STREET RAILWAY SERVICE—Clear.

Nos.	Watts	Volts	C. P.	Size, in.		Per 100
✤	64	105	16	5⅛x2¾	$22 00	51 75
64-110K	64	110	16	"	22 00	51 75
✤	64	115	16	"	22 00	51 75
✤	64	120	16	"	22 00	51 75
✤	64	125	16	"	22 00	51 75

250 in a standard package; weight 70 lbs.

✤F. O. B. Kentucky Factory Only.

INCANDESCENT LAMPS

KENTUCKY

Tungsten-Vacuum Type. Straight Side Drawn Wire Filament For Sign and General Lighting.

Guaranteed to have average burning life 1000 hours.

Note—When ordering lamps, always give wattage and voltage, and state whether **clear, half-frosted** or **all-frosted** bulbs are wanted. Unless frosted lamps are specified, clear lamps will be shipped. If frosted lamps are specified, **bowl-frosted** ones will be shipped unless order calls for **all-frosted** lamps. Bowl or half-frosted lamps are same price as all frosted ones.

10, 15 and 20 watts

25 and 40 watts

60 watts

100 watts

Medium Screw Base—Unskirted.

CLEAR SIGN LAMPS

Nos.	Watts	Volts	Spherical C. P.	Size in.	Std. Pkg.	Each Clear	Each Frstd.
10-110T$	10	110	6	4¼x2½	100	$1 20	$1 35
10-115T$	10	115	6	"	"	1 20	1 35
10-120T$	10	120	6	"	"	1 20	1 35
------	10	125	6	"	"	✚1 20	✚1 35

BLUE

Nos.	Watts	Volts	Spherical C. P.	Size in.	Std. Pkg.	Each
25-110TB$	25	110	6	4½x2½	100	$1 65
25-115TB$	25	115	6	"	"	1 ■
25-120TB$	25	120	6	"	"	1 65

Shipping weight per standard package 18 lbs.

REGULAR LAMPS

10-110T	10	110	6	4¼x2½	100	$1 20	$1 35
10-115T	10	115	6	"	"	1 20	1 35
10-120T	10	120	6	"	"	1 20	1 35
------	10	125	6	"	"	✚1 20	✚1 35
15-110T	15	110	10	"	"	1 20	1 35
15-115T	15	115	10	"	"	1 20	1 35
15-120T	15	120	10	"	"	1 20	1 35
------	15	125	10	"	"	✚1 20	✚1 35

Shipping weight per standard package 21 lbs.

25-110T	25	110	18	5¼x2⅝	100	1 20	1 35
25-115T	25	115	18	"	"	1 20	1 35
25-120T	25	120	18	"	"	1 20	1 35
------	25	125	18	"	"	✚1 20	✚1 35

Shipping weight per standard package 27 lbs.

40-110T	40	110	30	5¼x2⅝	100	1 20	1 35
40-115T	40	115	30	"	"	1 20	1 25
40-120T	40	120	30	"	"	1 20	1 35
------	40	125	30	"	"	✚1 20	✚1 35
50-110T	50	110	38	"	"	1 20	1 35
50-115T	50	115	38	"	"	1 20	1 35
50-120T	50	120	38	"	"	1 20	1 35
------	50	125	38	"	"	✚1 20	✚1 35

Shipping weight per standard package 27 lbs.

60-110T	60	110	46	5½x2⅝	100	1 35	1 50
60-115T	60	115	46	"	"	1 35	1 50
60-120T	60	120	46	"	"	1 35	1 50
------	60	125	46	"	"	✚1 35	✚1 50

Shipping weight per standard package 30 lbs.

✚F. O. B. New York Factory Only.

REGULAR LAMPS

Medium Screw Base—Skirted.

Nos.	Watts	Volts	Spherical C. P.	Size in.	Std. Pkg.	Each Clear	Each Frstd.
100-110T	100	110	80	7⅛x3¾	24	$3 00	$3 30
100-115T	100	115	80	"	"	3 00	3 30
100-120T	100	120	80	"	"	3 00	3 30
------	100	125	80	"	24	✚3 00	✚3 30

Shipping weight per standard package 21 lbs.

Medium Screw Base—Unskirted.

25-220T	25	220	15	5⅛x2⅝	100	1 35	✚1 50
	25	230	15	"	"	✚1 35	✚1 50
	25	240	15	"	"	✚1 35	✚1 50
25-250T	25	250	15	"	"	1 35	
	25	250	15	"	"	✚1 35	✚1 50

Shipping weight per standard package 27 lbs.

50-220T	50	220	33	5¼x2⅝	100	1 35	✚1 50
	50	230	33	"	"	✚1 35	✚1 50
	50	240	33	"	"	✚1 35	✚1 50
50-250T	50	250	33	"	"	1 35	
	50	250	33	"	"	✚1 35	✚1 50

Shipping weight per standard package 27 lbs.

Medium Screw Base—Skirted.

100-220T	100	220	72	7⅛x3¾	24	3 45	✚3 75
	100	230	72	"	"	✚3 45	✚3 75
	100	240	72	"	"	✚3 45	✚3 75
------	100	250	72	"	"	✚3 45	✚3 75

Shipping weight per standard package 21 lbs.

✚F. O. B. New York Factory Only.

INCANDESCENT LAMPS

KENTUCKY

Tungsten, Mill Type, Straight Side, Drawn Wire Filament.

Guaranteed to have average burning life 1000 hours.

Made to withstand jars, jolts and vibration. The whole filament is spring supported by a piece of steel wire to absorb shock. Used successfully in mills, shops, factories and foundries where there is extreme vibration or sudden jolts; also in portable extension cords for rough handling such as in garages, inspection work, budding construction, etc.

Nos.	Watts	Volts	Style Bulb	Spher. C. P.	Size, in.	Std. Pkg.	Each Clear	Each Frstd.
25-110TMT	25	110	S19	18	5½x2⅜	100	$1 35	1 50
25-115TMT	25	115	S19	18	"	100	1 35	1 50
25-120TMT	25	120	S19	18	"	100	1 35	1 50
--------	25	125	S19	18	"	100	1 35	1 50
--------	25	220	S19	18	"	100	1 59	1 74
--------	25	230	S19	18	"	100	1 59	1 74
--------	25	240	S19	18	"	100	+1 59	+1 74
--------	25	250	S19	18	"	100	1 59	1 74
50-110TMT	50	110	S19	38	"	100	1 35	1 50
50-115TMT	50	115	S19	38	"	100	1 35	1 50
50-120TMT	50	120	S19	38	"	100	1 35	1 50
--- -- --	50	125	S19	38	"	100	+1 35	+1 50
--- -- --	50	220	S19	38	"	100	+1 59	+1 74
--- -- --	50	230	S19	38	"	100	+1 59	+1 74
--- -- --	50	240	S19	38	"	100	+1 59	+1 74
------	50	250	S19	38	"	100	+1 59	+1 74

Shipping weight per standard package 21 lbs.

KENTUCKY

Tungsten-Vacuum Type, Straight Drawn Wire Filament.

For Jupiter, Perfection, Delco and other Farm Lighting plants. 28-32 volts.

Guaranteed to have average burning life 1000 hours.

Note—When ordering lamps, always give wattage and voltage, and state whether **clear, half-frosted** or **all-frosted** bulbs are wanted. Unless frosted lamps are specified, clear lamps will be shipped. If frosted lamps are specified, **bowl**-frosted ones will be shipped unless order calls for **all**-frosted lamps. Bowl or half frosted lamps are same price as all-frosted ones.

Medium Screw Base—Unskirted.

Nos.	Watts	Volts	Size, in.	Std. Pkg.	Each Clear	Each Frstd.
15-32T	15	28-32	4⅛x2⅛	100	$1 20	1 35
25-32T	25	28-32	4⅝x2⅜	100	1 20	1 35
40-32T	40	28-32	5⅛x2⅝	100	1 20	1 35
50-32T	50	28-32	5⅛x2⅝	100	1 20	1 35

Shipping weight per standard package 21 lbs.

+F. O. B. New York Factory Only.

INCANDESCENT LAMPS

KENTUCKY SIGN

Tungsten-Vacuum Type, Straight Side. Round Wire Filament.

For Sign Lighting Second in quality only to Edison lamps. Guaranteed to have average burning life 2000 hours. Recommended especially for customer whose lamp business is not large enough to entitle him to Form A Edison agency, or who does not want or cannot get a consigned stock of lamps.

Nos.	Watts	Volts	Size, in.	Std. Pkg.	Each Clear	Each Frstd.
----	2½	10	4x1¾	100	+$1 20	+1 35
----	2½	11	"	"	+ 1 20	+1 35
----	2½	12	"	"	+ 1 20	+1 35
----	2½	13	"	"	+ 1 20	+1 35
----	2½	14	"	"	+ 1 20	+1 35
----	5	10	"	"	+ 1 20	+1 35
----	5	11	"	"	+ 1 20	+1 35
----	5	12	"	"	+ 1 20	+1 35
----	5	13	"	"	+ 1 20	+1 35
----	5	14	"	"	+ 1 20	+1 35

Shipping weight per standard package 19 lbs.

KENTUCKY

Tungsten-Vacuum Type. Round Bulb. Drawn Wire Filament. For Decoration.

Guaranteed to have average burning life 1000 hours.

Note—When ordering lamps, always give wattage and voltage, and state whether **clear, half-frosted** or **all-frosted** bulbs are wanted. Unless frosted lamps are specified, clear lamps will be shipped. If frosted lamps are specified, **bowl**-frosted ones will be shipped unless order calls for **all**-frosted lamps. Bowl or half-frosted lamps are same price as all-frosted ones.

Medium Screw Base—Unskirted.

Nos.	Watts	Volts	Style Bulb	Spher. C. P.	Size, in.	Std. Pkg.	Each Clear	Each Frstd.
R15-110TF	15	110	G18½	10	3¾x2⅛	100	+$1 65	+1 80
R15-115TF	15	115	G18½	10	"	"	+ 1 65	+1 80
----	15	120	G18½	10	"	"	+ 1 65	+1 80
----	15	125	G18½	10	"	"	+ 1 65	+1 80
R25-110TF	25	110	G18½	18	"	"	+ 1 65	+1 80
----	25	115	G18½	18	"	"	+ 1 65	+1 80
----	25	120	G18½	18	"	"	+ 1 65	+1 80
----	25	125	G18½	18	"	"	+ 1 65	+1 80

Shipping weight per standard package 19 lbs.

----	15	110	G25	10	3¾x2⅝	100	+ 1 80	+1 95
----	15	115	G25	10	"	"	+ 1 80	+1 95
----	15	120	G25	10	"	"	+ 1 80	+1 95
----	15	125	G25	10	"	"	+ 1 80	+1 95
----	25	110	G25	18	"	"	+ 1 80	+1 95
----	25	115	G25	18	"	"	+ 1 80	+1 95
----	25	120	G25	18	"	"	+ 1 80	+1 95
----	25	125	G25	18	"	"	+ 1 80	+1 95

Shipping weight per standard package 19 lbs.

----	40	110	G25	30	4¾x3⅛	50	+ 1 80	+1 95
----	40	115	G25	30	"	"	+ 1 80	+1 95
----	40	120	G25	30	"	"	+ 1 80	+1 95
----	40	125	G25	30	"	"	+ 1 80	+1 95

Shipping weight per standard package 19 lbs.

+F. O. B. New York Factory Only.

Loughboro Sweater Coats

Good Weight Cotton Yarn—Broad rouine knit, ½ neck, 2 pockets, ribbed cuffs and tail. ½ doz. in box. Solid sizes 36 to 46.

G700	Light Oxford	Doz. $8.50
G701	Dark Oxford	Doz. 8.87½
G707	Brown Mixture	Doz. 8.87½
G703	Khaki	Doz. 8.87½

G700—Light Oxford. Good weight clean cotton yarn, small ravine knit, large shawl collar with metal fasteners, 2 pockets. Solid sizes 36 to 46. ½ doz. in box. **$8.87½**

Splendid Weight—Knox gauge knit, clean cotton yarn, V neck, 2 pockets, rack shoulders new button rib, ribbed cuffs. Solid sizes 36 to 46. 1/6 doz. in box.

G701	Dark Oxford	Doz. $10.25
G703	Maroon	Doz. 11.25
G706	Navy Blue	Doz. 11.25
G707	Khaki	Doz. 11.25

Good Weight Cotton Yarn—Large shawl collar with metal fastener, 2 pockets, self color buttons. Solid sizes 36 to 46. ½ doz. in box.

G704	Dark Oxford	Doz. $10.50
G707	Khaki	Doz. 10.50
G701	Brown Mixture	Doz. 10.50

Heavy Weight Selected Cotton Yarn—Broad rouine knit, 1 piece shawl collar, loop and button rack shoulders, bottom, 2 pockets, self color buttons. Solid sizes 36 to 46. 1/6 doz. in box.

G704	Dark Oxford	Doz. $13.50
G705	Maroon	Doz. 13.50
G706	Navy Blue	Doz. 13.50
G707	Khaki	Doz. 13.50

Selected Cotton Yarn—Staple weight, medium gauge, V-neck, self color buttons, rack shoulders and bottom, 2 pockets, double-ribbed cuffs. Solid sizes 36 to 46. ½ doz. in box.

G1105	Dark Oxford	Doz. $15.00
G1106	Navy Blue	Doz. 15.00
G1107	Maroon	Doz. 15.00
G1108	Havana Brown	Doz. 15.00

Good Grade Cotton Yarn—Medium gauge knit, 2 pcs. large shawl collar with loop and button, self color buttons, 2 pockets, double-ribbed cuffs, 2 button rack shoulders. Solid sizes 36 to 46. ½ doz. in box.

G1102	Navy Blue	Doz. $16.50
G1103	Maroon	Doz. 16.50
G1104	Havana Brown	Doz. 16.50

Heavy Jersey Knit—Fine grade cloth, 2 pcs. shawl collar, V neck, 2 pockets, 2 button rack shoulders, with tab and button, double ribbed cuffs and bottom. Solid sizes 36 to 46. ½ doz. in box.

G757	Dark	Doz. $16.50
G758	Havana Brown	Doz. 16.50

Fine Grade Of Cotton Yarn—Medium gauge, 2 pcs. shawl collar with loop and button, rack shoulders, button and pocket, double ribbed cuffs. Solid sizes 36 to 46. ½ doz. in box.

G1170	Dark Oxford	Doz. $18.00
G1171	Navy Blue	Doz. 18.00
G1172	Havana Brown	Doz. 18.00
G1173	Maroon	Doz. 18.00

Selected Cotton Yarn—Medium gauge rib, V-neck, rack shoulders and bottom, 2 large pockets, self color buttons, ribbed cuffs, 2 button rack shoulders, 1 button at neck. Solid sizes 36 to 46. ½ doz. in box.

G710	Dark Oxford	Doz. $18.00
G704	Maroon	Doz. 18.00
G708	Dark Green	Doz. 18.00
G706	Navy Blue	Doz. 18.00
G709	Havana Brown	Doz. 18.00

Wool And Cotton Mixed—Medium gauge rib, large shawl collar with loop and button, rack shoulders and bottom, 2 pockets, self color buttons, shaped sleeves with close fitting ribbed cuffs. Solid sizes 36 to 46. ½ doz. in box.

G701	Dark Oxford	Doz. $21.00
G781	Navy Blue	Doz. 21.00
G782	Maroon	Doz. 21.00
G782½	Heather Mix	Doz. 21.00
G783	Dark Green	Doz. 21.00

Jumbo Stitch—Heavy weight clean selected cotton yarn, open work effect with loop and button, rack shoulders, button at pocket, self color fancy buttons, shaped sleeves with close fitting ribbed cuffs. Solid sizes 36 to 46. ½ doz. in box.

G811	Dark Oxford	Doz. $22.50
G812	Brown	Doz. 24.00
G813	Maroon	Doz. 24.00
G814	Navy Blue	Doz. 24.00

Wool And Cotton Mixed Yarn—Soft finish, fine gauge knit, very fine ribbed neck, 2 pockets, large shawl collar, self color ribbed buttons, shaped sleeves with close fitting ribbed cuffs. Solid sizes 36 to 46. ½ doz. in box.

G711	Navy Blue	Doz. $22.50
G712	Havana Brown	Doz. 22.50
G713	Dark Green	Doz. 22.50
G714	Dark Oxford	Doz. 22.50

Good Quality Wool And Cotton Mixed Yarn—Medium gauge knit, large shawl collar with loops and buttons, rack shoulders and bottom, 2 reinforced pockets, shaped sleeves with close fitting ribbed cuffs, self color buttons. 1 doz. in box.

G8101	Navy Blue	Doz. $24.00
G8102	Havana Brown	Doz. 24.00
G8106	Maroon	Doz. 24.00
G8102	Brown Heather	Doz. 24.00
G8103	Dark Oxford	Doz. 24.00

Fancy Weave Wool And Cotton Mixed Yarn—Large 3-pcs. shawl collar with loop and button, shaped sleeves with double elastic ribbed cuffs, 2 large reinforced pockets, self color buttons. Solid sizes 36 to 46. ½ doz. in box.

G751	Navy Blue	Doz. $24.00
G753	Havana Brown	Doz. 24.00
G756	Maroon	Doz. 24.00
G757	Dark Oxford	Doz. 24.00
G758	White	Doz. 24.00

Men's "Loughboro" Sweater Coats—Contd.

Thermo", Worsted And Cotton Mixed Yarn ... Doz. $27.00
6842½–Dark Oxford ... Doz. $27.00
6843½–Dark Green ... Doz. 27.00
6844½–Black ... Doz. 27.00
6845½–Brown Heather ... Doz. 27.00

6815–Brown Jumbo Stitch good grade of wool and cotton mixed yarn, large, open stitch, with ... loops and buttons; rack shoulders and bottom; 2 reinforced pockets; self color ribbed cuffs; ribbed sleeves with ribbed cuffs; sizes 36 to 46. 1/12
Doz. $27.00

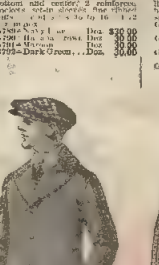
Worsted Lacing–Cotton neck ... with lapped ... rack shoulders, bottom and center; 2 reinforced pockets; plain sleeves; fine ribbed cuffs; sizes 36 to 46. 1/12
6738½–Navy Blue ... Doz. $30.00
6739½–Black ... Doz. 30.00
6781–Maroon ... Doz. 30.00
6795–Dark Green ... Doz. 30.00

Novelty Weave Wool And Cotton Mixed Yarn–Large ... with ... lined pockets; rack bottom; fancy ... cuffs; ribbed welt; sizes ... 1/12
Doz. $30.00
6712–Dark Green and Maroon ... Doz. $30.00
6810–Cardinal and Navy ... Doz. $30.00

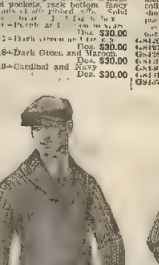
Thermo" Brand ... Fine grade ... mixed yarn; ... rack bottom; ... collar with large ... double ... pockets; reinforced ... cuffs; ... sizes 36 to 46. 1/12
6842½–Navy Blue ... Doz. $33.00
6842½–Tuxedo Brown ... Doz. 33.00
6843½–Dark Oxford ... Doz. 33.00
6844½–Maroon ... Doz. 33.00
6845½–Dark Green ... Doz. 33.00
6847½–Brown Heather ... Doz. 33.00
6846½–Black ... Doz. 33.00

Pure Worsted Fabric ... 36.00
6714–Navy Blue ... Doz. $36.00
6715–Oxford ... Doz. 36.00
6716–Green ... Doz. 36.00
6717–Maroon ... Doz. 36.00
6718–Dark Oxford ... Doz. 36.00
6719–Dark Green ... Doz. 36.00
6720–Black ... Doz. 36.00

All Wool Mixed ... shawl collar with deep ... ... shoulders, center and ... buttons; 2 reinforced ... pocket sleeves with shaped ... ribbed sleeve cuffs; sizes ... 1/12
6708–Navy Blue ... Doz. $36.00
6784–Havana Brown ... Doz. 36.00
6795–Maroon ... Doz. 36.00
6796–Dark ... Doz. 36.00



Smart Knit ... Beautiful Quality wool and cotton mixed yarn; ... finish, large shawl collar with loop and button; 2 reinforced pockets; shaped sleeves with fine ... cuffs; ... sizes 36 to 46. 1/12
6845–White ... Doz. $36.00
6846–Navy Blue ... Doz. 36.00
6847–Oxford ... Doz. 36.00
6848–Green ... Doz. 36.00
6849–Maroon ... Doz. 36.00



Jumbo Stitch–Selected grade of wool and cotton mixed yarns; ... shawl collar with heavy ... shoulders; ... pockets; ... cuffs; ... sizes 36 to 46. 1/12
6720–Navy Blue ... Doz. $36.00
6721–Havana Brown ... Doz. 36.00
6722–Green Heather ... Doz. 36.00
6723–Maroon ... Doz. 36.00
6724–Dark Oxford ... Doz. 36.00

All Wool Yarns–Heavy ... shawl collar with long and ... rack shoulders; ... pockets; ... sizes 36 to 46. 1/12
6695–Navy ... Doz. $42.00
6696–Maroon ... Doz. 42.00
6697–Brown ...
6832–Purple ... Doz. 42.00
6833–Dark Green ... Doz. 42.00

Fancy Trimmed Shaker Knit–Selected grade of ... wool yarns; ... shawl collar with ... rack shoulders; ... pockets; shaped sleeves with fine ribbed cuffs; ... sizes 36 to 46. 1/12
6695–Navy Blue body with Orange trimming ... Doz. $45.00
6696–Black body with Orange trimming ... Doz. $45.00

Thermo Brand–Fine grade knit ... mixed yarn; ... shawl collar; rack shoulders and bottom; 2 reinforced pockets; shaped sleeves with fine shade ribbed cuffs. A high grade garment ... sizes 36 to 46. 1/12
6842–Navy Blue ... Doz. $45.00
6841–Havana Brown ... Doz. 45.00
6843–Maroon ... Doz. 45.00
6844–Dark Green ... Doz. 45.00
6847½–Dark Green ... Doz. 45.00
6848–Green Heather ... Doz. 45.00

Selected Wool and Cotton Mixed Yarn–Fine ... and large ... shawl collar with loop and button, rack shoulders and bottom, 2 large reinforced pockets, shaped sleeves with heavy ribbed cuffs. Solid sizes 36 to 46. 1/12
6697½–Navy ... Doz. $48.00
6698–Dark Oxford ... Doz. 48.00

Pure Worsted–... knit ... shawl collar with ... rack shoulders; ... pockets; shaped sleeves with ... cuffs; ... sizes 36 to 46. 1/12 in box
6691–Navy Blue ... Doz. $54.00
6692–Tuxedo Brown ... Doz. 54.00
6693–Maroon ... Doz. 54.00
6694–Oxford ... Doz. 54.00
6695–Dark Green ... Doz. 54.00
6696–Brown ... Doz. 54.00
6697–Black ... Doz. 54.00

Shaker Knit Pure Worsted Yarns–... shawl collar with ... rack shoulders; ... pockets; shaped sleeves with ... cuffs; ... sizes 36 to 46. 1/12 in box
6831–Navy Blue ... Doz. $60.00
6832–Tuxedo Brown ... Doz. 60.00
6833–Purple ... Doz. 60.00
6834–Maroon ... Doz. 60.00
6835–Dark Green ... Doz. 60.00
6836–Ashy Green ... Doz. 60.00

Men's "Loughboro" Sweater Coats—Contd.

Jumbo Stitch Pure Worsted Yarn—Very large shawl collar with loops and buttons, heavy knit, rack shoulders, center and bottom 2 large reinforced pockets, shaped sleeves with fancy shoulder cuffs, self color ribbed cuffs. Solid sizes 36 to 46. 1/12 doz in box.

G631—Navy Blue	Doz	$80.00
G631a—Havana Brown	Doz	80.00
G632—Dark Green	Doz	80.00
G631—Maroon	Doz	80.00

Pure Worsted—Jumbo stitch, very large shawl collar with loops and buttons, rack shoulders, center and bottom 2 large reinforced pockets, set-in shaped sleeves with close fitting ribbed cuffs, self color ribbed bottoms. Solid sizes 36 to 46. 1/12 doz in box.

G636—Navy Blue	Doz.	$72.00
G636—Maroon	Doz.	72.00
G637—Havana Brown	Doz	72.00
G636—Dark Green	Doz.	72.00
G638—Dark Green	Doz.	72.00
G640—Cardinal	Doz	72.00
G641—Purple	Doz	72.00
G650 1—Plain White	Doz	72.00

Shaker Knit, Pure Virgin Wool—Large fancy shawl collar with loops and buttons, 2 large fashioned pockets, set-in sleeves with close fitting elastic ribbed cuffs, large self color ribbed bottoms. Solid sizes 36 to 46. 1/12 doz in box.

G637—Navy Blue	Doz.	$84.00
G636—Havana Brown	Doz	84.00
G639—Maroon	Doz	84.00
G640—Wine	Doz	84.00
G641—Purple	Doz	84.00
G667—Jockey Red	Doz.	84.00
G6837—Dark Green	Doz	84.00
G663—Red	Do	84.00

Pure Worsted—Jumbo stitch, extra large fancy shawl collar with loops and buttons, rack shoulders, center and bottom 2 large reinforced pockets, shaped bottom sleeves with elastic ribbed cuffs, self color, Arnold Jumbos. A very high grade garment. Solid sizes 36 to 46. 1 12 doz in box.

G642 Navy Blue	Doz	$84.00
G843—Maroon	Doz.	84.00
G843—Havana Brown	Doz.	84.00

MEN'S "LOUGHBORO" BRAND SPORT COATS

Clean Cotton Yarn — Fine gauge knit set-in sleeves with rib and bottom, 2 pockets, self color buttons. Solid sizes 36 to 46. 1/6 doz in box.

G770 Brown Heather	Doz	$16.50
G771—Green Heather	Doz	16.50

Fine Ribbed Knit, Clean Selected Cotton Yarn—Shaped sleeves with double cloth ribbed cuffs, 2 self lower pockets, large 4 1/2 inch Solid sizes 36 to 46. 1/6 doz in box.

G762—Green Heather	Doz	$16.50
G765/1—Brown Heather	Doz.	16.50
G769—Black Heather	Doz.	16.50

Jersey Knit—All wool yarn, V-neck, slope shoulders, set-in sleeves with rib and bottom at cuffs, 2 large pockets, fancy buttons, a nicely fitting garment. Solid sizes 36 to 46. 12 doz. in box.

G775—Blue Heather	Doz	$24.00
G776—Brown Heather	Doz.	24.00

Soft Finish—Fine gauge all selected wool yarn, V neck, slope shoulders, cuffs and bottoms ribbed, 2 large pockets, fancy buttons. Solid sizes 36 to 46. 1 12 doz. in box.

—Brown Heather Doz.
—Green Heather Doz.

Selected Wool Yarn—Jersey knit, closely knitted, fast colors, V neck, large shoulders, set-in sleeves with rib and bottom at cuffs, 2 large pockets, fancy buttons. Solid sizes 36 to 46. 1/12 doz. in box.

G741—Navy Blue	Doz	$36.00
G742—Oxford Heather	Doz.	36.00
G743—Fawn Heather	Doz	36.00
G744—Green Cadet	Doz	36.00
G762—Plum Heather	Doz	36.00

Fine Ribbed Knit—Spring needle ribbed V neck, shaped sleeves with double elastic ribbed cuffs, 2 reinforced pockets with buttons. Solid sizes 36 to 46. 1/12 doz in box.

G727—Blue Heather	Doz	$42.00
G728—Green Heather	Doz.	42.00
G729—Brown Heather	Doz.	42.00

Worsted And Cotton Mixed—Very fine ribbed knit V-neck, shaped sleeves with double elastic ribbed cuffs, 3 bellows pockets with buttons. A snug fitting garment. Solid sizes 36 to 46. 1/12 doz in box.

G733—Green Heather	Doz.	$48.00
G734—Brown Heather	Doz.	48.00

Pure Worsted—Very fine spring needle ribbed knit, V-neck, shaped sleeves with close fitting ribbed cuffs, 2 large pockets, self color Pearoid buttons. Solid sizes 36 to 46. 1/12 doz in box.

G730—Black	Doz.	$48.00
G731—Havana Brown	Doz.	48.00
G732—Navy Blue	Doz.	48.00
G733—Dark Green	Doz.	48.00
G734—Dark Oxford	Doz.	48.00
G735—Green Heather	Doz.	48.00

"Thermo"—Jersey knit, guaranteed all virgin wool, slope shoulders, set-in sleeves with rib and bottom at cuffs, 2 large pockets, fancy buttons. A regular garment for all purposes. Solid sizes 36 to 46. 1 12 doz. in box.

G6486—Brown Heather	Doz	$48.00
G6486—Blue Heather	Doz	48.00
G6487—Green Heather	Doz	48.00
G6488—Fawn Heather	Doz	48.00
G6021—Cadet Blue Heather	Doz	48.00

All the Above Less 2%

Very Fine Ribbed Knit—Pure worsted yarn, V-neck, spring needle ribbed knit, shaped sleeves with long close fitting elbow cuffs, fancy self-color buttons, 2 large pockets. A high-grade garment. Solid sizes 36 to 46. 1/12 doz. in box.

G736—Navy Blue	Doz	$60.00
G737—Havana Brown	Doz	60.00
G738—Dark Green	Doz	60.00
G739—Dark Oxford	Doz	60.00
G740—Purple Heather	Doz	60.00
G741—Brown Heather	Doz.	60.00

MAZDA B LAMPS FOR STANDARD LIGHTING SERVICE

These Lamps Are Fitted with Medium Screw Bases

S-14 bulb
5 watts

S-17 bulb
10, 15 and 25 watts

S-19 bulb
40 and 50 watts

S-21 bulb
60 watts

S-19 bulb
25 watts
Mill type

LAMPS FOR USE WITH COUNTRY HOME LIGHTING OUTFITS

28 to 32 Volts

These lamps are generally used on the circuits of country home lighting outfits, having 16 cells of acid (lead storage) battery or 24 cells of alkaline battery in connection with a generator. The capacity of these home lighting outfits is usually expressed in the number of 20 watt lamps which it will light without overloading batteries or generator.

Type	Watts	Each: Clear	Each: Frosted	Standard Package Quantity	Approximate Lumens	Bulb	Maximum Length Over All, Inches
B	5	$0.40	.45	100	44	S-14	4¼
	10	.40	.45	120	92	S-17	4⅜
	20	.40	.45	120	195	S-17	4⅞
	40	.40	.45	100	406	S-19	5¼

LAMPS FOR STANDARD LIGHTING SERVICE

110 to 125 Volts

These lamps constitute more than 75 per cent of the usual lamp demand for such service as residence, store and office lighting. The higher wattage sizes are used for various industrial and store lighting purposes.

Regular Type Mazda Lamps

Type	Watts	Each: Clear	Each: Frosted	Standard Package Quantity	Approximate Lumens	Bulb	Maximum Length Over All, Inches
B	10	$0.40	.45	100	75	S-17	4⅜
	15	.40	.45	100	125	S-17	4⅜
	25	.40	.45	100	226	S-17	4⅜
	40	.40	.45	100	370	S-19	5¼
	50	.40	.45	100	472	S-19	5¼
	60	.45	.50	100	575	S-21	5½

Mill Type Mazda Lamps

Type	Watts	Each: Clear	Each: Frosted	Standard Package Quantity	Approximate Lumens	Bulb	Maximum Length Over All, Inches
B	25	$0.45	.50	100	210	*S-19	5¼
	50	.45	.50	100	436	P-19	4¼

Lamps of voltages of 100 to 109 and 126 to 130, inclusive, are not regularly carried in stock, but may be obtained at the same list prices.

220 to 250 Volts

These lamps are higher in price and less efficient than 110 to 125 volt lamps of same wattage and should not be used where it is possible to change the service from 220 to 250 volts to 110 to 125 volts.

Regular Type Mazda Lamps

Type	Watts	Each: Clear	Each: Frosted	Standard Package Quantity	Approximate Lumens	Bulb	Maximum Length Over All, Inches
B	25	$0.45	.50	100	191	S-19	5¼
	50	.45	.50	100	440	S-19	5¼
	100	1.15	1.25	24	945	†S-30	7⅞

Mill Type Mazda Lamps

Type	Watts	Each: Clear	Each: Frosted	Standard Package Quantity	Approximate Lumens	Bulb	Maximum Length Over All, Inches
B	25	$0.53	.58	100	178	S-19	5¼
	50	.53	.58	100	388	P-19	4¼

Lamps of voltages of 200 to 219 and 251 to 260, inclusive, are not regularly carried in stock, but may be obtained at the same list prices.

*The bulb for this lamp will eventually be superseded by an S-17 bulb.

†Skirted medium screw base.

MAZDA C LAMPS FOR STANDARD LIGHTING SERVICE

These Lamps Are Fitted with Medium Screw Bases

*PS-20 bulb
50 watts

PS-22 bulb
75 watts

PS-25 bulb

Mazda C Lamps should be provided with proper reflector equipment to protect the eyes from the extremely bright filaments especially wherever the lamps are hung low and in the usual line of vision.

LAMPS FOR USE WITH COUNTRY HOME LIGHTING OUTFITS

28 to 32 Volts

Type	Watts	Each: Clear	Each: Frosted	Standard Package Quantity	Approximate Lumens	Bulb	Light Center Length, Inches	Maximum Length Over All, Inches
C	50	$0.70	.75	50	740	PS-20	3¼	5⅛
	75	.80	.85	50	1210	PS-22	4⅛	6¼
	100	1.20	1.30	24	1680	PS-25	5⅛	7⅛

LAMPS FOR STANDARD LIGHTING SERVICE

110 to 125 Volts

These lamps constitute more than 75 per cent of the usual lamp demand for residence, store and office lighting

Type	Watts	Each: Clear	Each: Frosted	Standard Package Quantity	Approximate Lumens	Bulb	Light Center Length, Inches	Maximum Length Over All, Inches
C-4 White..	50	$0.65	....	50	450	*PS-20	...	5⅛
C	75	.75	.80	50	865	PS-22	4⅛	6⅛
	100	1.10	1.20	24	1260	PS-25	5⅛	7⅛
	150	1.55	1.65	24	2040	PS-25	5⅛	7⅛
	200	2.10	2.25	24	3100	PS-30	6	8¾
	300	3.15	3.35	24	4840	PS-35	7	9¾
	500	4.60	4.85	12	8750	PS-40	7	10
	750	6.50	6.85	8	13900	PS-52	9½	13⅜
	1000	7.50	7.90	8	19300	PS-52	9½	13⅜
C-2 Blue	75	.85	.90	50	600	PS-22	4⅛	6⅛
	100	1.25	1.35	24	875	PS-25	5⅛	7⅛
	150	1.80	1.90	24	1400	PS-25	5⅛	7⅛
	200	2.40	2.55	24	2000	PS-30	6	8¾
	300	3.65	3.85	24	3360	PS-35	7	9¾
	500	5.40	5.70	12	5600	PS-40	7	10

220 to 250 Volts

These lamps are higher in price and less efficient than 110 to 125 volt lamps of the same wattage and should not be used where it is possible to change the service from 220 to 250 volts to 110 to 125 volts. If these lamps are for use in other than tip down position, orders should so state.

Type	Watts	Each: Clear	Each: Frosted	Standard Package Quantity	Approximate Lumens	Bulb	Light Center Length, Inches	Maximum Length Over All, Inches
C	200	$2.40	2.55	24	2520	PS-30	6	8¾
	300	3.90	4.10	24	4100	PS-35	7	9¾
	500	5.60	5.90	12	7850	PS-40	7	10
	1000	9.00	9.50	8	17500	PS-52	9½	13⅜

Lamps of voltages of 200 to 219 and 251 to 260 inclusive are not regularly carried in stock, but may be obtained at the same list prices.

The 200 watt lamp is fitted with medium screw base, others with mogul screw bases.

*White Mazda Lamp. The bulb of this lamp is made tipless and is made of white glass.

Lamps of voltages of 100 to 109 and 120 to 130 inclusive are not carried in stock, but may be obtained at the same list prices.

If the 150 and 200 watt lamps are for use in other than tip down position, orders should so state.

300 watt and smaller lamps are furnished with medium screw bases. 500 watts and larger have mogul screw bases.

INCANDESCENT ELECTRIC LAMPS

CARBON, STRAIGHT SIDE TYPE

Fitted with Medium Screw Base

Volts	Size of Lamp in Watts	Each Clear	Each Frosted	Candle Power	Style and Size Bulb	Aver. Over Diam. Bulb, In.	Aver. Over All Length In.	Stand. Pkg. Quan.
100 to 130	30	$.		8	S17	2⅛	4⅝	250
	50		..	14	S19	2⅜	5	250
	60	....	....	16	S19	2⅜	5	250
	120	....	....	32	S24	3	5¾	125
200 to 275	60			16	P21	2⅝	4⅞	250
	120			32	S24	3	5¾	125

LAMP GUARDS

LOXON

Guard is provided with a lock and key which prevents theft as well as breakage

One key furnished with each dozen guards.

For Lamp Candle Power	For Brass Socket Per Dozen	For Weather Proof Socket Per Dozen
8	$6.00	6.00
16	6.00	6.00
32	6.30	6.30

Extra Keys. Per dozen . $ ...

No. 117B

HOLDFAST

Has a spiral wire cushion that touches the lamp all around its center and absolutely prevents breakage. Fits 1½ inch sockets.

No.	For Sockets	Per Dozen
117B.	Brass	$.
117WP.	Weatherproof	

No. 117WP

Closed

CUSHION

Safety cushion holds lamp perfectly rigid in the socket, and prevents jarring loose in the socket. Made of 15 gauge wire, heavily tinned

No.	For C. P. Lamps	Per Dozen
144	16	$....
155	32	

Open

SHADE HOLDERS

Fits all standard sockets.

No. 327. Size 2¼ inches. per gross, $....

Quarter gross in a box

LAMP SHADES

No. 326150

No. 327150 and 327280

DOME TYPE — BOWL TYPE

Porcelain enamel, white interior, green exterior, with 2¼ inch standard heels and single screw spring wire holders for brass sockets.

No.	Each	For Mazda Lamp Size	Diameter Inches	Depth Inches	Stand- ard Package	Weight Package Pounds
326150	$1.85	100 150	14⅛	6½	15	50
327150	1.15	100-150	8½	7¼	20	35
327280	1.70	200	10⅝	8⅜	20	35

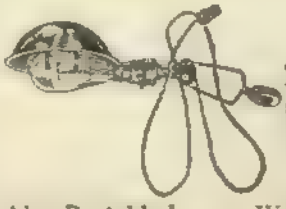
PORTABLE ELECTRIC LAMPS

WALLACE

The lamp of many uses. Concealed in the base of the lamp is an automatic spiral clamp spring by means of which the lamp can be hung on the wall or clamped instantly to the bed rod, chair, desk or dressing table. Lamp or shade can be tilted up or down or sideways. Folds for traveling.

Wallace electric lamp, brush brass finish, diameter of shade 5 inches, height 10½ inches. Complete with 8 feet of cord and attachment plug, without bulb.....each, **$3.50**

One only in a carton



AJAX

Adjustable to any angle. Clamps on anything from ¼ to 2 inches thick. Made of the best material throughout with fibre bearings. Brush brass shade with aluminum finish on inside. Complete with shade, socket, clamp, cord and attachment plug. Brush brass finish.

Ajax Portable Lamp. Without bulb.....each, **$2.50**

DIM-A-LITE

A dimming portable fixture which can be moved from place to place in the room. Holder is universal and can be hung on bed, crib, chair, dresser, etc. Felt-covered at points of contact. Hinge joint allows wide range of adjustment. Intensity can be regulated.

Price complete without bulb

No	Each	Volts	Watts	Standard Package	Weight Package
44418.	$5.00	110	Up to 40	24	40
44432B.	5.25	32	Up to 40	24	40

DIM-A-LITE ATTACHMENTS

Interchangeable attachment, brush brass finish, fits any socket. Five changes of light: Full, low, dim, night light and out. Saves 30 to 80% current.

No. 23. For 25 and 40 watt carbon or Mazda lamps, voltage 110, standard package 50.....each, **$1.25**

Add for 32 volt lamps.....each, **.25**

McLACHLAN & CO., Ltd.,

Manufacturers of Wagons of any Capacity and Gauge for all purposes.

Registered Office: 4, Kinross Street, DARLINGTON.
London Office: 110, Cannon Street, LONDON, E.C. 4.

Telegrams { "Railway, Darlington." / "Crocus, Cannon, London." }

Telephone Nos. { 2021 Darlington. / 1477 Central, London. }

Crane Skips.
Steel Barrows.
Elevator Buckets.
Turntables.
Wheels and Axles.
Colliery Tubs.

Petrol Locomotives.

Forgings and Ironwork of any description up to 5 cwt.

(A2

SPECIALITY:—

PORTABLE RAILWAY PLANT.

Contractors to the War Office and Admiralty.

FABRICANTS DE WAGONS DE N'IMPORTE QUELLE CONTENANCE ET DE N'IMPORTE QUELLE VOIE POUR TOUS LES BESOINS

Bureau : 4, Kinross Street, Darlington.
Téléphone : 2021 Darlington. Télégrammes : "Railway, Darlington." "Crocus, Cannon, London."

Bureau à Londres : 110, Cannon Street, E.C. 4.
Téléphones : 2021 Darlington ; 1477 Central, London

Bennes de Grues.
Brouettes [illegible]
Godets d'[illegible]
Plaques [illegible]
Roues et essieux.
Cuves pour mine de charbon

Locomotives à essence

Travaux de [illegible] et en [illegible] de toutes description [illegible] à 2540 ks

Spécialité :—
Installations de chemins de fer portatifs
Fournisseurs des Ministères de la Guerre et de la Marine

FABRICANTES DE VAGONES DE CUALQUIER CAPACIDAD Y VIA Y PARA TODOS SERVICIOS.

Oficina principal: 4, Kinross Street, Darlington
Oficina de Londres: 110, Cannon Street, Londres, E.C. 4

Telegramas { "Railway, Darlington." / "Crocus, Cannon, Londres." }

Teléfonos { 2021 Darlington. / 1477 Central, London. }

Canilo de [illegible]
Carretillas de [illegible]
Cubos de Elevador.
Placas Giratorias
Ruedas y Ejes
Cubos para Minas de Carbón

Locomotoras á Petroleo

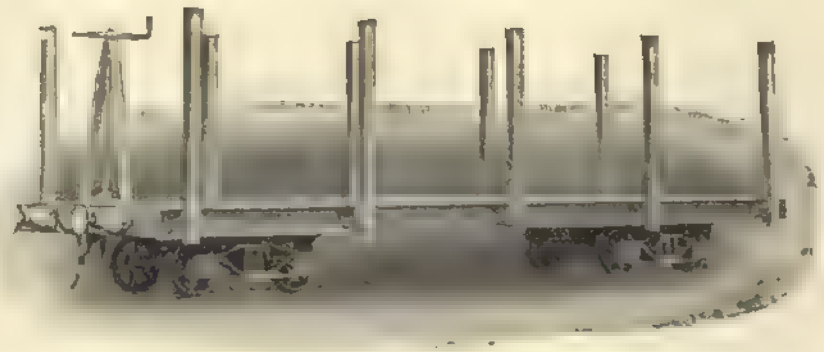
Piezas de Forja y Herrería de todos descripciones hasta 2540 kilos.

Especialidad :—
Instalaciones de Ferrocarril portátil
Contratistas al Ministerio de Guerra y Almirantazgo

McLACHLAN & CO., LTD.,

Portable Railway Plant Manufacturers,

DARLINGTON.



SA

Illustration shows Steel Platform Wagon with Side Stanchions mounted on Diamond Frame Bogies. Can be built to any gauge.

Also Manufacturers of Elevator Buckets, Crane Scoops, Mine Barrows, Turntables, Wheels, Axles, Roller Bearings, etc.

La gravure ci-dessus représente un wagon plateforme en acier avec étançons de côté, monté sur bogies modèle américain. Peut être construit pour n'importe quelle voie.

Egalement fabricants de godets pour Élevateurs,

Bennes de grues, Brouettes de mines, Plaques tournantes, Roues, Essieux, Paliers à rouleaux, etc.

El grabado representa un vagon de plataforma en acero con tirantes laterales, montado sobre bogies, modelo americano. Pueden construirse para adaptarse á cualquier ancho de via.

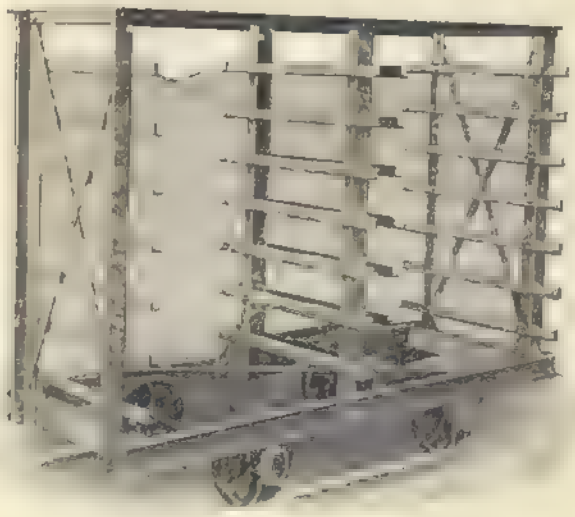
Constructores también de canjilones para Elevadores,

Cucharones para gruas, Carretillas para minas, Plataformas giratorias, Ruedas y ejes, Cojinetes de rodillos, etc.

McLACHLAN & CO., LTD.,

Portable Railway Plant Manufacturers,

DARLINGTON.



UX).

Illustration shows a type of Double Rack Wagon for Brick Plant.

ALSO MANUFACTURERS OF BRICK CARS AND LIFTING WAGONS.

La gravure ci-dessus représente un type de wagon pour le séchage des briques.

EGALEMENT FABRICANTS DE VOITURES ET WAGONS POUR BRIQUETERIE.

El grabado representa un modelo de vagones para el secado de ladrillos.

CONSTRUCTORES TAMBIEN DE CARROS VAGONES PARA LAS FABRICAS DE LADRILLOS.

FOR FORD CARS

Only those standard, thoroughly dependable Ford accessories that bring return sales and no grief are found on the following pages. And on each item we have used our tremendous buying power to secure such low costs that we in turn can name these unbeatable prices. That's why Butler Brothers is such a good place to buy Ford Supplies.

RUNNING BOARD BRACE

4K7745—1½x1½x⅛ in., steel angle bars, black enameled. Wood blocks riveted on each end to fit space under running board. With ⅝ in. steel hooks. Fastens over chassis, prevents sagging of running board and eliminates rattling fenders. 1 in bdl.

Each, Out
Lots of 6, " "

REPLACEMENT WHEELS

For all Ford Cars

Clincher type, selected hickory, steel oil dash spokes, steel perfect construction. 1 in pkg.

4K8307—Size 30x3.
4K8308—" 30x3½.
Each, $2.50

"W-X" SHOCK ABSORBER SETS

High grade, malleable iron, thoroughly annealed, double arm type, cold rolled steel bolts, oil tempered springs. Set consists of four shock absorbers, two front, two rear, complete with springs and all attachments and directions for installation. 1 set in carton

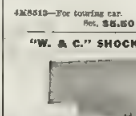
4K8416—For Roadster and Touring cars Set, $5.50
4K8417—For Coupe and Sedans " 6.50

SIMPLEX "SPINNING" LOCK

4K8368—4 case hardened steel tumblers, equipped with Yale lock with two keys, when locked steering gear is disengaged, leaving steering wheel free to spin, easily installed without change in construction. Each in box with directions.

Each, $3.45

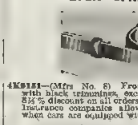
"W. & C." SHOCK ABSORBER SETS



High grade malleable iron thoroughly annealed, double arm type, cold rolled steel bolts, oil tempered springs. Set consists of four shock absorbers, two front, two rear, complete with springs and all attachments and directions for installation. 1 set in carton

4K8416—For Roadster and Touring cars Set, $5.50
4K8417—For Coupe and Sedans " 6.50

"LYON" SPRING BUMPER



4K8181—(Mfrs. No. 8) Front, good quality steel, nickel, with black trimmings, exactly as illustrated. Additional 5½% discount on all orders for 12 or more sets. Bumpers Insurance companies allow 10% on collision insurance when cars are equipped with Lyon. 1 in crate, 40 lbs.

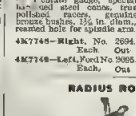
Each, $6.40

GUARANTEED SPINDLE BODIES

High grade perfect alignment, [illegible] nut threads tested [illegible] curacao gauged, special hard steel cones, true polished races, spindle bronze bushes, 1½ in. diam., reamed hole for spindle arm.

4K7745—Right, No. 2694.
Each, Out
4K7746—Left, Ford No. 2695.
Each, Out

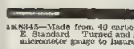
RADIUS ROD SUPPORTS



4K8321—2 piece steel brass gauge, black enameled for 1919 and earlier Fords. 1 in pkg. Each, 60c

4K8322—1 piece angle iron, 1x1¼ in., black enameled, correct metal and canal construction, strong, durable, equipped with patented axle hook bolt. For all model Ford cars. 1 in pkg. Each, 60c

AXLE SHAFT



4K8345—Made from .40 carbon and .65 manganese steel S. A. E. Standard. Turned and ground on centers, [illegible] micrometer gauge to insure accuracy. 1 in pkg.

Each, 95c

DRIVE SHAFT

4K8346—Made from .40 point carbon and .65 point manganese steel S. A. E. standard, turned and ground on centers, finished to micrometer gauge, to insure accuracy. 1 in pkg.

Each, $1.50

"A C" SPEEDOMETER

4K8873—A high grade, true metric instrument, fully jewelled registers, 60 miles per hour, 100,000 mile total register and 100 mile trip registers, tenths, resettable. Black face with white figures, rim of solid brass, bakelite. Complete with driving shaft, gears and accessories. 1 in bxd

Each, $10.50
Lots of 5, " 10.00
" 100, " 9.00

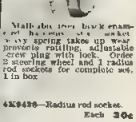
"LAZEAR" LOCK WHEEL

For All Model Fords

4K8707—[illegible] one [illegible] steering wheel and lock, same as model spider, set in Chrome, park locks without key, approved by underwriters' laboratory, who allow 15% on insurance premium. 1 in pkg

Each, $9.75

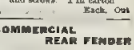
NON-RATTLING SOCKETS



Malleable iron, back, [illegible] spring takes up wear, prevents rattling, adjustable screw plug with lock. Order 2 steering wheel and 1 radius rod sockets for complete set. 1 in box

4K9476—Radius rod socket.
Each 30c

"APCO" STEERING COLUMN BRACE



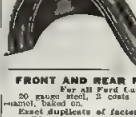
4K8468—Black enameled iron, attaches to upper part of dash at 1 end, to steering column at other, prevents vibration, complete with bolts, nuts and screws. 1 in carton

Each, Out

"PARAMOUNT" COMMERCIAL REAR FENDER

Fits regular Ford chassis

Exact duplicate of factory equipment



4K8508—Heavy gauge steel, 2 coats lustrous black enamel baked on. Matches front fenders of the Ford car. Easily attached. 1 pr. in crate

Pr $4.50

"MOSCO" BLACK ENAMELED STEEL FRONT APRON

Fits 1917 to 1926 Models

4K8540—Heavy gauge reinforced apron, coats like a lacquer enamel, complete with bolts, nuts and lock washers and in strait notch to attach, prevents vibration and rattle of mud guards. 1 in crate.

Each $2.00

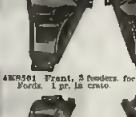
FRONT AND REAR FENDERS

For all Ford Cars

20 gauge steel, 2 coats lustrous black enamel, baked on.

Exact duplicates of factory equipment

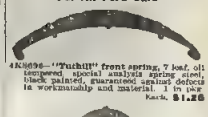
4K8501—Front, 2 fenders, for 1917 and later Fords. 1 pr. in crate. Pr $6.50



4K8502—Rear, 2 fenders, fits all Fords. 1 pr. in crate. Pr $6.75

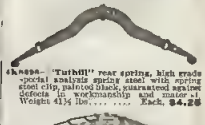
GUARANTEED FRONT AND REAR SPRINGS

For All Ford Cars

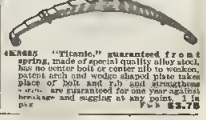


4K8696—"Tuthill" front spring, 7 leaf, oil tempered special analysis spring steel, black painted, guaranteed against defects in workmanship and material. 1 in car

Each, $1.25



4K8698—"Tuthill" rear spring, high grade special analysis spring steel with spring steel clip, painted black, guaranteed against defects in workmanship and material. Weight 41¼ lbs. Each, $4.25

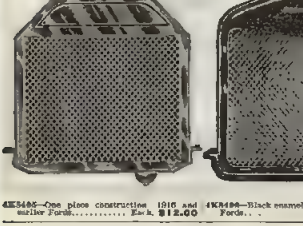


4K8685—"Vitamic," guaranteed front spring, made of special quality alloy steel, has no center bolt or center lift to wear, patent arch and wedge shaped plate takes place of bolt and rib and strengthens spring, are guaranteed for one year against breakage and sagging at any point. 1 in pkg

Pair $3.75

"PEERLESS" HONEYCOMB TYPE RADIATORS

Black enamel honeycomb core [illegible] construction and very strong and efficient large water capacity, [illegible] flare [illegible] fitted equipment guaranteed to keep any [illegible] under the most severe conditions, [illegible] and [illegible] particularly efficient in Ford cars when converted into Truck Units or Tractors. 1 in crate.



4K8485—One piece construction. 1916 and earlier Fords. Each, $12.00

4K8486—Black enameled shell. 1917 and later Fords. Each, $12.00

FOR FORD CARS

ELECTRIC HEAD LAMP

4K8572—Single light. For 1915 and later models. Special one bracket support in each 1 pair. Deep steel head, black enamel, with push button. Steel rims with chrome finish. Complete with 15 c.p. bulb. Mounts right or left hand side. 1 in set. 1 in box. Set **$3.75**

ELECTRIC TAIL LAMP

4K8320—For 1915 and later models, in dash, stem, body black enamelled, 3 in. removable semaphore ruby lens cap and no switch. Set 1 Dunpeter bulbs, white wire lens. 1 in box. Each **56c**

"MAZDA" HEAD LAMP AND DIMMER BULB

4K8145—Special 15" No. 1078, drawn 1 and lip special for Ford Motor Co., thread pattern for low pressure reduction. 1 in box. Each **49c**
Lots of 10 . . . . . **44c**
Lots of 100 . . . . . **42c**
Lots of 500 . . . . . **41c**

4K8148—Dimmer bulb for above. Each **33c**
Lots of 10 . . . . . **29c**
Total $5.95. Lots of 100 . . . . . **27c**

4K9218—No. 1158, type 811, 2-candle light and 4 candle light bulb, bayonet contact base. 6-8 volt 4 candle power. 10 in. actual. Each, **33c**
Total $5.95.

"MEPHISTO" STORAGE BATTERY For 1915-21 Models

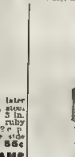
4K8853—Rigidly sealed joints, hardwood case, securely dovetailed and glued, charged ready for use when shipped. Each, **$13.25**

LIGHT WEIGHT PISTONS

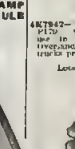
Soft light gray iron, average wt. 2¾ lbs., will not vary 1 oz. in set, mechanically perfect, correct cam, main bearing trouble. All are carefully ground and lapped. Complete with rings and pins. 8 in pkg.
4K8281—Standard Size. Each, **$1.30**
4K8283—10/15 oversize

SPARK PLUGS

4K8110—"Champion X" Mfg. A-10. Special 56 in. Each, **40c**
Lots of 100, **41c**



4K7842—"Splitdorf" Mfrs. #1259 in. long, also for use in Ford cars. Factory clearance 4 and 4½ cents and trucks prior to 1917. Each **60c**
Lots of 100 . . . . . **48c**



4K8145—Special 15" No. 1078, drawn 1 and lip special for Ford Motor Co., thread pattern for low pressure reduction. 1 in box. Each **49c**
Lots of 10 . . . . . **44c**
Lots of 100 . . . . . **42c**
Lots of 500 . . . . . **41c**

4K8148—Dimmer bulb for above. Each, **33c**
Lots of 10 . . . . . **29c**
Total $5.95. Lots of 100 . . . . . **27c**

"K. W." DASH COIL UNIT

4K9761—For all Ford cars for Dunham tractors. Hard wood case, brass nickel finish, high grade interior, using threaded bolts. Packed 1 in box. Each **$1.28**

"K-W" COIL POINTS

4K8574—Superior quality. Equipped with Fahnestock points and springs, fully guaranteed as to workmanship and material. Complete with screws and all necessary parts. 1 in pkg. Total lgth **12c**

"GLOBE" UNDER-SLUNG BATTERY BOX

4K9298—9¾ x 7¼ x 8¼ in., black rust resisting enamel finish. Protects battery against rain, mud, dirt, etc. Can be easily installed, no drilling or changing battery cradle. Each **$0.90**
Lots of 6 . . . . . **85**

"MILWAUKEE" TIMER

4K8053—1 piece pressed steel case, polished, all units machined and assembled and adjusted accurately. Bearings are pressed and polished 1 in box. Each **1.38**
Lots of 10 . . . . . **1.34**

"BOYCE" MOTO METER

Luminous wire screen makes easy reading in the dark.

4K9421—Special Ford Model 4 in. includes Black rubber cap for radiator. Each **$2.25**
Lots of 6 . . . . . **2.05**

WIRING OUTFITS

Spark Plug Set—Fire proof wire copper term nals cut to correct length.
4K9380—1 gas in pkg. SET (4 pcs.), **17c**

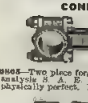
Ignition Harness—18 gauge copper wire rubber tested and insulated. Each wire with spiral copper term nals and different colored covered braid. Oil and water proof jacket. Set 1 in pkg.
4K8389—5 wire set. For Fords with electric lights. Set, **$1.25**
4K8092—6 wire set. For Fords with electric lights and starter. Set, **$1.45**

Ignition Harness, Metallic Covered—18 gauge copper wire, rubber insulated in metallic tube, exceptionally durable, impervious to moisture & oil. 1 set in pkg.
4K8057—6 wire set. Set, **$5.00**

"KINGSTON" CARBURETOR

4K8943—New Model L-4 K with fuel strainer and separator. Troublepoof, simple, easily adjusted, gives even flow of gas throttled down to walk or accelerated to highest speed. 1 in pkg. Each. **$4.00**

CONNECTING ROD



4K8065—Two piece forging, .30 to .40 carbon steel, Babbitt analysis & S. E. specifications, mechanically correct, physically perfect. Fully guaranteed. Each in carton Each, **$5c**

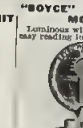
"APCO" CORK GASKET SET

4K8347—Pressed cork, practical, durable, extensively advertised. 1 set in box SET (14 pcs.), **50c**

"VICTOR" GASKETS

Made of copper brass and steel. Complete with washers. 1 in pkg.
4K8724—Cylinder head gasket only. Each **27c**
4K8725—3 cylinder head gasket. Inlet and exhaust pipe gaskets and transmission drain plug gaskets. Set, **35c**

"OTIS" ADJUSTABLE HOSE CLAMP



4K8363—Extra strong, double band, steel strap, smooth inside surface for wear of outlet hose. 10 in box. Doz. Out

RADIATOR HOSE

Heavy quality grade A all rubber connections. Specially treated to withstand hot water, oil, etc. 1 doz in box.
4K8385—Inlet size 1¼ in. Doz. **80c**
4K8436—Outlet hose size 1½ in. Doz. **$1.10**

STANDARD STEP CUT PISTON RINGS

Lap joint, finest gray iron inside scale preserved to insure spring action under intensive heat, accurately machined. 1 doz. in pkg.
4K7832—3½x¼ .0035 over size. Doz., Cost

"GILL" PISTON RINGS

Special gray iron, 1 pc. castings, hold their shape, maintain snug tight contact with cylinder walls, perfect compression prevents oil pumping, increases power, reduces carbon to a minimum. Each wrapped in moisture proof paper. 1 doz in carton
4K7801—3½x¼
4K7802—3½x⅝ Oversize
4K7803—3½x.015
4K7804—3½x.031
12 doz. lots, Doz. **$8.00**
6.40

"WEED" AND "RID O' SKID" CHAINS

"RID O' SKID" TIRE CHAINS

For Pneumatic Tires
Welded steel chain. Each pr. in canvas bag

4K9311—30x3½ Pr. **$1.99**
12 pr. lots, **1.77**

"WEED" ANTI-SKID TIRE CHAIN

For Pneumatic Tires
4K9330—30x3½, electrically welded steel chain, brass plated cross chains. Each pr. in box. Pr **$3.37**
Lots of 12 pr., Pr **3.00**

"WEED" CROSS CHAIN

4K9135—For lacing worn or broken cross chains, diamond hard but not brittle. 25 in bag. Per **$5.42**

FAN BELTS

Patent Clamp Belt—Heavy 4-ply tanned leather, securely joined by patent clamp. 1 in box.
4K8573—For 1917 Ford and later models. Each, **24c**

Silent Running Belt—Selected oak tanned leather, oil and waterproof. 3 in. invisible waterproof cement. 1 in box.
4K8454—For 1915 Ford and earlier models. Each **24c**
4K8575—For 1916 to 1920 Fords. Each **24c**
4K8849—For 1921 and later Fords. Each **28c**

Specialty Treated Fabric Belt—Oil and water proof, stitched with tanned leather, guaranteed against defects. 1 in box.
4K8579—For 1915 to 1920 Fords. Each, **38c**

STANDARD FANS

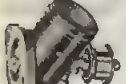
Steel with bronze bushings on working surfaces, protects belt from pulley, prevents wear on belt edges and keeps belt from slipping. 1 in pkg.
4K8450—Ford No. 1000. For 1920 and later models. Each, **75c**
4K8464—Ford No. 1000N. For 1921 and later models. Each, **75c**

"PEERLESS" RADIATOR CAP

4K8549—Heavily nickeled metal, each items wrapped 1 in carton. Each **20c**

FOR FORD CARS

"GUSHER" WATER CIRCULATOR
1917 to 1930 Models



4KB262 — Prevents boiling, steaming and over heating in summer and freezing in winter. Easily installed, complete with hose connections for stacking. 1 in pkg. Each, Out

WINDSHIELD WEATHER STRIP

4K4186—36 in., molded in 1 pc. to proper shape, easily fitted to windshield, protection from draught and rain patented. 1 doz. in carton. Doz $3.00

BRAKE SHOES
1917 and later model Fords

High grade shoes, riveted frame, patented lined guide and cam, conforms about 40 drum. 1 pr. in pkg.

4KB413 Standard size Pr $1.60

4KB444 Adjustable Pr $1.80

"EMCO" TIRE CARRIER

Adopted as standard equipment on all 1930 enclosed Fords. Black enameled sheet steel, easily attached, no bolts or straps required, simple pull with hand releases tire and slight push anchors it fast, cannot work loose.

4KB290 Double carrier for 2 tires of same tread size and type 30x3½. 1 in pkg. Each, $1.95

"MARQUETTE" LUGGAGE CARRIER

4KB100 Universal type, has 2 adjustable spring bars and 4 rubber bumpers to fit all cars. Each $2.49

ADJUSTABLE WHEEL PULLER

4KB618 High grade malleable iron, 3 jaw self centering, 1 set wrench to fit all wheel nuts in use. Each, Out

"LONG LIFE" BALL-BEARING ASSEMBLY

4KB583—For Ford and Chevrolet models 490 from wheels heat treated steel, 1 ball complete ball race in cone, reduction (on regular bearings) to wear off the spindle. Easily installed. Complete set of two outer and two inner bearings in box.

SET (4 pcs.). Out

"TIMKEN" FRONT WHEEL ROLLER BEARINGS
For all Ford Cars

4KB218—Factory equipment on all closed model Ford Cars, and recommended for open model Ford cars. Reduced, greatly reduced, wear cannot be adjusted after wearing. 1 set in each bearing, 2 bearings in set. 1 set in pkg.

Set, $5.00

FRONT AND REAR HUBS

Rear Hub — Completely machined tapered, threaded for hub caps and ready to install, flange and hub bolts not included.

4KB392—1 in pkg. Each, 85c

Front Hub Ford No. 2000 machined iron black finish, carefully machined, complete with bearings drum cap, etc.

4KB491—1 in pkg. Each, $1.10

LEATHERETTE CUSHIONS

Good grade leatherette covering, strongly sewed well made, sheets, pillow, spring system. Same as furnished with new Ford cars painted 1 set.

4KB429—For Ford front touring seat and roadsters Each $4.75

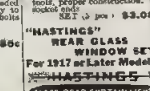
4KB450—For Ford rear touring seat 5.00

"WALDEN" INDIVIDUAL CAR WRENCH SET

4KB400—(Mfrs. 57) 5 pcs. designed to cover all nuts and bolts on a Ford, 4 wrenches and tools, proper construction. 9 socket ends.

SET (5 pcs.) $3.08

"HASTINGS" REAR GLASS WINDOW SET
For 1917 or Later Models



4KB380—Best grade double strength glass, black rust-oleum frame, complete. Easily installed, 2 light, 3 lights windows in set. 1 set in carton. 2-light, $1.15

VENTILATING WINDSHIELD

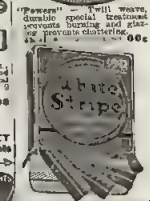
4KB325 For 1915 and later Fords, 30½x24 in., heavy double strength glass, black rust-oleum frame, complete. Easily installed. Each $14.00

TRANSMISSION LINING SETS

8 strips cut to correct lengths with brass rivets, made without wires preventing short circuit.

"Powers" — Twill weave, durable special treatment prevents burning and glazing, prevents clattering.

4KB1 Set $0.95



White Stripe — A metal mesh woven with white cotton to the [illegible] prevents burning and glazing. Fits Ford transmissions. For all Ford cars.

4KB329—1 set in box, complete with rivets. Set $1.45

4KB324 — Universal fork for Ford, 3 in. throw, round rod, 10 in. long, heavy [illegible] Each $2.

4KB325 [illegible] Each $2.25

"STICKTITE" MOLDED BLOW-OUT-PATCHES

Competition Patch—White with [illegible] Guaranteed Patch—7 ply all white [illegible] Guaranteed seal, 4 ply stretched [illegible]

Size	Length	Each
4K7650—3 in.	3 in.	$1.80
4K7683—3½	3½ in.	$2.33

"STICKTITE" FABRIC RELINERS

[illegible] the casing, prevents blowouts, made of thousands of miles of wear cottage. 1 in envelope.

4K7684—30x3 Each, $1.85

4K7685—30x3½ Out

LEATHER LACE-ON BLOW-OUT BOOTS

Medium size 7 in. long, heavy selected chrome leather, especially [illegible] studded with 4 rows of [illegible] heavy chromed tannat leather, [illegible] 1 boot in envelope.

4K7688—3 or 3½ in. Each, $0.69

4K7687—4 or 4½ " .75

IMITATION LEATHER TIRE COVER

4K7700 — 30x3½ strong, durable imitation leather, two white lined tread design covers side walls only. Fits nearly around rim, fastened with glove buttons, spaced studs for adjustments, eyelet to [illegible] for drainage. Fits smooth on non-skid or wire. 1 in carton.

Pair Out

TOP RECOVERS—For 1915 and Later Fords

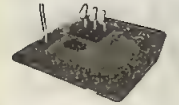
Black 34 oz. rubber cloth, celluloid back lights, all bindings, tacks and attaching parts included consisting of dock sides, and back curtains complete, attached up ready to be drawn over bows and tacked on. 1 in box

4K8431—Ford roadster top. Each $2.40

4K8426—Ford touring top Each $4.50

4K8396—34 oz. long grain motor cloth, two 6x10 in oval bevel plate glass windows, all bindings, tacks, etc. ready to draw over old top and tack down. 1 in box. Each, $6.50

FLOOR CARPET FOR FORD SEDANS AND COUPES
For 1915 and Later Closed Type Ford Cars



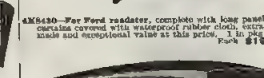
Made of [illegible] and durable well sewed [illegible] color combination as regular rug furnished as Ford equipment. 1 in box

4K8641 — For Coupes Each $2.85

4K8642 — For Sedans Ea. $3.00

ONE MAN TOPS—For 1916 and Later Fords

4K8430—For Ford roadster, complete with lear panel side curtains covered with waterproof rubber cloth, sewed well made and exceptional value at this price. 1 in pkg. Each $10.00



4K8270—For Ford touring car, 34 oz. lone grain dull finish motor cloth, cloth back, 7x14 in heavy bevel plate glass in rear curtain, set in heavily nickeled brass frame, back curtain "gypsy" style, extending around to the rear body [illegible] With [illegible] Each complete in one roll ready to use when need in use. Each $23.00

REAR CURTAINS
For 1916 and Later Fords

1 pc., 32 oz. rubber cloth, with tacks, binding and fasteners.

FOR TOURING CARS—1 in box.

4K8427—2 oval 5x10¼ in. bevel plate glass window lights, nickel plated brass frames. Each, $2.00

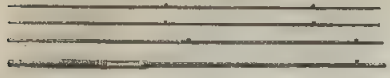
FOR ROADSTERS—1 in box.

4K8418—3 oblong regulation celluloid window lights Each, $1.40

4K8419—2 oval 5x11 in. bevel plate glass window lights, nickel plated brass frame Each $2.80

BAMBOO FISHING RODS

MONTAGUE CITY ROD CO.

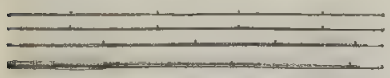


Three joints and extra tip. Best quality split bamboo; nickel plated mountings; metal reel seat; improved ferrules; silk wound tie guides; funnel tops. Closely wound with red, black and green silk.

Per Dozen

No. 770—Assorted lengths, 6 to 8 ft. **$160 50**

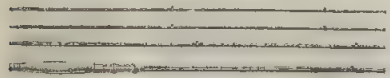
One in a cloth bag; weight per dozen 7 lbs.



Three joints and extra tip. Best quality split bamboo; nickel mountings; metal reel plate below the hand; welted ferrules; silk wound rings and keepers; closely wound with red, black and green silk.

Nos.	770¹-9¹	770¹-10	770¹-10¹/₂
Length, ft.	9¹/₂	10	10¹/₂
Weight per dozen, lbs.	7¹/₂	8	8¹/₂
Per Dozen		$160 50	

One in a partitioned cloth bag.

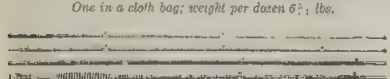


Three joints and extra tip. Best quality split bamboo; nickel plated mountings; solid metal reel seat; welted ferrules; cork grip; silk wound spiral guides, wound at close intervals.

Per Dozen

No. 785C—Assorted lengths, 6 to 8 ft. **$172 50**

One in a cloth bag; weight per dozen 6¹/₂ lbs.

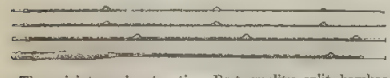


Three joints and extra tip. Best quality split bamboo; nickel plated mountings; solid metal reel seat; welted ferrules; cork grip; silk wound spiral guides, wound at close intervals.

Per Dozen

No. 785½C—Assorted lengths, 7½ to 8½ ft. **$172 50**

One in a cloth bag, weight per dozen 7 lbs.



Three joints and extra tip. Best quality split bamboo; nickel mountings; solid metal reel plate below the hand; welted ferrules; silk wound rings and keepers; closely wound with black and yellow silk in clusters.

Nos.	$10½-10	$10½-10½
Length, ft.	10	10½
Weight per dozen, lbs.	8½	8¾
Per Dozen	$195 00	

One in a partitioned cloth bag.

BAMBOO FISHING RODS

MONTAGUE CITY ROD CO.

Three joints and extra tip. Best quality split bamboo; nickel plated mountings; rings; solid metal reel seat below the hand; welted ferrules, closely wound in two colors.

Per Dozen

No. 482½—Assorted lengths, 9½ to 10½ ft. **$201 00**

One in a cloth bag; weight per dozen 7 lbs.

Three joints and extra tip. Best quality round split bamboo; nickel plated mountings; patent reel seat; welted band; improved welted ferrules; wound with two colors of silk, light purple and yellow; cork grip.

Per Dozen

No. 485½—Assorted lengths, 9½ to 10½ ft. **$264 00**

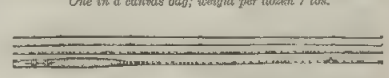
One in a canvas bag; weight per dozen 7 lbs.

Three joints and extra tip. Made from fancy mottled bamboo, six strips firmly cemented together. Cork grip; full nickel plated mountings; patent reel plate, improved and welted ferrules; metal plugs. Silk wound rings and keepers, and fancy cluster windings of red and green silk.

Per Dozen

No. 150½—Assorted lengths, 9½ to 10½ ft. **$252 00**

One in a canvas bag; weight per dozen 7 lbs.



Three joints and extra tip. Made of prime bright Calcutta bamboo. Six strips firmly cemented together. Full nickel plated mountings; patent water tight reel plate and welted ferrules; cork grip; silk wound rings and keepers, wound at close intervals; agate tip.

Per Dozen

No. 100½—Assorted lengths, 10 to 10½ ft. **$283 50**

One in a canvas bag; weight per dozen 7 lbs.

Three joints and extra tip. Made of selected Calcutta bamboo, with the butt swelled nearly to the size of the reel plate; nickel silver mountings; solid metal reel seat and welted ferrules; cork grip; silk wound rings and keepers, wound at close intervals with two colors of silk.

Per Dozen

No. 300½—Assorted lengths, 10 to 10½ ft. **$315 00**

One in a canvas bag; weight per dozen 7½ lbs.

BAMBOO FISHING RODS

Casting.

Two joints. Good quality split bamboo; nickel mountings; reel seat above hand; cork grasp; large spiral casting guides; three ring tip.

Nos.	481-4½	481-5	481-5½
Length, ft	4½	5	5½
Weight per dozen, lbs	4	4½	5
Per Dozen	$52 20	52 20	52 20

One in a partitioned cloth bag.

Casting.

Three joints. Best quality split bamboo; nickel mountings; reel seat above hand; cork grasp; large spiral guides; three ring tip.

Nos.	371-4½	371-5	371-5½
Length, ft	4½	5	5½
Weight per dozen, lbs	5	5½	6
Per Dozen	$66 00	66 00	66 00

One in a partitioned cloth bag.

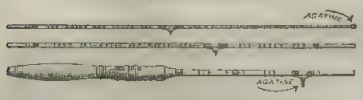
Casting.

Three joints. Best quality split bamboo; fancy wound in green, red and black silk; full nickel mountings; welted milled ferrules; milled reel seat; cork grasp; reel seat with finger hook above hand; large one-piece casting guides and stirrup tip.

Metal Tip.

Nos.	375-4½	375-5	375-5½
Length, ft	4½	5	5½
Weight per dozen, lbs	5½	6	6½
Per Dozen	$100 80	100 80	100 80

One in a partitioned cloth bag.



Casting.

Three joints. Best quality split bamboo; fancy wound in red and black silk; locking reel seat; cork grasp, large one-piece casting guides and stirrup tip; agate first guide and agate tip

Nos.	385-4½	385-5	385-5½
Length, ft	4½	5	5½
Weight per dozen, lbs	5½	6	6½
Per Dozen	$189 00	189 00	189 00

One in a partitioned cloth bag.

Casting.

Two joints. Best quality split bamboo; fancy wound in red and black silks; nickel mountings; reel seat with finger hook; one-piece casting guides and stirrup tip.

Nos.	483-4	483-4½	483-5
Length, ft	4	4½	5
Weight per dozen, lbs	5	5½	6
Per Dozen	$87 00	87 00	87 00

One in a partitioned cloth bag.

BAMBOO FISHING RODS

MONTAGUE CITY ROD CO.

Fly Rod.

Three joints and extra tip. Best quality split bamboo; nickel mountings; capped ferrules; solid metal reel plate above the hand; funnel tops; spiral guides; wound at intervals with two colors of silk.

Nos.	510-9½	510-10	510-10½
Length, ft	9½	10	10½
Weight per dozen, lbs	7	7¼	8¼
Per Dozen	$94 50	100 80	100 80

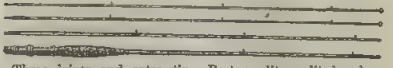
One in a partitioned cloth bag.

Bait Rod.

Three joints and extra tip. Best quality split bamboo; nickel mountings; capped ferrules; rings and keepers; solid metal reel plate below the hand; wound at intervals with two colors of silk.

Nos.	510½-9½	510½-10	510½-10½
Length, ft	9½	10	10½
Weight per dozen, lbs	7	7¼	8¼
Per Dozen	$94 50	100 80	100 80

One in a partitioned cloth bag.



Three joints and extra tip. Best quality split bamboo; nickel mountings; solid metal reel plate; silk wound rings and keepers and silk wound at intervals; cork grasp.

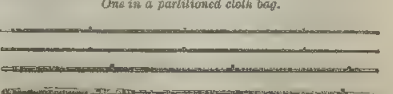
Nos.	500½-9½	500½-10	500½-10½
Length, ft	9½	10	10½
Weight per dozen, lbs	7	7¼	8¼
Per Dozen	$75 60	81 00	81 00

One in a partitioned cloth bag.

Three joints and extra tip. Best quality split bamboo; nickel mountings; solid metal reel plate below the hand; improved and welted ferrules; rings and keepers; wrapped with two colors of silk.

Nos.	010½-9½	010½-10	010½-10½
Length, ft	9½	10	10½
Weight per dozen, lbs	7½	8	8½
Per Dozen	$120 00	135 00	135 00

One in a partitioned cloth bag.



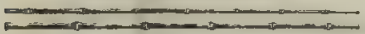
Three joints and extra tip. Best quality split bamboo; nickel plated mountings; solid metal reel seat; capped and welted ferrules; metal plugs; standing guides; funnel tops; wound closely with two colors of silk. Per Dozen

No. 004—Assorted lengths, 7 to 9 ft. **$148 50**

One in a cloth bag; weight per dozen 6¾ lbs.

BAMBOO FISHING RODS

MONTAGUE CITY ROD CO.



Mottled.

Two joints. Best quality bamboo; double ferrules; rings and wire top, varnished.

Per Dozen

No. M0—Assorted lengths, 8 to 10 ft $11 25

One in a paper bag; weight per dozen 6 lbs.

Mottled.

Two joints. Best quality bamboo; double ferrules; rings and wire top; varnished.

Per Dozen

No. M1 Assorted lengths, 8 to 10 ft $12 60

One in a paper bag; weight per dozen 6 lbs

Mottled.

Two joints. Best quality bamboo; butt cap; reel bands; rings; double ferrules and wire top; varnished.

Per Dozen

No. M3—Assorted lengths, 8 to 10 ft $18 00

One in a paper bag; weight per dozen 6 lbs.

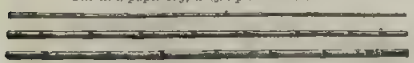
Mottled.

Three joints. Best quality bamboo; double ferrules; wire top; varnished.

Per Dozen

No. M4—Assorted lengths, 8 to 10 ft $24 00

One in a paper bag; weight per dozen 8 lbs.



Mottled.

Three joints. Best quality bamboo; rings; double ferrules and wire top; varnished.

Per Dozen

No. M5—Assorted lengths, 8 to 10 ft $28 50

One in a paper bag; weight per dozen 8 lbs.

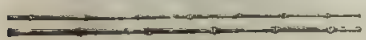
Mottled.

Three joints. Best quality bamboo; double ferrules; butt cap; reel bands; rings and wire top; varnished.

Per Dozen

No. M7—Assorted lengths, 8 to 10 ft $39 00

One in a paper bag; weight per dozen 8 lbs.



Japanese.

Two joints. Best quality bamboo; double ferrules; wire top; varnished.

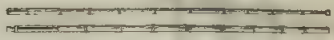
Per Dozen

No. J0—Assorted lengths, 7 to 9 ft $9 45

One in a paper bag; weight per dozen 6½ lbs

BAMBOO FISHING RODS

MONTAGUE CITY ROD CO.



Japanese.

Two joints. Best quality bamboo; double ferrules; rings and wire top; varnished.

Per Dozen

No. J1—Assorted lengths, 7 to 9 ft $11 25

One in a paper bag; weight per dozen 7½ lbs.

Japanese.

Two joints. Best quality bamboo; butt cap; reel bands; double ferrules; rings and wire top; varnished.

Per Dozen

No. J3—Assorted lengths, 7 to 9 ft $15 75

One in a paper bag; weight per dozen 7½ lbs

Japanese.

Three joints. Best quality bamboo; wire top; varnished.

Per Dozen

No. J4—Assorted lengths, 8 to 10 ft $21 00

One in a paper bag; weight per dozen 8 lbs.

Japanese.

Three joints. Best quality bamboo; double ferrules; rings and wire top; varnished.

Per Dozen

No. J5—Assorted lengths, 8 to 10 ft $30 00

One in a paper bag; weight per dozen 7½ lbs

Japanese.

Three joints. Best quality bamboo, butt cap; reel bands; double ferrules; rings and wire top; varnished.

Per Dozen

No. J7—Assorted lengths, 8 to 10 ft $32 25

One in a paper bag; weight per dozen 6¾ lbs.

JAPANESE BAMBOO

Selected prime yellow poles of highest quality; imported direct by us from Japan.

Nos.	3	4	5	6	7
Length, ft	12	14	16	18	20
Poles to bundle	100	100	50	50	50
Weight per 100, lbs	60	82	104	149	194
Per 100	$19 50	26 40	42 00	52 20	96 00

Securely wrapped in burlap and tied.

MOSSBERG WRENCH AND SOCKET SETS

WRENCH SET

This set is the most complete wrench set ever offered the public. It has handles for every kind of a different approach, and to fit all square or hexagon nuts that will be found on a car. A necessity to every garage or machine shop.

Set consists of—
1 only Mossberg Ratchet Socket Handle No. 350.
1 only Mossberg No. 330 "T" Handle.
1 only Mossberg No. 320 Offset Socket Wrench Handle.
1 only Extension Bar No. 351, 10 in. long.
1 only Sterling No. 100 finest Nickeled Pliers.
1 only S. A. E. Double-End Wrench Set, full finish, five wrenches, ten openings.
1 only Universal Joint.
3 only Special Spark Plug Sockets sizes $^{13}/_{32}$ in., $^{7}/_{16}$ in., and $1^{5}/_{32}$ in.
1 only Double-End Offset Screw Driver.
1 only Cotter Pin Extractor No. 1, molted.
23 sizes thoroughly hardened and Parker Rust Proof Hexagon Sockets.
11 sizes thoroughly hardened and Parker Rust Proof Square Sockets.

No. 6507—14—Set complete, w't 18 lbs., per set $19.20

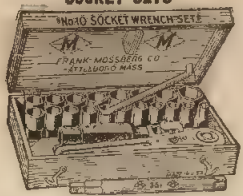
ONE SET IN A WOODEN BOX

SOCKET SET

No. 6513—13—Wrench set consists of the following—
1—Ratchet Socket Wrench Handle.
1—Extension Bar.
1—Special Spark Plug Wrench.
15—Hexagonal Pressed Steel Sockets.
Weight complete 5 lbs. .....per set $6.50

PACKED IN A STRONG WOODEN BOX WITH A DEFINITE PLACE TO HOLD EACH PIECE

SOCKET SETS



TRACTOR, AUTOBOAT, AEROPLANE AND AUTOMOBILE SET

An efficient owner's set, for use in gas engine repair and garage equipment.

This set is rated at five "man power" in point of helpful service.

Set consists of—
1 only Mossberg Ratchet Handle No. 350.
1 only Extension Bar 9½ in. long, No. 351.
1 only Universal Joint No. 336.
1 only Double-End Offset Screw Driver.
21 only rust-proof, properly hardened, Hexagon, Pressed Steel Sockets.
2 only special Hexagon Spark Plug Sockets.
No. 402, 4 in. long, $^{25}/_{32}$ in. opening.
No. 422, 4 in. long, $1^{5}/_{32}$ in. opening.
Fitting Standard Spark Plugs.
No. 6514—10—Set complete, w't 10 lbs. ....each $11.40

ONE SET IN A FINELY CONSTRUCTED BOX

This set is designed primarily for the autoist who makes his own adjustments and repairs, also for gas engine repair, garages, millwrights, blacksmiths. A complete and useful set.

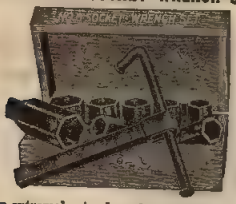
Set consists of—
1 No. 6531—350—10 in. Reversible Ratchet Handle
1 No. 6521—351—9½ in. Extension Bar
1 No. 6520—336 Universal Joint
1 —101—Double End Offset Screw Driver
1 Each of the following sizes of No. 6478 Hexagon Sockets—$^{15}/_{32}$, $^{1}/_{2}$, $^{17}/_{32}$, $^{19}/_{32}$, $^{5}/_{8}$, $^{21}/_{32}$, $1^{1}/_{16}$, $^{23}/_{32}$, $^{25}/_{32}$, $1^{3}/_{16}$, $^{27}/_{32}$, $^{7}/_{8}$, $^{29}/_{32}$, $^{15}/_{16}$, 1, $1^{1}/_{32}$, $1^{1}/_{16}$, $1^{1}/_{32}$, $1^{3}/_{32}$ in.
1 Each of the following sizes of No. 6478 Square Sockets—$1^{1}/_{16}$, $1^{1}/_{32}$, $1^{3}/_{32}$, $1^{1}/_{32}$, $^{25}/_{32}$, $1^{1}/_{32}$, $1^{5}/_{32}$ in.

No. 6511—9—Steel wrenches and parts, packed in chestnut box, cabinet finish, 12×7×3 in., w't per set 8½ lbs., per set $12.00

ONE SET IN A BOX

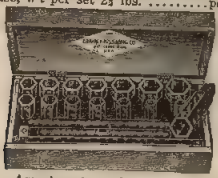
MOSSBERG SOCKET WRENCH SETS

COMBINATION SOCKET WRENCH SETS



This is an extremely simple and practical form of folding wrench.

No. 6501—6—Assortment contains 7 sockets, fitting standard size nuts, and special spark plug wrench in wooden case, w't per set 2¾ lbs. .....per set **$4.60**



No. 6505—7—Assortment consists of 14 sizes of pressed steel sockets, 1 offset socket wrench handle and 1 T wrench handle, socket fits all Standard and A. L. A. M. Cap screws and nuts, 1 2⁵⁄₃₂ in. spark plug wrench, w't per set 4¾ lbs. ..... per set **$8.60**

MOSSBERG SOCKET CHEST

To enable the dealer to increase his business on socket wrenches, Mossberg Company has carefully arranged this chest of drawers to be offered free as long as he shall utilize it to sell Mossberg Wrenches.

Chest is a beautifully finished store fixture made of selected chestnut and is 14¾ in. high, 21 in. wide, 12 in. deep, with eight drawers.

Assortment consists of—

300—Regular Guaranteed Mossberg Pressed Steel Sockets, rust proof, assorted sizes
21—Pressed Steel Spark Plug Socket Wrenches assorted
4—No. 350 Reverse Ratchet Socket Handles
4—No. 355 Ratchet Handles
4—No. 322 Double-End Offset and Vertical Handles
4—No. 340 Take-down T Handles
4—No. 336 Universal Joints.
4—No. 351 Extension Tubes
5—Canvas Tool Rolls, circulars, etc.

No. T6519—300—Chest complete, w't 140 lbs., per chest **$118.80**

ONE CHEST IN A CRATE

This new Socket Wrench Set is the ultimate arrangement of wrenches for constant, every hour use for repairs, assembly, and the hardest work.

The Guarantee that covers all MOSSBERG product naturally covers this series of "Ever-wear" sockets and units, but these tools are made to withstand the most unreasonable demands and are so warranted.

Set consists of the following:

1 Reversible Ratchet Handle No. 356, 12 inches long.

1 Adjustable "Tee" Handle and Extension Unit No. 351, inches high.

1 Brace Handle No. 354 with swivelgrip handles at top and throw, 14¾ inches long.

1 Universal Joint No. 339.

2 Spark Plug Wrench Sockets. No. 402—2⁹⁄₃₂ inch, No. 422—1⁹⁄₃₂ inches.

15 "Ever-Wear" Socket (sizes and fittings in next column.)

No. 6510—60—Hardwood cabinet box, size 16x7½x3¾ in., w't per set 13¾ lbs. .....each **$14.40**

ONE SET IN A BOX

GENERAL PURPOSE WRENCHES

No. 6509—4—General purpose, set consists of five best grade steel flat, semi-finished double end wrenches, in wooden box, wrenches fit standard nuts, w't per set 2 lb. .....per set **$1.30**

MOSSBERG WRENCHES

FULL FINISH GARAGE SETS

ENGINEERS' END WRENCHES

Set of nine finished wrenches with eighteen openings to fit all U. S. standard bolt and S. A. E. cap screw, sizes from ¼ in. to ¾ in. bolt or screw diameters. One opening of the wrench fits the bolt and the other opening of the same wrench fits the cap screw of same diameter.

Openings in.			Bolt or Screw, in.	L'gth, in.	Thickness in.
5/16	&	3/8	1/4	4	5/32
3/8	&	7/16	5/16	4 1/2	7/32
1 1/32	&	1/2	3/8	4 1/2	7/32
1 1/16	&	9/16	7/16	5 1/2	7/32
2 5/32	&	5/8	1/2	6 1/2	1/4
3/4	&	7/8	5/8	8	1/4
3 1/32	&	1	3/4	8 1/2	5/32
1 1/16	&	1 5/16	7/8	8 1/2	5/32
1 1/4	&	1 1/16	1	11	5/32

No. 6508—4—Set of 9 hardened steel wrenches, in wooden box with sliding cover, w't per set 5 lbs., per set $5.20

STANDARD TAPPET WRENCH SETS

Tappet rods on poppet valves should be adjusted every week.

Special wrenches are needed because the adjusting nut and check nuts are thin. For easy adjustment, the wrenches must meet the exacting conditions.

Special analysis steel to give strength to thin model wrenches.

Mottled surface finish, hardened, edges square, openings accurate.

Wrench No.	Opening Sizes Inches			Length Inches	Thickness Inches
224L	1/2	&	7/16	4	5/32
224LT	3/8	&	7/16	4	1/8
240	1/2	&	5/8	5 1/2	7/32
240T	1/2	&	5/8	5 1/2	1/8
244	9/16	&	1 1/16	5 1/2	7/32
244T	7/16	&	1 1/16	5 1/2	1/8
268	1 1/16	&	1 5/16	8	1/4

No. 6506—200—W't per set 1½ lbs. .....per set $2.40

ONE IN A BOX

SOCKET WRENCH BOARD

This group of wrenches represents the three most frequent used sizes of sockets in the four types of handles.

72 wrenches—6 each of 12 numbers.

Construction—¼ inch Steel Bar. Sockets of heavy special steel, round shape for clearance.

Finish—Burnished nickel.

Cabinet Construction—Selected Chestnut 1 inch. Steel Hooks, nickeled.

Finish—Natural grain with three coats of finish.

Size—20 inches wide by 30 inches high. Easel back.

Wrench No.	Socket Opening Size Hex. Inches	U.S. Standard Nuts and Bolt Heads. Bolt Size Inches	S.A.E. Standard Nuts and Screw Heads. Screw Size Inches	Hex. Head Cap Screws. Screw Size Inches
2133				
2233	1/4	1/4	5/16	5/16
2333				
2433				
2137				
2237	9/16	3/8	1/2	1/2
2337				
2437				
2141				
2241	1/2	7/16	7/16	7/16
2341				
2441				

No. T2500—W't, per ass't 113 lbs., per assortment $35.20

SPARK PLUG WRENCHES

Pressed steel, double end, removable handle, will not crack or spread when in use. For ½ and ¾ in. plugs, length 4 in.

No. 6473—453—Openings 29-32 and 31-32 in., w't per doz. 7½ lbs. .....per dozen $7.20

No. 6474—455—Openings 29-32 and 1 1-32 in., w't per doz. 7½ lbs. .....per dozen $7.20

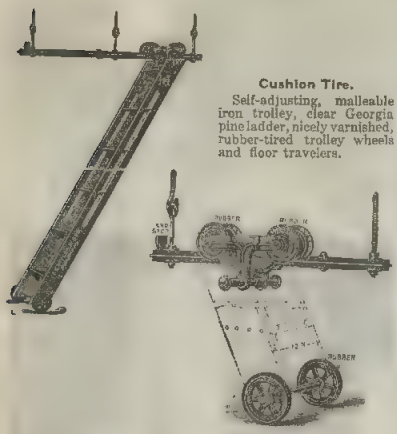
Wrench to fit spark plugs on Ford cars. Satin-nickel finish. Duplicate of Ford No. 2335.

No. 6475—635—Length 10 in., w't per doz. 6 lbs., dozen $13.60

HALF DOZEN IN A CARTON

STORE LADDERS

MYERS'



Cushion Tire.

Self-adjusting, malleable iron trolley, clear Georgia pine ladder, nicely varnished, rubber-tired trolley wheels and floor travelers.

The track is double angle steel rail, which is very neat and strong and is suspended from ceiling by means of lag screws, either jointed or rigid, or by flanged plates and wood screws. By this means the track is placed close to the ceiling and can be leveled on an uneven ceiling without the least trouble and without any blocking or bridging.

The trolley is self-adjusting, is made of malleable iron, fitted with turned steel bearings, and 3 inch anti-rattler wheels, turned and bored on a lathe and fitted with special rubber tires.

The ladder is constructed of the best clear Georgia pine, nicely finished, filled and varnished. It has open panel sides 5 inches wide, with 5 inch steps, each step being supported at each end with a special malleable dowel-tee, which makes the strongest construction possible. The width of ladder is 12 inches.

The floor-travelers are 5 inches in diameter, composed of metal sides with rubber cushioned tires, clamped in such a position as to be impossible to come loose or work off. They are laced on a steel axle which revolves with one of the wheels, the other running loose. In this manner the ladder will adjust itself to the floor.

In ordering, observe the following instructions:

1st.—Give exact perpendicular height from floor to ceiling.

2nd.—Give entire length of track required.

Each

No. IML—Ladder and hanger, complete without track; wt. each 60 pounds..... ✚$54 00

Per Foot

No. IMT—Track and hanger bolts, weight per foot 2½ pounds..... ✚$0 77

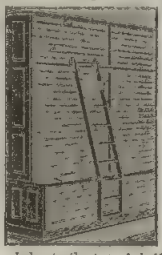
Shipped wrapped with castings protected by cleats.

✚F. O. B. Ohio Factory Only.

STORE LADDERS

MILBRADT'S

The Milbradt step ladders are the strongest, neatest and easiest running ladders on the market. They are made to order, any shape and length necessary to fit shelving, of good oak lumber, in the best possible workmanlike manner, finished in first class style. They are made in various styles to suit all kinds of shelving.



Bent Shelf Ladders.

Runs on steel track; has rubber rollers attached near the lower end that run against the edge of base shelf; nickel plated malleable iron trimmings.

The track should be fastened to a shelf that is about 3 feet from the top.

In ordering, observe the following instructions:

1st.—Give the exact height from floor to top of ledge.

2nd.—Give the exact width or projection of base shelf.

3rd.—Give the exact perpendicular height from the top of ledge to the top of shelf to which track is to be fastened.

4th.—Give entire length of each run of track and number of uprights for each run.

5th.—Give dimensions of uprights, also distance of uprights from center to center.

6th.—State if uprights are straight faced or turned spindle.

Each

No. 1—Complete with fixtures; weight each 50 lbs.... ✚$54 00

Steel Track.

Per Foot

No. 8—Steel track for brackets not over 4 feet apart; complete with brackets and screws; wt. per ft. 1 lb.... ✚$1 05

Per Foot

No. 8½—Steel track, extra heavy for brackets over 4 feet apart; complete with brackets and screws; weight per foot 1½ pounds..... ✚$1 20

Ladders and track crated.

MILBRADT'S

Trolley Ladder.

Has a suitable fixture with wheels at the top that run on a track, fastened to the ceiling. It also has attached at the bottom cushion tired wheels that run on the floor. This ladder is very strongly built and is especially adapted for hardware stores or any place of business where heavy goods are handled.

In ordering, observe the following instructions:

1st.—Give exact perpendicular height from floor to ceiling.

2nd.—Give entire length of track required.

Each

No. 15—Complete with fixtures, weight each 50 lbs.... ✚$54 00

Steel Track.

Per Foot

No. 11—Ceiling or trolley track; complete with brackets and screws; weight per foot ½ pound..... ✚$1 05

Ladders and track crated.

✚F. O. B. Missouri Factory Only.

STORE LADDERS

MILBRADT'S

Bent Ladder.

Is intended for shelving that is not very strong, as most of the weight rests on the floor. This ladder runs on a hardwood track fastened to shelving near the top to guide it and has attached at the bottom cushion tired wheels that run on the floor, but no track is used on the floor.

The track should be fastened to a shelf that is about 3 feet down from the top.

In ordering, observe the following instructions:

1st.—Give the exact height from floor to top of ledge.
2nd.—Give the exact width or projection of base shelf.
3rd.—Give the exact perpendicular height from the top of ledge to the top of shelf to which track is to be fastened.
4th.—Give entire length of each run of track and number of uprights for each run.
5th.—Give dimensions of uprights, also distance of uprights from center to center.
6th.—State if uprights are straight faced or turned spindle.

	Each
No. 2—Complete with fixtures; wt. each 50 lbs.	✚$54 00

Wood Track.

	Per Foot
No. 7—No brackets needed; complete with screws; wt. per foot ⅓ pound	✚$0 75

Ladders and track crated.

BICYCLE

Bent Floor Track Ladders.

The track for these ladders is placed on the floor entirely independent of the base shelf, and for this reason this style is preferred by many buyers to any other, particularly where the base shelf is narrow. Otherwise this ladder is the same as the bent base shelf. The track for the floor is so small that there can be no objection to it whatever.

Both the oak and pine are finished in the natural wood colors.

In ordering, observe the same instructions as on No. 25 ladder shown on preceding page.

	Each
No. 29—Oak, japanned mountings	✚$57 00
No. 30—Oak, nickel plated mountings	✚ 63 00
No. 31—Yellow pine, japanned mountings	✚$48 00
No. 32 Yellow pine, nickel plated mountings	✚ 54 00

Average weight, 40 lbs.
Wrapped in paper, with castings protected with cleats.

Track for Bicycle Ladders, Base or Floor.	Per Foot
No. 20—Plain steel rail, special pole, black japanned brackets	✚$0 75
No. 21—Noiseless rail, special pole, nickel plated brackets	✚ 1 05
No. 22—Noiseless rail, special pole, black japanned brackets	✚ 90
No. 23—Nickel plated steel rail, special pole, nickel plated brackets	✚ 1 05

Weight per foot, ¼ lb.
Wrapped in paper, with castings protected with cleats.

Track at prices quoted includes rail for bottom and guide pole for top, complete with all necessary brackets, screws, pole ends, etc., furnished ready to put up.

✚Millbradt's F. O. B. Missouri Factory Only.
✚Bicycle F. O. B. Iowa Factory Only.

STORE LADDERS

CHICAGO—BICYCLE

The track is open, permitting the use of large wheels, two of which are fitted to top and bottom of each ladder. A special device prevents tipping of the ladder and it cannot possibly get off the track. When so ordered they are made to turn corners or follow any crooked or curved track. Japanned mountings; rubber tired wheels.

They are made of yellow Georgia pine, with plain sides; and oak with ornamental open work sides, finished in the natural wood colors.

For standard ladders up to 14 ft. in length, 3½ in. sides, 4 in. steps; length of steps 12 inches.

In ordering, observe the following instructions:

1st.—Give exact perpendicular height from floor to ceiling.
2nd.—Give entire length of track required.

Ladder and Fixtures Complete.

	Each
No. 34—Oak; (not to exceed 10 ft. in length) weight per ft., 3½ lbs.	✚$72 00
No. 33—Yellow pine; (not to exceed 10 ft. in length) weight per ft., 3 lbs.	✚ 51 00

	Per Foot
For ladders over 10 feet high add to above price each foot in excess of 10 ft.	✚$3 00

Wrapped in paper, with castings protected with cleats.

	Per Foot
No. 35—Double steel rail, with wood center, complete with hangers, screws, etc.; weight per foot, ½ lb.	✚$0 75

Packed loose.

	Each
Curves, for Chicago ladder track, extra	✚$9 00

BICYCLE

The track of the Bicycle ladder is built at the bottom, either on the base shelf or the floor, so that the entire weight of the ladder and operator is supported from below.

Light turned pole at the upper end of the ladder is used for a guide. Stout hook holds the pole in place. Has an extra wide shelf at the top for convenience of handling goods.

Has a double track; a half round steel rail for the wheels to run on at the bottom. The steel rail is 5/16 of an inch in height and 3/5 of an inch in width, the pole is little over an inch in diameter; sides 3½ inches wide; steps 4 inches wide; length of steps 12 inches.

In ordering, observe the following instructions:

1st.—Give exact distance from floor to ledge.
2nd.—Give exact width of ledge.
3rd.—Give exact perpendicular height from ledge to top of shelf to which ladder is to be fastened.
4th.—Give entire length of each run of track and number of uprights for each run.
5th.—Give dimensions of uprights, also distance of uprights from center to center.
6th.—State if uprights are straight faced or turned spindle.

	Each
No. 25—Oak, japanned mountings	✚$57 00
No. 26—Oak, nickel plated mountings	✚ 63 00
No. 27 Yellow pine, japanned mountings	✚ 38 00
No. 28 Yellow pine, nickel plated mountings	✚ 54 00

Average weight per foot, 3½ lbs.
Wrapped in paper, with castings protected with cleats.

✚F. O. B. Iowa Factory Only.

STORE LADDERS

RICHARDS BALL-BEARING

Ladders are made of oak or pine, selected and kiln dried. Steps are let into the sides and held by screws passing through the sides of ladder, made perfectly rigid with steelbraces.

Ladder sides are 3½ inches wide and steps 4 inches wide on ladders up to 14 ft.; over 14 ft., sides are 4 inches wide and steps 5 inches wide.

Steps are 14 ins. long between ladder sides. Track is attached to the uprights of shelving, edge of shelves or to cornice as shown above.

Straight Ladders.

Straight ladders can be set close to shelving when not in use, as the upper fixture has a self-adjusting vertical slide, which also conforms to unevenness in floor. Furnished with ball-bearing fibre or rubber tired wheels for bottom of ladder.

In ordering, observe the following instructions:

1st.—Give exact perpendicular height from floor to top of shelf to which track is to be fastened.

2nd.—Give entire length of each run of track and number of uprights for each run.

3rd.—Give dimensions of uprights, also distance of uprights from center to center.

4th. State if uprights are straight faced or turned spindle.

5th.—State if fibre or rubber tired wheels are preferred.

Ladder and Fixtures Complete, Any Length.

	Each
No. 114—Oak; wt. per foot 3½ lbs.	✚$61 20
No. 114P—Pine; wt. per foot 3 lbs.	✚ 55 05

Bent Ladders.

Bent ladders have roller-bearing wheels running on half-round ledge track.

In ordering, observe the following instructions:

1st.—Give exact distance from floor to ledge.

2nd.—Give exact width of ledge.

3rd.—Give exact perpendicular height from ledge to top of shelf to which track is to be fastened.

4th.—Give entire length of each run of track and number of uprights for each run.

5th.—Give dimensions of uprights, also distance of uprights from center to center.

6th.—State if uprights are straight faced or turned spindle.

	Each
No. 114B—Oak; wt. per foot 3½ lbs.	✚$67 50
No. 114BP—Pine; wt. per foot 3 lbs.	✚ 61 20
	Per Set
Fixtures, without ladder, weight per set 25 lbs.	✚$41 25
	Per Foot
Pole Track, with brackets, weight per foot 1 lb.	✚$0 90

Shipped wrapped in paper with castings protected by cleats.

✚F. O. B. Illinois Factory Only.

STORE LADDERS

RICHARDS BALL-BEARING

Upper wheels ball-bearing, runs on wood lined track. Fixtures made entirely of steel, aluminum finish; fitted with case hardened, ball bearing bottom rollers, fibre or rubber tired. For standard ladders up to 14 feet in length; width of sides 3½ in.; width of step 4 in.; length of steps 12 in.

In ordering, observe the following instructions:

1st.—Give exact perpendicular height from floor to ceiling.

2nd.—Give entire length of track required.

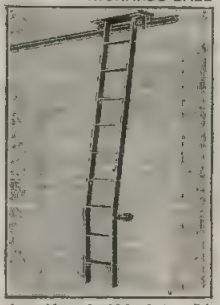
3rd. State if fibre or rubber-tired wheels are preferred.

Ladder and Fixtures Complete; Any length. Each

No. 209—Oak; wt. per foot 3½ lbs.	✚$67 50
No. 209P—Pine; wt. per foot 3½ lbs.	✚ 61 20
	Per Set
Fixtures, without ladders, weight per set 15 lbs.	✚$36 75
	Per Foot
Track, with brackets, weight per foot 2½ lbs.	✚$0 90

Shipped wrapped with castings protected by cleats.

RICHARDS BALL BEARING



The top fixtures made of steel, have finest case hardened ball bearings. The weight is carried entirely by the upper fixtures, the lower rollers acting as a guide against the edge of the ledge. The track consisting of steel angle and grooved wooden runway, is attached to the uprights of shelving, the edge of shelves or cornice. Fixtures aluminum finish. Ladders furnished in oak or pine.

For standard ladders up to 14 feet in length, width of ladder sides, 3½ inches, width of steps 4 inches; ladders over 14 feet long have sides 4 inches wide and width of steps 5 inches. Steps are 12 inches long between ladder sides.

In ordering, observe the following instructions:

1st.—Give exact distance from floor to ledge.

2nd.—Give exact width of ledge.

3rd.—Give exact perpendicular height from ledge to top of shelf to which ladder is to be fastened.

4th.—Give entire length of each run of track and number of uprights for each run.

5th. Give dimensions of uprights, also distance of upright from center to center.

6th.—State if uprights are straight faced or turned spindle.

Ladder and Fixtures, Complete, Any Length. Each

No. 113—Oak; weight per foot 3½ lbs.	✚$67 50
No. 113P—Pine; weight per foot 3 lbs.	✚ 61 20
	Per Set
Fixtures without ladders, weight per set 10 lbs.	✚$36 75
	Per Foot
Track, weight per foot 2 lbs.	✚$0 90

Shipped wrapped with castings protected by cleats.

✚F. O. B. Illinois Factory Only.

NEVERSLIP HORSE SHOES

B PATTERN IRON

Drilled Calked

DRILLED

Nos.	0	1	2	3	4
Calk used, ins	3/8	3/8	7/16	7/16	1/2
Front, wgt oz	11	14	16	19	24
Hind, wgt. oz	11	12	15	17	21
Front, number in keg	145	115	100	84	66
Hind, number in keg	145	133	107	89	76

Nos.	5	6	7	8
Calk, used ins	9/16	5/8	5/8	5/8
Front, wgt. oz	30	35	40	44
Hind, wgt. oz	29	32	36	42
Front, number in keg	53	45	40	37
Hind, number in keg	55	50	44	38

B Pattern Iron Neverslip Shoes ..... Keg $.....

100 pounds in keg

CALKED

Nos.	0	1	2	3	4
Calk used, ins	3/8	3/8	7/16	7/16	1/2
Per set $					

Nos.	5	6	7	8
Calk used, ins	9/16	5/8	5/8	5/8
Per set $				

Packed 5 set one size in box. We do not break boxes

CREASED STEEL

Drilled Calked

DRILLED

Nos.	0	1	2	3	4	5	6	7	8
Calk used, ins.	3/8	3/8	7/16	7/16	1/2	1/2	9/16	9/16	5/8
Front, wgt. oz.	9 1/2	11 1/2	12 1/2	15	17	20	25	32	41
Hind, wgt oz	8 1/2	10	12	13	16	20	23	29	39
Front No in keg	168	140	130	107	91	80	65	50	39
Hind, No. in keg	184	160	133	109	100	90	70	46	42

Creased Steel Drilled Neverslip Shoes .... Keg $.

100 pounds in keg

CALKED

Nos.	0	1	2	3	4	5	6	7	8
Calk used, ins.	3/8	3/8	7/16	7/16	1/2	1/2	9/16	9/16	5/8
Per pair $									

Packed 10 pair one size, fronts or hinds, in box.

EXTRA LIGHT STEEL

Drilled Front Calked Hind

DRILLED

Nos.	0	1	2	3	4	5
Calk used, ins	3/8	3/8	3/8	3/8	7/16	7/16
Front, wgt oz	9 3/4	9 1/2	11 1/2	13	15	19
Hind, wgt. oz	8	9	11	13	15	18
Per pair $						

CALKED

Nos.	0	1	2	3	4	5
Calk used, ins	3/8	3/8	3/8	3/8	7/16	7/16
Per pair $						

Packed 10 pair one size, fronts or hinds in box.

DRIVE CALK HORSE SHOES

Driving Draft Mule

DRIVING

Nos.	1	2	3	4	5	6
Calk used, ins	7/16	7/16	1/2	1/2	9/16	9/16
Front, wgt oz	13	14	17	22	26	27
Hind, wgt oz	11	13	16	21	24	25

Giant Grip Driving Shoes Keg $.

DRAFT

Nos.	4	5	6	7	8
Calk used, ins	5/8	5/8	5/8	5/8	5/8
Front, wgt oz	30	33	39	42	45
Hind, wgt. oz	30	33	39	42	45

Giant Grip Draft Shoes Keg $.

MULE

Nos.	2	3	4	5	6
Calk used, ins	1/2	9/16	9/16	5/8	5/8
Wgt., oz	13	18	21	26	32

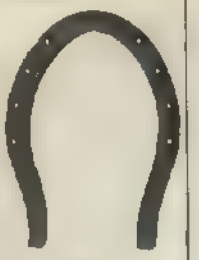
Giant Grip Mule Shoes ..... Keg $.....

100 pounds in keg

PHOENIX HORSE SHOES

PHOENIX EXTRA LIGHT SHOES

Front


Hind

Size	Front Wgt Ounces	Hind Wgt Ounces	Front No. in Keg	Hind No. in Keg
0	11	9	177	177
1	13½	10½	138	152
2	16½	13½	97	118
3	19	16½	84	97
4	22½	19½	71	82
5	25½	23½	63	68
6	31½	28	50	57
7	37½	35	42	46

Phoenix Extra Light Shoes..... Per keg $

PHOENIX LIGHT SHOES

Front

Hind

Size	Front Wgt Ounces	Hind Wgt Ounces	Front No. in Keg	Hind No. in Keg
3	8	10	135	150
4	10½	12	110	135
5	13	15	85	106
6	22	18	70	89
4	25	23	64	70
5	31	27	51	59
6	37	32½	43	49
7	43½	35	35	40
8	48	45	30	35

Phoenix Light Shoes .....Per keg $.....

PHOENIX MULE SHOES

Size.....	00	0	1	2
Wgt. oz....	8	9½	11½	14½
No. in keg.	200	168	139	110
Size	3	4	5	6
Wgt oz	18	22	27	32
No in keg	89	73	59	50

Phoenix Iron Mule Shoes .....Per keg $....

PHOENIX LIGHT LONG HEEL SHOES

Front

Hind

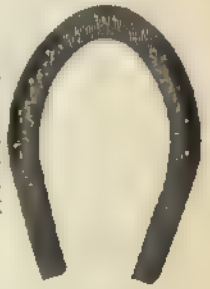
Size	Front Wgt. Ounces	Hind Wgt. Ounces	Front No. in Keg	Hind No. in Keg
4	27	26½	89	60
5	33	32	48	50
6	39½	38½	41	44
7	49	40	33	40

Phoenix L. L. H. Shoes .... Per keg $.

PHOENIX CITY LONG HEEL SHOES

Front

Made from the best grade of puddled iron; nail holes are set further back than ordinary pattern, allowing jumping on of large calks without weakening shoe


Hind

Size	Front Wgt. Ounces	Hind Wgt. Ounces	Front No. in Keg	Hind No. in Keg
6	46	40	35	40
7	55	47	29	34
8	58	52	27	30

Phoenix City L. H. Shoes .... Per keg $

PHOENIX SNOW SHOES

Front

Hind

Size	Front Wgt Ounces	Hind Wgt. Ounces	Front No. in Keg	Hind No. in Keg
0..	11½	8½	13	88
1..	13½	10	118	160
2.	16	12½	100	138
3.	19½	16	82	101
4	24	20	66	78
5	27	24½	59	68
6.	33	28	48	57
7..	38	33	40	48

Phoenix Snow Shoes. ..... Per keg $

All Shoes come one size only in a keg, either Front or Hind or Front and Hind. Extra charge will be made for mixing more than one size in a keg. Nos. 0 and 1 take $0.25 per cwt. extra.

RUBBER HORSESHOES

Bar

Made from high grade forged steel; contains large channels at heel and toe, into which a high grade rubber is vulcanized; prevents slipping on wet or icy pavements, also serves as cushion and relieves the jar caused by hoof striking pavement; shoe will spread ¼ inch.

Bar Shoe—Sizes carried in stock

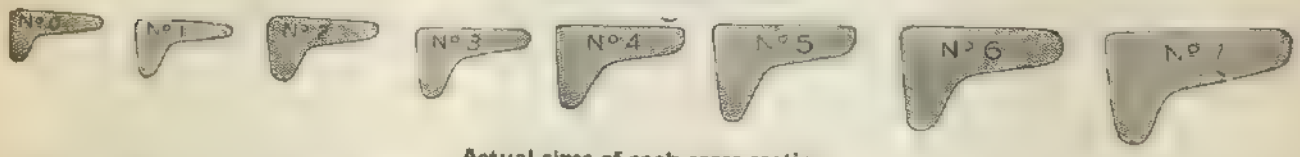
Fronts, Nos.	1	2	2½	3	3½	4	4½
Hinds, Nos.	1	2	2½	3	3½	4	4½
Per pair	$2 00	2 00	2.00	2.00	2 00	2.00	2 00
Fronts, Nos		5	5½	6	6½	7	8
Hinds, Nos		5	5½	6	...	7	8
Per pair		$2 00	2.00	2.30	2 30	2.50	2 00

Open Shoe—Sizes carried in stock

Fronts, Nos.	2	2½	3	3½	4	4½	5	6	6½
Hinds, Nos		2½	3	3½	4	4½	5	6	6½
Per pair	$2 00	2 00	2.00	2 00	2.00	2 00	2.00	2 30	2 30

Open

"B. & M." RIBBED STEEL



Actual sizes of each cross section

This ribbed steel is of special quality, wears well, is stiff, yet easily formed and welded. The larger sizes are extensively used in cities, and where used there is less slipping and straining on asphalt, brick or granite streets.

Nos.	0	1	2	3	4	5	6	7
Weight per ft., oz.	3½	4½	5½	6½	8½	11	14	18
Per pound	3							

Open stock. Fourth class freight

"C. & K." RACING PLATE BAR STEEL

Light Racing

Heavy Racing

Training

Trotting

Exact size of each cross section

Made in four weights as listed above; bars about eight feet long.

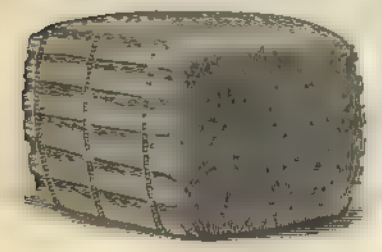
Light Racing—Wgt. 3 oz. per ft. . . . . Per lb. $
Heavy Racing—Wgt. 3½ oz. per ft. . . . Per lb. $
Training—Wgt. 4 oz. per ft. . . . Per lb. $
Trotting—Wgt. 6 1-3 oz. per ft. Per lb. $

Open stock. Fourth class freight

PINE TAR

Carefully prepared from the best North Carolina Pine, cooling and healing; can be applied with Oakum to diseased feet with excellent results

	Each
Pine Tar; Gal. cans	$1 50
Pine Tar; 5 Gal. cans	7 00



GENUINE OAKUM

Hand selected; for use in packing horse's feet; holds tar; prevents waste.

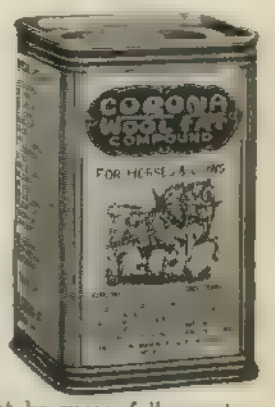
Genuine Navy Oakum Pound $0 50

Open stock. Second class freight

CORONA WOOL FAT

Recommended for cure of sore shoulders, collar galls, sore necks, grease heel, quarter cracks, thrush, corns, hard and contracted feet

Approximately 60 per cent of the horse's hoof is water; water will not mix with or absorb grease or oil, therefore, the remedies that must be carried into a hoof, so largely composed of water, to heal, soften and cure it, must be carried by a vehicle that will penetrate to every part and mix with that hoof what will be absorbed by that hoof.



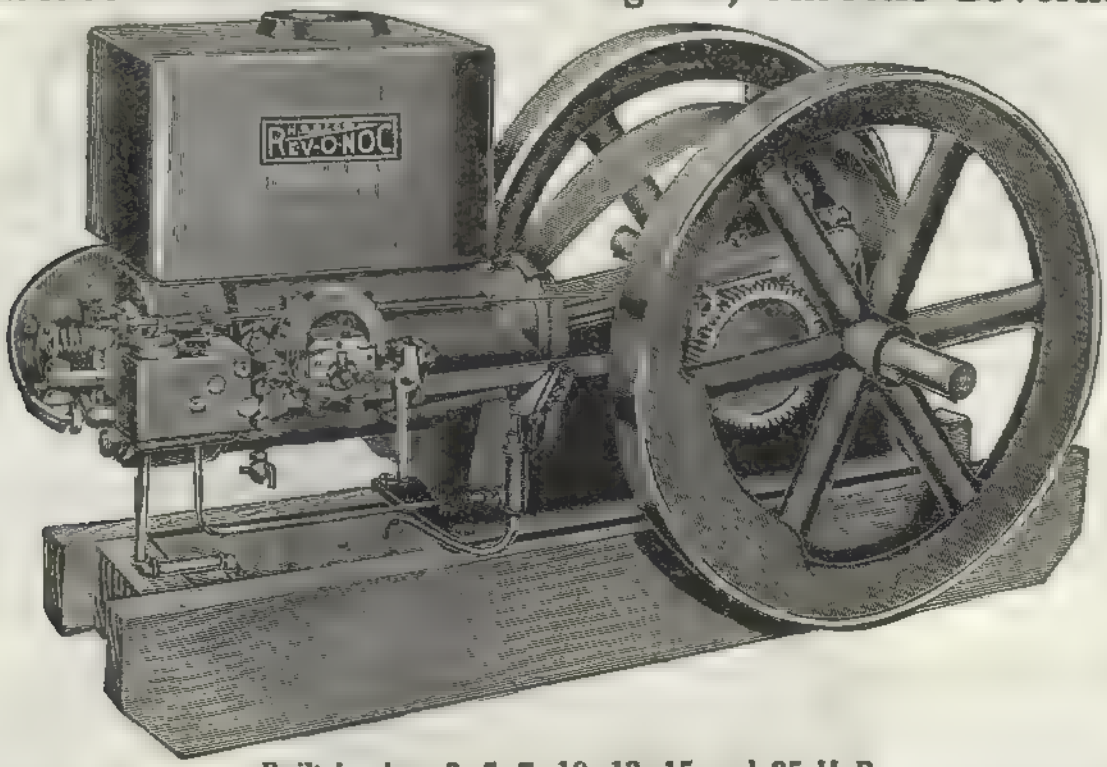
Grease or oil (vaseline) cannot be successfully used as such a vehicle, because they will not mix with water. Corona Wool Fat will mix with water, hence, it will mix with or be absorbed by the hoof, and as it softens it will carry the medication required to cure and make healthy that hoof.

Corona Wool Fat; 10 oz cans. . . . . Dozen $ 8 00
Corona Wool Fat; 26 oz. cans. . . . . Dozen 16.00

Open stock. Second class freight

Prices on Application

REV-O-NOC Faultless Kerosene Engines, Throttle Governed



Built in sizes 3, 5, 7, 10, 12, 15 and 25 H.-P.

The above illustration shows the Improved REV-O-NOC Throttle Governed Kerosene Engine as regularly equipped. Oscillating Type Magneto included, mounted on wood skids, complete ready to run. Many prefer this style of mounting to any other. It is really a semi-portable method and where it is desired to move the engine occasionally a team can be hitched to it, the skids acting as runners. The skids are well made of heavy timber cross braced and nicely painted. It is lighter in weight and a little cheaper in price than the full Iron Sub-Base style shown on next page, which can be furnished at a small additional charge shown in price list.

REV-O-NOC KEROSENE ENGINE "Type K," Throttle Governed

This is not a common gasoline engine with an attachment for using kerosene, but is designed especially for kerosene, and we guarantee it will operate successfully on kerosene, distillate and other similar fuels. It differs from the gasoline engine in the way the fuel is fed into the cylinder, the shape of the head, the valves and governing mechanism, and while it will run perfectly on gasoline, the object of it is to take advantage of the cheaper fuel which at present amounts to a saving of more than 100 per cent.

KEROSENE vs. GASOLINE

Engine manufacturers have always known that kerosene contained as much energy as gasoline, and a good many makeshifts and attachments for using it in engines have been put on the market. Some work when conditions are just right and the operator can stand over them and constantly make adjustments, but usually it will be found that the trouble involved more than offsets the saving. The trouble is, most engine manufacturers try to use kerosene in their regular engine, originally designed and built for gasoline. They use a more or less complicated attachment and attempt by heating the oil or air or both to convert kerosene into gasoline, or rather, an unsatisfactory substitute that can be used in their hit-and-miss engines. At best, they are only makeshifts. The principle is all wrong. Gasoline cannot be made from kerosene any more than butter can be made from lard. If it could, the oil people would do it themselves, and the difference in price would not exist. After trying out these different attachments and inventing a few of our own, we came to the conclusion that if kerosene was used at all for power, it would have to be in a machine made especially for it. So we started from another angle and studied the peculiarities of kerosene as we found it, instead of trying to change it into gasoline, or a substitute that our gasoline engine could use. We built

A REAL KEROSENE ENGINE

One that could use kerosene and thrive on it. We finally succeeded in overcoming all the difficulties, and offer to you our "Type K" Kerosene Engine. Take it, use it, give it every test you would any engine, and if it does not do all we claim for it and that you think it ought to, you are at liberty to ship it back. The REV-O-NOC Line of Gasoline Engines has been manufactured and sold continuously since 1906; they have always enjoyed the reputation of being one of the best engines on the market, and while we may be putting it a little too strong, for which we ask you to pardon us, we believe the REV-O-NOC Throttle-Governed Kerosene Engine is the best engine on the market today. Anyway, you are both judge and jury, and all we ask is that you compare it with any other engine, no matter whose, and if you don't agree with us the engine is ours, and you are out very little except your trouble, and the experience will be well worth that. REV-O-NOC Kerosene Engines will operate on common coil oil or distillate, run just as well and use no more of it than other engines do of high priced gasoline. Can't you well afford to pay a little more in first cost?

DON'T BUY A HIT-AND-MISS ENGINE

And expect it to work satisfactorily on kerosene. A gasoline engine with a kerosene attachment is cheaper to buy, but it will never give you satisfaction. True, it can be made to run at times fairly well, but we know, and believe you will agree, that an engine that cannot be depended on to do its work whenever you want it is not a good buy, no matter how low the price. This is not prejudice nor an effort on our part to make you believe something that is not true, for we build both kinds. It is a fact that any competent engineer will bear us out in. We have spent a lot of time and money experimenting and proving this, and offer these facts to help you decide on the right type of engine to buy.

THROTTLE GOVERNED vs. HIT AND MISS

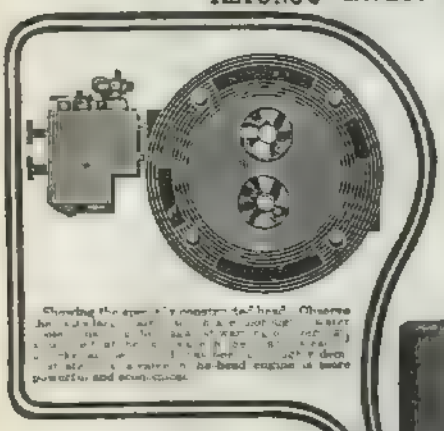
Most gasoline engines are governed on the hit-and-miss principle that is, they always take a full charge and explode it as energy is required, and the intervals between power strokes depends on the load the engine is carrying. If it is a full load it would fire every time, but on a half load the governor acts and prevents another charge being taken into the cylinder and fired until all the energy from the previous charge is used and the speed begins to be reduced, then the governor acts again and allows another charge to be taken. This principle has been found to be perfectly satisfactory for gasoline and all REV-O-NOC Gasoline Engines are so constructed with the governor in the fly wheel. But in the kerosene engine the requirements are different

HIGH SPEED GOVERNOR

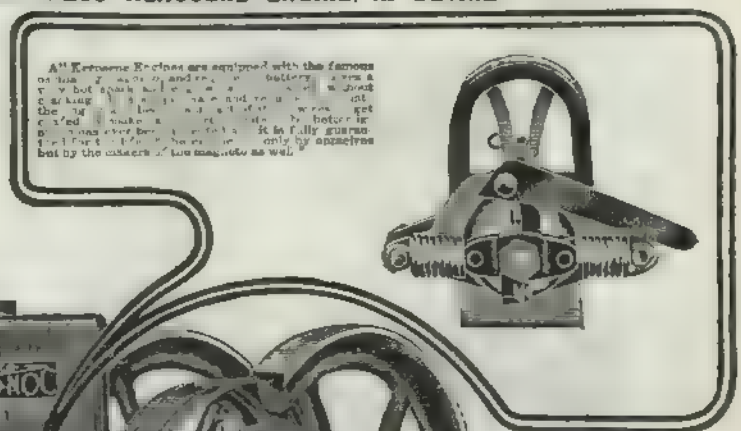
The ball in the fly wheel type does not act quickly enough, so we designed a special high speed fly ball governor (see illustration) the same as those used on most steam engines. This bolts to the engine bed and is driven from the large engine gear. It governs the engine speed perfectly and makes it a beautiful, smooth-running engine that will give years of satisfactory service.

Prices on Application

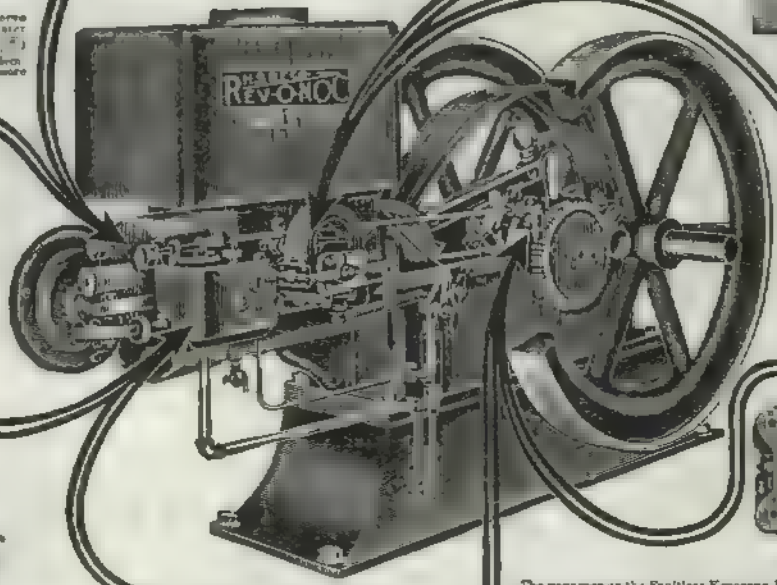
REVONOC LATEST IMPROVED FAULTLESS KEROSENE ENGINE, IN DETAIL



Showing the cross-section of head. Observe how the valves are set in the head directly over the piston. This is a valve-in-head engine as well as a side-valve engine. Note the deep powerful and economical.

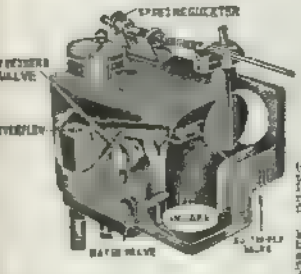


All Kerosene Engines are equipped with the famous [illegible] battery [illegible] but spark [illegible] and [illegible] the [illegible] get started [illegible] better in [illegible] It is fully guaranteed for [illegible] only by ourselves but by the makers of the magneto as well.



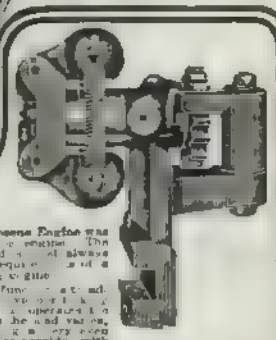
SHOWING THE IRON SUB-BASE MOUNTING RECOMMENDED FOR STATIONARY USE

OPERATES PERFECTLY ON KEROSENE OR DISTILLATE



The fuel reservoir opened up showing the chamber (at rear of it) under negative automatically pumped from the main fuel tank underneath the engine. A constant level is maintained at all times when engine is running, [illegible] being carried back through overflow [illegible]

The butterfly valve in the intake is shown. The [illegible] is in front of the butterfly [illegible] A small amount of [illegible] to prevent carbon from forming in the combustion chamber, and keep down the high temperature.



The governor on the Faultless Kerosene Engine was [illegible] for the Kerosene engine. The [illegible] an old and [illegible] and always [illegible] a governor are the [illegible]

This governor works [illegible] and is [illegible] but very [illegible] and is the only [illegible] opens or closes this valve [illegible] speed changing device [illegible] speed even while engine is running.

Showing Special Features Wherein It Differs from Ordinary Hit-and-Miss Engine with Kerosene Burning Attachment.

No Kerosene Engine with the governor [illegible] fly wheel will run [illegible] as well on kerosene as one with a high speed fly ball governor.

No Kerosene Engine depending on an attachment for heating the fuel or air can possibly run as well on kerosene as one controlled by a butterfly valve in the intake.

No Kerosene Engine will work well with a [illegible] system. The Oscillating Type magneto used on all [illegible] throttling governed kerosene engines is absolutely reliable, requires no battery, and will start engine without cranking.

No Kerosene Engine will work properly and economically unless the head is specially constructed. It requires high compression and extra large valves.

SAVES ITS COST IN ONE YEAR

For example, suppose you have a seven-horse kerosene engine and your work would require five gallons to run it ten hours. At the present price of gasoline here (20c per gallon), the cost would be $1.00. Now, doing the same work, a [illegible] Kerosene Engine would not use any more gallons and the price is 7 cents per gallon for ten hours. A saving of 65 cents, or enough to pay for the total cost of the engine in less than 275 days—not a year's steady running. Is any [illegible] necessary? Remember, the [illegible] Kerosene Engine will give you just as good service in every way as any gasoline engine made. It has no more complications, we do not heat the kerosene or treat it in any way, simply use it the same as any other engine uses gasoline. These are hard cold facts we are ready and willing to prove.

REVONOC KEROSENE ENGINES, THROTTLE GOVERNED

Catalog No.	Actual Horse Power	Regular Semi-Portable on Wood Skids	Hand Part Truck Mounted	Horizontal Portable All Steel Truck	Wood Saw Outfit All Steel	Extra for Iron Sub Base	Extra for Friction Clutch Pulley in Place of Regular	Diameter of Cylinder Bore	Length of Stroke	Revolutions Per Minute	Diam. and Face of Pulley in In.	Crank Shaft Diameter	Diameter of Fly Wheels in Inches	Fly Wheel Weight, Each	Approximate Net Shipping Weight
F30K	3	$188 00	$208 00	..	..	$ 6 45	$ 33 75★	4½	6	400	8x 5	1¾	24	90	600
F50K	5	284 00	305 80	427 00	528 00	9 50	39 00★	5	9	375	12x 6	1¾	28	165	795
F70K	7	367 00	.....	511 00	610 50	14 75	42 50★	6	10	350	14x 8	2	30	215	1078
F100K	10	600 00		773 00	867 00	17 50	46 25★	6½	12	325	16x10	2¼	36	315	1630
F150K	15	846 00		1 061 00	1,134 00	57 50	57 50★	7½	14	300	16x 2	2½	42	485	2300
F120K	12	732 00		947 00	1 019 00	28 00	51 25★	7¼	15	275	18x 2	2½	46	670	2450

WE GUARANTEE ALL [illegible] ENGINES TO DEVELOP 15 PER CENT MORE THAN THEIR RATED HORSE POWER

Prices on Application

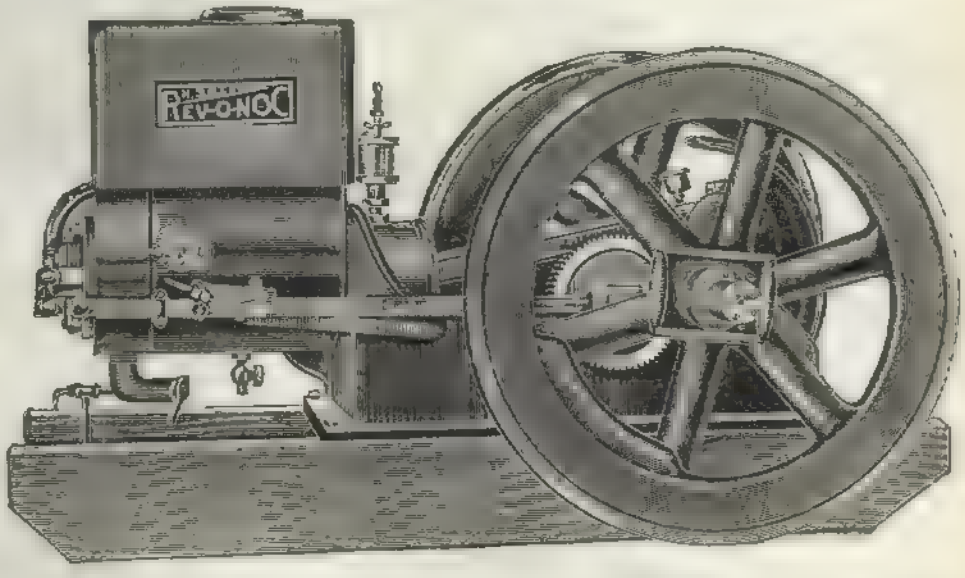
REV-O-NOC Gasoline Engines

Hit-and-Miss Governed

Magneto or Battery Ignition

Self-Contained Hopper Cooled

Portable Semi-Portable and Stationary



Built in Sizes 1¼, 2, 3, 5 7, 10, 12 and 15 H.-P.

The illustration above shows the REV-O-NOC Engine in the cooler and style of mounting regularly furnished. They are of the four-cycle, water cooled, hopper jacket, semi-portable type, self-contained, make and break ignition, large bore, long stroke, slow speed—built for heavy duty and long life

Special Features

Are Simplicity, Few Parts, Extra Large Bearings, Liberal Rating, Easy to Start and Keep Running, and Interchangeable Parts.

REGULAR EQUIPMENT The REV-O-NOC Engine comes to you complete; ready when given fuel, water and oil, to start and run. It is equipped with batteries, spark coil, wrenches and book of instructions; fitted with standard size plain pulley as shown in table of specifications. Mounted on wood skids as shown in illustration.

EXTRA EQUIPMENT Hand and horse portable mounting, wood saw outfits, iron sub-base, instead of wood skids, built-in oscilating magneto in place of batteries, friction clutch pulleys instead of plain, furnished at prices shown in table

GUARANTEE We guarantee REV-O-NOC Engines to be made of the very best material and workmanship, free from flaws or imperfections of any kind. Any part showing defect within a period of five years will be replaced free of charge. That they will develop 15 per cent more than their rated horse power and be as economical in fuel consumption with gas, gasoline or kerosene as any engine made, no matter whose. That it will reach you safely. That it is complete in every way and when given fuel, water and oil will start and run satisfactorily. This applies to both the gasoline and throttling governed kerosene engines.

CARBURETOR Is of our special design suction feed from fuel tank located in base of engine. It is simple, fool-proof and absolutely reliable; has an air shutter for easy starting and will not leak gasoline even if valve is left open. It is so constructed that the fuel is mixed automatically with the proper amount of air to produce a perfect explosion

FLY-WHEELS

While it may seem that fly-wheels are not of much consequence, they are really quite an important part of an engine. It is a favorite place for manufacturers who wish to cheapen their engine to cut out weight. It would be almost impossible to get a fly-wheel too heavy. Its function is to store up energy and to carry the engine over the idle stroke. This is a dimension the careful buyer will look into carefully in selecting an engine.

The REV-O-NOC fly-wheels are large carefully machined, perfectly balanced, of large dimensions and ample weight

CYLINDER HEAD AND VALVES

The head of the REV-O-NOC bolts to the back end of the cylinder, and like the cylinder, is water cooled in all sizes except the 1¼ and 2 H.-P. In these small sizes there is not enough heat generated to require it.

REV-O-NOC Valves are of extra large dimensions, allowing the incoming charge to completely fill the cylinder and the exhaust to be expelled freely without back pressure. The heads are made of cast iron riveted to steel stems, and are ground into their seats in a special machine that does it perfectly

THE GOVERNOR

The governor of the REV-O-NOC is very simple, positive in action, and will regulate the speed of the engine to a nicety whether the engine is running light or on full load. It consists of two weights straddling the fly wheel hub and hinged to a collar fastened to the hub. This is an old and thoroughly tried type of governor and never gives any trouble. There is also provision for changing the speed of the engine while running

THE IGNITOR

REV-O-NOC Engines are regularly equipped with the make-and-break system of ignition, so called by reason of the way it works. It consists of one stationary insulated electrode and one movable one, called the hammer, both fitted with special points. When the proper time to fire the charge occurs the hammer is tripped and both points of the electrodes brought in contact. This closes the electric circuit for an instant and as they fly apart a good hot spark is generated.

It is a very simple, reliable system, easy to understand and rarely ever causes trouble.

NO PACKED JOINTS

The special features of our igniter are: The ease with which it can be taken out and cleaned—simply by unscrewing two cap screws. It has a ground taper joint and fits into the engine same as a stopper into a bottle, and requires no packing whatever.

Spark is controlled by the governor same as the valves and is only made when needed.

THE "SIMPLEX" PETROL, BENZOLE OR PARAFFIN RAIL INSPECTION CARS.

Les wagons d'inspection de voie, à essence, benzol, ou pétrole "SIMPLEX."

Vagones-Motores á gasolina, benzol ó parafina "SIMPLEX" para la inspección de Vias.

Rail Cars and Coaches built for any gauge and to suit local conditions.

Our Standard designs include Cars of from 10 H.P. to 40 H.P., with Seating Capacities from 4 to 30 Passengers.

Estimates and Specifications on Request.

Taking into consideration First Cost, Fuel Consumption, Economy, and the fact that no super-mechanic is required, the "Simplex" Internal Combustion Engined Rail Cars are the most economical.

20

20 B.H.P. Simplex Petrol Rail Car. Capacity 16 Passengers.

Wagon moteur "Simplex" de 20 H.P., transportant 16 voyageurs

Vagon motor a gasolina "Simplex" de 20 H.P. para 16 pasajeros

Wagons d'inspection de voie et de service, construits pour toutes voies et convenant aux conditions locales.

Nos modèles "Standard" comprennent des wagons moteurs de 10 à 40 H.P., pour transporter de 4 à 30 voyageurs assis

Devis et description sur demande

Prenant en considération le prix d'achat, la consommation de combustible, l'économie et le fait qu'un mécanicien expérimenté n'est pas nécessaire, les wagons à moteurs à combustion interne "Simplex" sont les plus économiques

Construimos coches y vagones-motores para cualquier ancho de via y para adaptarse á las condiciones locales

Nuestros modelos "Standard" comprenden coches motores desde 10 H.P. hasta 40 H.P. con asientos para desde 4 á 30 pasajeros

Presupuestos y especificaciones á solicitud

Teniendo en cuenta el primer costo, el consumo total, la economia y el hecho de que no se requiere un super-mecánico, el vagon-motor "Simplex" de combustión interna es el más económico

THE MOTOR RAIL & TRAM CAR Co., Ltd.,

LIGHT RAILWAY ENGINEERS,

Constructeurs de Chemins de Fer Legers. Ingenieros Constructores de Ferrocarriles Ligeros,

SIMPLEX WORKS, BEDFORD, ENGLAND.

Cables: *Câbles.* Cables
"MOTRAL, BEDFORD"

Code: *Code* Código
A.B.C. 5th Edition.

THE "SIMPLEX" PETROL, BENZOLE, OR PARAFFIN TRAMWAY CARS.

SA

"Simplex" Internal Combustion Engined Tramway Cars have been thoroughly proved and found absolutely efficient. For over 12 years all our energies have been devoted to building Rail Cars, Tramway Cars, and Locomotives.

We build for all gauges and of various seating capacities to suit local conditions.

The "Simplex" Cars are economical and so easy to handle and control that native labour can be safely employed.

We shall be pleased to send details of standard types, or to quote for cars to special requirements.

PB

Les Tramways à Essence, Benzol ou Pétrole "Simplex."

Les tramways "Simplex" avec moteurs à combustion interne ont été mis à l'epreuve et reconnus absolument efficaces

Depuis plus de 12 ans, nous avons consacré toutes nos énergies à la construction de voitures de chemin de fer, tramways et locomotives.

Nous construisons pour toutes largeurs de voies et pour installations d'assise variée, pour convenir aux conditions locales.

Les tramways "Simplex" sont économiques et si faciles à conduire que la main d'œuvre indigène peut facilement être employée.

Nous serons heureux d'envoyer les détails de modèles courants et de coter des prix pour tramways, selon les besoins spéciaux.

Tranvías "Simplex" á Gasolina, Benzol ó Parafina.

Los tranvías "Simplex" de motor á combustión interna han sido concienzudamente probados y han dado resultados eficacísimos. Por más de 12 años todas nuestras energías y esfuerzos se han encaminado á la construcción de coches de ferrocarril, tranvías y locomotoras.

Los construimos para todos los anchos de vía, para cualquier número de pasajeros y apropiados para las diferentes regiones y condiciones locales.

Los tranvías "Simplex" son económicos y tan fáciles de manejar y gobernar que por lo cual se pueden con seguridad, la mano de obra indígena

Nos será grato remitir detalles de los modelos corrientes y cotizar precios para requerimientos especiales.

THE MOTOR RAIL & TRAM CAR Co., Ltd.,

LIGHT RAILWAY ENGINEERS,

Constructeurs de Chemins de Fer Legers. Ingenieros Constructores de Ferrocarriles Ligeros

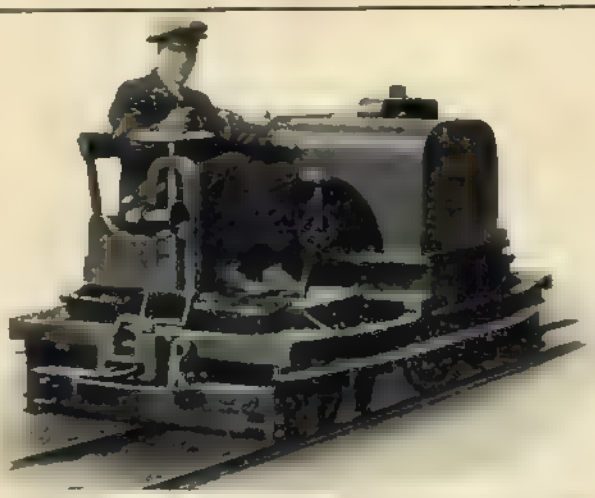
SIMPLEX WORKS, BEDFORD, ENGLAND.

Cables "MOTRAL, BEDFORD."

Code: A.B.C. (5th Edition).

"SIMPLEX" Petrol, Benzole or Paraffin LOCOMOTIVES.

Locomotives à Essence, Benzol ou Pétrole "Simplex." Locomotoras "Simplex" á Gasolina, Benzol ó Parafina



20 H.P. "SIMPLEX" LOCOMOTIVE, for gauges 2 ft. to 3 ft. 6 ins
20 H.P. "Simplex" pour voies de 61 cm à 1,07 m
Locomotora "Simplex" de 20 H.P. para anchos de vía de 61 cm á 1,07 m

"Simplex" Locomotives are scientifically designed and have been perfected by the production of many hundreds. All gears absolutely simple and parallel. No bevel gears nor connecting rods. Proved to stand the shocks of constant shunting and the handling of heavy loads. Fitted with Universal Couplings and Buffers.

HAULAGE CAPACITIES OF STANDARD TYPES

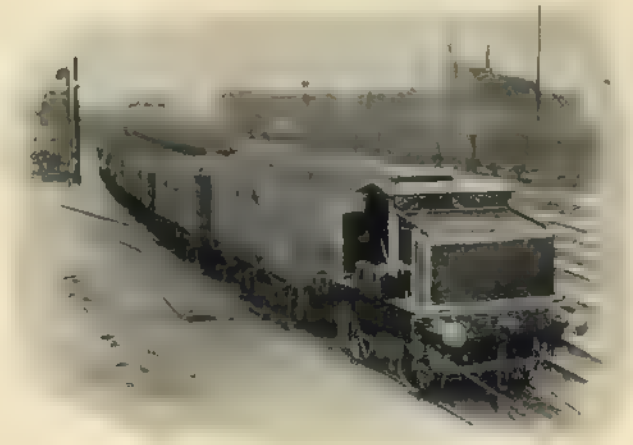
Gradients:	40 B.H.P. 8 ton type.	20 B.H.P. 4 ton type.	20 B.H.P 2½ ton type.
Add gauge after Code Word:	Code AC	Code EF	Code IB
On level:	100 tons.	50 tons.	38 tons.
Up 1 in 100	76 "	37 "	27 "
" 1 " 60	62 "	26 "	19 "
" 1 " 40	47 "	18 "	13½ "
" 1 " 20	17 "	8½ "	6½ "

If Paraffin is used, efficiency reduced 20 % Code for Paraffin Engine X.

"Simplex" Petrol Locomotives have many advantages over other forms of traction. Very easy to drive and control. Low working costs. Ever ready for duty and have great stability on temporary or faulty tracks. There is no danger of fire from sparks. Practically no water required.

NO STAND-BY LOSSES

Specifications and Estimates on Request.



40 H.P. "SIMPLEX" LOCOMOTIVE, for gauges 2 ft. 6 ins. to 4 ft. 8½ ins
Locomotive de 40 H.P. "Simplex" pour voies de 1,07 m à 1,44 m
Locomotora "Simplex" de 40 H.P. para anchos de vía de 1,07 m á 1,44 m

Les locomotives 'Simplex' sont [illegible] scientifiquement et ont été perfectionnées par la production de nombreuses centaines. Tous les engrenages sont absolument simples et parallèles, aucun engrenage d'angle ni [illegible]. Pas de tringles. Sont prévues pour supporter des chocs répétés, et la manutention de charges lourdes. Montés avec accouplements et tampons universels.

EFFORTS DE TRACTION DES MODÈLES 'STANDARD'

Rampe	[illegible]	[illegible]	[illegible]
Résistance de la voie en kilogs par tonne	[illegible]	[illegible]	[illegible]
En palier	[illegible]	[illegible]	[illegible]
Rampe de 1 pour 100	[illegible]	[illegible]	[illegible]
" 1 " 60	[illegible]	[illegible]	[illegible]
" 1 " 40	[illegible]	18	[illegible]
" 1 " 20	[illegible]	[illegible]	[illegible]

[illegible] emploie le pétrole, le tonnage est diminué de 20 %
Code pour locomotive à pétrole IX

Les locomotives à essence 'Simplex" possèdent de nombreux avantages [illegible] sur d'autres [illegible] de traction. [illegible] Elles sont très faciles à manier et à entretenir. [illegible] Toujours prêtes pour service et ont une grande stabilité sur une voie provisoire ou défectueuse. Il n'y a aucun danger d'incendie par les étincelles. Pour ainsi dire, pas d'eau nécessaire.

AUCUNE PERTE

Description et devis, sur demande

Las locomotoras 'Simplex" están diseñadas científicamente y se han hecho perfectas por la construcción de muchos centenares. Todos los mecanismos ó engranajes perfectamente paralelos y sencillos. No llevan tirantes ni bielas. Han sido probadas para resistir todos los choques de las maniobras y el transporte de cargas pesadas. Provistas de acoplamientos universales y topes

CAPACIDAD DE ARRASTRE DE LOS TIPOS CORRIENTES

Rampa	40 B.H.P. Tipo 8 toneladas.	20 B.H.P. Tipo 4 toneladas.	20 B.H.P. Tipo 2½ tonelada
Agregase por cada [illegible]	Codigo (AC)	Codigo (EF	[illegible]
A nivel	[illegible]	[illegible] toneladas	[illegible]
Rampa de 1 por [illegible]	[illegible]	[illegible]	[illegible]
" 1 " [illegible]	[illegible]	[illegible]	[illegible]
" 1 " 40	[illegible]	18	[illegible]
" 1 " 20	[illegible]	[illegible]	[illegible]

Si se emplea [illegible] se disminuye [illegible] %
Código para locomotora [illegible] X

Las locomotoras 'Simplex" á gasolina tienen muchas ventajas sobre [illegible] otras formas de tracción. Son muy fáciles de manejar y controlar. [illegible] de funcionamiento [illegible]. Siempre listas para trabajar. Disponen de gran estabilidad sobre cualquier vía defectuosa ó temporal. No hay peligro de incendios causados por las chispas. Apenas requieren agua.

NO EXISTEN PÉRDIDAS SECUNDARIAS

Especificaciones y presupuestos á pedirlos

The Motor Rail & Tram Car Co., Ltd., LIGHT RAILWAY ENGINEERS,

Constructeurs de Chemins de Fer Légers. Ingenieros Constructores de Ferrocarriles Ligeros

SIMPLEX WORKS, BEDFORD, ENGLAND.

Cables: Câbles. Cables: "MOTRAL, BEDFORD" Code: Code. Codigo A.B.C. 5th Edition

SPLIT BAMBOO FISHING RODS

No. 3092C

FLY RODS

Good quality split bamboo, veneer cork grips, nickel plated mountings, snake guides and closely wound with attractive colors of silk.

No. 3092C. Fly rod, length 9 feet, weight 5½ ounces ..... each, **$9.00**

One in a silesia covered form

No. 401½

BLACK BASS BAIT RODS

Handy and compact; can be carried in a suitcase or a small trunk; four piece split bamboo, wrapped with clustered red and green silk; cork grip, nickel plated mountings, solid metal reel seat above hand.

No. 401½. Length 7½ feet, length of joints 23 inches, weight 8½ ounces ..... each, **$5.00**

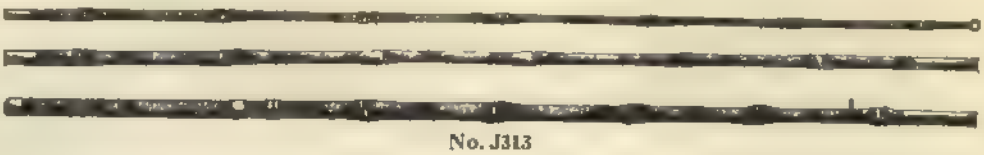
One in a cloth bag

JAPANESE BAMBOO FISHING RODS

No. J36½S

Three piece, light color bamboo, black enameled grip, metal reel seat above hand, full nickel mountings

No. J36½S. Length 5 to 6 feet, weight about 15 ounces ..... per dozen, **$30.00**



No. J313

Three piece, mottled finish bamboo, brass ferrules, ring guides, reel bands and butt cap

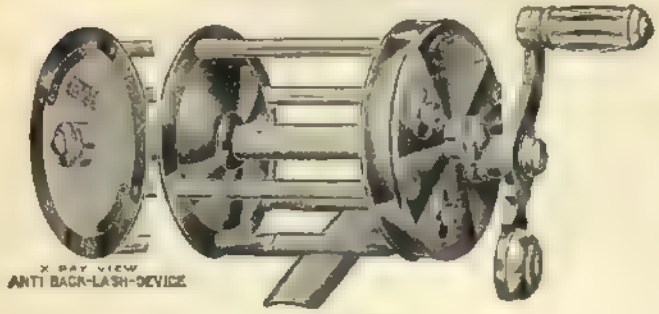
No. J313. Length 10 feet, weight about 16 ounces ..... per dozen, **$24.00**

No. J20

Two piece, light color bamboo, brass ferrules.

No. J20. Length 7 to 9 feet, weight about 6 ounces ..... per dozen, **$6.00**

FISHING REELS



No. 1433J

PFLUEGER REDIFOR

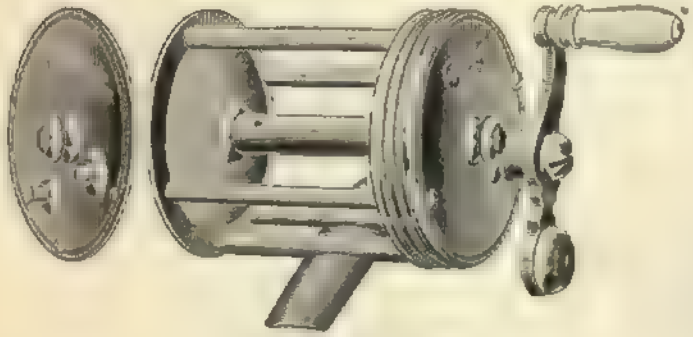
Quadruple Multiplying, Anti Back Lash Casting Reels

Nickel silver, satin finish, treated to prevent tarnish, generated spiral tooth gears, bronze bushed bearings, adjustable front sliding click and drag, steel pinions and pivots, fancy oil cups, balance crank, pyralin amber handle, bronze bushed.

With Scarlet Genuine Agate Jewel Bearings

No. 1433J. Capacity 100 yards, 1⅜ pillar, 2 inch disk weight 11 ounces.....each, **$15.00**

One in a jeweler's display case with oil can



Nos. 223 and 224 Series

FOUR BROTHERS REGAL

Quadruple Multiplying

Silverine, adjustable back sliding click, adjustable back sliding drag, fancy oil cups steel pinion and pivots, bushed bearings, balanced crank with pyralin ivory handle, average weight 10 ounces.

No. 223. Capacity 60 yards, 1⅜ inch pillar, 2 inch disk .....each, **$5.00**

No. 224. Capacity 80 yards, 1⅜ inch pillar, 2¼ inch disk .....each, **5.50**

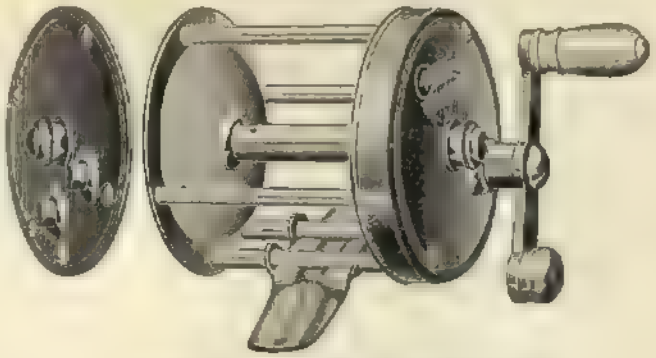
With Scarlet Genuine Agate Jewel Bearings

No. 223J. Capacity 60 yards, 1⅜ inch pillar, 2 inch disk .....each, **$6.00**

No. 224J. Capacity 80 yards, 1⅜ inch pillar, 2 inch disk .....each, **6.50**

One in a box, wrapped in tissue and anti-tarnish paper

FISHING REELS

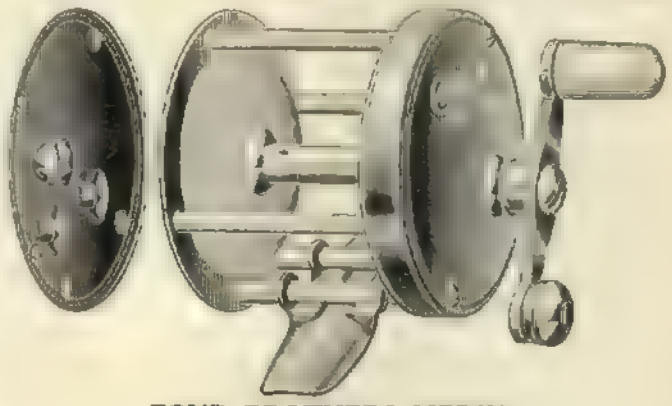


FOUR BROTHERS SENTRIE

Quadruple

Adjustable back sliding click and drag, fancy oil cups, steel pinion, balanced crank, white Sitka ivory handles, polished nickel finish.

No. 1153. Capacity 60 yards, 1⅜ inch pillars, 2¼ inch disks .....per dozen, **$30.00**

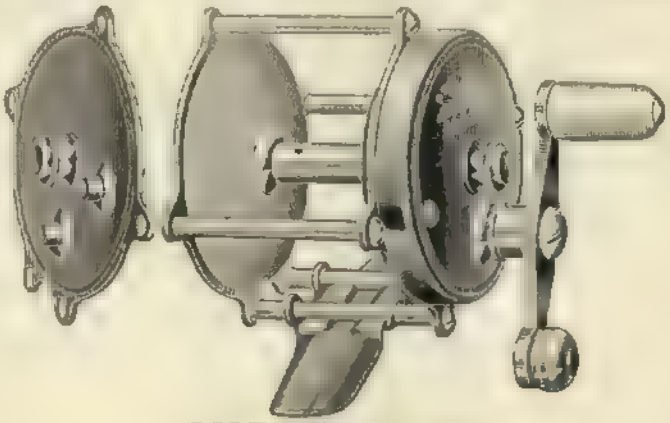


FOUR BROTHERS MEDINA

Double Multiplying

Polished nickel, adjustable back sliding click and drag, balanced crank, white rubberet handle, weight 9 ounces.

No. 533. Capacity 60 yards, 1⅜ inch pillar, 2¼ inch disk .....per dozen, **$30.00**



PORTAGE CASCADE

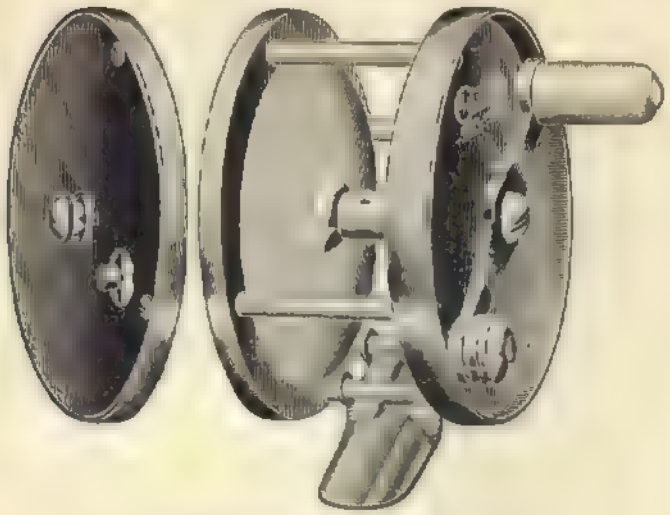
Double Multiplying

Polished nickel, adjustable back sliding click and drag, balanced crank, white rubberet handle, fancy oil cup on back plate, weight 8 ounces.

No. 1143. Capacity 60 yards, 1⅜ inch pillar, 2¼ inch disk .....per dozen, **$26.00**

All above, one in a box, wrapped in tissue and anti-tarnish paper

FISHING REELS



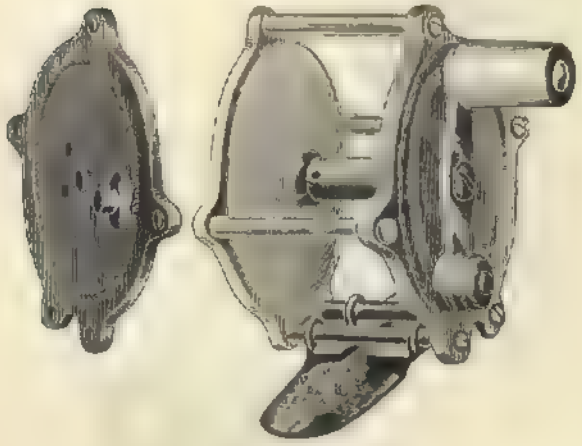
FOUR BROTHERS DELITE

Single Action

Polished nickel, hard rubber disks, bushed for bearings, adjustable back sliding click, white rubberet handle, weight 8 ounces.

No. 114. Capacity 80 yards, 1 inch pillar, 2½ inch disk .....per dozen, **$39.75**

One in a box, wrapped in tissue and anti-tarnish paper



PORTAGE SEMINOLE

Single Action

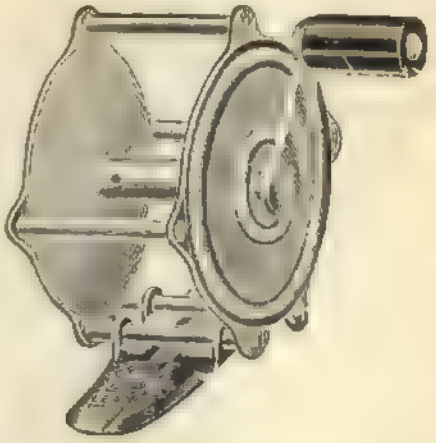
Polished nickel, adjustable back sliding click, balanced flush crank, white rubberet handle, weight 7 ounces.

No. 83. Capacity 60 yards, 1 inch pillar, 2¼ inch disk .....per dozen, **$19.50**

No. 84. Capacity 80 yards, 1 inch pillar, 2½ inch disk .....per dozen, **21.00**

One in a box, wrapped in tissue and anti-tarnish paper

FISHING REELS



PORTAGE LEADER

Single Action, Without Click

Made of brass, bright finish, enameled wood handle. Treated to prevent discoloration, and will hold its color in either salt or fresh water atmosphere.

No. 2. Capacity 40 yards, length of pillar 1 inch, diameter of disc 2 inches .....per dozen, **$6.00**

One only in anti-tarnish paper, six only in a box

FISHING LINES

ORIGINAL CUTTYHUNK LINEN

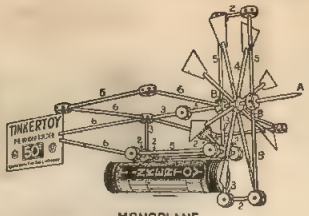
Hand laid linen, made from best quality standard 50s Lea Irish flax. Natural color.

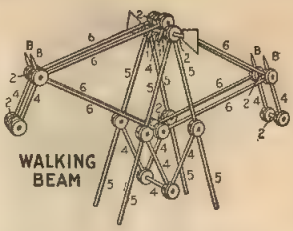
No.	Threads	Test. Pounds	Per Dozen
9	9	18	$11.25
12	12	24	13.00
15	15	30	15.00
18	18	36	17.25

Weight per dozen about 2 pounds

50 yards on a spool, two connected, in a box

TINKER TOY





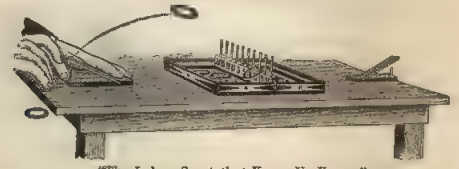
Set consists of 73 Smooth, Round Rods and Spools of Unvarnished Hardwood, W't Per Doz. Sets 14 Lbs.

No. 1—W't per doz. sets 14 lbs. .....per dozen sets $7.80

The 65 cent toy that holds all world's records for sales during the past year. Clean and white, without paint or varnish, they can be taken apart and put together to form **a thousand different marvelous motion figures.** A new toy for every day in the year, all for the cost of one. Complete and easy instructions packed with each toy. Tinker Toy Book "B," consisting of wonderful new models made with two sets and more, is furnished free through dealers to two-set purchasers or present owners of **Tinker Toys** on the purchase of a second set. **Tinker Toys** are packed in unique tubular boxes, ready for purchasers to stamp, address and mail at one-pound rates. No wrapping required.

No seasons with **Tinker Toy.** Every day is Christmas.

JUMPY TINKER



"The Indoor Sport that Keeps Us Young."

A live, active, snappy game that all the family will play. It consists of two courts divided by a picket fence, two catapults or spring boards, five rings to be projected from a distance to encircle the pickets. Unique variations in the system of scoring makes the play exceedingly interesting.

No. 26—W't per doz. 7 lbs .....per dozen $4.20

ONE SET IN A STRONG BOX, WITH A FOUR COLOR LABEL SHOWING THE GAME IN ACTION

SHIPPING FACILITIES

With our immense stock and very modern facilities for shipments we are enabled to fill orders with unequaled promptness. On some of the roads we have special through cars which enable us to reach distant points 24 hours ahead of shipments made in the regular way.

TINKER TOYS

TOM TINKER

There is a period in a baby's life between the rattle and a real doll that has not, up to this time been fully met by those engaged in the business of making play, but now comes Tom Tinker the Ball Man, whom you will agree is just the one to brighten this important period. He consents to being thrown or dragged around and treated ever so roughly without a murmur of complaint. He has no sharp corners to bruise or injure little hands, just nice, smooth, wooden balls strung on four strong cords, which extend to a handle ball about a foot above his head. His many colors are made from harmless dyes that do not lick off. A most lovable companion for any child. Of course Tom can be dressed up in any style.

No. 25—W't per doz. 4½ lbs. .....per dozen *$7.80*

ENCLOSED IN A VERY ATTRACTIVE BOX. PACKED ONE DOZEN IN A FIBRE CASE

BELLE TINKER

Fortunate in her given name, Miss Belle Tinker lives up to its highest meaning. All little boys and girls are just as fond of her as they can be, not alone because she is Tom's twin sister, but on account of her charming personality, beauty of form and face and her lovely disposition. Never out of sorts, always gracious and ever ready to amuse and entertain; her colorings are all her own and will not shed and as she is made of wood no harm can possibly come to her.

No. 30—W't per doz. 4½ lbs. .....per dozen *$7.20*

ONE IN A BOX, ONE DOZEN IN A CARTON

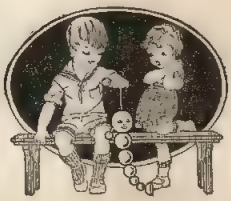
RATTLEBOX TINKER

Simple pull toy for a young walking baby. Noisy enough to interest but not disturb. The possible sales for this item are large. Inexpensive.

No. 37—W't per doz. 7 lbs. .....per dozen *$6.00*

ONE IN A BOX; ONE DOZEN IN A CASE

SIREN TINKER



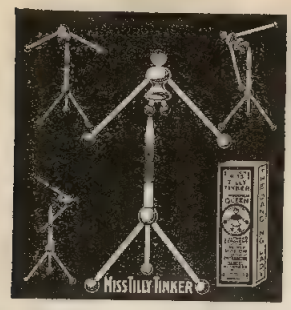
Based on the childhood love for beads on a string but enlarged to balls of interesting size, graduating from large to small and forming a fascinating "Siren" doll. The balls slide backward and forward and take their normal position instantly as wanted. A genuine novelty, waterproof colors. Body size 8½ in.

No. 38—W't per doz. 4½ lbs. .....per dozen *$7.20*

ONE IN A BOX, ONE DOZEN IN A CASE

Our Very Best is the Very Best.

MISS TILLIE TINKER

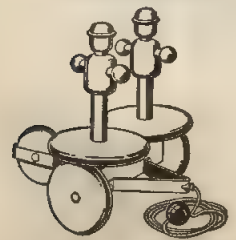


Miss Tilly Tinker is destined to become one of the world's favorites in public life. No lady made of wood has ever been able to perform the wonderful feats accomplished by this fascinating beauty. She dances untiringly upon her toe at the top of a slender pole. She whirls and bows, forward, sideways and backward, cuts figure eights, and leans over so far, that at times it seems as if she would surely fall, but always rights herself with perfect safety. Miss Tilly's beauty, color and motion will win her way into the hearts and homes of every family in the land, and bring delight to childhood.

No. 27—Height 17½ in., w't per doz. 15 lbs., per dozen *$9.00*

ONE IN A BOX; ONE DOZEN IN A CASE

WHIRLEY TINKER

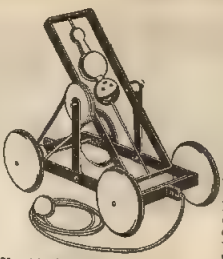


Color and action never fail to hold the child interest. The simple act of pulling this toy by the string sets two little men dancing merrily like tireless dervishes, round and round, fast or slow in never ending spins to the astonishment of all juvenile onlookers and the great delight of the operator. Whirly Tinker naturally compels attention. Made of hard wood, highly colored and polished, with rust-proof metal trimmings.

No. 33—W't per doz. 16 lbs. .....per dozen *$15.00*

ONE IN A BOX; ONE DOZEN IN A CARTON

TUMBLE TINKER



This little acrobat does a feature diving act in a revolving trapeze. He works fast, is very amusing and will continue as long as the carriage is drawn, unless of course, one wishes to let him rest, in which event the belt on the pulley is slipped aside, when he simply rides along, quietly awaiting his call for the next performance. Made of metal and hardwood, highly colored and polished. A decidedly attractive plaything for both boys and girls.

No. 34—W't per doz. 16 lbs. .....per dozen *$15.00*

ONE IN A BOX; ONE DOZEN IN A CARTON

TURTLE TINKER

The best balanced and easiest rolling pull toy ever invented. Rides on either side and turns turtle when taking corners. Cannot drag, it always rides right side up. Solid wood body ball, head and wheels, frame of metal, all nicely finished.

No. 39—Size 8 in., w't per doz. 11 lbs. ..per dozen *$12.00*

FOLLO-ME TINKER

Here is a rolling toy, that is always rolling; in fact, it can't possibly do anything else, for all sides are on wheels and no matter how roughly treated or thrown about it is sure to land right side up. Follo-Me-Tinker provides rest and comfort for nurse and mother, as well as continuous amusement and entertainment for the child. Made of hardwood, beautifully finished in attractive colors; cord and ball included.

No. 32—Size 3x3x15 in., w't per doz. 13 lbs., per dozen *$12.00*

ONE DOZEN IN A CARTON

SPECIAL TOOLS FOR FORD CARS

DOUBLE END UTILITY WRENCH

The two sizes of sockets on this wrench show the largest number of adjustments possible of any wrench combinations.

Reason enough for its turnover.

Openings: 5/16 and 3/8 in. hex.

Fits:

5/16 in. hex.

Ball and socket bolt and nut.
Battery bracket-to-frame bolts and nuts.
Brake and reverse support bolts and nuts.
Cam shaft bearing set screws.
Carburetor flange bolt nut.
Carburetor nuts (Holly model, N. H.)
Clutch lever screw and nut.
Commutator case support bolt (1919 and previous).
Crank case and cylinder cover cap screws.
Crank case arm bolts and nuts (side and bottom).
Crank case bolts and nuts.
Cylinder cover bolts and nuts.
Cylinder front cover cap screws.
Cylinder front cover cap screw (starter type).
Cylinder valve cover nuts.
Engine base bolts and nuts.
Fan adjusting screw.
Front fender iron bolts and nuts (side and bottom).
Inlet and exhaust clamp stud and nut.
Magnet bolts.
Muffler head-to-frame bolts and nuts.
Radiator stud and nut.
Steering post bracket bolts and nuts.
Steering yoke clamp bolt and nut.
Transmission cover bolts.
Universal ball cap bolts.

3/8 in. hex.

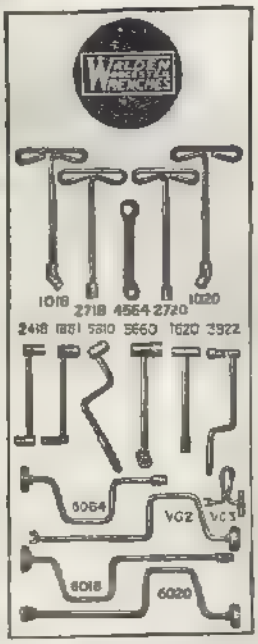
Brake shoe support nut.
Crank shaft bearing nuts (front and rear).
Fan bracket bolt.
Front spring clip bolt (1920 and previous).
Lamp bracket nuts.
Radius rod bolt and nut.
Spindle bolt nut.
Steering gear post castle nut.

Construction—3/8 in. heavy steel bar, sockets, round for clearance.
Length—9 3/8 in.
Finish—Burnished nickel.

No. 6538—W't per set 7½ lbs., each $1.00

SIX IN A CARTON

NO. T80G WRENCH SETS



FORD CAR

Wrenches for Ford cars are in constantly increasing demand. Walden-Worcester Wrenches are original models. This free Display Board allows you to display your stock and will multiply your sales.

These free Display Boards have wooden backs, the front is of sheet metal handsomely lithographed in black and golden rod, the hooks are held by nut and check nut and there is no possibility of the board warping out of shape. An ornament to any store and a valuable sales producer.

Complete with Display Board and Stock Shown Below.

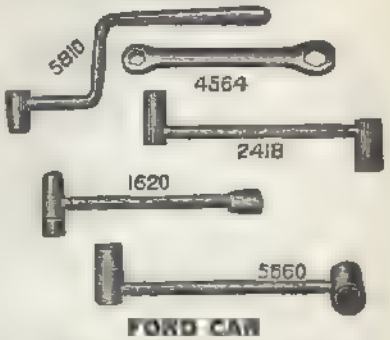
5	1620	Tomahawk Wrenches
5	5810	Connecting Rod Wrenches
5	2718	Tee Handle Wrenches
5	2720	Tee Handle Wrenches
5	4564	Ratchet Wrenches
5	2418	Double Socket Wrenches
5	1018	Tee Flex Wrenches
5	1020	Tee Flex Wrenches
5	6064	Speed Wrenches
5	6018	Speed Wrenches
5	6020	Speed Wrenches
5	VG-2	Valve Grinders
5	VG-3	Valve Grinders
5	5660	Triple End Socket Wrench
5	1881	Double End Socket Wrench
5	3822	Fly Wheel Wrench

80 Wrenches
Board and Hooks (crated) 50 lbs.
Wrenches (boxed for shipment) 103 lbs.
Wrenches (net weight) 85 lbs.
Size of Board, 6 ft. x 2 ft.

No. T80G—Set complete, per set $109.30

WE DO NOT BREAK SETS

WALDEN SET



FORD CAR

No. 1620G—Tomahawk. Triple socket wrench. Socket sizes ⅜ in. and ½ in. This is the original Triple Socket Wrench, trademark "TOMAHAWK." Will fit the following: Axle housing bolt and nut, Brake shoe support bolt, Cylinder head cap screw, Dash bracket to dash bolt and nut, Drive shaft roller bearing, stud nut, Water cylinder inlet connection cap screw, Water cylinder outlet connection cap screw.

No. 5810G—Connecting Rod Wrench. This is an original design, the first wrench made to reach the fourth connection without removing the engine from the car.

No. 4564G—Ratchet Wrench 1 1/16 in. hex. opening for use on the Ford brake and reverse transmission bands. Opposite end 15/16 in. for use on slow speed connecting lock nut and also CHAMPION X Spark Plugs.

No. 5660G—Triple Socket Offset Wrench. Socket sizes 15/16, ⅞ and 1 1/16 in. Length over all 10½ in. Will fit the following: Body bracket connecting bolt and nut, Front radius rod nut, Front spring perch nut, Front and rear spring hanger nut, Hub bolt and nut, Radius rod bolt and nut, Rear spring clip nut, spindle bolt with oiler, Spindle connecting rod bolt with oiler, Spindle connecting rod bolt nut.

No. 2418G—Double Socket Offset Wrench Socket sizes 9/16 and ⅜ in. Length over all 9 in. Will fit the following: Brake reverse support bolt and nut, Brake shoe support bolt, Clutch pedal support bolt and nut, Crank case arm bolt and nut (side), Crank case arm bolt and nut (top), Crankshaft bearing bolt nut, Crankshaft rear bearing bolt, Dash bracket to Dash bolt and nut, Differential case stud and nut, Fan bracket bolt, Front fender iron bolt and nut (bottom), Front spring clip nut, Inlet and Exhaust clamp stud and nut, Spindle bolt nut, Steering post bracket bolt and nut, Steering yoke clamp bolt and nut, Universal ball cap, bolt and nut, Universal ball cap screw.

No. 5115—57—Set complete for Fords, w't 5½ lbs. ..... per set **$6.10**

WE DO NOT BREAK SETS

SPECIAL WRENCHES FOR FORD CARS

FLY WHEEL WRENCH

WALDEN

No. 3822G—Socket size 13/16 in. hex. Used on fly wheel cap screws heretofore considered an impossible place for a socket wrench. An ugly place made accessible, w't each 1 lb., each $0.90

FIVE IN A BOX

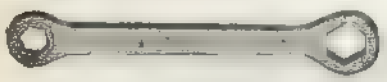
CONNECTING ROD WRENCH

WALDEN

No. 5810G—Connecting Rod Wrench. Fits all connecting rod cap nuts. Includes the fourth connecting rod. This is an original design, the first wrench made to reach the fourth connection without removing the engine from the car. Be sure you get the wrench with all right angle bends and loop handle. No. 5810 stamped on handle, w't each 1 lb., each $0.75

FIVE IN A BOX

TRANSMISSION BAND WRENCH



WALDEN

No. 4564G—Ratchet Wrench. 1 1/16 in. hex. opening, particularly designed for use on the Ford brake and reverse transmission bands. Opposite end 15/16 in. for use on slow speed connecting lock nut and also CHAMPION X Spark Plugs. One if the most valuable tools to an owner on account of the ease in taking up bands, w't each 2 lb., each $1.75

FIVE IN A BOX

SPEED WRENCHES

WALDEN

No. 6064G—Short speed wrench, socket size, 1 in. hex., length over all 12⅜ in., will fit the following crank case: lower cover screw differential drive gear case, muffler rod nut, rear aaxle housing, bolt and nut, steering tube flange, bolt and nut, w't each 1¼ lbs. ....each $1.00

FIVE IN A BOX

VALVE GRINDERS

WALDEN

No. 2VGG—Long shank brace grinder wrench, some garage men prefer the brace grinder in place of short grinder VG3, fork end flexible and will reach all valves including one under the dashboard, w't each 1¼ lbs. .....each $1.20

WALDEN

No. 3VGG—Short valve grinder wrench—all steel, the original wire handle valve grinder re-designed with ⅜ in. bar handle which swivels on cone bearing, the fork end fits the head perfectly, w't each ¼ lb., each $0.75

FIVE IN A BOX

No. 6534—High grade steel, nickel plated, mahogany handle, fits valves accurately, w't each 14 oz., each $0.50

HALF DOZEN IN A BOX

TRIPLE SOCKET OFFSET

WALDEN

TOMAHAWK

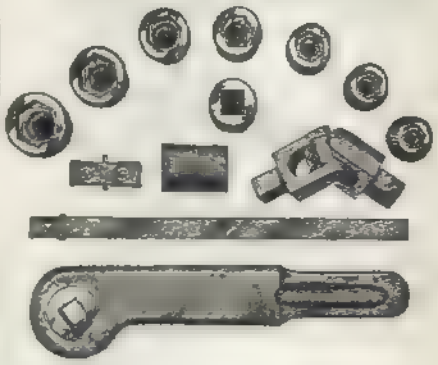
Socket sizes ⅜ in. and ½ in. This is the original Triple Socket Wrench, having ¼ in. rod connecting the two sockets. The sockets are particularly shaped to increase their usefulness. Will fit the following:

Axle housing bolt and nut.
Brake shoe support bolt.
Cylinder head cap screw.
Dash bracket to Dash bolt and nut.
Drive shaft roller bearing, stud and nut.
Water cylinder inlet connection cap screw.
Water cylinder outlet connection cap screw.

No. 1620G—W't each 1 lb., each $0.95

FIVE IN A BOX

WALDEN WRENCH SETS



Set Consists of

No. 516—9 in. Ratchet Wrench
No. 1139—9 in. Extension Bar
No. 1102—Universal Joint
7 Sockets—hexagonal ⅜, 5/16, ½, 11/16, ¾, ⅞, 15/16.
1 Socket—square 5/16.

Assorment particularly selected to fit Ford cars.

Box size 10⅜×4⅜×2⅜ in.
Weight 5¼ lbs.

No. 5117—8—Per set complete $13.20

WE DO NOT BREAK SETS

PET-COCK WRENCHES

No. 7375—Pet cock wrench, wire handle 21 in. long, for use in opening oil cock to ascertain oil level without the necessity of crawling or reaching under the car, w't per doz. 4½ lbs., per dozen $1.90

WALDEN WRENCHES FOR FORD CARS

TEEFLEX WRENCHES

Universal joints and sockets have been used in combination with wrenches and are now complete in one solid tool, Will reach nuts otherwise inaccessible.

No. 1016G—Socket size, ½ in. hex. Length over all 13½ in. Will fit the following: Crank case, lower cover screw, Dash bracket to dash, bolt nut, Muffler rod nut, Steering tube flange, bolt nut, w't 1½ lbs., each $3.40

No. 1018G—Socket size, 9/16 in. hex. Length over all 13½ in. Will fit the following: Carbuetor flange, bolt and nut, Commutator case support bolt, Cylinder valve cover, stud nut, Inlet and exhaust clamp, stud nut, Universal ball cap, bolt and nut, Universal ball, cap, cap screw, w't 1½ lbs. .....each $3.40

No. 1020G—Socket size, ⅝ in. hex. Length over all, 13½ in. Will fit the following: Connecting rod cap nut, Cylinder head cap screw, Water cylinder-inlet connections, cap screw, w't 1½ lbs. .....each $3.40

FIVE IN A BOX

TEE HANDLE

No. 2718G—Tee Handle Wrench. Socket 9/16 in., handle 6 in., shank 12 in. Used on: Commutator case support bolt, Crank case and cylinder cover cap screw, Cylinder cover bolt and nut, Cylinder cover cap screw, Fan adjusting screw and nut, Magnet bolts, Radiator stud nut, Universal ball cap bolt and nut, w't each 1¼ lbs. .....each $0.80

No. 2720G—Tee Handle Wrench. Socket ½ in., handle 6 in., shank 12 in. Used on: Commutator case support bolt, (on cars with self-starter), Cylinder cover cap screw, (on cars with self-starter), Drive shaft roller bearing stud nut, w't each 1¼ lbs. .....each $0.80

FIVE IN A BOX

DOUBLE SOCKET OFFSET

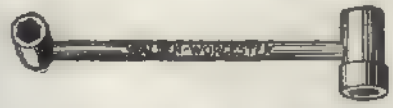
No. 1881G—Socket sizes, 9/16 in. hex. and 9/16 in. square. Length over all, 9 in. Will fit the following: Crank shaft, bolt and nut, Piston pin, locking screw, Running board, bolt nut, Running board to fender, bolt nut, w't 1½ lbs. .....each $1.50

FIVE IN A BOX

No. 2418G—Double Socket Offset Wrench. Length over all 9 in. Socket sizes 9/16 in. and ½ in. Will fit the following: Brake reverse support bolt and nut, Brake shoe support bolt, Clutch pedal support bolt and nut, Crank case arm bolt and nut (side), Crank case arm bolt and nut (top), Crankshaft bearing bolt nut, Crankshaft rear bearing bolt, Dash bracket to dash bolt and nut, Differential case stud and nut, Fan bracket bolt, Front fender iron bolt and nut (bottom), Front spring clip nut, Inlet and exhaust clamp stud nut, Spindle bolt nut, Steering post bracket bolt and nut, Steering Yoke clamp bolt and nut, Universal ball cap, bolt and nut, Universal ball cap screw, w't each 1 lb., each $1.05

FIVE IN A BOX

TRIPLE SOCKET OFFSET



No. 5660G—Triple Socket Offset Wrench. Socket sizes 15/16 in., ½ in. and 11/16 in. Length over all 10½ in. Handle particularly designed for heavy duty. Will fit the following: Body bracket bolt and nut, Front radius rod nut, Front spring perch nut, Front and rear spring hanger nut, Hub bolt and nut, Radius rod bolt and nut, Rear spring clip nut, Spindle bolt with oiler, Spindle connecting rod bolt with oiler, Spindle connecting rod bolt nut, w't each 1½ lbs. .....each $1.60

FIVE IN A BOX

Our reputation founded on over sixty-seven years' business stands back of the OHB brand.

All goods branded OHB are guaranteed to be of highest quality material and workmanship and free from imperfections.

In selling OHB articles there is a profit for you and satisfaction to your customers.

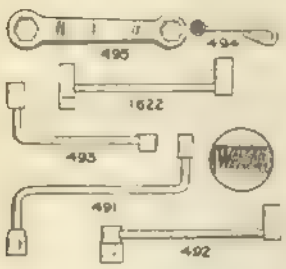
SHIPPING FACILITIES

With our immense stock and very modern facilities for shipments we are enabled to fill orders with unequaled promptness. On some of the roads we have special through cars which enable us to reach distant points 24 hours ahead of shipments made in the regular way.

WALDEN-WORCESTER WRENCHES

INDIVIDUAL CAR WRENCH SETS

FOR MAXWELL CAR



49 Set A complete set of wrenches covering the important nuts and bolts on Maxwell car. Socket wrenches are always time savers. **Each 4.55**

491 Socket sizes, 9/16" hex and 3/4" hex. Length over all 10 1/2". **Each .71**

492 Socket sizes, 11/16" hex and 15/16" hex. Length over all 10". **Each .99**

493 Socket sizes, 3/8" hex and 1 11/16" hex. Length over all 8 1/4". **Each .72**

494 Socket sizes, 1/2" hex. Length over all 8 1/4". **Each .44**

495 This is a flat (1/4" thick) box type socket wrench. Socket sizes, 1 1/4" hex and 1 1/2" hex. Length over all 10". **Each .82**

1622 Socket sizes, 1/2" hex, 3/4" hex and 9/16" square. Length over all 9". **Each .88**

FOR CHEVROLET CAR

39 Set These five wrenches cover the essential parts on Chevrolet cars, have been designed for real service and will be popular with both garage men and owners. **Each 4.75**

391 Socket sizes, 5/8" and 1/2" hex. Length over all 8". **Each .72**

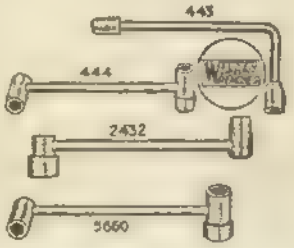
392 Socket sizes, 7/8" hex and 15/16" hex. Length over all 9 1/4". **Each .99**

393 Socket sizes, 15/16" hex, 1 1/16" hex, 29/32" hex and 3/4" hex. Length over all 10 1/2". **Each 1.65**

394 Socket sizes, 3/4" hex and 7/8" hex. Length over all 8" by 8". **Each .77**

395 Socket sizes, 1/2" hex and 9/16" hex. Length over all 4" by 4". **Each .66**

FOR BUICK CAR



44 Set These four wrenches have been designed to cover Buick Models and because of their efficiency in saving time and giving service they have been approved by Buick service men. **Each 3.80**

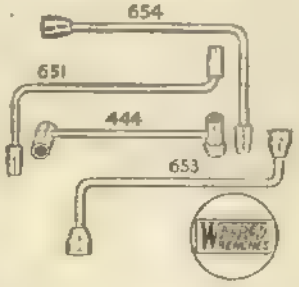
443 Socket sizes, 1/2" hex and 1/2" hex. Length over all, 9 1/16" by 4 1/2". **Each .72**

444 Socket sizes 1/2", 9/16" and 5/8" hex. Length over all 9". **Each .83**

2432 Socket sizes, 1" hex and 1/2" hex. Length over all, 11 1/4". **Each 1.05**

5660 Socket sizes 15/16", 7/8" and 1 5/16" hex. Length over all 10". **Each 1.20**

FOR DODGE CAR



65 Set These wrenches have been designed specially for use on Dodge Cars, and have been approved by Dodge service men.
A most efficient set of real service wrenches. **Each 3.00**

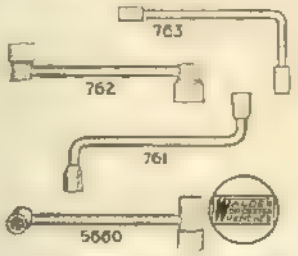
651 Socket sizes, 7/16" hex and 9/16" hex. Length over all, 10". **Each .71**

653 Socket sizes, 1/2" hex and 3/4" hex. Length over all 11". **Each .77**

654 Socket sizes, 1/2" hex and 15/16" hex. Length over all 10". **Each .72**

444 Socket sizes, 1/2" hex., 9/16" hex. and 5/8" hex. Length over all 9". **Each .83**

FOR OVERLAND CAR
MODEL NO. 4—76 SET



76 Set This particular selection of wrenches is necessary, for this new model and our No. 75 Set is right for all other Overland cars. **Each 3.85**

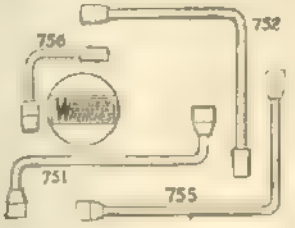
761 Socket sizes, 3/4" hex and 7/8" hex. Length over all 10 1/2". **Each .72**

762 Socket sizes 15/16" hex and 1 1/16" hex. Length over all 10 1/2". **Each 1.21**

763 Socket sizes 1/2" hex and 9/16" hex. Length over all 8 1/2" 4 3/4". **Each .72**

5660 Socket sizes 15/16" hex, 7/8" hex and 1 1/16" hex. Length over all 10 1/2". **Each 1.20**

OTHER MODELS—75 SET



75 Set **Each 2.80**

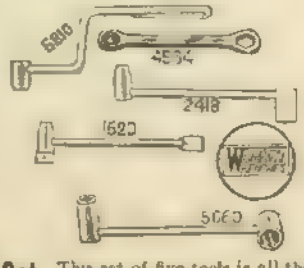
751 Socket sizes, 3/4" hex and 29/32" hex. Length over all 1 1/4". **Each .72**

752 Socket sizes, 9/16" hex and 11/16" hex. Length over all 5" by 5". **Each .72**

755 Socket sizes, 3/4" hex and 1" hex. Length over all 10" by 7". **Each .72**

756 Socket sizes, 1/2" hex and 7/16" hex. Length over all 4" by 4". **Each .66**

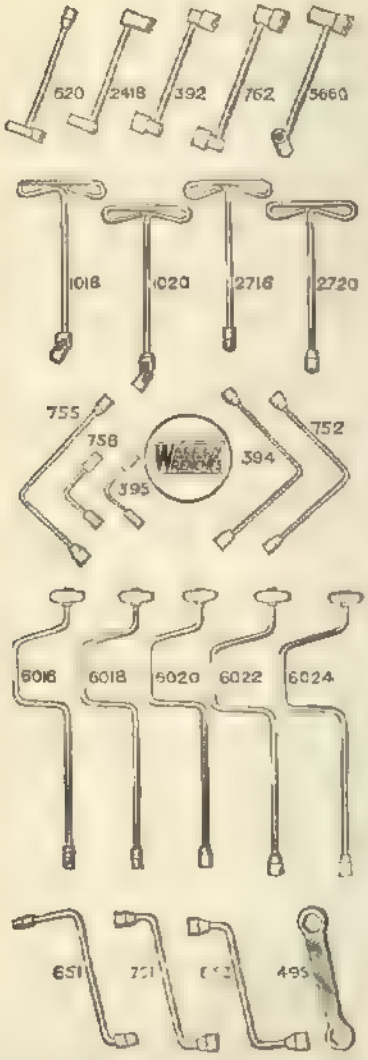
FOR FORD CAR



57 Set This set of five tools is all that is needed by the average Ford owner for repairing, and are fully illustrated and described on accompanying pages. **Each 4.55**

WALDEN - WORCESTER WRENCHES

No. 23 Garage Service Set



A selection of wrenches adapted for general service work on any motor car.

The No. 23 Set replaces our No. 30 Set which has been sold for several years. After careful study of garage service stations in all parts of the country this new selection is offered to the trade. In this new line-up only the most popular sizes of speed wrenches are included. Particular attention has been paid to the selection of L type and double-end offset wrenches which have been found most useful for general garage service work.

Two of the Tee Flex or universal joint wrenches so handy in reaching inaccessible nuts, bolts and cap screws complete the usefulness of this set.

PACKED IN PLAIN WOODEN CASE
20 1-2 x 7 x 6

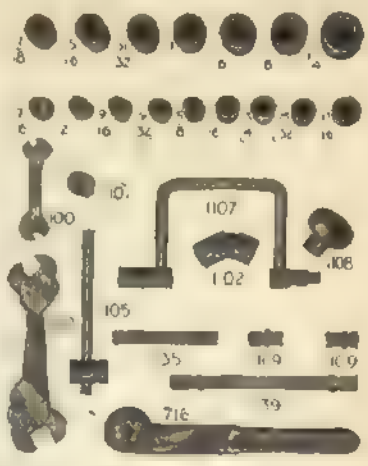
Each different wrench is fully illustrated and described elsewhere in this catalog. Garage owners will instantly recognize the utility of this assortment.

These 23 wrenches, some with two or three socket sizes, make possible 38 different combinations.

Offset wrenches	1
L-wrenches	10
Speed wrenches	5
Tee-handle wrenches	2
Tee-flex wrenches	2
Box type wrenches	2
Total	33

No. 23 Set. Wt. 34 lbs. Price $22.00

Walden-Worcester Combination Wrench Sets



This set is particularly adapted for use in service stations, garages and repair shops on all classes of automotive work. Contains the following:

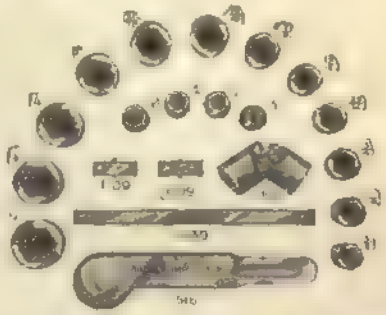
1 No. 716 12 in. ratchet wrench
1 No. 1135 5 in. extension bar
1 No. 1139 9 in. extension bar
1 No. 1105 combination tee and offset handle
1 No. 1102 universal joint
1 No. 1107 brace wrench
1 No. 1108 brace top
2 No. 1109 plug connectors
1 No. 1110 socket connector
5 open end wrenches and 16 hex. sockets, 1 each.

No.	Size	No.	Size
214	7/16	226	3/4
216	1/2	228	7/8
218	9/16	230	1 1/8
219	5/8	231	1 1/4
220	5/8	232	1
222	11/16	234	1 1/16
224	3/4	236	1 1/8
225	13/16	240	1 1/4

Contained in box, 15x10½x2⅛ in. Weight 19¼ lb.

No. 26 Set complete $19.00

Walden-Worcester Combination Wrench Sets



A very desirable and convenient set for general service where all sizes are not required. Contains one each following hex. sockets:

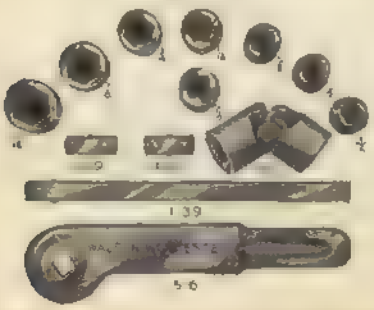
No.	Size	No.	Size	No.	Size
214	7/16	224	3/4	231	1 1/32
216	1/2	225	13/16	232	1
218	9/16	226	11/16	234	1 1/16
219	5/8	228	7/8	236	1 1/8
220	5/8	230	1 1/8	240	1 1/4
222	11/16				

1 No. 516 9 in. ratchet wrench
1 No. 1139 9 in. extension bar
1 No. 1102 universal joint

In 12x6¼x2⅝ in. wooden box. Weight 11 lbs.

No. 16 Set, complete $13.20

Walden-Worcester Combination Wrench Sets



This set selected particularly to meet the requirements of the Ford car. Contains one each following hex. sockets.

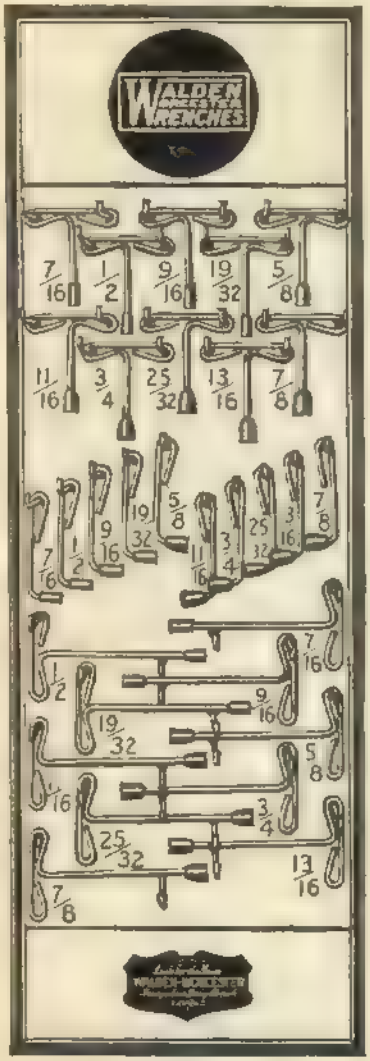
No.	Size	No.	Size
216	1/2	224	3/4
218	9/16	228	7/8
220	5/8	230	1 1/8
222	11/16		

1 No. 118 5/8 in. square socket
1 No. 516 9 in. ratchet wrench
1 No. 1139 9 in. extension bar
1 No. 1102 universal joint

In 10¼x4x2⅝ in. wooden box, weight 7 lbs.

No. 8 Set complete $9.90

Walden-Worcester Display and Stock Sets



Contains 150 wrenches, five wrenches of each size. Assortment contains three types with 10 sizes of wrenches to each type.

This board is a great salesman. Sizes of each wrench are plainly marked on the board and on the wrench.

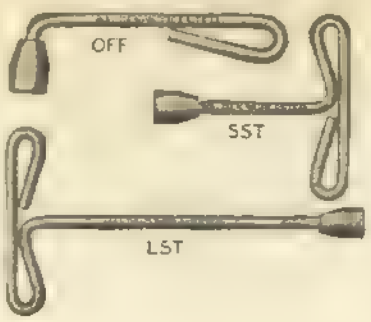
Every mechanic who uses wrenches has need for one or more of these tools.

The face of the board is covered with sheet metal which is handsomely lithographed in black and goldenrod; a fine setting for the finished wrenches.

Quantity	Each	Total
50 Offset wrenches	$0.50	$25.00
50 SS. tee wrenches	.55	27.50
50 LS. tee wrenches	.60	30.00
150 Wrenches		$82.50

Size of board.....6 ft. x 2 ft.
Net weight wrenches. ... .147 lb.
Shipping weight wrenches. 170 lb.
Weight board and hooks.. 60 lb.
No. 180 Set, complete $82.50

Walden-Worcester Tee and Offset Handle Socket Wrenches



Wire handle construction and machine turned sockets make it possible to produce an equally well made and serviceable tool at much less cost than usual drop forged wrenches. Sockets are steel, machine turned from solid bar and broached accurately to size. Wire handles are proper size and class of material to guarantee service. Sockets are so fastened to the wire they will not turn or loosen.

SIZE	OFF	SST	LST
7/16	2514	2614	2714
1/2	2516	2616	2716
9/16	2518	2618	2718
19/32	2519	2619	2719
5/8	2520	2620	2720
11/16	2522	2622	2722
3/4	2524	2624	2724
25/32	2525	2625	2725
13/16	2526	2626	2726
7/8	2528	2628	2728

Each

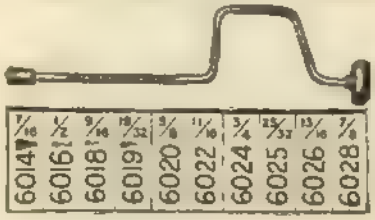
2500 Series Offset socket wrench, handle 7 in. long..... .....$0.50

2600 Series Handle wrench, short shank tee handle 6 in..... .55

2700 Series Long shank tee handle, 6 in. handle, shank 12 in..... .60

Ten in a Box

Walden-Worcester Speed Wrenches



No. 600 Set of 10 wrenches.....$8.80
No. 6014 to 6028 . ...each, .88

Ten in a Box

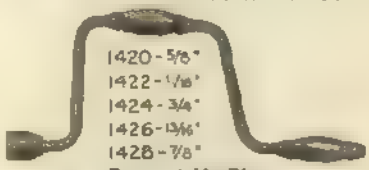
T-Handle Rim Wrenches

A T-handle rim wrench with a 10-inch handle and a 4⅝-inch shank.

This wrench has been furnished very extensively with rim equipments on new cars and has proven very satisfactory for this class of service. The quality of steel used in its construction is equal to that of the No. 1420 Brace Socket Rim Wrench, but by reason of the type of construction is much less expensive.

No. 1220 ⅝ in. hex. ... ..each, $0.55
No. 1222 ⅞ in. hex. .... each, .55
No. 1224 ¾ in. hex. .....each, .55

Brace Socket Rim Wrenches



Demountable Rims

No. 1420 ⅝ Kelsey, Ford, Jaxon, Simplicity.
No. 1422 ⅞ Firestone, Fisk, Dem., Goodrich, Gorman.
No. 1424 ¾ Baker, Continental, Detroit, Stanweld, Buick.
No. 1426 13/16 Stanweld, No. 2 Universal.
No. 1428 ⅞ Fisk, Goodyear.
Each $1.10

Proper wrenches for demountable rims on following cars.

Car	Use Wrench	Car	Use Wrench
Buick	1424 or 1224	Maxwell (new)	1424 or 1224
Cadillac	1420 or 1220	Maxwell (old)	1420 or 1220
Chalmers	1420 or 1220	Mitchell	1424 or 1224
Chandler	1422 or 1222	Nash (6)	1422 or 1222
Chevrolet	1424 or 1224	Oakland	1424 or 1224
Cleveland	1422 or 1222	Oldsmobile	1424 or 1224
Cole	1422 or 1222	Overland (4)	1424 or 1224
Dodge	1424 or 1224	Paige	1420 or 1220
Dort	1424 or 1224	Peerless	1422 or 1222
Essex	1420 or 1220	Reo	1422 or 1222
Ford	1420 or 1220	Scripps-B.	1420 or 1220
Hudson	1420 or 1220	Studebaker	1420 or 1220
Hupmobile	1420 or 1220	Willys-K.	1424 or 1224
Liberty	1422 or 1222		

The 1428 is used on many of the truck giant pneumatics.

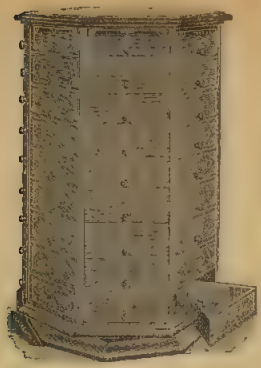
Ten in a Box

Utility Universal Rim Wrenches

Made in one size, yet it fits every nut on every demountable rim. Finished in nickel and black enamel. A whole set of wrenches in one.

Utility Universal Rim Wrench..ea, $1.75

REVOLVING CASES



Nos. 1 to 4

Double cross-grained wood top and bottom; heavy iron standard screwed into an iron hub in the bottom; drawers well made of poplar and Norway pine. Cases will revolve perfectly with the heaviest load

SCREW CASES

Poplar, cherry stained; drawers labeled

NO.	Drawers	Height	Width	WEIGHT	EACH
*1	72	33 in	21 in	125 lb	$33 00
*2	80	36 in.	21 in.	125 lb	37 50
*3	88	39 in.	24 in.	130 lb.	42 00
*4	96	42 in.	24 in.	135 lb	46.00

HARDWARE CASES

Poplar, cherry stained.

Blank drawers, with label holders and knobs

NO	Drawers	Height	Width	Weight	EACH
*10	72	33 in.	21 in.	125 lb.	$37 50
*12	80	36 in.	21 in.	125 lb	40 50
*14	88	39 in.	24 in.	130 lb.	44.25
*16	96	42 in.	24 in.	135 lb.	49 00

Nos. 10 to 16

List of Sizes, No. 1B Case

Tire Bolts

3-16 x 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾ and 3
1-4 x 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾ and 3

Carriage Bolts

1-4 x 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5
5-16 x 1¾, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5, 5¼, 5½, 6.
3-8 x 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 6, 6.
7-16 x 2, 2¼, 3, 3¼, 4, 4½, 5, 5½, 6, 6½, 7, 8, 9, 10.
1-2 x 2, 2¼, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 8, 9, 10, 11, 12

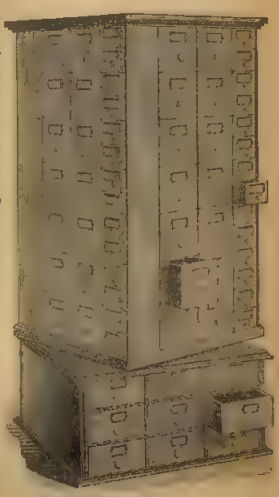
No 2B Case contains all of above sizes and following sizes in addition
7-16 x 7½, 8½, 9½.
1-2 x 7½, 8½, 9½.

Numbers on bolt or screw cases can be changed to suit purchaser on special order without extra charge

BOLT CASES

Inside Measurements of Drawers

Case No. 50		Case No. 52	
12	2¼x3¾x4½"	14	2¼x3¾x4½"
36	2¼x3¾x5¼"	42	2¼x3¾x5¼"
12	5½x5½x4½"	14	5½x5½x4½"
12	5½x6 x5¼"	14	5½x6 x9 "
6	5¼x6 x9 "	7	5¼x6 x9 "
6	5¼x5¼x10¾"	7	5¼x5¼x10¾"
6	5¼x6 x10 "	7	5¼x6 x10 "
6	5¼x5 x13¾"	7	5¼x5 x13¾"
	BASE		BASE
6	3⅝x7⅛x13¾"	6	3⅝x7⅛x13¾"
8	3⅝x7⅛x10½"	8	3⅝x7⅛x10½"
4	3⅝x7⅛x11¼"	4	3⅝x7⅛x11¼"



COMBINATION CASE

Poplar wood, cherry stained. Hexagon shape, triangular drawers, labeled with bolt sizes, on base.

NO	Drawers	Height	Width	EACH
*1B	98	60 in.	30 in.	$65 30
*2B	104	65 in.	30 in.	71.30

Poplar wood, cherry stained. Square box drawers, top section revolves on base, fitted with label holders and knobs.

NO.	Drawers	Size	Height	EACH
*50	114	28½x28½ in.	57½ in.	$87 00
*52	130	28¼x28½ in.	63½ in	93.00

* Not carried in stock; shipped direct from factory.

Telephone No. 56 MORLEY
Telegraphic Address: "LAMPS, MORLEY"

ACKROYD & BEST, LD.,

MORLEY, near LEEDS, England.

Codes used
A.B.C. (5th EDITION), WESTERN UNION,
LIEBER'S, PRIVATE AND MARCONI.

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SAFETY LAMPS FOR MINES.

Approved by British, French, American, and other Governments.

SIMPLE, STRONG, & EFFECTIVE.

Burns cheap, easily procurable Oil, Benzene, Petrol or Naphtha. Gives good light at low cost, economical in upkeep and cannot be tampered with. Will withstand great velocities of explosive mixture.

Fitted with strong spring-acting lock to be opened by either a permanent magnet or electro magnet, or may be fitted with lead locking arrangement. Very simple and easy of manipulation.

Benzene lamps fitted with very effective arrangement for changing cotton wool in vessel.

Strongly built for rough usage, and when extinguished can be safely and certainly relighted underground in our special explosion-proof relighting machines which prevent explosions such as may happen with other lamps having internal igniters.

No igniter tapes or amorces bands to buy.

Our system of relighting lamps underground in Hailwood's special explosion-proof machine does away with the necessity for matches and the risks of fire in the lamphouse when cleaning and refilling lamps and handling of matchboxes.

The simplest, safest, and cheapest system known.

LAMPES DE SÛRETÉ POUR MINEURS

Absolument sûres, solides et simples. Brevetées, Demandées etc
Construction simple, robuste et efficaces.
Emploient les Huiles de bon marché et faciles à se procurer " Benzole, Pétrole ou Naphte.
La lumière est excellente et peu couteuse ; l'entretien de ces Lampes est très économique, elles ne se dérangent jamais
[illegible] admirablement bien aux mélanges explosifs, quelle que soit la rapidité de leur vitesse.
[illegible]
Les Lampes à Benzole sont munies d'un dispositif très commode pour changer le Coton dans les Réservoirs.
Toutes ces Lampes sont d'une construction très robuste, et si par hasard elles s'éteignent on peut les rallumer avec toute sureté dans les Mines au moyen de nos Appareils d'Allumage, lesquels empêchent les explosions, qui malheureusement arrivent trop souvent quand on se sert de lampes avec allumeurs intérieurs.
En employant nos Appareils on n'a pas besoin de bandes d'amorces, ce qui réalise un grande économie
Notre système de rallumage de lampes dans les souterrains, au moyen de notre appareil spécial "Hailwood" à l'épreuve des explosions, evite l'emploi des allumettes et les risques d'incendie dans les lampisteries lors du nettoyage et remplissage des lampes et la manipulation [illegible]
[illegible] le plus simple, le plus sûr et le meilleur marché

LÁMPARAS DE SEGURIDAD PARA MINAS

Aprobadas por los Gobiernos Inglés, Francés, Americano y otros.
Sencilla, Fuerte y Efectiva
Costo muy acorde barato y fácil de conseguir, Bencina, Gasolina ó Nafta
Dan buena luz á poco costo, son económicas en mantención, y no están sujetos á sufrir desarreglos [illegible]
[illegible] equipadas de un Dispositivo de cierre de gran [illegible]
Lámparas a Bencina equipadas de Dispositivo [illegible] su vasito. De construcción [illegible] especie [illegible] aparatos especiales [illegible] puedan ocurrir cuando [illegible]
[illegible] Mecánico [illegible] colores
[illegible] aparatos especiales [illegible] y evita los peligros de [illegible] Entre las operaciones [illegible] y [illegible]
[illegible]

ACKROYD & BEST, LD.,

MORLEY, Near LEEDS, England.

Telephone No. [illegible] 86 MORLEY 184 | Telegraphic Address [illegible] LAMPS, MORLEY" | Codes used [illegible] A.B.C. (5th EDITION), LIEBER'S, PRIVATE & MARCON, WESTERN U.N.ON

HAILWOOD'S FAMOUS COMBUSTION TUBE OIL SAFETY LAMP.

Approved by British, French, American and other Governments.

Electrically Ignited and Magnetically unlocked.

Simple, strong, extremely safe, and of light weight.

Will stand considerable rough usage, and may be tilted without being extinguished, and is not readily smoked up.

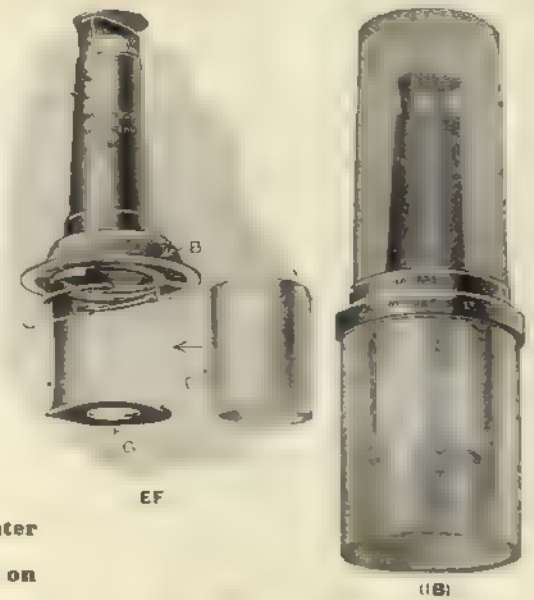
Gives a beautifully clear white soft light of from 2 to 3 times greater candle-power than any other flame safety lamp on the market.

100,000 of these lamps put into use since its first appearance on the market only a few years ago.

Fitted with an extra-strong magnetic lock and with special oil-filling valve for rapidly replenishing with oil.

This lamp possesses the highest degree of safety and gives the greatest illumination, and is arranged for ease and convenience in handling.

We make all kinds of Miners' Safety Lamps to burn oil or benzene, and acetylene lamps for mines and quarries, and spare parts for all makes of Lamps.



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LAMPE DE SÛRLTÉ À HUILE, AVEC TUBE DE COMBUSTION, DE LA CÉLÈBRE MARQUE "HAILWOOD."

Approuvées par les Gouvernements Britannique, Français, Américain, etc
Allumage électrique ; Ouverture magnétique
Simple, forte, sûre et légère
Cette Lampe ne craint point l'usage même assez rude ; on peut l'incliner sans l'éteindre et elle ne s'encrasse pas facilement
Sa Lumière est blanche et très agréable à la vue, et sa puissance en bougies est de 2 ou 3 fois supérieure à celle de n'importe quelle autre lampe à flamme
100 000 de ces Lampes sont en usage depuis leur invention, il n'y a que peu d'années
Elles sont munies d'un dispositif de fermeture magnétique bien fort et d'une soupape spéciale pour les garnir rapidement d'huile
Cette Lampe possède le plus haut degré de sûreté et donne la meilleure lumière possible en même temps on peut la manier avec la plus grande facilité sous tous égards.
Nous fabriquons toute sorte de Lampes de Sûreté pour Mineurs, sont à Huile ou à benzine et également des Lampes à Acétylène pour Mines et Carrières, ainsi que des pièces de rechange pour lampes de toutes marques

LÁMPARA DE SEGURIDAD DE ACEITE, CON TUBO DE COMBUSTION, DE LA FAMOSA MARCA "HAILWOOD"

Aprobada por los Gobiernos Inglés, Francés, Americano y Otros
Con Ignición por Electricidad y Dispositivo de Abertura Magnético.
Simple, Resistente, Extremadamente Segura y Ligera
Resistirá una manipulación dura considerable, pudiendo inclinarse sin que se apague, y no se ahuma fácilmente.
Proporciona una luz hermosa, clara y fija, siendo su potencia en bujías, de 2 á 3 veces mayor que cualquier otra lámpara de seguridad á llama en el mercado.
100,000 de estas Lámparas están en servicio desde su aparición en el mercado, hace unos pocos años solamente
Equipadas de Cierre magnético extra-fuerte y provistas de válvula especial de alimentación de aceite, para rellenarla rápidamente de este combustible
Esta Lámpara posee el mayor grado de seguridad y proporciona iluminación brillantísima. Construida para su fácil y conveniente manejo
Construimos toda clase de Lámparas de Seguridad para mineros, para emplear como combustible aceite ó bencina y Lámparas de acetileno para minas y canteras; así como piezas de repuesto para toda clase de Lámparas de cualquier construcción

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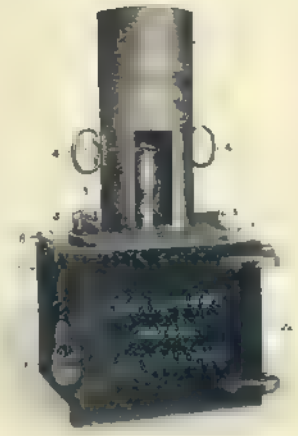
Telephone No.
86 MORLEY
Telegraphic Address "LAMPS, MORLEY."

ACKROYD & BEST, LD.,
MORLEY, near LEEDS, England.

Codes used
A.B.C. (5th EDITION)
LIEBER'S PRIVATE AND
MARCONI WESTERN UNION.

Hailwood's Patent Underground Relighting Machine for Miners' Oil and Benzene Lamps.



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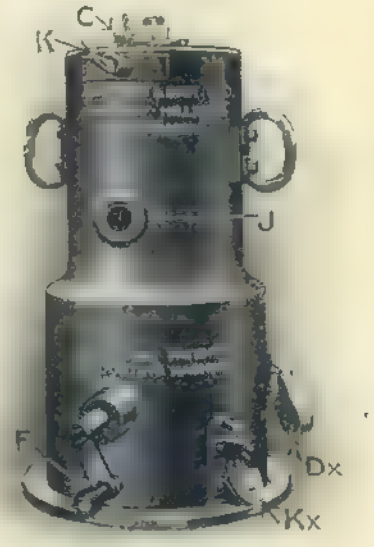

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Ensures safe relighting of lamps in the mine as lamp must be completely enclosed in the special flame-proof chamber before current can be generated and lamp be ignited.

Exceedingly strong, simple, compact, and absolutely safe.

Impossible to ignite a dangerously defective lamp in the machine whilst in an explosive atmosphere and so prevents explosions such as may happen with lamps having internal igniters, also saves cost of igniter tapes or amorces bands.

All joints revolvable or threaded and not likely to get out of order.

Fitted with accumulators or powerful magneto dynamo which will last years without any addition except for an occasional drop of oil.

This system does away with all the trouble and cost of amorces strips for internal igniter lamps and avoids risk of burning down of lamproom during manipulation.

We also supply our special underground relighting machines with electrical accumulators and induction coil which give a good strong spark.

The simplest, safest, and cheapest system known.

APPAREIL DE RALLUMAGE DANS LES MINES DES LAMPES DE MINEURS À HUILE ET À BENZOLE. SYSTÈME "HAILWOOD" BREVETÉ

APARATO DE ALUMBRADO EN SUBTERRANEOS (PRIVILEGIO DE HAILWOOD), PARA RE-ENCENDER LAMPARAS DE MINEROS A BENCINA Y ACEITE

(SA)

ACKROYD & BEST, LD.,

MORLEY, near LEEDS, England.

Telephone No. / *Téléphone* / Teléfono: 56 MORLEY. 184 "

Telegraphic Address / *Télégrammes* / Telegramas: "LAMPS, MORLEY."

Codes Used / *Codes* / Códigos: A.B.C. (5th EDITION) LIEBER'S PRIVATE & MARCONI WESTERN UNION

Magneto Dynamo Machine for lighting miners' safety lamps in lamphouse.
Simple, strong, and upkeep costs practically nil.
Lamps lit in a moment when called for by men instead of being lit by torch hours before, and lamps are therefore given out perfectly clean.
Saves cost of igniter match ribbons or amorces bands.
These machines are also made fitted with accumulators and induction coil in place of the magneto and give a good strong spark.
Simple, and strongly constructed.

(PE)

Powerful magnetic unlocking machines for quickly and easily unlocking lamps in lamphouse.
Exceedingly rapid, and strongly built.
Lamp oilfilling machines; the quickest on the market.
Refills lamp without removing burner; extremely simple and rapid.

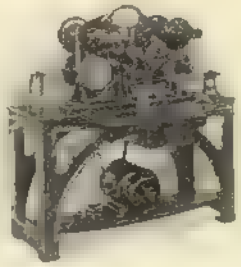
Iron lampstands or racks with enamelled iron number plates. Compact, neat and clean.

(TI)

Rapid Lamp cleaning Machines for quick handling and cleaning of Lamps; may be fitted with either steam engine or electric motor.
Will clean over 100 lamps per hour and reduces cleaners' wages to a minimum.
Compact, strong, and simple, with brush spindles driven by friction ensuring silent and smooth running.

Hallwood's Patent Gauze Brushes with renewable end and reversible body.
Simplest and cheapest on the market.
All kinds of lamp cleaning and other brushes made.

Actual Makers of high quality heat resisting glasses for miners' safety lamps and laboratory glassware.
All kinds and sizes of glasses or globes supplied on receipt of dimensions.



LJ

Dynamo à Magnéto pour l'Allumage des Lampes de sûreté de Mineurs dans les Salles à Lampes

Système simple et robuste, frais d'entretien presque nuls.

La Lampe s'allume instantanément au moment même où on en a besoin ce qui est bien différent [illegible] qu'il faut allumer des quantités de lampes des heures à l'avance, [illegible] en assurant en même temps un état parfait de propreté.

Cet appareil économise les frais d'achat de mèches d'amorces, et

Nous fournissons également ces Appareils munis d'Accumulateurs et de Bobines d'Induction, au lieu de magnéto, l'étincelle produite remplit parfaitement son rôle.

Construction en fonte, très simple et très robuste

[illegible] pour l'ouverture rapide et facile des Lampes dans les [illegible]

[illegible] en fonte de fer et ouverture rapide

[illegible] pour remplir les lampes, [illegible] type le plus rapide

Au moyen de ces Appareils on remplit facilement et rapidement les Lampes sans enlever le bec.

Rayons et Etagères en Fer pour Lampes, pourvus de Plaques numérotées en Fer-Blanc [illegible] à espace et propreté parfaite

Appareil pour le N[illegible] manière rapide, à commande par [illegible] [illegible] Lampes à l'heure, réduisant [illegible] notablement la main-d'œuvre.

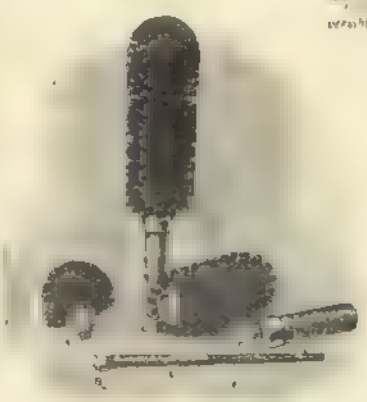
[illegible] capacité, robuste et simple, avec fuseaux à brosse, actionnés à friction [illegible] marche silencieuse et douce.

[illegible] Gaze Marque "Hallwood" brevetés, avec bouts interchangeables et corps réversible. C'est le type le plus simple et le meilleur marché que l'on puisse trouver.

Nous fabriquons également toute sorte de Brosses pour le nettoyage des Lampes et pour d'autres [illegible]

Nous fabriquons aussi Verres résistantes à la chaleur de première qualité pour Lampes de Sûreté de mineurs et d'autres Articles en Verrerie réfractaire pour Laboratoires.

Au reçu des détails nous fabriquons également toutes sorte de Verres et de Globes de toutes grandeurs



(ZO)

Maquina Dinamo à Magneto para Encender Lámparas de Seguridad de Mineros en el Almacén de lámparas.

[illegible] fuerte y casi sin gastos de mantenimiento.

Se encienden las Lámparas en un momento cuando se necesiten, por los hombres en vez de hacerlo por encendedores con muchas horas de anticipación antes de emplearse, por cuya razón las lámparas se distribuyen perfectamente limpias.

Ahorra los gastos de mechas y cebos encendedores.

Estas máquinas también se construyen equipadas con acumuladores y bobinas de inducción, en lugar del magneto, y producen una chispa buena y duradera.

[illegible] de y de Construcción Sólida de Hierro Fundido.

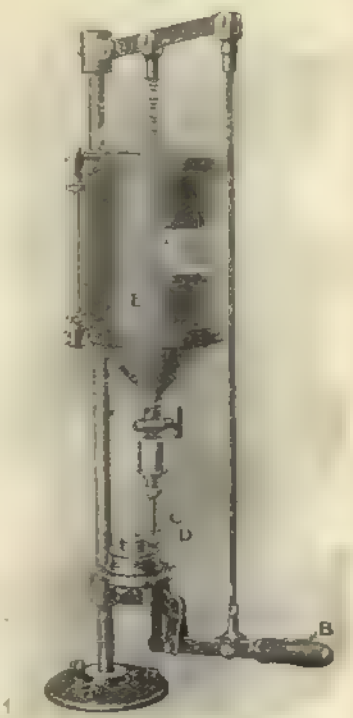
Aparatos con potente dispositivo de abertura magnética, para abrir las Lámparas fácil y rápidamente en los almacenes.

Muy rápidos y fuertemente construidos de hierro fundido de [illegible] para Lámparas, los más rápidos [illegible].

[illegible] Lámpara sin necesidad de quitar el mechero.

Extremadamente rapido y sencillo.

(NY)



(AC)

Rejillas de Hierro para Lamparas con placas numeradas de hierro esmaltado. Compactas, elegantes y limpias.

Aparatos para limpiar las Lámparas, de [illegible] limpiamiento rapidos; pueden equiparse con Motores [illegible]

Limpiaran más de 100 Lamparas por hora [illegible] en consecuencia los jornales de los limpiadores [illegible] ahorrando [illegible] ertes y sencillos de [illegible] por [illegible] rápido de esta [illegible] y [illegible]

Las Escobillas de Gasa, patente "Hallwood," con extremo renovable y cuerpo reversib

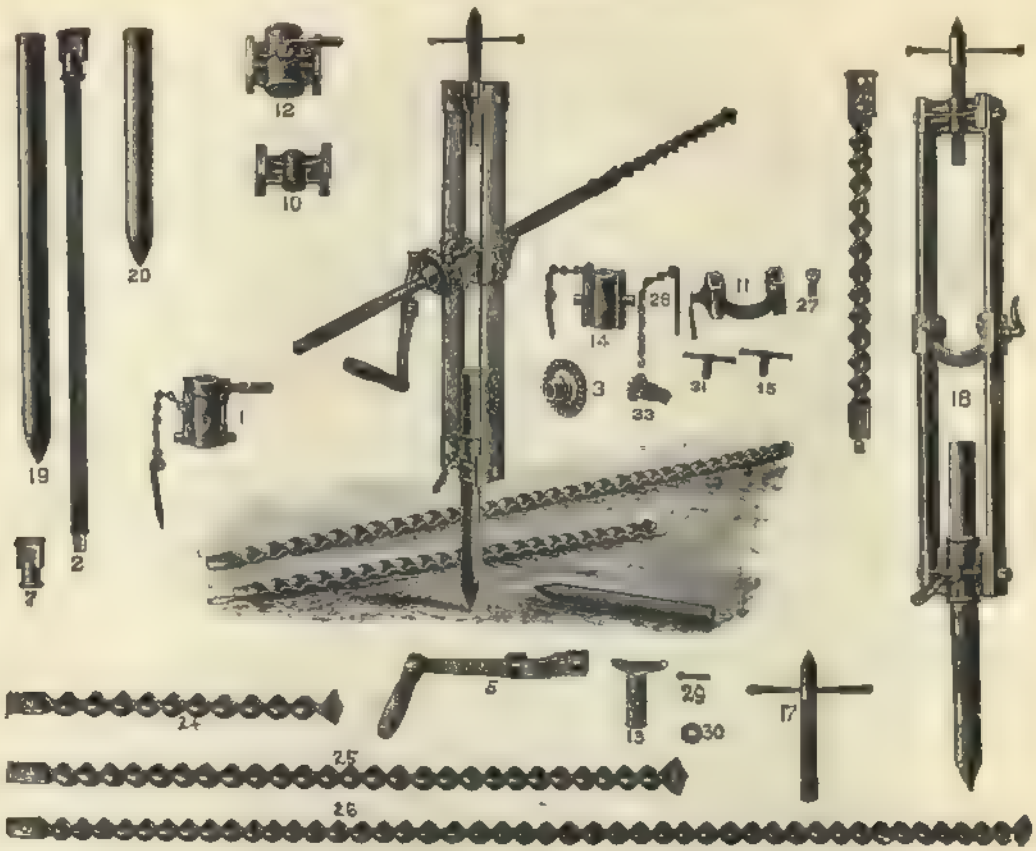
Las más simples y baratas en el mercado

Se fabrican toda clase de Escobillas para cualquier modelo de [illegible]

[illegible] cristales resistentes al calor de primera clase para Lamparas de Seguridad de Mineros y también de toda clase de cristaleria para Laboratorios.

Proveemos toda clase y [illegible] tes y globos, al recibo de pedido con las dimensiones

ALTON POST COAL DRILLS



Alton Post Drill. Complete, with side and end gears and three augers. One each 2, 4 and 6 feet long. Weight each, complete, about 85 lb. . . . . each, **$38.00**

Alton Post Drill. Complete with end gear only and three augers. One each 2, 4 and 6 feet long. Weight each, complete about 83 lb. . . . . each, **35.00**

EXTRA PARTS FOR ALTON POST COAL DRILLS

No.	Name of Part	Weight, Lb.	Each
1	Thread box	2¼	$3.30
2	Thread bar	9	5.50
3	Large bevel wheel	2	1.20
5	Crank	2½	2.00
7	Auger socket	1	.50
9	Auger extension	4	1.90
10	Top post jack screw casting	2	2.40
11	Post slide, complete	3	2.50
12	Lower post end casting, complete	4	2.40
13	Sleeve for breast drill	1½	.80
14	End gear thread box (alloy)	3	1.80
15	Small jack screw for No. 11	¾	.30
17	Post jack screw	2¼	1.50
18	Post, complete	35	$9.24
19	Post pipe, long	5 ¾	2.00
20	Post pipe, short	3	1.20
24	Short auger, 2 feet long	5	1.80
25	Medium auger, 4 feet long	10	3.60
26	Long auger, 6 feet long	15	5.40
27	Set screw for Nos. 10 and 12	⅛	.20
28	Steel pin and chain for thread box	⅛	.50
29	Spring key for crank	⅛	.10
30	Steel washer for crank pinion	⅛	.10
31	Tail screw for No. 12	¼	.40
33	Small bevel wheel—long hub	1	.90

When ordering parts, please give both number and name

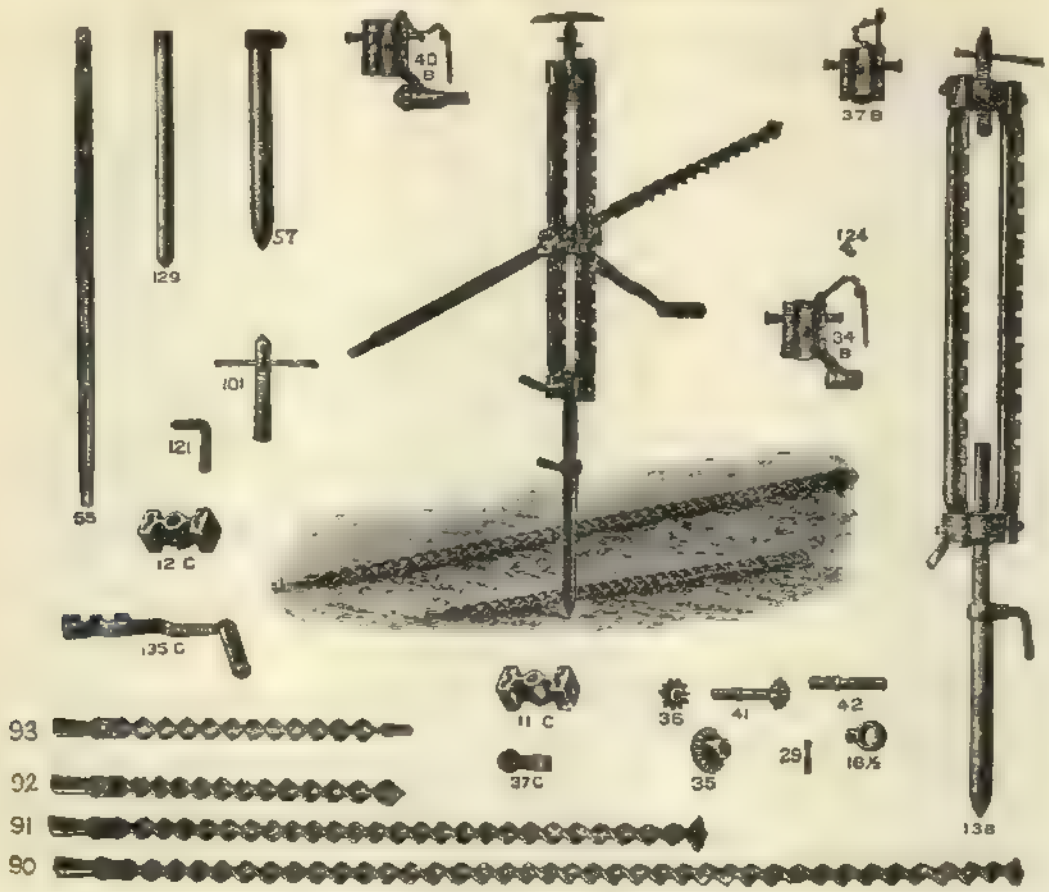
When Ordering Drills, Always Specify the Length of the Post Desired

SLATE OR ROCK AUGERS

To Fit Alton Post Drills

Length, feet	2	4	6
Weight each, lb	5	10	15
Each	$4.00	8.00	12.00

"QY" NOTCHED POST COAL DRILLS



BEAL'S "QY" POST DRILLS

Complete with side and end gear One each 2, 4 and 6 foot augers Weight 70 lb . . . . . each, $38.00
Complete with end gear only. One each 2, 4 and 6 foot augers. Weight 68 lb. . . . . each, 35.00
Can be furnished with No. 131C box and No. 134C gear in place of No. 40 and No. 37 if desired.

FULTON "QY" POST DRILLS

Complete with 2, 4 and 6 ft. augers, 18 inch post. Weight 60 lb . . . . . each, $26.00
Complete with 2, 4 and 6 ft. augers, 24 inch post. Weight 65 lb . . . . . each, 26.50
Complete with 2, 4 and 6 ft augers, 30 inch post. We got 70 lb . . . . . each, 27.00
Complete with 2, 4 and 6 ft. augers, 36 inch post. Weight 75 lb . . . . . each, 27.50

EXTRA PARTS TO FIT BEAL'S "QY" POST DRILLS AND FULTON "QY" POST DRILLS

Nos.	Name of Part	Weight, Lb.	Each
11C	Casting for post (jack screw No. 101 fits in)	4	$2.40
12C	Casting for post (No. 129 fits in)	4½	2.40
16½	Ring for 1¼ inch boot	¾	.30
29	Small spring key or shaft	⅛	.10
34	Thread box (all of metal)	3½	3.30
35	Large gear wheel	1	1.20
36	Small gear wheel	¾	.90
37	End gear thread box	2¾	1.80
37C	Square socket for augers	1	.50
40	Thread box, complete with No. 42 shaft and No. 36 small pinion	4½	5.00
41	Thread box shaft, with No. 36 small pinion, complete	⅜	2.20
42	Thread box shaft	¾	1.10

Nos.	Name of Part	Weight, Lb.	Each
55	Thread bar	9	$0.55
57	Small boot, 1¼ inch in diameter	3	1.60
90	Long or 6 foot auger	15	3.40
91	Medium or 4 foot auger	10	3.60
92	Short or 2 foot auger	5	1.80
93	Auger extension, 2 feet long	5	1.90
101	Jack screw	2¼	1.20
121	Tail set screw	⅛	.40
124	Set screw for No. 11C and 12C	⅛	.20
129	Small size stem that fits in No. 57	7½	1.30
135C	Crank	2½	2.00
138	Post, complete, as shown in cut	35	9.24
131C	End gear thread box	4	2.00
254	Ratchet crank	2¾	5.00

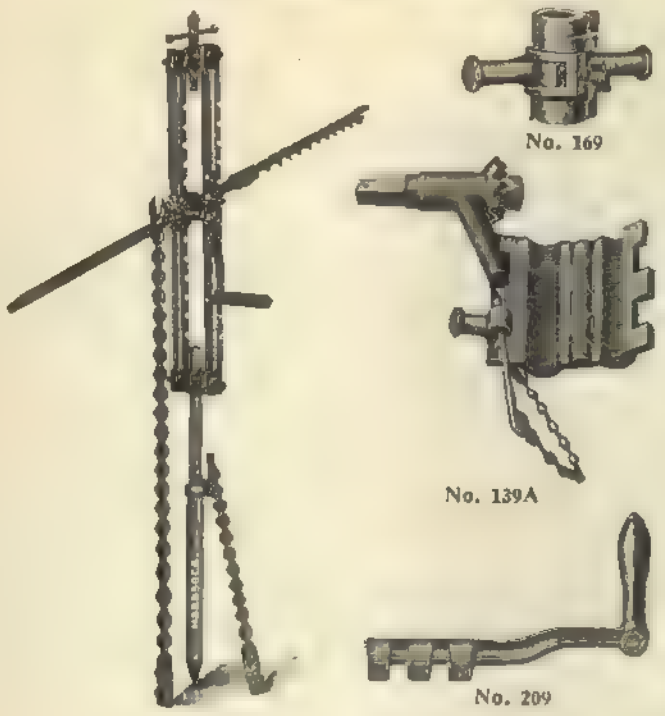
When ordering parts, please give both number and name

SLATE OR ROCK AUGERS

To Fit Beal's "QY" or Fulton "QY" Post Drills

Length, feet	2	4	6
Weight each, lb	5	10	15
Each	$4.00	8.00	12.00

POST COAL DRILLS



HARDSOCG "A" STEEL

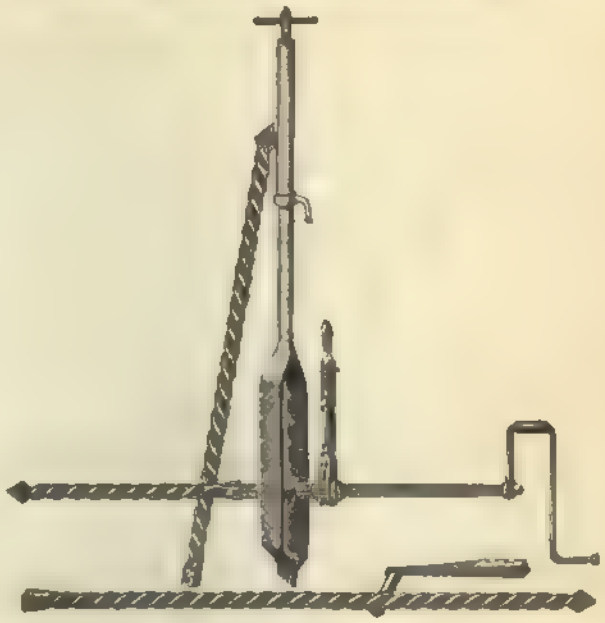
End or Side Gear

"A" Post Drill. End gear, with one each 2, 4 and 6 foot augers. Weight 76 lb.....each, $24.00

EXTRA PARTS FOR "A" POST DRILLS

No	Name of Part	Each
169	New end gear box	$1.60
221	Small cog	.90
220	Large cog	1.20
222	New spiral auger socket	.80
225	High carbon steel thread bar end gear; no slot	3.40
178	Same; slotted side gear	4.00
176	2 foot auger	1.60
177	4-foot auger	3.20
177½	6-foot auger	4.80
192	2-foot auger extension	1.80
209	New frictionless crank	1.30
136A	Side gear boxing	2.50
139A	Gear complete, less No. 220 large cog	3.80
	Post complete	7.80

ROCK DRILLING MACHINES



HARDSOCG'S RATCHET

Specially designed to drill rock, fire clay and other hard substances. Very efficient, strong and durable.

Illustration shows rock machines complete, with 2, 4 and 6 foot 1¼ x ½ square edge rock augers. Single and double cranks and ratchet.

Rock Machine. Complete with one each 2, 4 and 6 foot augers. Weight each about 40 lb.....each, $49.00

Price above includes single and double cranks and ratchet

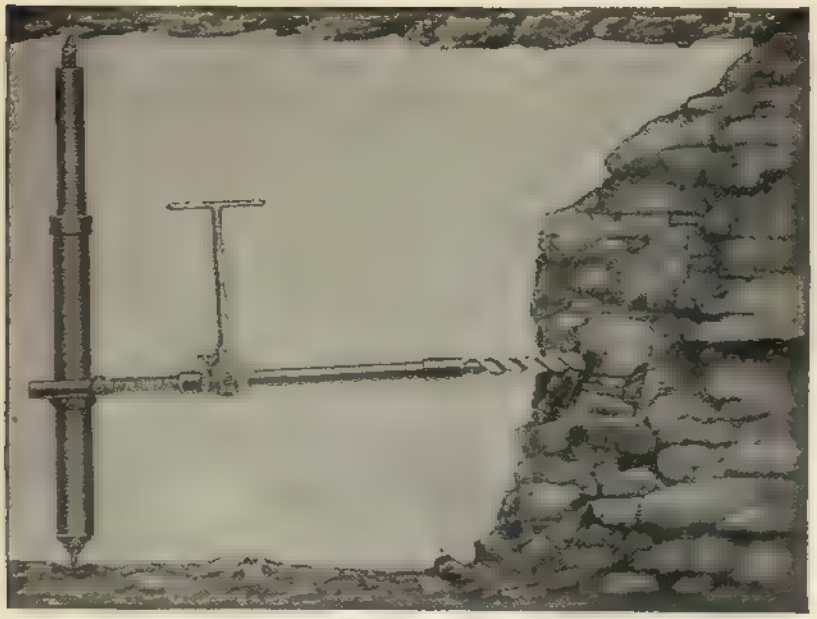
EXTRA PARTS FOR ROCK DRILLING MACHINE

No.	Name of Part	Each
	2-foot rock augers, 1¼ x ½, square edge	$3.20
	4-foot rock augers, 1¼ x ½, square edge	6.40
	6-foot rock augers, 1¼ x ½, square edge	9.60
55	Thread bar, single slot; 8, 10, 12 or 14 threads per inch	4.30
56	Thread bar, double slot; 8, 10, 12 or 14 threads per inch	5.00
37B	Boxing	1.80
254	Ratchet	4.30
255	Double crank	2.80
135C	Single crank	1.50
101	Jack screw	1.00
17	Ring for boot	.30
	Cog for ratchet	.90
	Pawl for ratchet	.30
	Spring for ratchet	.30
	Boot complete, 2 feet long	4.00
	Boot complete, 2½ feet long	4.50
	Boot complete, 3 feet long	5.00

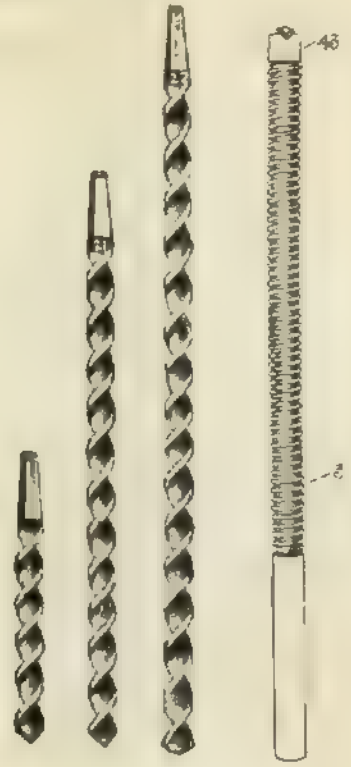
Above machine made with posts adjustable from 5 to 7 feet.

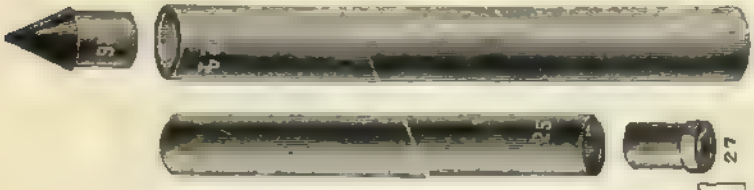
When ordering, give height of adjustable post desired, number of threads per inch on thread bar and length of augers wanted.

NIXON RATCHET MINING DRILLS AND PARTS



As appears when set up in a low entry





NIXON No. 1 RATCHET MINING DRILLS

For Boring Coal, Iron Ore, Slate, Stone, Etc.

One drill complete with set of three bits, one each, 18 inches, 36 inches and 54 inches. . . . **$70.00**

One man can handle and work this drill and in any close place he can go. The ratchets have 8 in. differentials in post set up. The post is extensible to double its shortest length.

EXTRA PARTS TO FIT NIXON'S MINING DRILLS

No.	Name of Part	Each
2	Wrench (not shown)	$ 0.60
5	Socket screws on barrel to receive bit	2.70
9	Steel feed nut, extra long bearing	6.50
10	Main screw or screw bar	13.50
12	Pawl in handle	.60
13	Bolt in handle, through spring and pawl	.60
14	Spring for pawls (2)	.60
20	18 in. bit	3.00
21	36 in. bit	5.50
22	54 in. bit	6.50
23	Feed ring set screw, for regulating speed	.60
24	Main stem gas pipe	5.50
25	Inside stem gas pipe	4.20
26	Main stem point	$ 1.30
27	Inside stem socket nut, large size	2.70
28	Inside stem socket screw, 1½ in. steel	2.70
29	Regulating ring and set screw	1.30
30	Brace ring and set screw	1.30
33	Lever or handle, improved pattern	9.00
34	Feed ring, improved pattern	6.50
35	Feed ring pawl	.60
37	Dog, connecting drill shank and support	2.00
38	Main ratchet, screws on barrel	6.50
43	Chilled ferrule, protects threads on main screw	1.30
50	Barrel and socket (No. 5) in one piece	9.00

Supports, 5 feet or under, each. **$13.50** Supports longer than 5 feet will cost **$2.70** for each additional foot

AMERICAN NATIONAL VELOCIPEDES

Built extra strong and reinforced in parts under greatest strain; stand rough usage and will give both satisfaction and long service; handsomely finished in attractive colors.

HALF OVAL STEEL FRAME

Frame, heavy wide half oval steel, cranks and handle bar one piece stamped steel bends and pedals red enameled wheels, frame and fork black enameled, stationary handle bars, cherry stained grips fibre saddle, adjustable double coil springs.

STEEL TIRE WHEELS

No.	Front Wheel	Rear Wheels	Pack Crate	Each
T6978—14 in.	9 in.	3		1.66
Less than crate lots				1.60
T6979—16 in.	12 in.	3		1.98
Less than crate lots				2.13
T6980—20 in.	14 in.	3		2.25
Less than crate lots				2.50
T6981—24 in.	16 in.	3		2.65
Less than crate lots				2.90

RUBBER TIRE WHEELS

½ in Front; ⅜ in Rear

No.	Front Wheel	Rear Wheels	Pack Crate	Each
T6987	14 in. 9 in.	3		2.35
Less than crate lots				2 60
T6988—16 in.	12 in.	3		2 50
Less than crate lots				2.75
T6989—20 in.	14 in.	3		2 80
Less than crate lots				3 05
T6990—24 in.	16 in.	3		3 20
Less than crate lots				3 45

TRIANGULAR TRUSS FRAME

Triangle truss frame, finished in bright red enamel, gold striping, bicycle padded saddle, with double coil nickel plated springs; bicycle head, Chicago type handle bars full nickel plated with motor bike rubber grips, adjustable; ⅝ inch, corrugated rubber tire front and rear wheels; nickel plated hub caps; three in crate.

CORRUGATED RUBBER TIRES

⅝-inch Front and Rear

No.	Front Wheel	Rear Wheel	Pack Crate	Each
T6991½—14 in.	10 in.	3		3 75
Less than crate lots				4 00
T6991—16 in.	12 in.	3		4 15
Less than crate lots				4 40
T6992—20 in.	14 in.	3		4 40
Less than crate lots				4 65
T6993—24 in.	16 in.	3		4 95
Less than crate lots				5 20

BALL BEARING

Triangle truss frame finished in maroon, nicely striped; wheels enameled maroon; motor bike padded saddle, nickel plated springs; full nickeled Ram's horn, adjustable handle bars, with rubber grips and bell; nickeled ball bearing rat-trap pedals on drop forged nickeled crank hanger; large nickeled hub caps, ⅝ in. cushion tires.

RUBBER TIRE WHEELS

⅝ inch Cushion Tires

No.	Front Wheel	Rear Wheels	Pack Crate	Each
T6997—14 in.	10 in.	2		8.00
Less than box lots.				8.25
T6998—16 in.	12 in.	2		8.25
Less than box lots				8.50
T6999—20 in.	14 in.	2		9 20
Less than box lots				9 45
T7000—24 in.	16 in.	2		10 00
Less than box lots				10 25

BALL BEARING SEAMLESS TUBULAR FRAME

Tubular frame, all joints hand brazed, arched fork crown, ball bearing cranks, 26 inch spokes and nipples; rubber, ball bearing pedals; padded saddle, double coil spring; full nickeled, forward extension adjustable handle bar, rubber grips and bell; 1 in. cushion tires; frame, forks and rims finished in carmine, gold striped; each in carton.

RUBBER TIRE WHEELS

1-inch Cushion Tires

No.	Front Wheel	Rear Wheels	Pack Crate	Each
T7011—16 in.	10 in.	1		10 75
T7012—20 in.	14 in.	1		13.25
T7013—24 in.	16 in.	1		15.00

These velocipedes fill a long felt want for high grade vehicles at moderate prices, right up to the minute and you can't buy better.

SPECIAL FOR LITTLE TOTS

Frame, heavy, wide oval steel; crank and handle bars one piece steel; frame and fork finished in black enamel; fibre top saddle with adjustable coil springs; stationary handle bar, cherry stained grips.

No.	Front Wheel	Rear Wheels	Pack Crate	Each
T6986—12 in.	8 in.	3		2.10
Less than crate lots				2 45

ASSORTED VELOCIPEDES

STEEL TIRE WHEELS

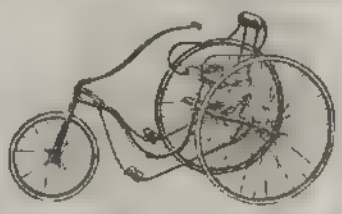
T6985—Assortment consists of one each 14, 16 and 20 in. front wheel, 10, 14 and 16 in. rear wheel, all steel frame velocipedes, black enameled, with adjustable spring saddles, and wood hand grips. Suitable for boys from 3 to 9 yrs. of age. Assortment (3 sizes) 6.25

RUBBER TIRE WHEELS

T6984—Same, but with ⅜ in. rubber tires. Assort (3 sizes).. 8.75

AMERICAN NATIONAL TRICYCLES

The best of material, workmanship and construction have been put into these tricycles, insuring satisfaction and long service.



Black enameled frame; wide adjustable seat, full back, leatherette upholstered; suspension springs; bent steering handles, reversible; cherry stained grips. For girls 2 to 5 years old.

½ IN. RUBBER TIRE WHEELS

No.	Front Wheel	Rear Wheels	Pack Crate	Each
T7017—12 in.	20 in.	1		8.50

BALL BEARING

Frame maroon enameled, gold bronze striping; bent steering handles, leather wound grips, nickel handles; wide adjustable seat, full back, corduroy upholstered with suspension springs; steel fenders for girls 3 to 5 years old.

¾ IN. RUBBER TIRE WHEELS

No.	Front Wheel	Rear Wheels	Pack Crate	Each
T7022—12 in.	20 in.	1		13.00

AMERICAN NATIONAL BICYCLE

An excellent juvenile wheel; roller bearings, cushion tires, strongly built.

Frame 15 inch tubing, 15 inch wheels, with ¾ in. cushion tires, ball bearing crank hanger; roller bearing front and rear wheels, roller bicycle chain; nickel plated handle bars, wound leather grips, padded bicycle saddle with double coil springs; mud guards; finished in bright red, handsomely striped.

T7007—Boys' Diamond Frame; each in crate. Each 14.00

EXTRA SPECIAL ATTRACTIVELY PRICED

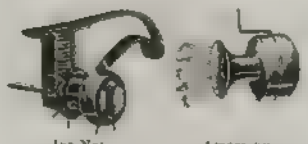
T7077—Body 12x36 ins., joint self starter; knuckle joint drop axle, front gear, with bumper cast steering wheel with information gas control lever; gas tank on rear; 10 inch red enameled wheels with ⅝ in. rubber tires and nickel plated hub caps; body finished in red with wide blue stripe over hood, striped and decorated in yellow; blue front and tank; 1 in crate. Each 6 00

AMERICAN NATIONAL JUVENILE AUTOMOBILES

Distinctive and original models and supreme values in children's autos; built by a factory with a reputation second to none for quality, durability, workmanship, up-to-the-minute designs, and attractive finishes; the best and most ready sellers in the entire lines of juvenile vehicles.

A FEW OF THE MANY DISTINCTIVE FEATURES OF THESE WONDERFUL CARS

No other line embodies so many really good features that at once appeal to the buying public than are put into these high class machines



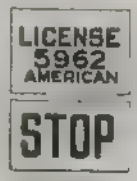
Jar Not Rear Spring

American Screecher Sign

Corrugated Non Skid Tires

Universal Gear Shift

Instrument Board



Lamps & Stop Signal

Composition Steering Wheel

ACE

T7074—Ace; body 12x30 ins., red, yellow striping; 10x3/8 in. corrugated rubber tire wheels; new improved knuckle joint steering gear with under slung front axle; nickeled hub caps, gas control, bumper, and motor meter with red and white marker; each in box. Each 4.50

BUICK

T7079 Buick; body 13x40 ins., chrome trimmings, green striping; 10x1/2 in. corrugated rubber tire wheels, knuckle joint steering gear, instrument board, gas control, adjustable gear shift, road lamps, screecher signal, motor meter with red and white marker; under slung front axle; license tag; nickeled hub caps; each in box. Each..6.70

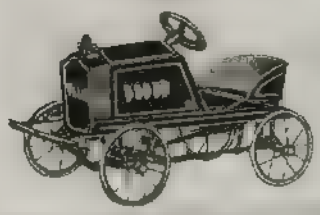
KNIGHT Roller Bearing

T7082—Knight; body 12x36 1/2 ins., orange, blue striping; 11x3/4 in. roller bearing rubber tire disc wheels; knuckle joint steering gear, under slung front axle; gas control, screecher signal, motor meter, road lamps, gear shift operating license tag and stop signal, instrument board, bumper, nickeled hub caps, each in box. Each 10.75

ALLEN—Roller Bearing

T7087 Allen, size 12x39 ins., [illegible] body, black striping, 11x3/4 in. roller bearing, corrugated rubber tire disc wheels, knuckle joint steering gear, hand grip steering wheel, gas control, screecher signal, motor meter, [illegible] gear shift with license and stop signal tag, nickeled hub caps, gear shift operating with [illegible] hub caps complete with lubricating [illegible] each in box. Each 11.50

VELIE



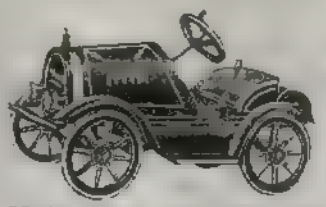
T7075—Velie, body 12x30 ins., yellow seat and frame, red body, 10x3/8 in. corrugated rubber tire wheels; knuckle joint steering gear under slung front axle, gas control, bumper, nickeled hub caps and motor meter with red and white marker; each in box. Each 5.25

HORNET

T7080—Hornet; body 13x39 1/2 ins., red yellow panels; 12x1/2 in. corrugated rubber tire wheels; knuckle joint steering gear, under slung front axle, gas control, instrument board road lamps, motor meter, license tag, adjustable gear shift, gas tank; nickel plated radiator, screecher signal, and bumper; each in crate. Each..... 9.25

T7084—Liberty; body 13x34 ins., royal blue, yellow striping; 12x1/2 in. corrugated rubber tire red wheels; hand grip steering wheel, gas control, screecher signal, road lamps, spot light, motor meter, instrument board, padded seat, wind shield, fenders and running board, gear shift with license and stop signal, bumper, nickeled hub caps; each in box. Each 12.00

MOGUL—Roller Bearing

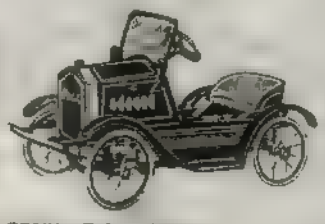


T7088 Mogul; body 13x39 ins., [illegible] black panel, yellow striping; 12x3/4 in. roller bearing corrugated rubber tires, wood wheels; compo steering wheel, screecher signal, motor meter, road lamps, padded seat, gas tank, gear shift with license tag, stop signal, nickel plated radiator and bumper each in box. Each 12.40

MAJOR

T7076—Major; body 12x30 ins., red green striping; 10x3/8 in. corrugated rubber tire wheels, knuckle join steering wheel; screecher signal; motor meter with red and white marker, gas control on steering wheel; instrument board, metal road lamps with non glare lens, adjustable gear shift license tag, nickeled hub caps, each in crate. Each 6.40

PAIGE



T7081—Paige; body 12x36 1/2 ins., red seat and frame, blue hood knuckle joint steering gear; 10x1/2 in. corrugated rubber tire wheels; under slung front axle, gas control, wind shield, fenders and running board, bumper, motor meter with red and white marker; underslung front axle, nickeled hub caps; each in crate. Each..... 6.50

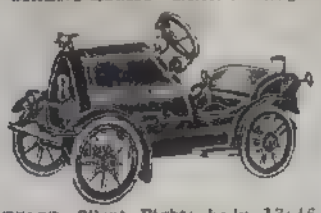
T7086—Peerless, body 12x34 1/2 ins., pearl gray, red striping; 12x1/2 in. corrugated rubber tire wheels; knuckle joint gear; gear shift, wind shield, spot light, motor meter, gas control, screecher signal, wood rim steering wheel, bumper, nickeled hub caps; each in box. Each 12.25

ROAMER—Roller Bearing

T7092—Roamer; body 13x43 ins., light green, yellow striping; 11x3/4 in. roller bearing corrugated rubber tire disc wheels; compo steering wheel, eagle radiator cap, spot light, road lamps, open side doors, screecher signal, leather cloth top, instrument board, sport fenders, leather flaps, bumper, gear shift with license and stop signal Jar not rear springs, roller bearing rear axle brackets, nickeled hub caps; complete with lubricating grease gun and can grease; each in crate. Each 18.00

OPEN HOOD AUTOMOBILES

SILENT EIGHT —Roller Bearing



T7093—Silent Eight; body 13x46 ins., orange with yellow striping, 12x3½ in. roller bearing corrugated rubber tire wood wheels; composition steering wheel, screecher signal, radiator cap with eagle, road lamps, adjustable gear shift with horn and stop signal, instrument board, tool box, sport fenders with running [illegible] bumper, Jar-Not rear springs [illegible] rear axle brackets, nickeled hub caps complete with lubricating grease gun and can grease; each in box
Each 19.00

PACKARD Roller Bearing

T7094—Packard; body 13x45½ ins., tan with brown striping; 12x3½ in. roller bearing corrugated rubber tire wheels; composition steering wheel, screecher signal, radiator cap with eagle, metal road lamps and side lamps; adjustable wind shield with wings, Jar-Not springs front and rear axles, imitation leather cloth top, luggage compartment, roller bearings in rear axle brackets, fenders with running board, gear shift, operating license and stop signal; nickeled hub caps; complete with lubricating grease gun and can grease; each in box
Each 18.75

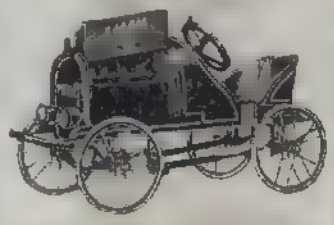
PIERCE

T7095—Pierce; body 14x48 ins., royal blue, black panels, yellow and black striping; 14x3½ in. nickel plated tangent wire spoke wheels, composition steering wheel, screecher or signal, eagle radiator cap, [illegible] road lamps and spot light; [illegible] wind shield with side wings; instrument board, gear shift, Jar Not springs front and rear axles, sport fenders, roller bearings in rear axle, luggage compartment, bumper, nickeled hub caps, spare wheel with leather cloth cover; complete with lubricating grease gun and can grease; each in box. Each ..26.50

PAIGE

T7098—Paige, body 12x32 ins. finished in light brown, yellow stripings, red radiator front, knuckle joint gear, black enamel [illegible], motor finished gray white enameled plugs; hood opens on both sides and locks tightly to frame of car; bumper; underslung front axle, motor meter with celluloid center, red and white marker; ratchet gas and spark control; three speed gear shift; American Screecher signal; nickel plated hub caps; 10x2½ in. rubber tired wheels, red enameled; each in crate. Each.....7.50

WINTON

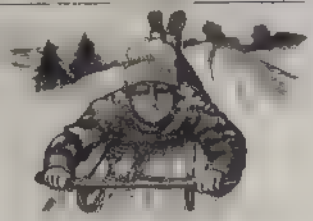


T7099—Winton; body 13x37 ins., blue, yellow striping; 12x2½ in. corrugated rubber tire red enameled wheels; knuckle joint gear with underslung front axle, hand grip steering wheel, screecher signal, motor meter, instrument board, gear shift, operating license tag, bumper, nickeled hub caps; open hood showing 4 cylinder motor, spark plugs with wire running to distributor; each in box
Each 11.00

LAFAYETTE—Roller Bearing

T7100—Lafayette; body [illegible] ins., maroon, red panels, [illegible] roller bearing corrugated rubber tire wood wheels, composition steering wheel, screecher signal, road lamps, adjustable gear shift, spot light, Jar-Not springs front and rear, front and rear bumper, nickel plated metal radiator, roller bearings in rear axle, spare wheel with leather cloth cover; complete with lubricating grease gun and can grease; each in box.
Each 23.50

SLEDS



All good selling, popular priced well built, substantially braced and handsomely finished. The most salable line on the market

HIGH SLEDS

Ornamented tops, nicely varnished

T7241—Length 36 inches; width 12 inches; has three bent knees, and finished on the wood; top handsomely hand decorated; flat shoes
Dozen 16.00

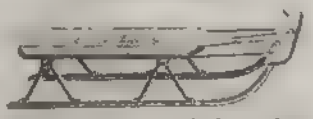
CLIPPER COASTERS

Hard maple runners, with round spring steel shoes

T7252—Runners are made of hard maple in natural color tops poplar finished in assorted bright colors; round spring steel shoes; 2 hand holes; strong and well made, length 30 inches height 3½ inches; width 10 ins. Dozen.....8.40

T7253—A high class coaster at a popular price; runners are made of select hard maple, finished in natural colors, tops are of yellow poplar enameled in bright colors; shoes are of round spring steel; 4 hand holes, length 36 inches; height 3½ ins., width 11 ins. Dozen...10.50

SELF-STEERING STEEL SLEDS



T7260—Top made of three pieces of selected ash, finished natural, nicely striped; I shaped steel runners with sheet steel knees; metal parts finished [illegible], length 30 ins., width 10 ins., 6 inches high. Dozer 9.50

T7261—Rock elm; natural finish, tops enameled, striped and varnished; runners crucible spring steel, T shaped, standards pressed from 16 gauge steel, lgth 32 ins.; width 11½ ins.; 6 ins. high. Doz... 11.25

T7262—Same, larger; length 36 in., width 12½ in., 6 in. high
Each 1.20

T7263 Same, but larger; length 41 inches; width 13½ inches 6 ins. high. Each..... 1.48

T7264 Same, with reinforced steering bar and larger; length 46 ins.; width 14½ ins., 6 ins. high
Each 1.82

T7265—Same, larger; with double steel side foot rests and two extra standards; length 50 ins., width 13½ in.; 6½ in. high Each 2.15

RACER

T7266—Racer, especially built for durability and speed; six knees length 56 ins., width 14½ ins. 6½ ins. high. Each 2.85

STEEL WHEEL BARROWS

Far superior in both construction and durability than the wood barrow; wood parts natural green, metal parts enameled in bright colors.

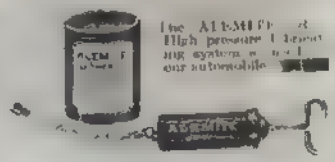
T6853—Steel body, 8x11 ins.; 6 in wheel; length over all 29 ins.; finished bright red, black wheel. 1 dozen in crate. Dozen. 4.35

T6854—Body 10½x13 in., 33 ins. over all; bright red enameled black wheel; ½ dozen in crate
Dozen 7.20

T6857—Dump barrow; made of sheet steel and selected barwood, size box 11¾x13 inches; length 27 ins., 7½ in. steel wheel; ½ dozen in crate. Dozen.....8.25

Don't wait, if you order your goods today you can have the order filled complete

LUBRICATING SYSTEM AMERICAN NATIONAL AUTOS



The [illegible] High pressure [illegible] ing system [illegible] our automobile

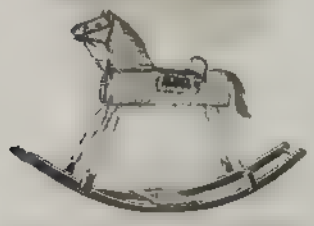
NURSERY SEAT

T7361—Adapted to children from infancy to six years or older; can be [illegible] large stool in an instant and [illegible] comfortable, made of hard wood, natural finished, with collapsible enameled steel frame; each in box. Each.1.70

FINE ROCKING, PLATFORM AND SHOOFLY HORSES

Made by the best manufacturers in the country and a picked line of the best selling numbers only extra well finished and aside from real durability, they make a splendid appearance If you want better values for your money you will buy these lines

ROCKING HORSES



T7149—Body block 6x5x17½ ins painted white; hair mane and tail, leatherette saddle with stirrups, bridle and neck band; 42 in. red bent hardwood rockers, striped, height 25 inches, four in crate.
Each .. 3.00
Less than crate lots. Each 3.25

T7150 — Same, 44 in. rockers, 26 inches high and with corduroy upholstered saddle. Each... ...3.65
Less than crate lots. Each. 3.90

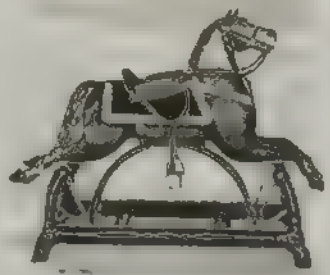
T7163—Body block, 6½x6½ ins 19 ins. long; turned body carved head and legs; dapple gray finish, hair, mane and tail, glass eyes, corduroy English saddle, bridle breast band and martingale; velour saddle blanket with gold fringe, stand finished red, striped; height 30 ins.; 1 in crate Each 6.75

SWINGING HORSES

T7154—Turned body, shaped head and legs; dapple gray finished, with hair mane and tail; corduroy saddle, bridle, breast band and martingale; stand finished red and striped; body block 5x5 in., 17½ in long, height 25 ins.; 1 in crate. Each 3.85

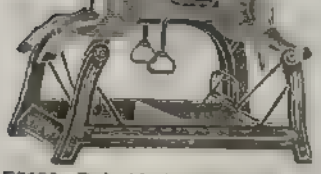
T7155—Same, but 6x6 in. body, block 19 in. long, and 27 in. high; 1 in crate. Each.....4.50

PLUSH COVERED



T7169 — Turned body block 7x7 in., 22 in. long, covered with dark brown plush; carved head and legs hair mane and tail, glass eyes shaped hoofs with horseshoes; corduroy covered English saddle martingale, breast band and bridle, stand finished in bright red enamel, iron arch and hangers black, velour saddle blanket trimmed with gold fringe; height 35 in.; 1 in crate Each 16.75

GALLOPING HORSES



T7160—Body block 5½x5½ in., 18 in. long; turned body, shaped head and legs; dapple gray finish; hair, mane and tail; corduroy saddle, bridle, breast band and martingale; stand and arch finished red, striped, with enameled hangers; height 26 ins.; 1 in crate
Each 5.25

T7161—Same, but 6x6 in. body block, 18 in. long, 28 inches high and with English saddle corduroy upholstered. Each.....3.50

The choicest values of the foremost manufacturers of these money makers are here offered you.

COMBINATION HORSES
PLATFORM AND ROCKER

Plush covered horse, well shaped, beautifully finished; enameled rockers and platform; platform on wheels, so it can be taken off rockers and rolled on floor

T7139—Horse 23½ in. high, 26 in. high over all; rockers 30 in. long. Each 4.00

T7140—Horse 30 in. high, 31 in high over all; rockers 40 in. long. Each 5.85

T7141—Horse 29½ in. high, 33½ in. high over all; rockers 45 in long. Each. 8.50

T7142—Horse 35 in. high, 40 in high over all; rockers 49 in. long Each 18.00

SHOOFLIES

Made of the best materials only saddles and bridles printed on both sides of horses; all numbers with tails

T7110—18x30 ins.; [illegible] varnished; horses printed in [illegible] with tails; seats natural, rockers and foot boards, enameled red; ½ dozen in crate. Dozen... 13.25

T7111—Same, horses finish in white enamel, seat, rockers and foot board red; ½ dozen in crate. Dozen 15.00

T7113—18x30 ins.; horses enameled white printed black, with tail seat upholstered in cretonne; rockers and foot board enameled red, ½ dozen in crate. Dozen 17.50

T7114—Same, but with red enameled play box ½ dozen in crate Dozen 19.80

T7115—21x39 inches, horses enameled white, printed in red and black, with tails; seat upholstered in cretonne, rockers and foot board enameled red; with red play box; ½ dozen in crate Dozen 22.75

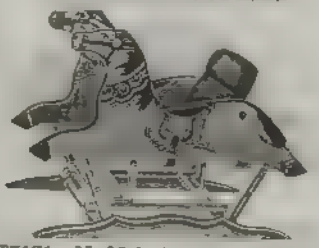
T7116 [illegible] otherwise as T7115, ½ doz. in crate.
Dozen 27.00

T7118—21x39 ins hardwood, enameled white and dappled; hair manes and tails; seat and back upholstered in corduroy. Each.3.50

T7117—25x44 inches; horses enameled white, printed in bright colors; with tails, seat upholstered in cretonne, with red enameled play box; rockers and foot board enameled red; ½ dozen in crate.
Each 9.75

T7120—25x44 inches; horses enameled white, printed black and red, rockers, foot board and toy box enameled red; seat and back enameled white; ½ dozen in crate.
Each 2.70

SWINGING SHOOFLIES



T7121—25x35 inches; horses white enameled, printed in bright colors, with tails; seat upholstered in cretonne; red enameled play box swinging base enameled red and striped; red foot board Each 2.95

T7122—25x35 inches; hardwood; antique finish; hand decorated in colors; real hair mane and tails, seat upholstered in corduroy; play box and foot board, also hand decorated. Each..... 4.50

T7123 — Same except finished in white enamel and handsomely decorated and dappled. Each.. 5.75

T7125—Goose shoofly; white enameled, varnished; corduroy upholstered seat and back; heavy nickel [illegible] hangers; fancy spindled, [illegible] enameled base, gilt striped, length 34 in., width 15½ in., 27 in. high Each.....9.00

The most select lines from the best makers only—strictly salable merchandise — are shown in this catalogue.

SPECIAL SHOOFLY ASSORTMENTS

T7104—Two each, 3 kinds, shoofly, two finished natural, four finished in white enamel, four handsomely upholstered in cretonne, five without, one with play boxes; assortment made up to retail from 2.00 to 3.00 each; ½ dozen in crate; no less sold. Assortment .. .. ..

LADIES' "SUN OR RAIN" PURE SILK COLORED UMBRELLAS

GUARANTEED WATER-PROOF AND FAST COLORS

EACH STYLE is made in the following colors: BLUE, PURPLE, GREEN, BROWN, GARNET AND BLACK

All Umbrellas on this page $27 each complete

Order by numbers, stating colors wanted

Descriptions of handles are as follows:

No. 951. Amber Pyralin handle, beautiful hand carved flower design, leather side strap

No. 952. Ivory Pyralin handle with hand carved design and Amber Pyralin top

No. 953. Amber Pyralin handle, engine turned design, leather safe strap

No. 954. Amber Pyralin handle, hand carved design with leather side strap

No. 955. Combination Ivory and Amber Pyralin post with Amber Pyralin ring

No. 956. Clear Amber Pyralin post, 14k solid gold cap, leather side strap

No. 957. Transparent Amber Pyralin handle, two white Ivory Pyralin rings at top

No. 958. Amber Pyralin post, engine turned, with sterling silver cap

No. 959. Clear Amber Pyralin handle with combination white and shell effect

Umbrellas are fine quality, all silk, Jacquared woven flower design all over. *25 inch size, 8 rib, close roll, with outside silk case, stub ends and tips to match*

Do not fail to state numbers and colors desired

LADIES' "SUN OR RAIN" PURE SILK COLORED UMBRELLAS

GUARANTEED WATER-PROOF AND FAST COLORS

EACH STYLE is made in the following colors: **BLUE, PURPLE, GREEN, BROWN, GARNET AND BLACK**

All Umbrellas on this page $21 each complete

Order by numbers, stating colors wanted

Descriptions of handles are as follows:

No. 761. Clear Amber Pyralin handle, sterling silver cap, leather side strap
No. 762. Ivory Pyralin post with variegated Pyralin top and ring
No. 763. Transparent Amber Pyralin handle, engine turned, and leather side strap
No. 764. Amber Pyralin handle, hand carved flower design, leather side strap
No. 765. Transparent Amber Pyralin post with black and white Pyralin top
No. 766. Clear Amber Pyralin handle with leather side strap
No. 767. Clear Amber Pyralin handle, engine turned design, leather side strap
No. 768. Ivory Pyralin post with colored Pyralin ring and top to match silk
No. 769. Clear Amber Pyralin handle with braided leather wrist cord

Umbrellas are fine quality, all silk, with beautiful wide tape edge as illustrated. *25 inch size, 8 rib, close roll, with outside silk case, stub ends and tips to match*

Do not fail to state numbers and colors desired

LADIES' "SUN OR RAIN" PURE ALL SILK COLORED UMBRELLAS

GUARANTEED WATER-PROOF AND FAST COLORS

EACH STYLE is made in the following colors: **BLUE, PURPLE, GREEN, BROWN, GARNET AND BLACK**

All Umbrellas on this page $21 each complete

Order by numbers, stating colors wanted

Descriptions of handles are as follows:

No. 751. Fine, curved Amber Pyralin handle. Princess style, leather strap

No. 752. Clear Amber Pyralin ring handle

No. 753. Amber Pyralin handle, hand carved checkered effect, leather cord

No. 754. Variegated Pyralin post with clear Amber Pyralin top and leather side strap

No. 755. Amber Pyralin handle, fine quality leather side strap

No. 756. Malacca wood post with braided leather top and leather side strap

No. 757. Amber Pyralin handle, hand carved flower design, leather side strap

No. 758. Variegated Pyralin ring handle with white Pyralin top

No. 759. Amber Pyralin handle, hand carved checkered effect, leather side strap

Umbrellas are fine quality, all silk, with beautiful wide tape edge as illustrated. *25 inch size, 8 rib, close roll, with outside silk case, stub ends and tips to match*

Do not fail to state numbers and colors desired

LADIES' "SUN OR RAIN" PURE ALL SILK COLORED UMBRELLAS

GUARANTEED WATER-PROOF AND FAST COLORS

EACH STYLE is made in the following colors: BLUE, PURPLE, GREEN, BROWN, GARNET AND BLACK

All Umbrellas on this page $15 each complete

Order by numbers, stating colors wanted

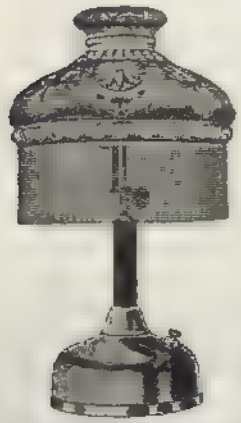
Descriptions of handles are as follows:

No. 22. Al. leather handle with leather side strap
No. 22. Amber Pyralin handle with leather cord and beads to match
No. 23. Ivory Pyralin post with colored Pyralin top to match silk and leather side strap
No. 24. Transparent blue Pyralin post and ring with Ivory Pyralin top for engraving
No. 25. Ivory Pyralin post and ring with colored Pyralin top to match silk
No. 26. Transparent Amber Pyralin post and rung
No. 27. Natural, steeple wood post with Ivory Pyralin ball top and leather side strap
No. 28. Genuine applewood handle with hand curved flower design, leather strap
No. 29. Transparent Amber Pyralin handle with tan leather side strap

Umbrellas on this page are fine quality, all silk, with tape edge. Regular 25 inch 10S, 8 rib, close roll, with outside silk case, stub ends and tips to match

Do not fail to state numbers and colors desired

COLEMAN QUICK-LITE LAMPS, SHADES, MANTLES AND GENERATORS



No. R335D—Antique Gold Lamp. Regular Quick-Lite lamp finished in Antique Gold. A new popular Coleman finish. Shade 335D is tinted in tan and decorated with foliage and flowers, and bead fringe,.....each *$18.50*

No. R335C—Antique Gold Lamp. Same as above except with plain shade with raised decorations .....each, *$18.00*

One in a carton.

SHADES

No. R5329—Opal Shade is designed especially for the Quick-Lite. It is artistic and durable. A splendid value, the standard shade for Quick-Lites .....each *$2.50*

No. R5322—A beautiful mellotone opal shade. A plain shade handsomely designed, each *$3.50*

No. F335D—A new style shade exclusive design tinted in tan and beautifully decorated with clusters of foliage and pink wild flowers. Bead fringe ★ .....each *$6.40*

No. F335C—Same shade as No. 335D except has no flower decorations ★.....each *$5.90*

No. F335A—Same shade except tinted in green, no flower decorations ★ .....each *$5.00*

No. R1004—Opal Ribbed shade has been a standard shade for many years and is still a good seller .....each *$2.00*

USE ONLY GENUINE COLEMAN MANTLES

To get the greatest amount of light and service out of Coleman Lamps, Lanterns and Lighting Plants, you should use only Genuine Coleman Mantles, because—

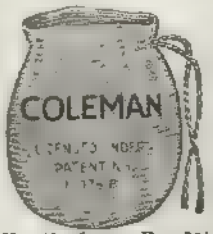
1 They work perfectly with the proper size gas tip and air intake in producing 300 candle power of pure-white light—always restful to the eyes.

2 Coleman Mantles are the proper size to insure more efficient and brilliant light than is possible with ordinary mantles.

3 Coleman Mantles are full size and non-shrinkable

4 They are properly reinforced at the bottom where the gas pressure is greatest, therefore cannot split at the seam or fall away.

5 They are made by a special process—especially for use on Coleman Quick Lite Lamps Lanterns and Lighting Plants.



Use only the mantles which have the name Coleman on them.

Coleman mantles are now put up one dozen in a pasteboard carton and one gross (12 cartons) in handsome and attractive counter display box.

No. 41—Junior Rag 2½ inches long for Quick-Lite Lamps and Lanterns and all other gasoline lamps using two or more junior size mantles .....per dozen *$1.50*

No. 40—Full size Standard Rag, used on system lamps where a large high power rag mantle is needed, per dozen *$2.20*

One dozen in a box.

QUICK-LITE GENERATORS

The Quick-Lite Generator will burn 500 to 800 hours without renewing. When finally filled with carbon, replace with extra generator furnished with each lamp. The hole in gas tip, (Q18) is easily cleaned with tip cleaner as illustrated. If tip becomes clogged clean or replace with new tip furnished free with every lamp.

No. 99Q—Generator, per doz. *$6.00*

One dozen in a box.

No. R317—Lamp Crystal frosted shade with bead fringe to match. Lamp in regular nickel finish. A very attractive lamp for the home .....each *$14.80*

One in a carton.

SHADES

No. R5324—A beautifully decorated mellotone opal shade. It softens the light and has a surprising richness about it pleasing to the eye .....each *$3.70*

No. R5318—An opal shade decorated in brown and tan tints with delicate vine and small pink roses, a handsome shade.....each *$3.70*

MICA CHIMNEYS

No. 5327LQ — Complete.....each *$1.00*

No. F327½LQ—Mica part only, each★ *$0.90*

BUG SCREENS

No. F333—White asbestos coated wire, for Nos. R307, 317B, R318 R322 and R324 Quick-Lite lamps, each★ *$1.50*

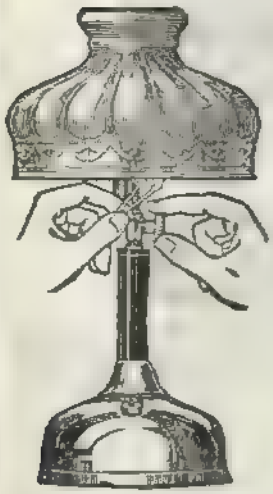
GLOBE

No. F321 — A globe made especially for the Quick-Lite. It protects the mantles from insects, each★ . *$2.50*

★ Items Marked Thus ★ Are Shipped From Factory Only.

COLEMAN QUICK-LITE GASOLINE LAMPS

Patented May 13, 1919 | Light With Matches | Nationally Advertised



QUICK-LITE ADVANTAGES

BRILLIANT—300 Candle power strong pure white light. Brighter than 20 old style oil lamps or lanterns.

SAFE—Can't spill fuel or explode even if tipped over. Can't be filled while lighted

CLEAN—No greasy wick to trim. No dirty chimney to wash No smoke. No soot. No odor.

ECONOMICAL—Costs less than one-half cent per hour to use

CONVENIENT—Make and burn their own gas, light with matches. Lamp holds 3 pints—burns 18 hours on one filling Lantern holds quart—burns 12 hours per filling.

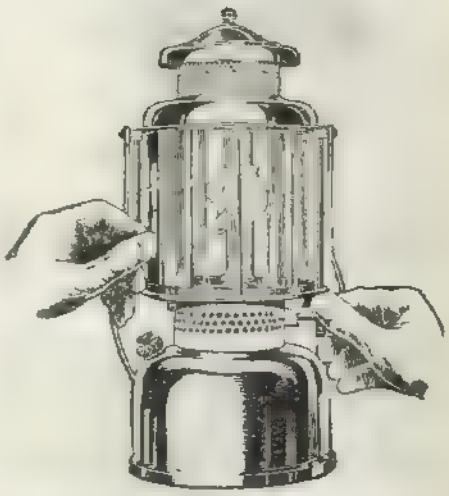
DURABLE—Made of brass, heavily nickel plated, and highly polished.

MANTLES—All lamps on this page take No. 121 [illegible] Junior mantles

SIZE—All lamps 22 in. high

PACKING—One in carton complete with shade, two mantles, pump, wrench, hanger, cleaning pick and extra generator.

WEIGHTS—Table lamp, 10 lbs.; Chandelier, 16 lbs.; Bracket, 9 lbs.; Lantern, 6 lbs.



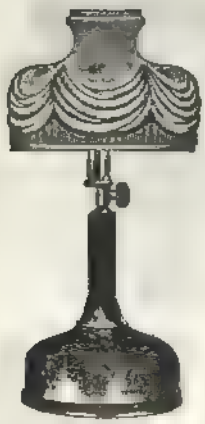
No. R329 LAMP—The most popular Quicklite. Featured in all advertising . . . . . each $12 50

No R307 LAMP—With white ribbed shade. . . . . each $12 50

No. R327 LANTERN—Is the greatest outdoor light made. Will burn in any weather or climate. Just the light for farmers, watchmen, plumbers, garages, campers, auto tourists and all night work . . . . . each $10 50

No. R320 CHANDELIER—For stores, churches, school halls, etc. Two separate burners, operate one or both as desired Casts no under shadow. With bug-proof globe as shown, each . . . . . each $25.00

No. R321 CHANDELIER—With white ribbed shade, each . . . . . each $24 00



No. R324 LAMP—With beautiful mellow tone opal glass green tinted, decorated with dainty hand painted wild roses. A very rich and pleasing light. Popular as a gift lamp. . . . . each $14 00

No. R319 BRACKET LAMP—The handy light for rooms with low ceilings, in halls, bathrooms, kitchens, over desks, etc. Can be used as wall or table lamp. With white ribbed shade, each. $13 50

No. R318 LAMP—Has always been a tremendous seller. Shade is decorated in brown and tan tints overlaid with clusters of foliage and pink wild roses, each . . . . . each $14 00

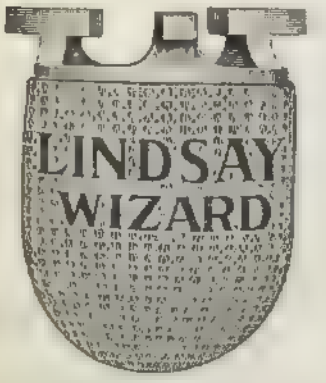
INVERTED GAS MANTLES

No. 100 LINDSAY TUNGSTEN—Special Tungsten Weave, the very highest possible quality, heavily impregnated. Mounted on standard magnesia support.
Per dozen $3.00
One dozen in a box.

No. 75 LINDSAY COMET Special Weave. A low priced mantle of excellent quality. Mounted on standard magnesia support. Per dozen $2.16
One dozen in a box.

No. 94 LINDSAY GASCO—Diamond Weave. A strictly high grade mantle, exceptionally strong and durable. Mounted on standard magnesia support. Per dozen $2.82
One dozen in a box.

No. 64 LINDSAY MAGIC—Triple Weave. Made to meet the demand for a low priced very durable mantle. Mounted on standard magnesia support. Per dozen $1.92
One dozen in a box.

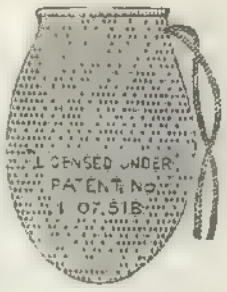


No. 72 LINDSAY WIZARD—Double Weave. A well made mantle in great demand by those who prefer a double weave at minimum cost. Mounted on standard magnesia support. Per dozen $2.40
One dozen in a box.

No. 5333 LINDSAY FULVALU Single Weave—good quality, full value for the money. Mounted on standard magnesia support. Per dozen $1.60
One dozen in a box.

GASOLINE MANTLES

"Blue Cord" Soft Tie-On



The "Blue Cord" mantle is of the very highest quality and is made extra heavy for candle and strength. Patented sewed bottom insures perfect shaping. Burns without shadow.

No. 121—Junior "Blue Cord," this is the popular size mantle used for and other gasoline table or reading lamps. per dozen $1.80

No. 122—"Blue Cord," this is the full size mantle used on inverted system lamps. Per dozen $2.40

Each mantle in a waxed envelope.

H. S. B. & CO. SOFT TIE-ON

A good grade of mantle, has gathered bottom and will not give as good light or service as the sewed bottom

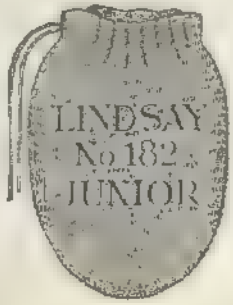
No. 0118—Junior, for reading or table. Per dozen $1.60

ROSE COLORED, highest quality, Ramie fibre. Has bell shape gathered bottom existing no shadow. Will not shrink

No. 45 LINDSAY DAYLIGHT REGULAR, soft. For use on all inverted systems and Gasoline Portable Lanterns. Per dozen....$1.80

No. 54 LINDSAY DAYLIGHT JUNIOR, soft. For use on all Portable Lanterns Per dozen $1.50

One in a Glassine Envelope.



Very highest quality gathered bottom mantles; cast no shadow. High in candle power and will not shrink.

No. 182 LINDSAY RAMIE JUNIOR, soft. For use on all gasoline portable lamps. Per dozen $1.75

No. 181 LINDSAY RAMIE REGULAR, soft. For use on all inverted systems and lanterns. Per dozen .$1.50

Each Mantle in a Glassine Envelope.

THE NEW COLEMAN QUICK-LITE SUPPLY CASE

A "PEACH" OF A DISPLAY—A CONSTANT REMINDER—A SELF-SELLING MERCHANDISER. ALL IN ONE.

A display case that will work for you. An assortment of "oftenest needed" repair parts.

Brightly colored card in cover lists all parts, contains illustrations, numbers, prices and will be of immeasurable help.

Your stock is before you and will always be a constant reminder to avoid shorts.

The metal box is free. 26 gauge metal-finished in olive green

Walls of compartments are all spot-welded together. Case measures 13¾ in. long by 7⅜ in. wide by 2⅝ in. deep.

If parts are retailed at their regular individual list prices the contents of each case will sell out at a profit of $15.00 which makes this proposition attractive without even considering the display value of the case at work on the counter.

No. R1000—Quick Lite Supply Case. Containing parts as listed with metal counter display case, each $30.00

LIST OF CONTENTS

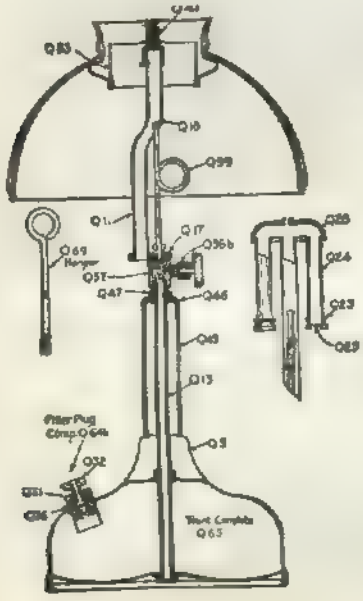
4 No. Q57 Lamp Valves
3 No. Q Pumps
1 No Q11 Air Intake
4 No. Q25 Burner Cap Screens
1 No. Q26 Mixing Chamber
1 No Q56b Valve Stem and Nut
2 No C46 Handle Caps
2 No C47 Handle Lock Nuts
6 No. Q36 Gaskets

12 No. Q18 Gas Tips
2 No. Q41 Shade Holder Screws
3 No Q Wrenches
1 No Q17 Casting
2 No. Q Tip Wrenches
4 No Q64b Filler Plugs
4 No. Q23 Burner Caps and Screens
4 No Q24 Burner Tubes
2 No. LQ57 Lantern Valves

1 No LQ55 Valve Stem and Nut
1 No. C45 Handle Fiber
3 No C69 Lamp Hangers
6 No Q Pump Leathers
1 No Q63 Shade Holder
2 No. LQ41 Ventilator Ball Nuts
3 No LQ Wrenches
12 No. 087 Tip Cleaning Picks
12 No. Q99 Generators

REPAIR PARTS FOR QUICK-LITE LAMPS AND LANTERNS

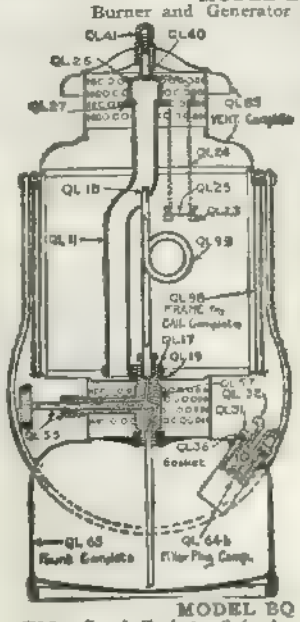
MODEL CQ QUICK-LITE LAMP



F11Q	Burner support tube only★	$0.60
17Q	Burner support casting	$0.20
18Q	Gas tip	$0.10
23Q	Burner cap complete	$0.30
24Q	Burner tube	$0.20
F25Q	Burner cap screen, 2 for★	$0.10
F26Q	Mixing chamber★	$0.80
F36Q	Lead Gasket 2 for★	$0.10
41Q	Shade holder screw	$0.10
F45C	Handle ★	$0.40
46C	Fiber handle cap	$0.10
F47C	Handle lock nut★	$0.10
F56BQ	Valve stem and nut★	$0.40
57Q	Valve complete	$1.00
63Q	Shade holder, Universal	$0.40
64BC	Filler plug complete	$0.80
F65C	Fount complete★	$7.50
69Q	Hanger	$0.10
70Q	Burner, generator and valve assembled	$4.00
99Q	Generator complete	$0.50
300CR	Pump	$1.00
306CQ	Wrench	$0.30
007Q	Cleaner Needle	$0.10

MODEL LQ LANTERN

Burner and Generator Parts same as CQ Lamp



F19LQ	Burner frame	$0.10
F36M	Lead Gasket 2 for★	.10
F40LQ	Ventilator rod★	.10
F41LQ	Ventilator ball	.10
F55LQ	Valve stem and nut★	.40
F57LQ	Valve complete★	1.00
F64LQ	Filler plug complete★	.80
F65LQ	Fount complete★	6.00
F70LQ	Complete burner valve and generator assembled★	3.50
F85LQ	Ventilator complete★	2.40
FCQ	Wrench★	.30

MODEL PQ CHANDELIER

Refer to Model CQ Lamp for Valve, Generators and Burner parts for this burner and Bracket Lamps.

F36	Lead Gaskets 2 for★	$0.10
FP64B	Filler Plug, complete★	.80
FP65	Fount with Filler Plug★	10.00
FP74	Arms and Connection complete★	4.00
306CQ	Wrench★	.30

MODEL BQ BRACKET LAMP

F36	Lead Gaskets, 2 for★	$0.10
FB42	Hanger Ring on Fount★	.30
FBQ64B	Filler Plug complete★	.80
FB65	Fount with Filler Plug★	8.00
306CQ	Wrench★	.30

★ Items Marked Thus ★ Are Shipped From Factory Only.

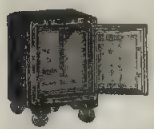
FIRE PROOF SAFES

COLUMBIAN SAFE AND LOCK CO.

The only one piece flanged front and back air chamber Safe in the market. The back and front is a solid one piece, formed by flanging a square steel plate on a powerful machine—the front is then died out, forming the door frame—the door is thus made from the part that has been cut out in making the frame. After this process the front and backs are electrically welded to a solid one piece of sheet steel, which forms the top, bottom and sides, eliminating rivets, etc., which makes as nearly a solid construction as is possible to make, after the filling and inside construction is put in.

An important feature, found in no other make, is an air chamber all around the inside, top, bottom, back and sides of the Safe. This air chamber is made of a double cabinet, one contained in the other, so there is a space of $\frac{3}{8}$ of an inch all around. This is done to eliminate a common complaint to which all Fire Proof Safes are subject—that is, dampness, which causes the Safe to sweat, during which process this sweat will go toward the inside, causing the cabinet work to warp. This air chamber makes the Safe doubly strong and secure in case of fire, forming a vacuum, so to speak.

We Guarantee the Columbian Safes to be dry, and the locks and bolts to work smoothly, that the doors will fit—not too loose, not too tight, and that the contents will be protected from fire in any emergency for which a fire-proof safe is intended.



Single outside door fitted with combination locks unless key locks are specially ordered.

Customer's name painted on safes free of charge.

Without Inside Door.

Outside, in	16x9½x10¾ deep
Inside, in	10x6x6½ deep
Three shelves, in	8¼x6
	Each

No. 201—Approximate weight 75 lbs ..... ✦$62 25

Without Inside Door.

Outside, in	23x13½x18 deep
Inside, in	12¼x8¾x9½ deep
Cash box, in	4x5
One book space, in	3¾x12
One book space, in	8x4
One drawer, in	3x4
	Each

No. 202—Approximate weight 215 lbs ..... ✦$122 40

Without Inside Door.

Outside, in	26½x16¾x19½ deep
Inside, in	13¼x9½x10½ deep
Cash box, in	5x5
One book space, in	3⅝x13
One book, space, in	4⅜x5
One drawer, in	3x5
	Each

No. 202½—Approximate weight 360 lbs ..... ✦$138 75

Without Inside Door.

Outside, in	28¾x18x20¾ deep
Inside, in	15½x10½x11 deep
Cash box, in	5x5
One book, space, in	4½x15
Two book spaces, in	3x5
One drawer, in	3x5
	Each

No. 203—Approximate weight 435 lbs ..... ✦$155 25

✦F. O. B. Ohio Factory Only.

FIRE PROOF SAFES

COLUMBIAN SAFE AND LOCK CO.

Single outside door, fitted with combination lock.

Safes with inside door, fitted with key lock.

Without Inside Door.

Outside, in	30⅝x20x22½ deep
Inside, in	17¼x12½x12 deep
Cash box, in	5x5
One book space, in	6¾x17
One book space, in	4½x5
One drawer, in	3x5
One pigeon hole, in	3x5
	Each

No. 203½—Approximate weight 565 lbs ..... ✦$179 55

Without Inside Door.

Outside, in	32¾x23x25 deep
Inside, in	18½x14½x13 deep
Cash box, in	5x5
One book, space, in	8¾x18
One book, space, in	5¾x5
One drawer, in	3x5
One pigeon hole, in	3x5
	Each

No. 204—Approximate weight 795 lbs. ..... ✦$204 00

With Inside Door.

Outside, in	37x25¼x27 deep
Inside, in	20⅝x15¾x13 deep
Cash box, in	5x5
One book space, in	9¼x19¼
One book space, in	4⅝x5
Two drawers, in	3x5
One pigeon hole, in	3x5
	Each

No. 205—Approximate weight 1060 lbs ..... ✦$261 00

With Inside Door.

Outside, in	39¼x26x28¼ deep
Inside, in	22⅜x16¼x14 deep
Cash box, in	5x5
Two book spaces, in	6x18
Three drawers, in	8x5
Two pigeon holes, in	5x3½
Two pigeon holes, in	3x5
	Each

No. 206—Approximate weight 1190 lbs ..... ✦$294 00

With Inside Door.

Outside, in	41⅜x28¾x29¼ deep
Inside, in	24¼x18½x14 deep
Cash box, in	6x6
Two book, spaces, in	6½x20
Three drawers, in	3x6
Two pigeon holes, in	5½x3½
Two pigeon holes, in	3½x6
	Each

No. 207—Approximate weight 1480 lbs ..... ✦$326 40

✦F. O. B. Ohio Factory Only.

FIRE PROOF SAFES

COLUMBIAN SAFE AND LOCK CO.

Single outside door fitted with combination lock. With single inside door fitted with key lock.

With Inside Door.

Outside, in	53x30½x30 deep
Inside, in	84½x19½x14 deep
Cash box, in	6x6
One book space, in	12¼x18
One book space, in	12¼x15¼
One book space, in	6x17⅜
Three drawers, in	3x6

Each

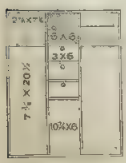
No. 208—Approximate weight 1980 lbs ..... **+$481 50**

With Inside Door.

Outside, in	67½x32x30 deep
Inside, in	48x19½x14½ deep
Cash box, in	6x6
Four book spaces, in	12x20
One book space, in	6x20
Four drawers, in	3¼x6
Four pigeon holes, in	4½x6¾

Each

No. 209 Approximate weight 2600 lbs ..... **+$661 05**



With Double Outside and Inside Doors.

Outside, in	47½x34x30½ deep
Inside, in	27¾x22x15 deep
Cash box, in	6x6
Two book spaces, in	7⅜x20½
One book space, in	10⅜x6
Three drawers, in	3x6
Two pigeon holes, in	2⅞x7¾
Four pigeon holes, in	2⅛x3⅞

Each

No. 210—Approximate weight 1900 lbs ..... **+$652 80**

+F. O. B. Ohio Factory Only.

FIRE PROOF SAFES

COLUMBIAN SAFE AND LOCK CO.

Have double outside folding doors with combination lock. Furnished with double folding inside doors with bolt.

With Double Outside and Inside Doors.

Outside, in	54x38¼x31¾ deep
Inside, in	34¼x26¼x18¼ deep
Cash box, in	7x7
Two book spaces, in	8¼x20
Two book spaces, in	6¼x13¼
One book space, in	8x16⅝
Two drawers, in	2x7
One pigeon hole, in	3x8
Two pigeon holes, in	3¾x7
Three pigeon holes, in	2¼x4½

Each

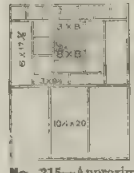
No. 211—Approximate weight 2585 lbs ..... **+$734 40**

With Double Outside and Inside Doors.

Outside, in	67¼x42½x33 deep
Inside, in	44x28⅝x16 deep
Cash box, in	8x8
Three book spaces, in	9x20
Two book spaces, in	5¾x23½
Five drawers, in	2⅜x8
Twelve pigeon holes, in	3¼x4

Each

No. 214—Approximate weight 3785 lbs ..... **+$963 00**



With Double Outside and Inside Doors.

Outside, in	65½x46¼x33¾ deep
Inside, in	42x32¾x16 deep
Cash box, in	8x8
Three book spaces, in	10½x20
Two book spaces, in	6x17⅞
Two drawers, in	3x9½
Two drawers, in	3x8
Six pigeon holes, in	4½x5½
Seven pigeon holes, in	4⅛x3⅝

Each

No. 215—Approximate weight 4110 lbs ..... **+$995 55**

With Single Outside and Inside Doors.

Outside, in	26¼x16⅝x19½ deep
Inside, in	15¾x11½x10 deep
Cash box, in	5x5
One book space, in	5½x15⅝
One book space, in	6x6
One drawer, in	3x5

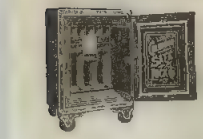
Each

No. 240—Approximate weight 330 lbs ..... **+$155 25**

F. O. B. Ohio Factory Only.

FIRE PROOF SAFES

COLUMBIAN SAFE AND LOCK CO.



Outside door fitted with combination lock. Inside door fitted with key lock, except Nos. 248 and 249 with bolt.

With Single Outside and Inside Doors.

Outside, in. . . . . 28¼x18x20¾ deep
Inside, in. . . . . 17⅝x12⅝x10½ deep
Cash box, in. 5x5
One book space, in. 6⅝x17
One book space, in. 5¼x5
One drawer, in 3x5
One pigeon hole, in 3x5

Each

No. 241—Approximate weight 385 lbs. . . . . **+$171 75**

With Single Outside and Inside Doors.

Outside, in. . . . . 30⅝x20x22½ deep
Inside, in. . . . . 19x14x12 deep
Cash box, in. 5x5
One book space, in. 8x18⅜
One book space, in. 6½x5
One drawer, in. 3x5
One pigeon hole, in. 3x5

Each

No. 242—Approximate weight 505 lbs. . . . . **+$195 90**

With Single Outside and Inside Doors.

Outside, in. . . . . 32⅝x23x23½ deep
Inside, in. . . . . 20⅝x16⅞x14 deep
Cash box, in. 5x5
One book space, in 10⅞x20x14
One book space, in. 6x8
One drawer, in. 3x5
One pigeon hole, in. 8x5

Each

No. 243—Approximate weight 705 lbs. . . . . **+$228 75**

With Single Outside and Inside Doors.

Outside, in. . . . . 36⅞x25¼x27 deep
Inside, in. . . . . 23x18x16 deep
Cash box, in. 5x5
One book space, in 12x22⅜x16
One book space, in. 10½x5
One drawer, in. 3x5
One pigeon hole, in 3x5

Each

No. 244—Approximate weight 890 lbs . . . . . **+$261 00**

+F. O. B. Ohio Factory Only.

FIRE PROOF SAFES

COLUMBIAN SAFE AND LOCK COMPANY

With Single Outside and Inside Doors.

Outside, in. . . . . 39¼x26x28¼ deep
Inside, in. . . . . 25¼x19¼x16 deep
Cash box, in. 5x5
One book space, in 13¼x21⅜
One book space, in 9½x5
Two drawers, in 3x5
One pigeon hole, in 3x5

Each

No. 245—Approximate weight 1005 lbs. . . . . **+$408 00**

With Single Outside and Inside Doors.

Outside, in . . . . . 39¼x26x28¼ deep
Inside, in . . . . . 25⅞x20½x16 deep
Cash box, in 6x6
Two book spaces, in. 6¼x19
One book space, in. 12½x5
Two drawers, in. 3x6
Two pigeon holes, in. 6¼x2⅜
Four pigeon holes, in. 3x2⅜

Each

No. 246—Approximate weight 1000 lbs. . . . . **+408 00**

With Single Outside and Inside Doors.

Outside, in. . . . . 41⅛x28¾x29¼ deep
Inside, in. . . . . 26⅛x21x18 deep
Cash box, in. 6x6
One book space, in. 9½x20
One book space, in. 12x14½
One book space, in 9¼x7⅝
Two drawers, in. 3x6
Two pigeon holes, in 3x5⅝
Two pigeon holes, in 2⅞x5⅝

Each

No. 247—Approximate weight 1270 lbs. . . . . **+$326 40**

With Double Outside and Inside Doors.

Outside, in. . . . . 48⅞x32x30 deep
Inside, in. . . . . 32½x23½x16 deep
Cash box, in 6x6
Two book spaces, in 7½x18
Two book spaces, in 7½x13½
One book space, in. 6x12
Two drawers, in 3x6
Two pigeon holes, in. 3x6

Each

No. 248—Approximate weight 1745 lbs. . . . . **+$596 40**

With Double Outside and Inside Doors.

Outside, in . . . . . 46¾x34x30 deep
Inside, in . . . . . 30x24¾x17½ deep
Cash box, in 6x6
Two book spaces, in 12x19¾
Two book spaces, in 8¾x9¼
One drawer, in 3x6

Each

No. 249—Approximate weight 1650 lbs. . . . . **+$595 80**

+F. O. B. Ohio Factory Only.

D 4

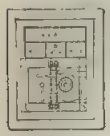
FIRE PROOF SAFES

COLUMBIAN SAFE AND LOCK CO.

With Burglar Chests.

Same general construction as safes shown on preceding pages with the exception of being fitted with burglar chests.

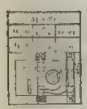
The chests are of five-ply steel, the door is hung on crane hinges, closed with lever eccentric pressure. Door and frame is made a tenon and groove style, asbestos packed. The bolt work is double acting, made of 1-inch cold rolled round calendar steel, and securely locked with an unpickable combination lock. The dial and handle are so made that they cannot be driven in or out.



With Single Outside and Inside Door.

Outside, inches	39¼x26x28¼ deep
Inside, inches	22⅝x16½x16 deep
Chest, inside, inches	12x16x8½
One shelf, inches	4x16
Two pigeon holes, inches	4x6¼
One drawer, inches	4x5

No. 206C—Approximate weight 1600 lbs. Each ✣$897 75



With Single Outside and Inside Door.

Outside, inches	41½x28½x29¼ deep
Inside, inches	25½x20x16 deep
Chest, inside, inches	12x16x8½
One shelf, inches	3½x19½
Four pigeon holes, inches	3½x6½
Two drawers, inches	3½x6½

Each

No. 207C—Approximate weight 1900 lbs. ✣$930 75

With Single Outside and Inside Door.

Outside, inches	58x30½x30 deep
Inside, inches	35½x20¾x16 deep
Chest, inside, inches	12x16x8½
Two book spaces, inches	6½x18½
Three pigeon holes, inches	2½x4¼
One pigeon hole, inches	2½x6
Five drawers, inches	3½x6

Each

No. 208C—Approximate weight 2400 lbs. ✣$1085 40

With Single Outside and Inside Door.

Outside, inches	67½x32x30 deep
Inside, inches	47x19x16 deep
Chest, inside, inches	12x16x8½
Two book spaces, inches	6x22
Eight pigeon holes, inches	4⅞x5
Six drawers, inches	3⅞x6

Each

No. 209C—Approximate weight 3100 lbs. ✣$1264 80

✣F. O. B. Ohio Factory Only.

FIRE PROOF SAFES

COLUMBIAN SAFE AND LOCK CO.

With Double Outside and Inside Doors.

Outside, inches	47 x31x30½ deep
Inside, inches	29x14x16 deep
One book space, inches	6x14⅛
One book space, inches	5⅝x10
One book space, inches	5½x8½
Three pigeon holes, inches	3x5½
One pigeon hole, inches	4½x5¾
Three drawers, inches	3x6
One drawer, inches	4½x6

Each

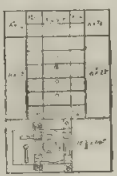
No. 210C—Approximate weight 2400 lbs. ✣$1256 70

With Double Outside and Inside Doors.

Outside, inches	54x35⅝x31¾ deep
Inside, inches	35x28x16 deep
Two book spaces, inches	6½x20⅛
Two book spaces, inches	7x10¾
Three pigeon holes, inches	3x4⅝
Four drawers, inches	3x7

Each

No. 211C—Approximate weight 3000 lbs. ✣$1338 75



With Double Outside and Inside Doors

Outside, inches	67¼x42½x33 deep
Inside, inches	44x28⅝x16 deep
Two book spaces, inches	6x22
One book space, inches	10⅜x14
Two pigeon holes, inches	6x7¾
Sixteen pigeon holes, inches	3⅞x4
Eight drawers, inches	3⅞x7

Each

No. 214C—Approximate weight 4200 lbs. ✣$1566 75

LIGHT WALL SAFES

COLUMBIAN SAFE AND LOCK CO.

For Filing Safes.

Substantially constructed of heavy steel; with unpickable lock. Made in three sizes as shown below.

Prices are for safes only. Cabinet work can be arranged to suit purchaser, in either wood or metal at a nominal additional cost.

Nos.		251	252	253
Outside dimensions, in.	Height	62½	67½	77
	Width	27½	32	40½
	Depth	24	23	27
Inside dimensions, ins.	Height	48	53	61
	Width	20	25	33
	Depth	16	16	19
Approximate wt., lbs		1500	1800	2350
Each		✣$546 75	603 90	1028 25

✣F. O. B. Ohio Factory Only.

D 5

ELECTRIC PORTABLE LAMPS

Two lights. Hexagon shade of cast metal open work, over panels of art glass. Fancy cast metal base with reeded column.

Extreme height 22 ins.; size shade 16 inches. Complete with two chain pull sockets, 6 feet of parallel silk covered lamp cord and attachment plug. **Incandescent lamps not included.**

Each

No. 145—Lonhuda green bronze finish; with light amber art glass..... $29 70

One in a carton; wt. each 24 lbs.

One light. Round shade of cast metal open work over panels of hand painted glass.

Ornamental cast metal base and column.

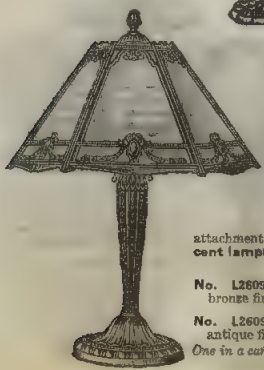
Height over all 20 inches; size of shade 12 inches.

Complete with push socket 6 feet of silk covered lamp cord and attachment plug.

Each

No. 1497½—Green and gold finish.....$32 70

One in a carton; weight each 11 lbs.



Two lights. Hexagon shade of cast metal open work over panels of light amber art glass. Ornamental cast metal base and column. Height over all 23 inches; size shade 16 inches. Complete with two chain pull sockets, 6 feet of silk covered lamp cord and attachment plug. **Incandescent lamps not included.**

Each

No. L2609AB—Antique bronze finish.....$29 10

No. L2609GA—Grecian antique finish..... 29 10

One in a carton; wt. each 20 lbs.

ELECTRIC PORTABLE LAMPS

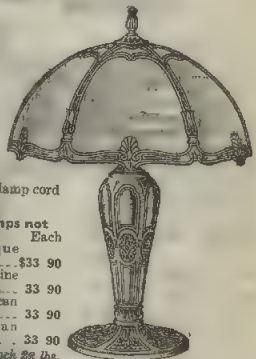
Two lights. Hexagon shade of cast metal open work over panels of light amber glass. Ornamental cast metal base and column. Height over all 22½ inches; size shade 16 ins. Complete with two chain pull sockets, 6 feet of silk covered lamp cord and attachment plug. **Incandescent lamps not included.**

Each

No. L2596AB—Antique bronze finish $33 75

No. L2596GA—Grecian antique finish 33 75

One in a carton; wt. each 25 lbs.



Two lights. Hexagon shade of cast metal open work over panels of light amber art glass. Ornamental cast metal base and column.

Height over all 21 inches; size shade 16 inches. Complete with two chain pull sockets, 6 feet of silk covered lamp cord and attachment plug.

Incandescent lamps not included. Each

No. L2610AB—Antique bronze finish.....$33 90

No. L2610FR Florentine relief finish..... 33 90

No. L2610EB Etruscan bronze finish..... 33 90

No. L2610GA Grecian antique finish..... 33 90

One in a carton; wt. each 22 lbs.

Two lights. Octagon shade of cast metal open work, over panels of art glass. Fancy cast metal base with reeded column.

Extreme height 26 inches; size shade 20 inches. Complete with two chain pull sockets, 6 feet of parallel silk covered lamp cord and attachment plug. **Incandescent lamps not included.**

Each

No. 150—Antique gold finish; with light amber art glass..... $42 60

One in a carton; weight each 28 lbs.

ELECTRIC PORTABLE LAMPS

Two lights. Hexagon shade of cast metal open work over panels of light amber glass. Ornamental cast metal base and column. Height over all 21½ inches; size shade 16 inches. Complete with two chain pull sockets, 6 feet of silk covered lamp cord and attachment plug. **Incandescent lamps not included.**

Each

No. L2568½AB—Antique bronze finish $44 10
No. L2568½GA—Grecian antique finish 44 10
One in a carton; weight each 22 lbs.

Two lights. Hexagon shade of cast metal open work over panels of light amber glass. Ornamental cast metal base and column. Height over all 22 inches; size shade 16 inches. Complete with two chain pull sockets, 6 feet of silk covered lamp cord and attachment plug. **Incandescent lamps not included.**

Each

No. L2605AB—Antique bronze finish $44 10
No. L2605GA—Grecian antique finish 44 10
One in a carton; weight each 25 lbs.

Two lights. Hexagon shade of cast metal open work, over panels of art glass. Fancy cast metal base with reeded column.

Extreme height 26 inches; size of shade 18 inches. Complete with two chain pull sockets, 6 feet of parallel silk covered lamp cord and attachment plug. **Incandescent lamp not included.**

No. 154—Brush brass and black finish, with blue art glass $48 60
One in a carton; weight each 26 lbs.

ELECTRIC PORTABLE LAMPS

Two lights. Round shade of cast metal over panels of painted landscape glass. Ornamental cast metal base and column. Height over all 22 inches; size of shade 14 inches. Complete with 2 chain pull sockets 6 feet, of silk covered lamp cord and attachment plug.

Each

No. 1492½—Brown and gold finish .. $60 30
One in a carton; weight each 14 lbs.

Two lights. Hexagon shade of cast metal open work over panels of light amber art glass. Ornamental cast metal base and column. Height over all 23 inches, size shade 18 inches. Complete with two chain pull sockets, 6 feet of silk covered lamp cord and attachment plug. **Incandescent lamps not included.** Each

No. L2604AB—Antique bronze finish $54 90
No. L2604GA—Grecian antique finish 54 90
One in a carton; wt. each 23 lbs.

Two lights. Hexagon shade of cast metal open work over panels of light amber art glass Ornamental cast metal base and column. Height over all 23 inches; size shade 18 inches. Complete with two chain pull sockets, 6 feet of silk covered lamp cord and attachment plug. **Incandescent lamps not included.**

Each

No. L2603AB Antique bronze finish $60 30
No. L2603GA—Grecian antique finish 60 30
One in a carton; weight each 20 lbs

ELECTRIC PORTABLE LAMPS

Two lights. Round shade of cast metal open work, over panels of art glass.

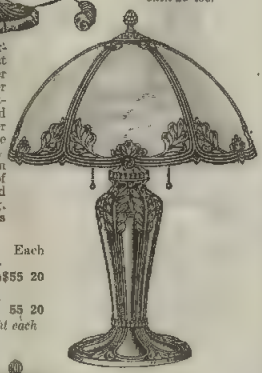
Fancy cast metal base with reeded column.

Extreme height 25 inches; size shade 18 inches. Complete with two chain pull sockets, 6 feet of parallel silk covered lamp cord and attachment plug. **Incandescent lamps not included.**

Each

No. 167—Brush brass and black finish; with hght amber art glass . $54 45

One in a carton; weight each 25 lbs.



Two lights. Hexagon shade of cast metal open work over panels of light amber art glass. Ornamental cast metal base and column. Height over all 22 inches; size shade 17 inches. Complete with three chain pull sockets, 6 feet of silk covered lamp cord and attachment plug. **Incandescent lamps not included.**

Each

No. L2606AB—Antique bronze finish $55 20

No. L2606GA—Grecian antique finish 55 20

One in a carton; weight each 25 lbs.

Three lights. Octagon shade of cast metal open work over panels of light amber art glass. Ornamental cast metal base and column. Height over all 24 inches; size shade 20 inches. Complete with three chain pull sockets, 6 feet of silk covered lamp cord and attachment plug. **Incandescent lamps not included.**

Each

No. L2608AB—Antique bronze finish $63 00

No. L2608GA Grecian antique finish . 63 00

One in a carton, weight each 27 lbs.

ELECTRIC PORTABLE LAMPS

Two lights. Round shade of cast metal over painted glass panels.

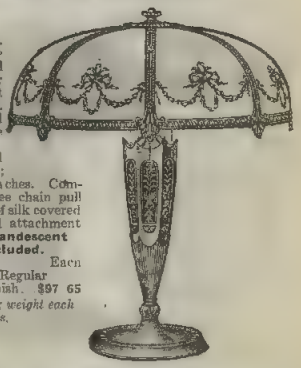
Ornamental cast metal base and column.

Height over all 22¾ inches; size of shade 16 inches. Complete with 2 chain pull sockets, 6 feet of silk covered lamp cord and attachment plug.

Each

No. 1490—Green and gold finish $68 25

One in a carton; weight each 16 lbs



Three lights. Octagon shade of cast metal open work over panels of light amber art glass. Ornamental cast metal base and column. Height over all 25½ inches; size shade 21 inches. Complete with three chain pull sockets, 6 feet of silk covered lamp cord and attachment plug. **Incandescent lamps not included.**

Each

No. L2540MG Regular McKinley finish . $97 65

One in a carton; weight each 25 lbs.

REED

Two lights; diameter shade 18 ins.; height over all 21½ inches; width base 8 inches.

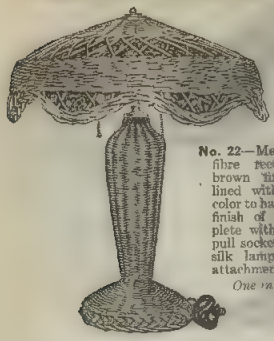
Incandescent lamps not included.

Each

No. 21—Made of round fibre reed; oak finish shades lined with silk of a color to harmonize with finish of lamp; complete with two chain pull sockets; 6 feet of silk lamp cord and attachment plug. . . $34 65

One in a carton; wt. each 15 lbs.

ELECTRIC PORTABLE LAMPS



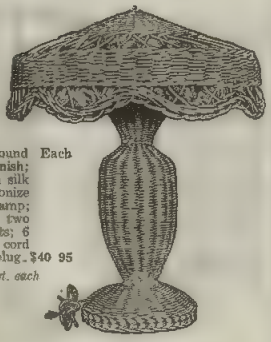
Two lights; diameter shade 18 inches; height over all 23 inches; width base 8 inches.

Incandescent lamps not included.

Each

No. 22—Made of round fibre reed, baronial brown finish; shade lined with silk of a color to harmonize with finish of lamp, complete with two chain pull sockets; 6 feet of silk lamp cord and attachment plug.....$41 25

One in a carton; weight 17 lbs



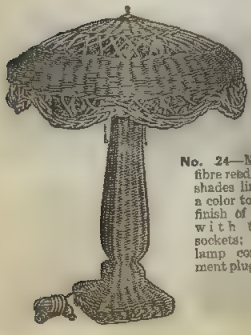
Two lights; diameter shade 18 inches; height over all 23 inches; width base 8 inches.

Incandescent lamps not included.

Each

No. 23—Made of round fibre reed, gray finish; shades lined with silk of a color to harmonize with finish of lamp; complete with two chain pull sockets; 6 feet of silk lamp cord and attachment plug.$40 95

One in a carton; wt. each 17 lbs.



REED

Two lights; diameter shade 18 inches; height over all 42 inches; width of base 7 inches.

Incandescent lamps not included.

Each

No. 24—Made of round fibre reed old Ivory finish; shades lined with silk of a color to harmonize with finish of lamp; complete with two chain pull sockets; 6 feet of silk lamp cord and attachment plug.....$42 60

One in a carton, weight each 18 lbs.

ELECTRIC PORTABLE LAMPS

Two lights; diameter shade 26 in.; height over all 72 inches.

Incandescent lamps not included.

Each

No. 3-11—Made of fibre reed, ivory finish; shades lined with a beautiful pattern of cretonne; complete with two chain pull sockets; 6 feet of silk lamp cord and attachment plug.....$64 65

Crated; shipping weight each about 15 lbs.

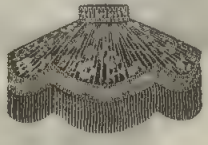
Two lights; diameter shade 26 in.; height over all 72 inches.

Incandescent lamps not included.

Each

No. 3-10—Made of fibre reed, Baronial brown finish, shades lined with handsome patterns of cretonne; complete with two chain pull sockets; 6 feet of silk lamp cord and attachment plug.....$63 00

Crated; shipping weight each about 15 lbs.



Each

No. 62—**Base only,** mahogany stock and base; complete with two chain pull sockets; 6 feet lamp cord and attachment plug, height 29 inches.....$10 80

No. 20-20R—**Shade only,** diameter 20 inches; rose with gold lining.....16 20

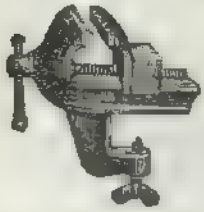
Stock and base crated; shades in cartons; shipping weight each 12 lbs.

VISES

RALLIS

No. 1—1½ in. jaws, steel screw with handle, w't per doz. 7 lbs., per dozen $27.00
HALF DOZEN IN A BOX

BONNEY PATTERN



No. 1—1½ in. jaws, steel screw with wrought iron head, w't per doz. 15 lbs. .....per dozen $12.00
LOOSE

Steel screw with wrought iron head.

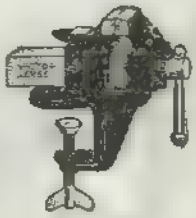
Nos.	1½	02
Width jaw, in.	2¼	2
W't doz., lbs.	18	24
Per dozen	$13.50	18.80

LOOSE

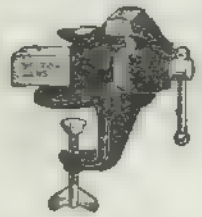
Steel screw with wrought iron head, swivel attachment.

Nos.	03	04
Width jaws, in.	2½	2¾
W't, doz., lbs.	33	60
Per dozen	$22.50	34.50

LOOSE



No. 741



No. 761

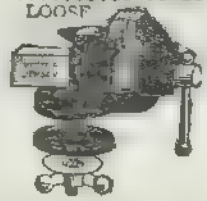
ALL CLAMP BOTTOM, PLAIN IRON JAWS

Nos.	741	742	743
Width jaw, in.	1½	1¾	2
W't, doz., lbs.	36	39	42
Per dozen	$27.40	32 40	38.00
Nos.	745	746	
Width, jaw, in.	2½	3	
W't, doz., lbs.	60	105	
Per dozen	$53.80	83.80	

ALL CLAMP BOTTOM, STEEL FACED JAWS

Nos.	761	762	763
Width, jaw, in.	1½	1¾	2
W't, doz., lbs.	36	39	42
Per dozen	$34 80	39 80	46 80
Nos.	765	766	
Width, jaw, in.	2½	3	
W't doz., lbs.	60	105	
Per dozen	$63.80	93 80	

LOOSE



Swivel base, steel faced jaw.

Nos.	772	773	775	776
Width, jaw, in.	1½	2	2½	3
W't, doz., lbs.	38	42	66	114
Per dozen	$39.80	48.00	70.30	96.00

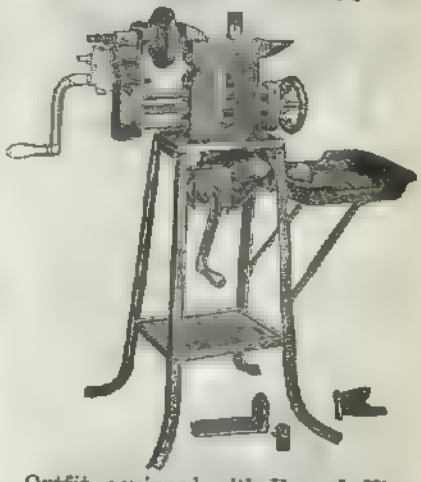
LOOSE

Fitted with loose malleable iron nut and solid steel screw. Face of jaw ground so that the jaws come up square, screw works easy and smooth. Body finished with a brown baked japan, working parts highly polished.

No. A12 Assortment—Consisting of display stand and 12 Victor Vises, w't 65 lbs. ..per assortment $43.60
Consisting of the following—

2 No. 741	1 No. 744	1 No. 761
2 No. 742	1 No. 745	1 No. 763
2 No. 743	1 No. 746	1 No. 772

CHAMPION IMPROVED COMBINATION BLACKSMITH OUTFITS



Outfit, equipped with Forged, Vise, Anvil, Pipe Vise, Drill Press and Emery Grinder, strictly a high grade combination tool built for service.

Gears are all cut. Forge pan 12x14 inches, large enough to take a plowshare. Pan cut away so that a plowshare can be put into it. The Blower-head attached is a real cut-gear, high speed outfit that runs silent, is speeded high enough to produce a white pressure heat so that welding can be done on any work.

Emery wheel is screwed on stud between vise jaws attached to high speed gear on this gear box, two substantial bearings—one on each side of vise jaws—support this wheel, making it a rigid, practical, durable grinder.

Screw accurately cut and two heavy shafts support vise so that jaws meet perfectly without lost motion.

Pipe vise operates without any change whatever. No parts are removed or lost and this machine takes pipe up to two inches.

Legs are angle steel, well riveted to top plate and tool tray, two steel rods support forge pan.

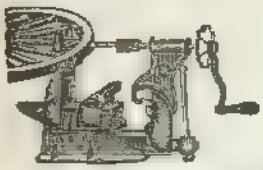
Height over all	40 in.
Height to top of Forge Hearth	26 in.
Width of Vise Jaws	4 in.
Extreme opening of Vise Jaws	4½ in.
Capacity of Pipe Vise	2 in.
Capacity of Drill Press	½ in.
Greatest distance from Spindle to Table	11 in.
Spindle bored to take	½ in.
Face of Anvil	8x5½ in.
Size of Hardie	¾ in.
Size of Forge Hearth	12x14 in.
Depth of Forge Hearth	2½ in.
Speeds obtained by gearing	1 to 1, 1 to 4 and 1 to 14
Size of Emery Wheel	6x1 in.
Floor Space	19x32 in.
Weight Crated	185 lbs.

No. W19—Each $46.00

REVONOC ANVIL AND VISE

No. A24 REVONOC—4 in. steel faced milled jaws, opens 12 in., back jaw adjustable to any desired position, securely held in position by corrugations on either side, pipe holding device holds from ¼ to 2 in. pipe, ⅝ in. solid steel screw, face of anvil chilled and polished, size not including horn 8x3 in., painted green, w't each 51 lbs., each $8.00

ONE IN A BOX

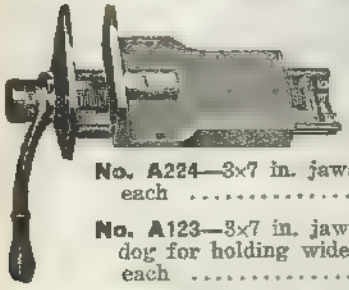


REVONOC DRILL ATTACHMENTS

No. A124 REVONOC—For use with No. A24 REVONOC Anvil and Vise, w't 15 lbs. .....each $4.80

ONE IN A CARTON

WOODWORKERS' VISES



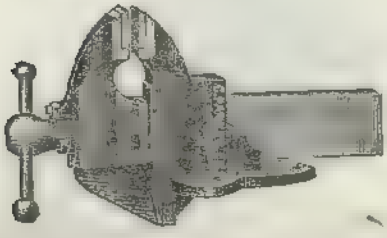
SHELDON'S rapid acting, rigid jaws, forged steel rack, accurately milled, 5/16 to 5/16 in. thrust.

No. A224—3x7 in. jaws, opens 9 in., w't 24 lbs., each $12.80

No. A123—3x7 in. jaws, opens 8½ in, with steel dog for holding wide material, w't 27 lbs., each $15.00

PACKED LOOSE

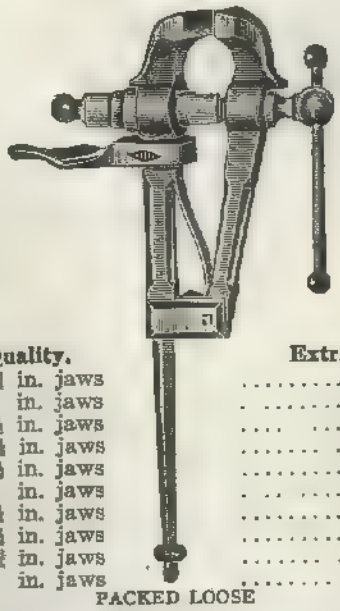
CABINET MAKERS' VISES



No. A40½—Parker's 4½ in. jaws, opens 9½ in., ⅝ in. screw, w't 57 lbs. .....each $23.30

PACKED LOOSE

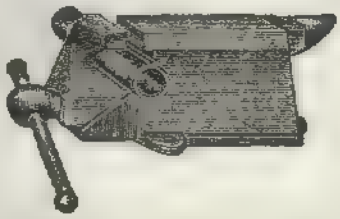
SOLID BOX VISES



	Extra Quality.	Extra Finish.
No. A35—3½ in. jaws		each $ 8.80
No. A40—4 in. jaws		each 9.30
No. A45—4½ in. jaws		each 9.70
No. A50—4½ in. jaws		each 10.00
No. A55—4¾ in. jaws		each 10.60
No. A60—5 in. jaws		each 11.40
No. A70—5½ in. jaws		each 13 20
No. A80—5¾ in. jaws		each 15.40
No. A90—5¾ in. jaws		each 17.60
No. A100—6 in. jaws		each 19.40

PACKED LOOSE

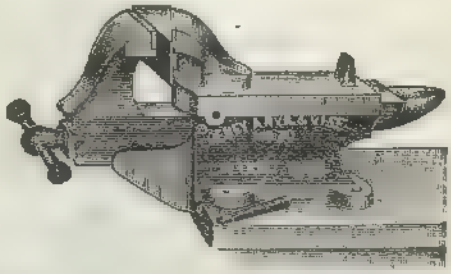
ANVILS AND VISES



AUSTIN'S hardened face and jaws.

No. A13—3 in. jaws, 4 in. opening, piper's jaws, 7¼x3 in., anvil face, w't 22 lbs. .....each $3.60

PACKED LOOSE



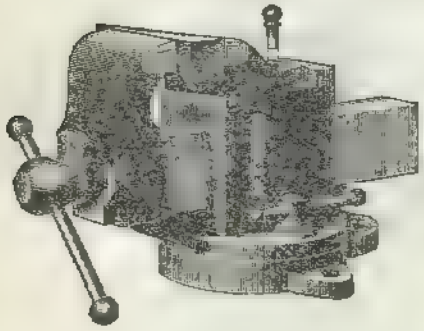
CHENEY'S, self-adjusting back jaw, tempered steel face, chilled steel anvil, smooth face, solid steel hardy or cutting-off tool.

The back jaw of the vise is self-adjusting and in use conforms by automatic action to any angle and makes firm any objects held, whether it be straight, beveled or wedge shape.

Nos.	**A120**	**A130**	**A140**
Face, in.	6¼x3	8x3⅛	8¼x4
Jaws, in.	3⅜	3⅜	4½
Opens, in.	4	5	6
W't, lbs.—less crate	26	35	51
Each	$16.40	18.70	23.40

ONE IN A CRATE

VISES



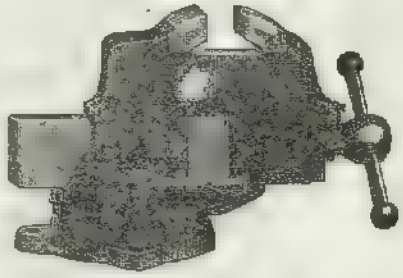
Swivel base, self-adjusting back jaw, polished steel faces, milled and fitted.

Nos.	A270	A271	A272	A273	A275
Jaws, in.	3½	3⅝	4½	5	6½
Opens, in.	3½	5	6	7	9¼
Weight, lbs.	28	51	60	80	176
Each	$23.30	26.60	37.30	46.60	80.00

LOOSE

PARKER'S COMBINATION

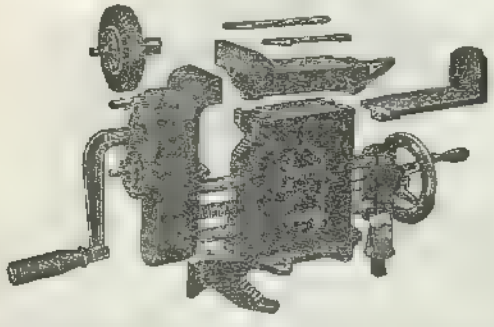
Swivel base, polished steel faces, round and piper's jaws, milled and fitted.



Nos	A87	A88
Jaws, in.	3⅜	4⅛
For pipe, in.	2	3
Opens, in.	4⅜	6⅞
Weight, lbs.	48	71
Each	$24.00	30.00

PACKED LOOSE

COMBINATION

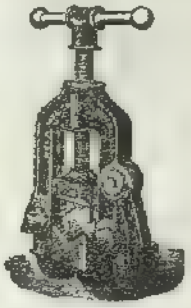


No. A125—Stewart Handy Worker, consists of a combination anvil, vise, pipe vise, emery wheel and drill, 4 in. jaw opens 4½ in., pipe vise takes pipe up to 1½ in., drill press may be operated at two speeds, 5 in. carborundum wheel may be operated at three speeds. main body made of gray iron casting, entire tool and attachments are first quality material finished in green enamel, w't each 91 lbs. ..... each $40.50

ONE SET IN A BOX

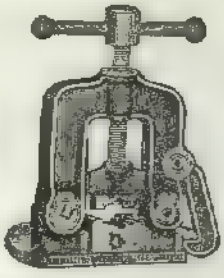
PIPE

Malleable iron frame, polished solid tool steel milled jaws, oil hardened, self locking, all parts interchangeable.



Nos.	A211	A212
For pipe, in.	⅛ to 2½	⅜ to 3½
W't each, lbs.	8	14
Each	$6.30	10.30

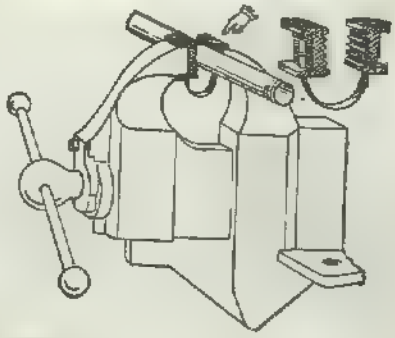
LOOSE



No. A25—Malleable iron, steel jaws, hinged frame with hook lock, for pipe ⅛ to 2 in., w't 6 lbs. ..... each $4.80

LOOSE

ELGIN PIPE VISE JAWS



No. 15—Two pieces of toothed steel 1½×1⅝ in., riveted together with a steel spring, for use with any vise, w't per doz. 18 lbs. ..... per dozen $5.00

PACKED ONE DOZEN IN A BOX

VISES

REVONOC MACHINIST

REVONOC SWIVEL BASE, dead black finish, removable polished steel face jaws, milled and fitted.

The swiveling device is patented and is operative at all points, a REVONOC feature. It can be converted to the use of a left hand workman. These vises are exceptionally first-class in every respect.

Nos.	A172½	A173	A173½	A174	A174½	A175
Jaws, in.	2½	3	3½	4	4½	5
Opens, in.	3½	4	5	6	6½	7½
W't, lbs.	18	27	42	58	76	104
Each	$16.00	17.30	20.00	22.60	26.60	40.00

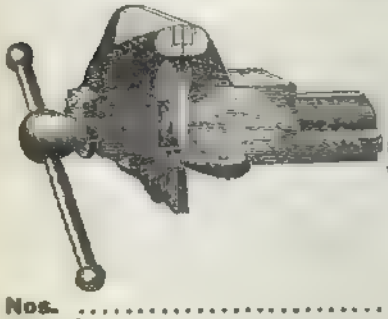
PACKED LOOSE

REVONOC STATIONARY BASE, dead black finish, removable polished steel face jaws, milled and fitted.

Nos.	A162½	A163	A163½	A164	A164½	A165
Jaws, in.	2½	3	3½	4	4½	5
Opens, in.	3½	4	5	6	6½	7½
W't lbs.	15	23	35	43	61	82
Each	$12.00	13.30	16.00	17.00	20.70	26.60

PACKED LOOSE

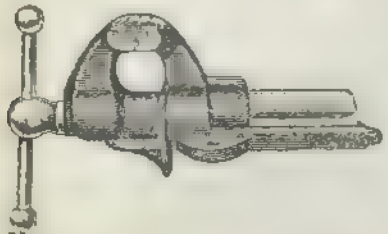
OVAL SLIDE



PARKER'S polished steel jaws, covered wrought iron screw.

Nos.	A30	A31	A32
Jaws, in.	2⅜	3	3½
Opens, in	3½	4	4
W't, lbs.	8½	13	20
Each	$5 60	6.80	8.30

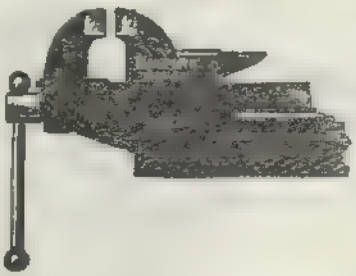
LOOSE



Grey iron castings, cold rolled steel screw, crucible steel jaws, steel nut, black satin finish, polished face and jaws.

Nos.	A230	A231	A232
Jaws, in.	2½	3	3½
Opens, in.	3½	4	4½
W't, lbs.	8	14	22
Each	$4.00	5.00	6.00

OVAL SLIDE



EMPIRE, solid cast steel, hardened jaws nicely finished.

Nos.	A025	A030	A035	A040
Jaws, in.	2½	3	3½	4
Opens, in.	3½	4½	4½	5½
W't, lbs.	8	10	14	20
Each	$7.50	9.00	12 00	15.00

PACKED LOOSE

YANKEE

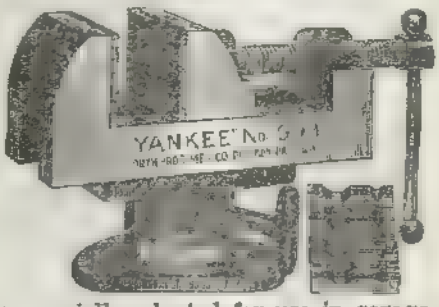
All parts are accurately machined.

For use on Bench Drills or attached separately to bench.

No. 990—Main body and sliding jaw cast iron, size 6×2½×2 in high, jaws open 3 in., removable case hardened swivel jaw, w't per doz. 48 lbs. .....each $4.40

ONE IN A BOX

YANKEE SWIVEL



Vise is especially adapted for use in garage and home and for tool makers and machinists. While used on the bench the Vise proper can be quickly detached from base, and without removing work from Vise, can be used on Bench Drill, etc., and returned to base again.

No. A1993—7¼ in. long, 5¾ in. high, 2¾ in. wide, 1⅞ in. deep opens 3½ in., steel face jaws and screw, main body machined finish, japanned base, steel block with V shaped grooves for holding round or irregular work, main body can be removed for use on drill press, swivel base is operated by small lever, size boxed 9×5×6 in., w't each 15 lbs. .....each $12.50

ONE IN A BOX

GARAGE VISES

Stationary Base with central Bolt, Nut and Washer for fastening to beneh, also provided with bolt holes for permanently securing to bench. 3 in. steel jaws, opens 3½ in. Can be used as either Stationary or Swivel Bottom Vise.

No. A161½—W't each 12 lbs. .....each $7.20

LOOSE

FOR FORD CARS

Only those standard, thoroughly dependable, Ford accessories that bring return sales and no grief are found on the following pages. And on each item we have used our tremendous buying power to secure such low costs that we in turn can name these unbeatable prices. That's why Butler Brothers is such a good place to buy Ford Supplies.

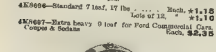
"TUTHILL" GUARANTEED SPRINGS
For All Ford Cars

We will replace free of charge any spring that breaks because of defects in workmanship or material

Front Springs—Made of high grade special analysis spring steel, oil tempered. 1 in pkg

4K8696—Standard 7 leaf, 17 ins . . . . . Each, $1.15
Lots of 12, " $1.10

4K8697—Extra heavy 9 leaf for Ford Commercial Cars, Coupes & Sedans . . . . . Each, $2.35



Rear Springs—Made of high grade special analysis steel, oil tempered. 1 in pkg

4K8695—Standard 8 leaf, 41½ ins . . . Each, $4.26

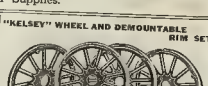
4K8696—Extra heavy, 10 leaf, for Ford Commercial cars, Coupes, Sedans and Trucks. . . . . Each, $6.75

"TITANIC" GUARANTEED FRONT SPRING

4K8695—Made of special quality alloy steel, black enameled 7 leaf, no center bolt or center slip to weaken patent arch, wedge plate takes place of center bolt. These springs are guaranteed for one year against breakage due to spring or axle point. 1 in pkg

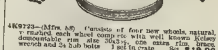
Each, $3.75

"KELSEY" WHEEL AND DEMOUNTABLE RIM SET



4K8723—(Mfrs. No.) Consists of four new wheels, natural or painted, each wheel consisting of one well drilled demountable rim and 36 spokes, one tube, rim strap, wrench and 24 rub bolts . . . . . Per set, $18.00
6 set lots, 16.50

"W-X" SHOCK ABSORBER SETS



High grade malleable iron black enameled, strong coil pressed upright or supporting diagonal leaves, preventing chafing, will last a good long time. Easily attached. Set of 4 in box with directions for attaching

4K8813—For Roadster
4K8823—For Tourist car

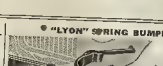
Set, $4.85

SERVICEABLE RUNNING BOARDS

4K8215—For Roadster, redwood covered with genuine Brown cork linoleum, bound with pure aluminum molding, screwed on, bolt holes drilled ready for attachment, covered bolts supplied, easy to attach. 1 pr in carton

Pr, $4.60

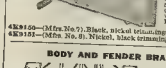
"LYON" SPRING BUMPERS



Oil tempered steel uniformly hi-speed made in 2 sections, over lapp ing at the center, the ends of opposing bars of double strength construction, fur nishes 4 inches of spring action on each side. Bumpers are easily attached with screws. 1 in box, 60 lbs.

4K9150—(Mfrs. No.?). Black, nickel trimmings. Each, $7.00
4K9151—(Mfrs. No. 6). Nickel, black trimmings. " 6.40

BODY AND FENDER BRACE



4K8816—Fits all model Ford cars. Absolutely guaranteed best quality heat treated steel. Patent channel construction, formed upper and lower sides and ends, no sharp corners. Bolts to drive shaft and frame. Easily installed. 1 in pkg.

Each, $2.66

"W. & C." SHOCK ABSORBER SETS

High grade malleable iron, thoroughly annealed, coil spring type, cold rolled steel bolts, oil tempered spring. Solves shock absorber problem. Two front two rear complete with springs and all attachments and directions for installation. 1 set in carton

4K8416—For Roadster and Touring cars
4K8417—For Coupe and Sedan

Set, $5.75
6.75

TOURING CAR FENDER SETS

20 gauge steel, 8 coats lustrous black enamel baked on.

Front Only—2 fenders. 1 pr in crate
4K8689—For 1916 and earlier Fords. Pr, $6.10
4K8691—For 1917 and later Fords. " 6.10

Rear Only—2 fenders. 1 pr in crate
4K8502—For all Fords . . . . . Pr, $5.40

Complete Set—Front and rear, 4 in set. 1 set in crate
4K8503—For 1916 and earlier Fords. Set, $10.60
4K8504 For 1917 and later Fords. " 10.60

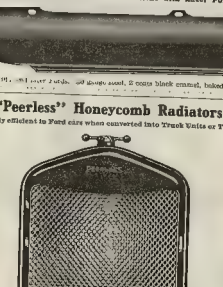
RUNNING BOARD SHIELD—For 1917 and Later Fords

4K8599—For 1917 and later Fords. 20 gauge steel, 2 coats black enamel, baked on. 1 pr in crate

Pr, $3.60

"Peerless" Honeycomb Radiators

Particularly efficient in Ford cars when converted into Truck Units or Tractors



Honeycomb core, practically indestructible and very strong and efficient large water capacity, cool surface 50% more than type of core now used as standard equipment, guaranteed to keep engine cool under the most severe conditions. Never will not burn it. 1 in crate

Black Enamel—
4K8605—Use 2000 construction for 1916 and earlier Fords
4K8612—Black enamel shell for 1917 and later Fords

Each, $12.25

Nickel Shell—
4K8607—For 1917 and later Fords

Each, $14.25

"STANDARD" HOOD
For 1917 and later Fords

4K8445—Heavy gauge steel. 3 coats black enamel, 4 piece construction, hoop iron reinforced, sturdily built. 1 in crate. Each, $3.50
Lots of 6, 3.40

"PEERLESS" COMMERCIAL REAR FENDER
Exact duplicate of factory equipment

4K8586—Heavy gauge steel, 3 coats lustrous black enamel baked on, for runabout Ford chassis, stanchion front fenders of the Ford car readily attached. 1 pr in crate. Set, $4.00

BLACK ENAMELED STEEL TOOL BOX

4K9795—22x9x . Heavy sheet steel, black enamel, electrically welded seams and joints baked on strong body and cut case hinge. 1 in carton

Each, $1.66
Lots of 6, $1.45

FOR FORD CARS

ELECTRIC HEAD LAMP For 1915 and Later Models

4K8325—Searchlight, 15 c. p., 6 volt. Mounts both 6 and 12 gallon. 1 pc. drawn steel body, black enameled and nickel-plated; equipped with 6 ft. of rubber-covered cord and 3 adjustable sheared pieces of cord attached. 1 pr. in box. Pr. $2.35

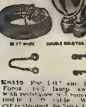
DRUM HEAD LAMP For 1915 and Later Models

4K8326—High grade drum lamp, with chrome finish, strong bracket, 1 pc. drawn steel body, 6 in. diameter, 9 in. high, silvered reflector type with 21 c. p. 6 volt muzzle bulb. 1 lg. in carton ..... Each $5.75

ELECTRIC TAIL LAMP

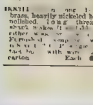
4K8330—For 1915 and later Ford cars. Drawn steel body. Black enameled. Convenient adjustable cross bracket. Complete with 2 c. p. Tungsten bulb, white side lens. 1 in box.
Each, 65c
Less of 12. ..... 50c

TAIL LAMP ASSEMBLY



4K8310—For 1915 and later Ford cars. Tail lamp assembly with reflector, 3 mounting and 1 license bracket. Wire cut to suggested length when purchased from any dealer. Also with ruby glass lens. Each, $1.45

"PRESTO" DASH LAMP



4K8311—Drawn steel, brass, heavily nickeled head nickeled. 1 pc. threaded stem, makes it easy to adjust to any angle. Complete with 6 volt bulb and socket. Packed 1 in carton. Each 65c.

TIMERS

"U. S. A."—Drawn steel case, black enamel finish, nickel-plated brass cover, contacts, high grade, self-sharpened short circuit roller.
4k8954 1 in box Each 75c
Less of 10. ..... 73c
50. ..... 70c

DRUM HEAD LAMP

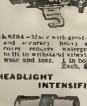
Goodrich"—Pressed steel case, polished; perfect construction and adjustment, nickel hot spurlin, starboard. Each
4k8950—1 in box 85c
Less of 10 ..... 82c

"Red Star"—Pressed steel shell, japanned and nickel-plated, front silvered fiber reflector, clear glass and nickel-plated bezel carbon proof, nickel steel body and nickel steel bracket.
4k8952 1 in box Each, $1.25
12 in attractive counter display carton Each, $1.25

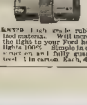
"Stewart"—Pressed steel shell, nickel-plated, with silvered reflector, assembled with all parts ground and polished.
4k8953—1 in box $1.28
Less of 12 ..... 1.20
50 ..... 1.30

"KINGSTON" GENERATOR CUTOUT

Factory equipment on Ford cars equipped with Liberty starter



4k8304—Mica with great current and accuracy heavily silver contacts, adjustable from 10 to 18 volts; will not wear out, lasts. 1 in box
Each, 89c



4k8979—Inch cable rubber-lined conduit. Will increase the light in your Ford headlights 100 per cent. Made in two sizes, one and fully guaranteed. 1 in carton. Each, 48c

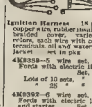
"PARAMOUNT" MOTOR DRIVEN HORN

Guaranteed one year

4k8930—8 in. vanadium steel, baked black enamel finish, underhood type. 6 volt. Each horn equipped with 6 ft. of rubber-covered wire with terminals for connecting to battery and ground on frame. Packed 1 horn per carton. Each, $3.35

WIRING OUTFITS

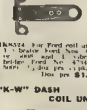
Spark Plug Set—Braided covers, copper terminals, nuts to connect engine. 1 set in pkg.
4K8380—6 wire sets, .20c
Lots of 50 sets, 18c



Ignition Harness—18 gauge copper wire rubber insulated, braided cover, varnished cotton, each wire with copper terminals and waterproof jacket, set in pkg.
4K8358—6 wire sets. Ford 6 with shortest. Each, 32c
Lots of 10 sets, 31c
" 50 " 30c
4K8992—6 wire set. For Fords with electric lights and starter ..... Set, 41c
Lots of 50 sets, 36c

Ignition Harness, Metallic Covered—Heavy copper wire, rubber insulated in metallic tube, impervious to moisture and oil. Waterproof. 1 set in pkg.
4K8307—6 wire set. For Fords with electric lights. Set, 50c
Lots of 50 sets, " 46c

"K-W" COIL SPRING CONTACTS



4K8324 For Ford coil units 1 "brake lever" horn 4K8340 for "step and" horn. Ford bridge Ford No. 4K8341 or horn 4K8342 pkg. 1 horn pre $1.70

"K-W" DASH COIL UNIT

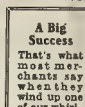
4K8781—For all Fords cars or Fordson tractors, hard wood case, brass connections, 6 volts, 4 amperes. "K-W" Tungsten points and large black grade mica. Also used throughout 1 in pkg. ..... Each, $3.25

CARBURETORS

"Holley"—Model N. H. Only one type of moving parts; easy to fit mushroom throttle, fixed air valve, adjustable main nozzle, accelerator and easiest to flush out. Complete.
4K8947—1 in box. Each, $5.75

Improved Type "Kingston" Model "Holley" Unit—The great success and wonderful development of Ford chassis produces phenomenal results, and requires more mileage, quicker gas-way, power or speed than former carbs. A thoroughly tested and proved efficient, economical unit.
4K8324—1 in box. Each, $3.76

"HUDSON" CRANK CASE REPAIR ARM

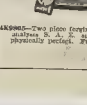


4K8992 Heavy cast metal arm, bolts through crank case screw, also over any side the old working job, fits any Ford car. 1 in box.
Each, $1.15

A Big Success

That's what most merchants say when they wind up one of our whirlwind sale plans. Ask our Customer's Service Department about them.

"HUMBOLDT" FOOT ACCELERATOR



4K8434—Rustly attached by mousetrap two cylinder head bolts 1 in box. Each, 80c

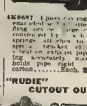
CONNECTING ROD

4K8985—Two piece forgings, 30 to 40 carbon steel. Babbitt shafting S. A. E. specifications, mechanically correct, physically perfect. Fully guaranteed. 1 in carton
Each, 93c
Lots of 10, " 88c
" 25, " 83c

MUFFLER

4K8344 3 gauge, 12x8 in. sheet steel cylinder, reducing exhaust to 2 pipe. Complete with brackets. 1 in carton.
Each, $1.00
Lots of 10, .95

"APCO" 1 PIECE MUFFLER & CUT-OUT



4K8947 1 piece round body muffler of "Armco" iron, with cut-out and lever complete with springs, cut-out to fasten upon a tube of muffler. Cut-out extends approximately 3 inches from body. Inside pipe right. 1 in carton. Each, $3.50

"RUDIE" CUTOUT OUTFIT

4K8540—1 1/2 in. brass valve, nickel-plated, 1 inch pipe thread, 1 1/2 inch flange, 1 inch pipe thread, 1 1/2 inch flange, 1 inch pipe thread, 1 1/2 inch flange

FOR FORD CARS

"A C" SPEEDOMETER

4K8675—A high grade magnetic instrument, fully jewelled and registering to 100 miles per hour, 1,000,000 total mileage, trip to 100 mile trip, reflector inside, resettable. Black face with white figures full of night lines, nickeled. Complete with driving shaft, gears and attachments. 2 in. size.
Each $10.50
Lots of 6, " 10.00
" 100, " 9.00

SPEEDOMETER SWIVEL JOINT

4K8629 For other Fords or with hand to fit Stewart speedometer cable, Stewart speedometer. Full directions with each swivel.
1 in box ..... Each $1.00

"VICTOR" UNDERSLUNG BATTERY BOX

For Ford Cars with Liberty Starters

4K8695—9½ x 7½ x 9¼ in. black rust resisting enamel finish, easily installed without drilling or making alteration to battery cradle, has locks fastened against rain, wind, dirt, etc. Each $1.75
Lots of 6, " 1.10

"LAZEAR" LOCK WHEEL

For All Model Fords

4K8203 Combination one nuts 17 in diameter wheel of best walnut rim picked spokes, with 3 in. hub, fitted by undersized wrenches, wire allow 1/32 on inner nose premium. 1 in pkg.
Each $9.75

"SIMPLEX" THEFT PROOF LOCK

For all model Fords

4K8686—Locks front wheels in straightforward position, when car can be installed in 10 minutes guaranteed for life of car against wear or defects and locksmith proved by Underwriters Laboratories. Complete with Lazear spoon spanner. 1 in box with 2 keys and directions for installing.
Each $3.80

TRANSMISSION LINING SETS

A strips cut to correct length with brass rivets, made with out wires to prevent short circuit

"Power"—Full weave, durable, open grain, long wearing, resists burning and glazing, prevents chattering.
4K8128—1 set in box
Each 60c

"Snoddinsia"—Long staple cotton fabric impregnated especially hardened to resist heat, oil and grit.
4K8129—1 set in box
Lots of 6 ..... $1.50
" 12 ..... 1.35

Cork Insert—Interwoven cotton, round solid cork inserts, outwears three sets of ordinary linings.
4K8123—1 set in box
327 O pcs $2.25
12 sets box 1.85

SNAKE SHOES

4K8211 Holds tire and protects inner tube from chafing against rim. Made of extra heavy canvas, rubber coated, with rubber cushion board, attached by covering the windshield bracket bolts. Quick connection with [illegible]
Each $1.25

GUARANTEED SPINDLE BODIES

High grade perfect alignment, requires no additional reaming. Special treated and ground bushings, accurately fitted to accurate [illegible] steel crown [illegible] reamed, ground and [illegible] 1/2 in [illegible] Ford Spindle.
4K7145—Right, Ford No. 2004 ..... Each $1.10
4K7144—Left, Ford No. 2005 ..... Each $1.10

"AM-PE-CO" LIGHT WEIGHT PISTONS

OVERSIZE PISTON FOR Ford Car

Each
4K8281 —Standard size $1.30
4K8280—Cylinder
4K8282—.0020 oversize,
4K8283—.0037 oversize
Lots of 12.

RADIATOR HOSE

Heavy quality grade 3 ply rubber construction. Specially treated to withstand hot water, oil, etc.
4K8635 — Inlet hose, size 1 dia. x 8 in. box 80c
4K8636 — Outlet hose, size 1 dia. in box.
Lots of 12 ..... $1.25

FAN BELTS

Specially Treated Fabric Belts, cotton cord reinforced section, cannot stretch, guaranteed smooth [illegible] to gas in carbon
4K8479—1916 and earlier Fords Doz. $2.95
4K8478—For 1917 to 1923 Fords incl. Doz. $3.50

Silent Running Belt—Selected and tanned leather [illegible] Fords [illegible]
4K8516 For 1st to 1915 Ford belt ..... Doz. $3.60
4K8466—For 1921-23 model Ford cars ..... Doz. $3.95

"White Striped Cord Belt"—Made of thin fabric and rubber, an elastic belt that lets motor run at its best speed for Fords and not affected by [illegible] gas [illegible]
4K8676—For 1917-18-19 and 20 models.
4K8671 For 1921 and 1922 models. Doz. $6.00

FAN ASSEMBLY

4K8683 [illegible] and end [illegible] Ford [illegible] [illegible] [illegible]

FOR FORD CARS

RUBBER MATS

Heavy sheet grade rubber, reinforced at heel wearing spots, slots for lever and pedals, 2 mats to set.
4KB096 Front Roadster or Touring. Fits 1915-1916 Ford cars. 1 pr. in box **87c**
4KB087 For Roadster and Touring. Fits 1909 and 1911 Ford cars. 1 in pkg **87c**

4KB088—For Roadster, Touring Car 1909 and 1910 Ford Cars. 1 in pkg. Each **$1.00**
4KB089—For 1910 and later model Ford Coupe. 1 in pkg. Each **$1.07**
4KB091 For 1913 and later models Ford Sedan. 2 mats, specially cover for. 1 in pkg **$2.33**

TONNEAU FOOT MAT

Fits all model T Ford cars, fabric carpet, leather color, semi black design, heavy service weight material, reinforced back stitch edging. 1 mat to set. Each.
4KB084 18x30 in **60c**
4KB085—24x30 " **90c**

ONE MAN TOPS—For 1916 and Later Fords

For Ford Roadster. 1 improved one man rain-shield; two curtain lights; rear panel with fifty side curtains with celluloid lights. 1 in pkg

4KB450—37 oz., black rubber cloth, Each. **$18.00**

For Ford Touring Car—Improved style four bolt frame celluloid rear curtain; 1 pkg. snapped with latest style curtains with celluloid lights. 1 in pkg

4KB451—37 oz. best quality back rubber Each. **$22.50**
4KB704 TAN same material " **25.50**

COIL BOX PROTECTOR

4KB395 Best grade double strength glass, black gasoline proof enamel finish. Installed. Guaranteed three windows in set. 1 set in a cap. Each **$36**

RUBBER PEDAL PADS

4KB038—S o s p. in style corrugated positively prevents feet slipping off pedals. Quality of rubber. 1 in set. 1 set in box. **2c**

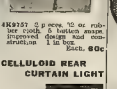
4KB023 "Perfection" high grade rubber, deep corrugated rib tread, heel stop and arch over the foot. Heel guard of heavy solid rolled steel frame enclosed. Attached to pedal by metal prongs. 1 set in box. per. **75c**
12 set lots, " **67c**

"HASTINGS" REAR GLASS WINDOW SET

For 1917 & Later Models

4KB398 Best grade double strength glass, black gasoline proof enamel finish. Installed. Guaranteed three windows in set. 1 set in a cap. Each **$36**

CELLULOID REAR CURTAIN LIGHT



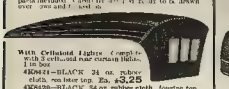
4KB391 For 1917 and later model Ford cars. Size 10½ x 14½ in. Celluloid reinforced to rubber cloth frame. Easily put on. Per Doz. Each. **$2.16**

"KANT-SLIP" PEDAL

4KB021—Heavy sheet steel, 12-in with corrugated surface. Has extended flange for pedal and bend securely by tightening two countersunk set screws in top of pedal. 1 pair in box. Pr. **86c**

TOP RECOVERS For 1915 and Later Fords

Complete with duck sides, mortised sash slots and back fastener. All bindings, tacks and stitching parts included. Cover is ready to put on and to drawn over gas and bend up.



With Celluloid Lights Complete with 2 celluloid rear curtain lights. 1 in box
4KB421—BLACK 24 oz. rubber cloth, mohair top. Ea. **$3.25**
4KB420—BLACK, 24 oz. rubber cloth, lowrise top. Each. **$4.30**
4KB422—BLACK, 24 oz. mohair cloth, lowrise top. Each. **$5.50**

With Glass Lights—Complete with 2 5½x10 oval bevel plate glass lights, standard frames. 1 in box.
4KB599—BLACK, 24 oz. rubber cloth, lowrise top. Each. **$5.90**

LEATHERETTE CUSHIONS

Same type as seat cushion in Ford cars. Good grade cloth covering of oil pebbled genuine springs. Each.
4KB439—9 p. c. Each. **$4.50**
4KB440—For rear touring seat " **5.00**

TOP PADS

Made of good quality black lace drill, filled with long folded gray wadding permitting much smoother and softer seat than ordinary mohair pads. 1 in pkg.
4KT39—Roadster Pr. **$1.50**
4KT39—Four cyl " **2.00**

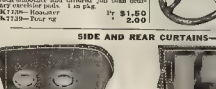
WALNUT STEERING WHEEL

4KB529 17 in., set of reinforced spokes, finished in fine dull rubbed walnut varnish, with hub and bolt heads of nickel. Has 3 bolt holes in hub. Fits all Ford cars. 1 in carton. Each. **$2.25**

SEAT COVERS For 1717 to 1921 incl., Ford Touring Cars

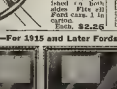
4KB081 Set of best grade rubber cloth, fine grain, with back grain effect, with 2 side and 1 back curtain, all with celluloid lights. Has back cover for top when folded down. Complete with all fittings and hardware to fasten. Easily installed. Does not require any sewing. Can be attached by anyone. One set complete with fasteners. Each. **$6.50**

SIDE AND REAR CURTAINS—For 1915 and Later Fords



4KB507-4KB419

4KB418



4KB425

Side 4 curtains—22 oz. rubber cloth, big celluloid lights, same as original Ford curtains, except that they are 2 in. wider. 1 set in carton.
4KB424—For roadsters 2 pieces set " **$3.85**
4KB425 For tour car or 4 pieces in set " **6.00**
Rear 4 curtains—1 piece 32 oz. rubber cloth with tacks, binding, eyelets, fasteners for 10 in. ring. Each. **$2.90**
4KB427—2 oval 5x13½ bevel plate glass windows, nickel plated brass frame Each. **$2.90**

FOR ROADSTERS—1 in box
4KB419—1 oblong rear window celluloid Lens of in. Each. **$1.60**
4KB418—2 oval 5½ plate bevel plate glass window lights, nickel plated brass frame Each. **$2.90**

"PARAMOUNT" BODIES FOR FORD CARS

4KB5

4KB633

Slip-on-Bodies—For any Model T Ford Roadsters, 30x18 in. loading space, 6 in. hardwood floor boards, 1 skid in hardwood, compartment, hinges of body 16 in., hardwood stock, heavy strap hinges. Painted black. Comes completely set up ready for installing. 115 lbs. In stock in Jersey City for immediate shipment.
4KB699—94 in. long Each. **$11.85**

Express Bodies—With Cab and Top for any Model T Ford. 42x68 in. loading space, full width rear end gate, with chains, combining end to sill,one body to any style load, hardwood sills, cleats and floor boards, panels 12 in. high inside, corrugated metal bound, entire body well ironed and braced, floor protected by iron strips, with side steel braces on each side, body back entire width of seat. Painted black. Furnished with top irons, top boards and irons and parts for attaching. Crated, k. d., under 94 in., 500 lbs. Shipped from factory, Chicago, Ill.
4KB635—Body only, dash not included Each. **$42.00**
4KB636—Windshield for above " **15.00**

Express Bodies—With Cab and Top for any Model T Ford, 42x68 in. loading space, full width rear end gate, with chains, combining end to sill, one body to any style load, hardwood body sills, panels 22 in. high, heavy floor boards, 6 cross bars, heavy bread irons, rubber covered dash. Black enameled. Flash roll-up curtains all around, separate roll-up curtains with iron wires lights on both sides, full width, large, heavy back, drives a seat. Painted black. Furnished with rear lamp bracket, top boards and irons for attaching. Crated, k. d., under 94 in., 500 lbs. Shipped from factory, Chicago, Ill.
4KB634—Body only Each. **$82.00**
4KB636—Windshield for above " **15.00**

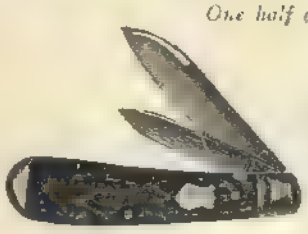
4KB634

POCKET KNIVES
HAMMER BRAND

Two blades, large spear point, glazed and etched, and belt punch, steel bolster, brass lined, redwood handle with shield, weight per dozen 2 pounds

No. 6444. 3¼ inch . . . . . per dozen, **$18.00**

One half dozen in a box



Two blades, spear point, glazed, nickel silver bolster brass lined, stag handle with shield, weight per dozen 1¼ pounds

No. 25. 2⅞ inch . . . . . per dozen, **$19.20**

One half dozen in a box

Two blades, large clip point, small spear point, glazed, nickel silver bolster, brass lined, stag handle with shield, weight per dozen 1¼ pounds

No. 26. 2⅞ inch . . . . . per dozen, **$19.20**

One half dozen in a box

Two blades, large sheep foot, small spear point, glazed, nickel silver bolster, brass lined, stag handle with shield, weight per dozen 1¼ pounds

No. 27. 2⅞ inch . . . . . per dozen, **$19.20**

One half dozen in a box

Two blades, spear point, glazed and etched, steel bolster, brass lined, stag handle with shield, weight per dozen 3⅛ pounds

No. 6030. 3½ inch . . . . . per dozen, **$20.40**

One half dozen in a box

Two blades, large clip point, small spear point glazed and etched, nickel silver bolster and cap brass lined, stag handle with shield, weight per dozen 2 pounds.

No. 2789. 3¼ inch . . . . . per dozen, **$27.60**

One half dozen in a box

POCKET KNIVES
HAMMER BRAND

Two blades, spear point, glazed and etched, nickel silver bolster and cap, brass lined, stag handle with shield, weight per dozen 2¼ pounds.

No. 2957. 3½ inch . . . . . per dozen, **$22.40**

One half dozen in a box

Two blades, spear point, glazed and etched, nickel silver bolster and cap, brass lined, stag handle with shield, weight per dozen 1½ pounds.

No. 2423. 3¼ inch . . . . . per dozen, **$20.80**

One half dozen in a box

Two blades, spear point, glazed and etched, steel bolster and cap, brass lined, redwood handle with shield, weight per dozen 2½ pounds.

No. 228. 3⅜ inch . . . . . per dozen, **$21.60**

One half dozen in a box

Two blades, spear point, glazed and etched, nickel silver bolster and cap, brass lined, stag handle with shield, weight per dozen 2⅞ pounds

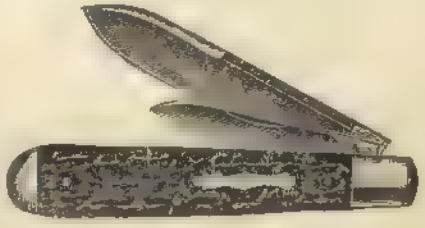
No. 2538. 3¼ inch . . . . . per dozen, **$27.60**

One half dozen in a box

Two blades, large saber, small spear, glazed and etched, nickel silver bolster and cap, brass lined, stag handle with shield, weight per dozen 2¾ pounds.

No. 2553. 3½ inch . . . . . per dozen, **$27.00**

One half dozen in a box



Two blades, spear point, glazed and etched, nickel silver bolster and cap, brass lined, stag handle with shield, weight per dozen 3⅛ pounds.

No. 2997. 4¼ inch . . . . . per dozen, **$30.00**

One half dozen in a box

POCKET KNIVES
HAMMER BRAND

Two blades, spear point, glazed and etched, nickel silver tips, brass lined, stag handle with shield, weight per dozen 1¼ pounds.

No. 261. 3¼ inches.... .....per dozen, **$26.40**
One half dozen in a box

Two blades, congress pattern, glazed and etched, nickel silver bolsters, brass lined, pearl handle, weight per dozen 1 pound

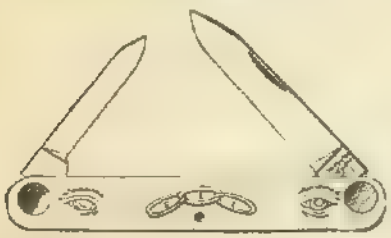
No. 2292. 3 inches.....per dozen, **$33.60**
One half dozen in a box

Two blades, spear point glazed, brass lined, stag handle with shield, weight per dozen 1⅛ pounds

No. 6187. 3¼ inches... .....per dozen, **$22.80**
One half dozen in a box

Two blades, spear point, polished and etched, nickel silver bolsters, brass lined, pearl handle, weight per dozen 1⅛ pounds.

No. 2353. 3¼ inches..... . . . .per dozen, **$42.00**
One half dozen in a box



Emblems

Two blades, spear point, glazed, large nickel silver rivets, brass lined, silver shell handle, 3¼ inches, weight per dozen ⅞ pound.

No. 6171. I O O F emblem . .per dozen, **$25.20**
No. 6171. B P O E emblem . . .per dozen, **25.20**
No. 6171. K of P emblem . . per dozen, **25.20**
No. 6171. Masonic emblem . .per dozen, **25.20**
No. 6171. Shriner emblem .... . . per dozen, **25.20**
No. 6171. W. O. W. emblem. . . . .per dozen, **25.20**
One half dozen in a box

Emblems

One large spear point blade and nail file, blade polished, nickel silver tips and lining, pearl handle, 3 inches, weight per dozen ⅞ pound

No. 2270. I. O. O. F. emblem . . per dozen, **$60.00**
No. 2270. B. P. O. E. emblem . . per dozen, **60.00**
No. 2270. K. of P. emblem.. . .. per dozen, **60.00**
No. 2270. Masonic emblem . ... per dozen, **60.00**
No. 2270. Shriner emblem . . .. per dozen, **60.00**
No. 2270. W O. W. emblem .. . .. per dozen, **60.00**
One half dozen in a box

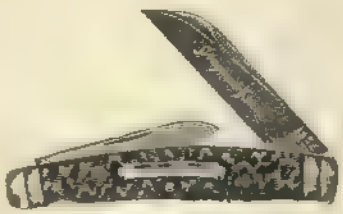
POCKET KNIVES
HAMMER BRAND

Two blades, congress pattern, and nail file, glazed and etched, steel bolsters, brass lined, stag handle with shield, weight per dozen ⅞ pound.

No. 3300. 3 inches .....per dozen, **$26.40**
One half dozen in a box

Two blades, spear point and nail file, polished, nickel silver lined, pearl handle, with ring, weight per dozen ¾ pound

No. 3025R. 3 inches. .....per dozen, **$64.00**
One half dozen in a box



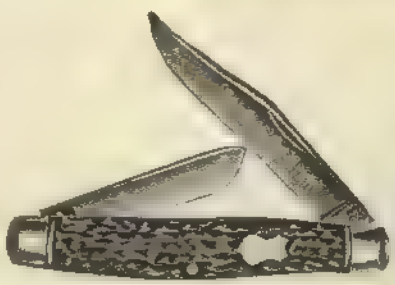
Congress

Two blades, congress pattern, glazed and etched, steel bolsters, brass lined, stag handle with shield, weight per dozen 1⅛ pounds.

No. 6100. 3½ inches.....per dozen, **$18.00**
One half dozen in a box

Two blades, spear point, glazed and etched, nickel silver bolsters, brass lined stag handle with shield weight per dozen 1¼ pounds.

No. 2022. 3¼ inches.....per dozen, **$22.40**
One half dozen in a box



Two blades, large clip and large spey, glazed and etched, nickel silver bolsters, brass lined, stag handle with shield, weight per dozen 1¼ pounds.

No. 2513. 3¾ inches..... ..per dozen, **$28.80**
One half dozen in a box

Two blades, large clip point and large spear point, glazed and etched, nickel silver bolsters, brass lined, stag handle with shield, weight per dozen 1¼ pounds.

No. 2399. 3⅝ inches .. ..per dozen, **$27.60**
One half dozen in a box

POCKET KNIVES
HAMMER BRAND

Three blades, large clip point, large spey point and small spear point, glazed and etched, nickel silver bolsters, brass lined, stag handle with shield weight per dozen 1⅛ pounds

No. 3510. 3¼ inches — per dozen **$33.60**

One half dozen in a box

Three blades, two large clip points, small spear point, glazed and etched, nickel silver bolsters, brass lined, stag handle with shield, weight per dozen 1⅝ pounds.

No. 307. 3½ inches.... .....per dozen **$36.00**

One half dozen in a box

Three blades, all large, clip, spey and sheep foot, glazed and etched, nickel silver bolsters, brass lined, stag handle with shield, weight per dozen 2¼ pounds.

No. 3515. 3¾ inches... .....per dozen, **$36.00**

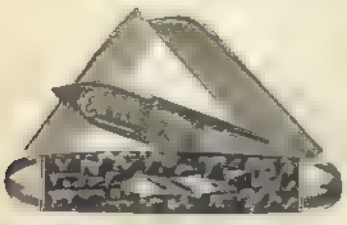
One half dozen in a box

Cowboy

Three large blades, clip, spear and spey, glazed and etched, nickel silver bolsters, brass lined, ebony handle with shield, weight per dozen 2⅛ pounds

No. 3222. 3⅛ inches . ....per dozen **$33.60**

One half dozen in a box



Cattle

Three large blades, spear, spey and sheep foot points, glazed and etched, nickel silver bolsters, brass lined, stag handle with shield, weight per dozen 2¼ pounds.

No. 3220. 3 inches . .....per dozen, **$34.80**

One half dozen in a box

Two blades, large clip point and large spey point and belt punch, glazed and etched, nickel silver bolsters, brass lined, stag handle with shield, weight per dozen 1⅛ pounds.

No. 3513. 3¼ inches..... . . per dozen, **$34.80**

One half dozen in a box

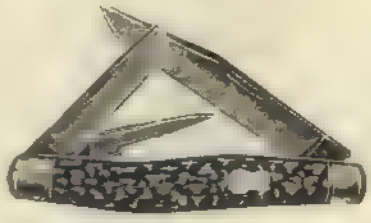
POCKET KNIVES
HAMMER BRAND

Cattle

Two large blades, clip point and spey point and belt punch, glazed and etched, nickel silver bolsters, brass lined, stag handle with shield, weight per dozen 2¼ pounds

No. 3822. 3¾ inches.....per dozen, **$44.00**

One half dozen in a box



Two large blades, clip point and spey point and a belt punch, glazed and etched, nickel silver bolsters, brass lined, stag handle with shield, weight per dozen 2 pounds.

No. 3521. 3¾ inches ..per dozen, **$36.00**

One half dozen in a box

Two large blades, spear and spey, belt punch, glazed and etched nickel silver bolsters, brass lined, stag handle with shield weight per dozen 2 pounds

No. 3402. 3¼ inches..... .....per dozen, **$33.60**

One half dozen in a box

Three blades, spear points, and nail file, glazed, nickel silver bolsters, brass lined, stag handle with shield. weight per dozen ⅜ pound

No. 422. 2¼ inches. . per dozen, **$30.00**

One half dozen in a box

Buffalo Bill

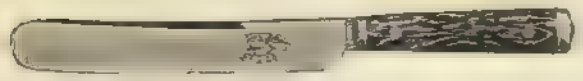
Combination knife with four blades; large clip, large sheep foot, belt punch and can opener, nickel silver bolsters, brass lined, stag handle with shield and ring, weight per dozen 4¼ pounds.

No. 4018. 4¾ inches.....per dozen, **$60.00**

One half dozen in a box

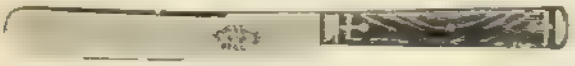
TABLE KNIVES AND FORKS

MEDIUM



Polished scimitar swaged blades, 5¾ inches long; four tine forks; white metal bolsters and caps; weight per set about 2 pounds

No. 1150C. Stag handles.....per set, **$3.75**



Polished scimitar swaged blades, 5¾ inches long; four tine forks; white metal ornamental bolsters and caps; weight per set about 2 pounds

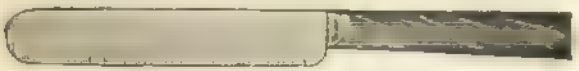
No. 1937C. Ebony handles.....per set, **$4.40**

Polished straight blades, 5¾ inches long, three tine forks; white metal bolsters and caps; weight per set about 2 pounds.

No. 1633. White bone handles.....per set, **$5.00**

Polished straight blades, 5¾ inches long; three tine forks; white metal bolsters and caps; weight per set about 2 pounds

No. 1908C. Cocobolo handles.....per set **$3.40**



Polished straight blades, 5¾ inches long; three tine forks; white metal bolsters; weight per set about 1¾ pounds.

No. 1908B. Cocobolo handles.....per set, **$3.10**

Polished straight blades, 5¾ inches long; three tine forks, weight per set about 1½ pounds

No. 1908. Cocobolo handles.....per set, **$2.50**

Shell Pattern, Nickel Plated

No. 12. Medium knives four tine forks, weight per gross 16½ pounds .....per set, **$2.30**

Plain Pattern, Tinned

No. 700. Medium knives, four tine forks, weight per gross 22 pounds.....per set, **$1.80**

One set (six knives and six forks) in a box

TABLE KNIVES ONLY

No. 1908C. Cocobolo handle, metal bolster and cap.....per dozen, **$3.00**
No. 1908B. Cocobolo handle, metal bolster, per dozen, **2.60**
No. 1908. Cocobolo handle, no bolster.....per dozen, **2.00**

One dozen in a box

CARVERS IN SETS

UNIVERSAL

Universal carvers in sets include knife, fork and steel. Knives are forged crucible steel, forks have patent guards and the steels are the celebrated Lee's cut. Knife, fork and steel match each other in details, and each set is packed in a lined display box.

No. 011½. 9 inch beef carvers, with sterling silver mountings and stag handles, weight per set 2½ pounds .....per set, **$12.50**

No. 01149. 8 inch beef carvers, with sterling silver mountings and stag handles, weight per set 2½ pounds.....per set, **$11.50**

No. 01136. 8 inch beef carvers, with sterling silver mountings and stag handles, weight per set 2½ pounds.....per set, **$10.00**

No. 046. 9 inch beef carvers, with forged Yankee bolsters and stag handles, weight per set 2½ pounds.. . . per set, **$9.50**

No. 015R. 8 inch beef carvers with forged Yankee bolsters and stag handles, weight per set 2½ pounds.. .....per set, **$8.00**

One set in a lined display box

CARVERS IN PAIRS

Rogers 1847 Silver Plated Ware. Heraldic Pattern

This pair consists of knife and fork only. The knife is high grade crucible steel, with silver soldered, hollow handle.

No. 734-79. Heraldic game carvers, weight per pair 2 pounds .....per pair, **$16.50**

One pair in a lined display box

Aluminum Handles

Aluminum handle knives and forks, with tang of steel blades extended through the handles.

No. 3501. Knife with 8 inch blade, fork 9½ inches long, weight per pair 1 pound.....per pair, **$2.80**

One pair in a lined box

R. & W. HAWTHORN

NEWCASTLE

LONDON OFFICE:
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BUILDERS OF CRUISERS, TORPEDO BOAT DESTROYERS, PASSENGER STEAMERS, OIL TANKERS, INSULATED STEAMERS, LIGHT DRAUGHT RIVER CRAFT, and all Types of CARGO VESSELS.

SHIP REPAIRERS. Length of Graving Dock on Blocks, 460 ft., Width of Entrance, 68 ft.; Depth of water, 21 ft. Spring Tides, 18 ft. Neap Tides.

FORGE MASTERS. Stern Frames, Rudder Forgings, Etc.

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BUILDERS OF TURBINES AND RECIPROCATING . . ENGINES, WATER TUBE AND CYLINDRICAL BOILERS, PROPELLING MACHINERY FOR WARSHIPS, PASSENGER AND CARGO STEAMERS OF ALL KINDS.

BUILDERS OF LOCOMOTIVES of every description for Colonial and Foreign Railways, Patent Locomotives, Cranes, Petrol and Electric Locomotives and Rail Motor Coaches. Combined Crane and Tank Locomotives always in Stock.

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SHIPBUILDERS, ENGINEERS, BOILERMAKERS AND IRONFOUNDERS.

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Code : *Code.* Código: **A.B.C. (4th and 5th Editions).**

(AC)

Canadian Pacific Railway, Single Screw Passenger and Cargo Steamer for service in British Columbia

Dimensions :—245 feet B.P. × 44 feet × 19 feet mld.

Speed :—13½ Knots.

Bateau à vapeur pour passagers et pour marchandises de la Compagnie de Chemins de fer Canadien Pacifique à une hélice, en service en Colombie Britannique.

Dimensions :—74,6 × 13,4 × 5,8 mètres.

Vitesse :—13½ knots

Ferrocarril Canadiense del Pacifico (Canadian Pacific Railway), vapor de una hélice para pasajeros y carga para el servicio de British Columbia.

Dimensiones :—74,6 × 13,4 × 5,8 metros.

Velocidad :—13½ nudos

(BB)

Side Wheel Paddle Steamer, built for New Zealand, suitable for Quick Channel Passenger and Mail Service.

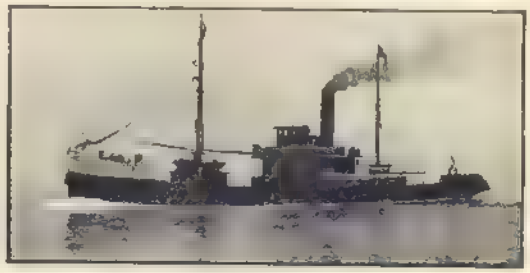
Speed :—15 Knots.

Bateau à vapeur à aube fabriqué pour la Nouvelle Zélande convenant un service rapide de passagers et de poste à travers un détroit.

Vitesse :—15 knots.

Vapor de paletas, construidos para Nueva Zelanda, apropiados para un transporte rápido de pasajeros y servicio postal.

Velocidad :—15 nudos.



(EF)

Twin Screw Shallow Draft Cargo Steamer for service on South American Rivers or where large carrying capacity on limited draught is required.

Dimensions : -210 feet B.P. × 34 feet × 11 feet 6 inches mld.

D.W.: 750 Tons on 9 ft. draught. Speed :—10½ Knots.

Bateaux à vapeur à léger tirant d'eau à deux hélices pour service sur les rivières Sud-Américaines sur lesquelles sont exigées des transports à de grandes capacités à tirant d'eau limité

Dimensions :—64 × 10,4 × 3,5 mètres.

750 tonnes en 2,7 mètres. Vitesse :—10½ knots.

Vapor de carga de poco calado, de dos hélices, para el servicio de los rios Sud Americanos, ó en donde con calado limitado se necesita obtener la mayor capacidad para el transporte de carga.

Dimensiones :—64 × 10,4 × 3,5 metros.

750 toneladas en 2,7 metros. Velocidad :—10½ nudos.

(OD)

Twin Screw Passenger and Cargo Steamer, built for Vancouver Service for Canadian Pacific Railway Co.

Dimensions : 210 feet P.B. × 40 feet × 16 feet mld.

Speed : 15 Knots.

Bateau à vapeur à deux hélices pour passagers et marchandises fabriqué pour le service de Vancouver pour la Compagnie de Chemins de fer du Canadien Pacifique

Dimensions : [illegible] 4,9 mètres

Vitesse :—15 knots

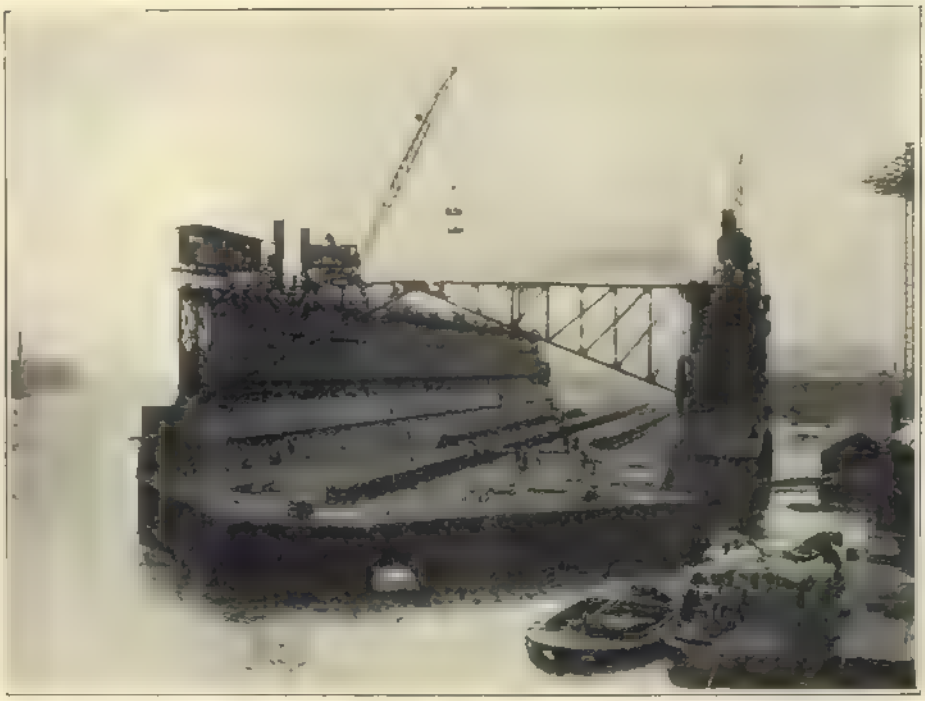
Vapor para pasajeros y carga, de dos hélices, construido por la compañía de ferrocarril Canadiense del Pacífico (Canadian Pacific Railway Co.), y destinado al servicio de Vancouver.

Dimensiones :—64 × [illegible] 4,9 metros.

Velocidad [illegible] 15 nudos

SWAN, HUNTER, & WIGHAM RICHARDSON, Ltd.,

WALLSEND-ON-TYNE, England.



British Admiralty Floating Dock to lift 33,000 tons.
Dock flottant de l'Amirauté Britannique pour soulever 33,000 tonnes
Dique flotante del Almirantazgo Británico para levantar 33 000 toneladas

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Graving Docks 560 and 490 feet long. Two Floating Docks.

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Deux docks flottants.

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Diques de 171 y 149 metros de largo.
Dos diques flotantes.

HIBBARD CHARCOAL BLACK HATCHETS

Extra Quality Forged Tool Steel, Smooth Charcoal Black Finish, With Select White Hickory Handle.

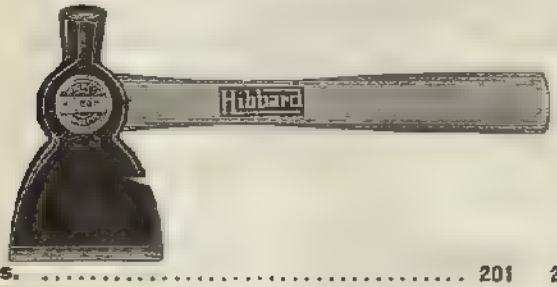
SPECIAL HIBBARD HATCHET ASSORTMENT

A convenient assortment for the dealer in a single case. Tools of our Hibbard Brand are first quality and fuly warranted for exacting service as well as a most attractive in appearance. Made from extra quality forged tool steel, smooth charcoal black finish, with select white hickory handle.

No. 262—Case contains ⅛ doz. No. 202 Shingling, ⅛ doz. No. 212, ⅛ doz. No. 222 Half, ⅛ doz. No 232 Lath and ⅛ doz. No. 242 Broad, w't per assortment 30 lbs. ..... per assortment $24 00

ONE ASSORTMENT IN A CASE. WE DO NOT BREAK CASES

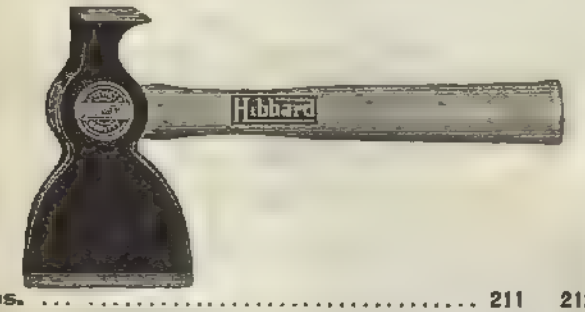
SHINGLING



Nos.	201	202
Size	1	2
Cut, in.	3½	4
W't less handle, oz.	17	23
W't per doz., lbs.	20	26
Per dozen	$21.00	23.00

HALF DOZEN IN A BOX

CLAW



Nos.	211	212
Size	1	2
Cut, in.	3½	3⅞
W't less handle, oz.	19	25
W't per doz., lbs.	22	27
Per dozen	$24.00	25.00

HALF DOZEN IN A BOX

HALF

Nos.	221	222
Size	1	2
Cut, in.	3¼	3⅝
W't less handle, oz.	15	21
W't per doz., lbs.	20	24
Per dozen	$23.00	24.00

HALF DOZEN IN A BOX

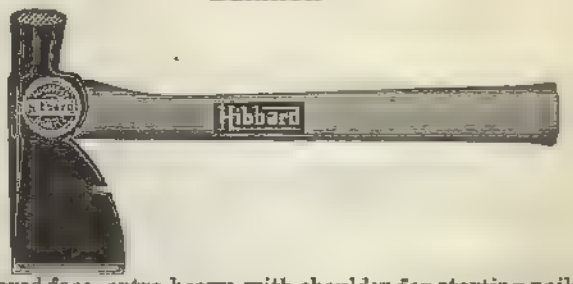
LATH

Scored Face.

Nos.	231	232
Size	1	2
Cut, in.	2¼	2½
W't less handle, oz.	14	17
W't per doz., lbs.	18	20
Per dozen	$22 00	23.00

HALF DOZEN IN A BOX

DERRICK

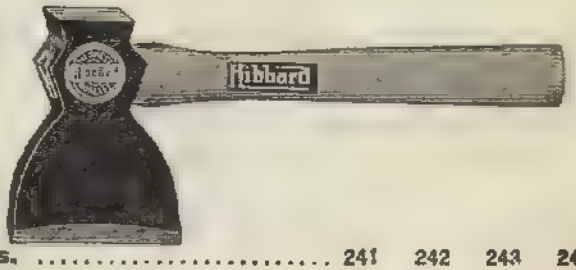


Scored face, extra heavy, with shoulder for starting nails, specials 18 inch flared handle, for rig builders or oil derricks.

No. 32—Size 3, 3¼ in. cut, w't less handle 2 lbs., w't per doz. 35 lbs. ..... per dozen $33.00

HALF DOZEN IN A BOX

BROAD



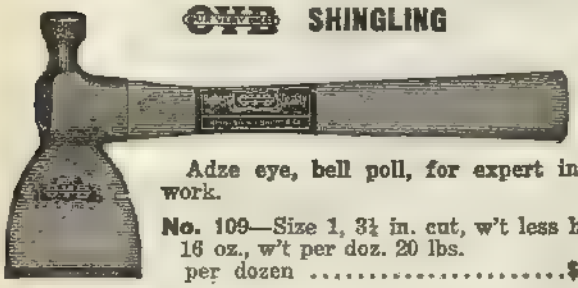
Nos.	241	242	243	244
Size	1	2	3	4
Cut, in.	4	4½	5	5½
W't less handle, lbs.	1⅜	1⅝	2⅛	2¼
W't per doz., lbs.	25	30	35	40
Per dozen	$26.00	29.00	33.00	37.00

HALF DOZEN IN A BOX

POLISHED HATCHETS

Highest Quality Forged Tool Steel, Full Polished and Etched, Select White Second Growth Hickory Handle.

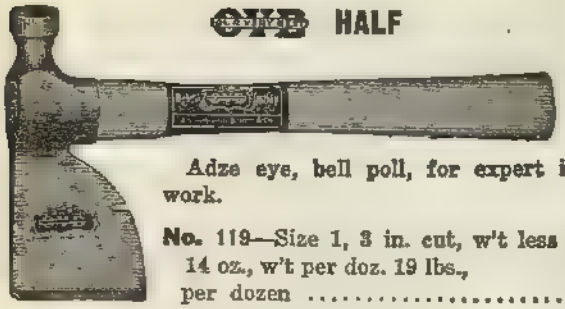
SHINGLING



Adze eye, bell poll, for expert interior work.

No. 109—Size 1, 3¼ in. cut, w't less handle 16 oz., w't per doz. 20 lbs.
per dozen $35.00

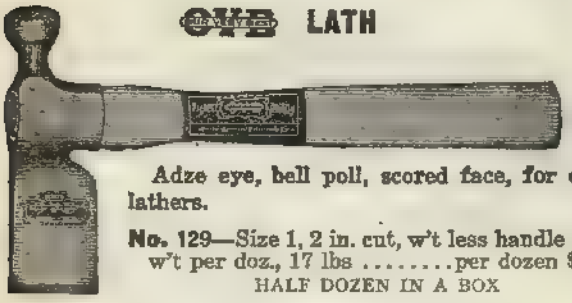
HALF



Adze eye, bell poll, for expert interior work.

No. 119—Size 1, 3 in. cut, w't less handle 14 oz., w't per doz. 19 lbs.,
per dozen $35.00

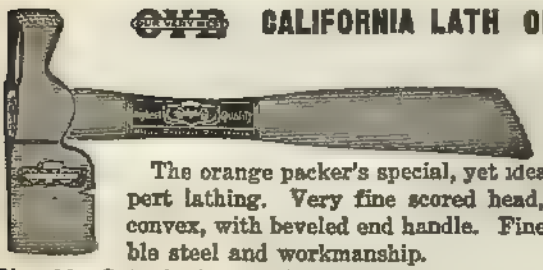
LATH



Adze eye, bell poll, scored face, for expert lathers.

No. 129—Size 1, 2 in. cut, w't less handle 12 oz., w't per doz., 17 lbs .....per dozen $35.00
HALF DOZEN IN A BOX

CALIFORNIA LATH OR BOX



The orange packer's special, yet ideal for expert lathing. Very fine scored head, slightly convex, with beveled end handle. Finest possible steel and workmanship.

No. 84—Cuts 2⅜ in., number of points 225, size of head 1¼x1¼ in., w't less handle each, 14 oz., w't per doz. 15 lbs.,
per dozen $39.00
HALF DOZEN IN A BOX

UNDERHILL LATH

Extra quality forged tool steel, square head, full polished, milled scoring. Tough hard temper, perfect balance, correctly proportioned second growth white hickory handles. In every respect the master lather's ideal.

No. 83—Regular Pattern, 2 1/16 in. cut, 8 rows, 64 points, size of head 1¼x1¼ in., w't including handle 18 oz., w't per doz. 16 lbs. .....per dozen $39.00
HALF DOZEN IN A BOX

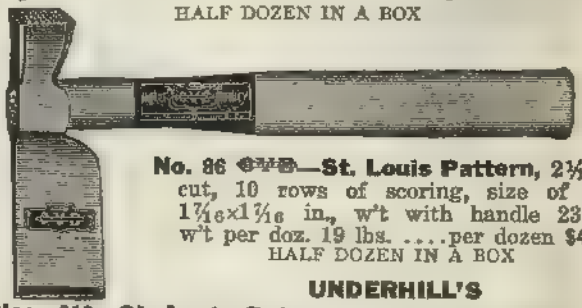
UNDERHILL'S

No. 38—Regular Pattern, 2 1/16 in. cuts, 8 rows, 64 points, size of head 1¼x1¼ in., including handle 18 oz., w't per doz. 16 lbs. .....per dozen $54.00
HALF DOZEN IN A BOX

No. 85—Chicago Pattern, 2 1/16 in. cut, 9 rows of scoring, size of head 1 5/16x1 5/16 in., w't with handle 19 oz., w't per doz. 17 lbs., per dozen $39.00

UNDERHILL'S

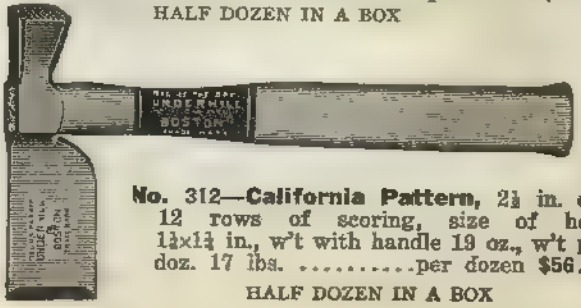
No. 39—Chicago Pattern, 2 1/16 in. cut, 9 rows of scoring, size of head 1 5/16x1 5/16 in., w't with handle 19 oz., w't per doz. 17 lbs. .....per dozen $54.00
HALF DOZEN IN A BOX



No. 86—St. Louis Pattern, 2 1/16 in. cut, 10 rows of scoring, size of head 1 7/16x1 7/16 in., w't with handle 23 oz., w't per doz. 19 lbs. ....per dozen $41.00
HALF DOZEN IN A BOX

UNDERHILL'S

Nos. 310—St. Louis Pattern, 2 1/16 in. cut, 10 rows of scoring, size of head 1 7/16x1 7/16 in., w't with handle 23 oz., w't per doz. 19 lbs. .....per dozen $58.00
HALF DOZEN IN A BOX



No. 312—California Pattern, 2⅜ in. cut 12 rows of scoring, size of head 1¼x1¼ in., w't with handle 19 oz., w't per doz. 17 lbs. .....per dozen $56.00
HALF DOZEN IN A BOX

CALUMET HATCHETS

Converted cast steel, full size, good temper, with white hickory handle, a good household grade, but not suitable for mechanic's use; not warranted.

SHINGLING

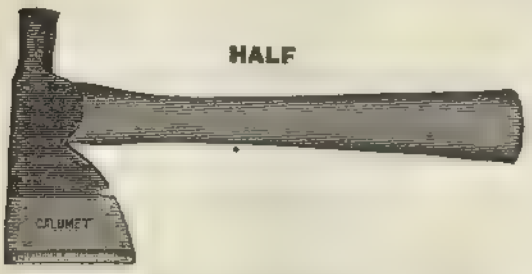
Size 2, cut 4 in., w't per doz. 26 lbs.

No. 702—Silver bronze, body, polished head and bit, per dozen $11.00

No. 62—Natural black steel finish, per dozen $8.00

HALF DOZEN IN A BOX. WE DO NOT BREAK BOXES

HALF



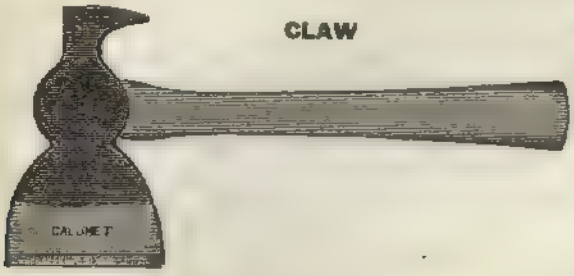
Size 2, cut 3⅝ in., w't per doz. 24 lbs.

No. 722—Silver bronzed body, polished head and bit .....per dozen $11.00

No. 52—Natural black steel finish, per dozen $8.00

HALF DOZEN IN A BOX. WE DO NOT BREAK BOXES

CLAW



Size 2, cut 4 in., w't per doz. 27 lbs.

No. 712—Silver bronzed body, polished head and bit .....per dozen $11.00

No. 72—Natural black steel finish, per dozen $8.00

HALF DOZEN IN A BOX. WE DO NOT BREAK BOXES

ASSORTED

No. 762—Silver bronzed body, polished head and bit, contains ½ doz. each No. 702 shingling, 722 half and 712 claw in a box, w't per asst. 14 lbs., per assortment $5.50

No. 902—Natural black steel finish, contains ½ doz. each No. 62 shingling, 52 half and 72 claw in a box, w't per asst. 14 lbs. .....per assortment $4.00

BUR-NOR HATCHETS

BUR-NOR, all steel, riveted, with reinforced hollow steel handle, oil-tempered blade, black enameled body, polished bit.

SHINGLING

No. 198—3¾ in. cut, w't per doz. 18 lbs. ..per dozen $11.00

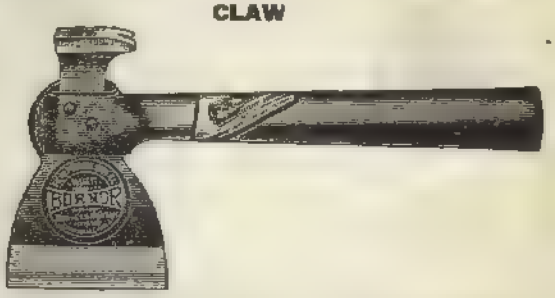
ONE DOZEN IN A BOX. WE DO NOT BREAK BOXES

HALF

No. 199—3¾ in. cut, w't per doz. 17 lbs., per dozen $11.00

ONE DOZEN IN A BOX. WE DO NOT BREAK BOXES

CLAW



This style is used by several leading railroads as standard equipment.

No. 200—3⅝ in. cut, w't per doz. 20 lbs., ...dozen $14.00

HALF DOZEN, ASSORTED, IN A BOX. WE DO NOT BREAK BOXES

Whatever the price you can afford, we have the best Hatchet for the money.

We would rather sell you the [illegible] because it is THE VERY BEST, and couldn't be better at double the price.

But if you MUST consider price, try the [illegible], first quality black—for hard service, the CRUSO, standard quality black—for all ordinary uses, the CALUMET or BURNOR, for light household use or for the woodshed. All are full value for the price we ask.

CRUSO BLACK HATCHETS

Good Quality Forged Steel, Black Finish, Medium Grade Hickory Handle.

SHINGLING

Nos.	601	602
Size	1	2
Cut, in.	3½	4
W't less handle, oz.	17	23
W't per doz., lbs.	20	26
Per dozen	$15.00	16.00

HALF DOZEN IN A BOX

CLAW

Nos.	611	612
Size	1	2
Cut, in.	3½	4
W't less handle, oz.	19	25
W't per doz., lbs.	22	27
Per dozen	$17.00	18.00

HALF DOZEN IN A BOX

HALF

Nos.	621	622
Size	1	2
Cut, in.	3½	3⅝
W't less handle, oz.	15	21
W't per doz., lbs.	20	24
Per dozen	$16.00	17.00

HALF DOZEN IN A BOX

LATH

Scored Face.

Nos.	631	632
Size	1	2
Cut, in.	2¼	2¼
W't less handle, oz.	14	17
W't per doz., lbs.	18	20
Per dozen	$15.00	16.00

HALF DOZEN IN A BOX

BROAD

Nos.	641	642	643	644
Size	1	2	3	4
Cut, in.	4	4½	5	5½
W't less handle, lbs.	1½	1⅝	2¼	2½
W't per doz., lbs.	25	30	35	40
Per dozen	$21.00	23.00	26.00	29.00

HALF DOZEN IN A BOX

Assorted.

A convenient CRUSO hatchet assortment for the dealer in a single case.

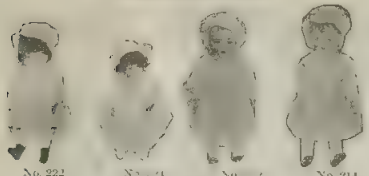
No. 662—Case contains ½ dozen each Nos. 602 Shingling, 612 Claw and 632 Lath, also ¼ dozen each Nos. 622 Half and No. 642 Broad. W't per assortment 29 lbs.,

Per assortment $20.00

ONE ASSORTMENT IN A CASE. WE DO NOT BREAK CASES

SLEEPING DOLLS

"BABY MINE" LINE



No. 222 No. 224 No. 212 No. 214

Per Dozen

No. 222—Girl; with mohair wig; dressed in white waist, skirt and cape collar of flowered lawn; trimmed with lace; sunbonnet to match; imitation white stockings and composition shoes; stands up unsupported; height 13½ inches; weight per dozen 12 lbs. $48 00

No. 224—Baby; with mohair wig; white lawn dress trimmed with lace, cap to match; has open mouth and pacifier suspended from neck; baby-pink feet with white stockings; height 13½ inches, weight per dozen 12 lbs 48 00

No. 212—Baby; white lawn dress, lace trimmed, cap to match trimmed with rosettes; has open mouth with pacifier to fit in; removable shoes and stockings; height 15 inches; weight per dozen 15 lbs. 57 00

No. 214—Girl; white lawn dress trimmed with colored ribbon, bonnet to match; removable shoes and stockings; height 15 inches; weight per dozen 15 lbs 57 00

One in a cardboard box.

No. 216 No. 226 No. 228 No. 230

Per Dozen

No. 216—Girl; dressed in flowered lawn plaited skirt, linen colored waist; round collar of flowered lawn trimmed with embroidered edging; removable shoes and stockings; height 15 inches; weight per dozen 15 lbs. . $57 00

No. 226—Baby; with mohair wig; white lawn dress, lace trimmed; cap to match trimmed with rosettes; has open mouth with pacifier to fit in; baby shaped flesh colored feet; removable shoes and stockings; height 15 inches; weight per dozen 21 lbs. 66 00

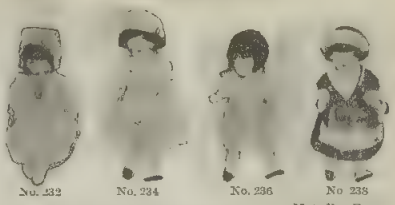
No. 228—Girl; with mohair wig; dressed in flowered lawn plaited skirt, linen colored waist; round collar of flowered lawn trimmed with embroidered edging; removable shoes and stockings; height 15 inches, weight per dozen 15 lbs. 66 00

No. 230—Girl; with mohair wig; and bonnet; dressed in white lawn, plaited; trimmed with lace and ribbon, removable shoes and stockings, height 15 inches, weight per dozen 15 lbs. 66 00

One in a cardboard box.

SLEEPING DOLLS

"BABY MINE" LINE



No. 232 No. 234 No. 236 No. 238

Net, Per Dozen

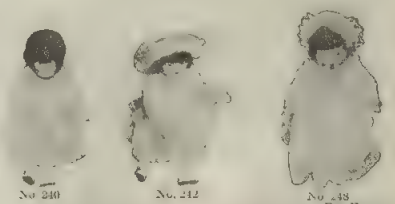
No. 232—Baby; with mohair wig; white lawn dress, trimmed with lace and insertion; cap to match; baby shaped colored feet; assorted colors knitted booties; has open mouth and nursing bottle in silk crocheted bag suspended from neck; also voice in head; cries when it opens its eyes; height 16 inches; weight per dozen 15 lbs. $87 00

No. 234—Girl; with mohair wig, skirt of white checked dimity and waist of flowered lawn; white cuffs and plaited collar trimmed with lace; hat to match; removable shoes and stockings; height 16 inches; weight per dozen 18 lbs. 87 00

No. 236—Girl; dressed in white open work lawn, trimmed with lace; silk ribbon sash; fluffy castle wig with a silk veil; removable shoes and stockings; height 14½ inches; weight per dozen 15 lbs. 87 00

No. 238—Girl; with mohair wig; dressed in French linen assorted colors middy, trimmed with white dimity and pearl buttons; skirt of white dimity with hem to match middy; sport hat; gold bead necklace; removable shoes and stockings; height 16 inches; weight per dozen 21 lbs. 96 00

One in a cardboard box.



No. 240 No. 242 No. 248

Per Dozen

No. 240—Girl; white organdy dress; double skirt, lower hemstitched, upper picoted edging, silk ribbon sash; fancy hat; hand sewed wig with long curls; removable shoes and stockings; height 16 inches; weight per dozen 18 lbs. $102 00

No. 242—Girl; dressed in white organdy; double skirt, lower hemstitched, upper picoted edging, silk ribbon sash; fancy hat; hand sewed wig with long curls; removable shoes and stockings; height 16 inches; weight per dozen 18 lbs. 102 00

No. 248—Baby; with mohair wig; white lawn dress trimmed with lace, insertion, edging and silk ribbon rosettes; cap to match; has open mouth and nursing bottle in silk crocheted bag; crocheted booties; height 18 inches; weight per dozen 27 lbs. 114 00

One in a cardboard box.

SLEEPING DOLLS

"BABY MINE" Line

No. 244 No. 250 No. 246

Per Dozen

No. 244—Girl; fancy ringlet wig with two silk ribbon bows; assorted colors tusso silk dress with velvet ribbon sash; gold bead necklace; removable shoes and stockings; height 17 inches; weight per dozen 21 lbs .$114 00

No. 250—Baby; sewed ringlet wig with two silk ribbon bows; lawn dress trimmed with lace and insertion; celluloid rattler suspended from neck; crocheted booteeS; height 18 inches, weight per dozen 30 lbs 150 00

No. 246—Girl; has eye-lashes and ringlet wig with two silk ribbon bows; dress of assorted colors high grade organdy, trimmed with lace, velvet ribbon sash, gold bead necklace, removable shoes and stockings; height 19 inches, weight per dozen 30 lbs 189 00

One in a cardboard box.

UNDRESSED DOLLS

IMITATION KID

Kid bodies; composition head and hands; removable shoes and stockings; sanitary and washable.

No. 416K No. 516K No. 420K

Per Dozen

No. 416K—Painted eyes and painted wig; height 16 inches, weight per dozen 15 lbs ...$78 00

No. 516K—Painted eyes; bobbed mohair ringlet wig; height 16 inches; weight per dozen 15 lbs 96 00

No. 420K—Painted eyes and painted wig; height 20 inches; weight per dozen 21 lbs 102 00

One in a cardboard box.

UNDRESSED DOLLS

IMITATION KID

Kid bodies; composition head and hands; removable shoes and stockings; sanitary and washable.

No. 520K No. 616K No. 620K

Per Dozen

No. 520K—Painted eyes; bobbed mohair ringlet wig; height 20 inches; weight per dozen 21 lbs.....$114 00

No. 616K—Moving eyes; bobbed mohair ringlet wig; height 16 inches, weight per dozen 15 lbs . . 126 00

No. 620K—Moving eyes; bobbed mohair ringlet wig; height 20 inches; weight per dozen 21 lbs 150 00

One in a cardboard box.

No. 720K No. 724K

Each

No. 720K—Moving eyes; sewed mohair ringlet wig, fully jointed; socket shoulder head; height 20 inches; weight per dozen 21 lbs $18 00

No. 724K—Moving eyes; sewed mohair ringlet wig; fully jointed, socket shoulder head; height 24 inches; weight per dozen 28 lbs..... 21 00

One in a cardboard box.

GENUINE BISQUE DOLLS

These dolls are of exceptional good workmanship and very life like in color and appearance.

"BALD HEAD"

Painted eyes and hair; with white dress.

		Per Dozen
No. 23	Height 8 inches	$21 75
No. 37	Height 15 inches	87 00
No. 40	Height 15 inches	96 00
No. 45	Height 16 inches	126 00
No. 50	Height 18 inches	150 00

One in a cardboard box.

"BABY ELLA"

Sleeping eyes; genuine hair; with white dress.

	Per Dozen
No. 116—Height 7 inches	$17 25
No. 119—Height 8 inches	18 75
No. 125—Height 9½ inches	39 00
No. 129—Height 10½ inches	48 00
No. 131—Height 12 inches	57 00
No. 133—Height 14 inches	75 00
No. 137—Height 15 inches	87 00
No. 140—Height 16 inches	96 00
No. 150—Height 18 inches	162 00
No. 157—Height 21 inches	186 00

One in a cardboard box.

FULL JOINTED

Full jointed; sleeping eyes; genuine hair; nicely dressed with white dress.

	Per Dozen
No. 931—Height 12½ inches	$78 00
No. 960—Height 25 inches	219 00

	Each
No. 965 Height 24 inches	$22 50

One in a cardboard box.

WALKING DOLLS

Bobbed sewed mohair ringlet wig; socket shoulder head; cork stuffed body; dress of colored cotton voile, trimmed with lace; cap to match; removable shoes and stockings.

Each

No. 5WD—Painted eyes; height 19 inches $13 50

One in a cardboard box; weight each 2 lbs.

Bobbed sewed mohair ringlet wig; socket shoulder head; cork stuffed body; dress of colored cotton voile, trimmed with lace; removable shoes and stockings.

Each

No. 7WD—Moving eyes; height 19 inches $18 00

One in a cardboard box; weight each 3 lbs.

WALKING DOLLS

Walks with natural, graceful stride when led by hand. Can bow, kneel, etc. Boundless joy for children and grownups. Sensational entertainment for parties. Is 28 inches tall, dressed beautifully, including stockings, shoes and underwear. Face is non-breakable.

Each

No. 1WD—With Human Hair $27 00

One in a cardboard box; wt. each 5¼ lbs.

DOLL CARRIAGES

Fibre woven sides; stationary back; auto style woven hood, not adjustable; gray finish body and hood; black enameled gear.

Length body 16 inches; width 6½ inches; 6½ inch double spoke wheels with ¼ inch rubber tires.

Each

No. 131—Weight each 7 lbs. $7 50

One in a carton.

Flat reed body and hood with plain edge; body, 7½ ins. wide, 16 ins. long; adjustable back; sides and hood not lined. Spring steel gear; 6¾ inch wheels with double spokes, ¼ inch rubber tires.

Each

No. 703—Cream enamel finish $8 25

One in a carton; weight each 10 lbs.

Flat reed body and hood with plain edge; body 7½ inches wide, 16 inches long; stationary back; back and seat upholstered; sides and hood not lined. Gear spring steel, continuous handle; 6¾ inch wheels, with double spokes and ¼ inch rubber tires.

Each

No. 121—Natural or gray finish body and hood; black gear $10 50

One in a carton; weight each 9 lbs.

DOLLS

No. 301 No. 305 No. 307 No. 309 No. 311

Per Dozen

No. 301—Stuffed body and hands; composition head, painted features; assorted colored muslin dresses; height 13½ inches; weight per dozen 6¾ lbs.....$12 00

No. 305—Stuffed body; composition hands and head, painted features, imitation shoes, assorted gingham dresses, all girls; height 14 inches; weight per dozen 9½ lbs..... 14 25

No. 307—Stuffed body, composition hands and head, painted features, with wigs, assorted dresses, imitation shoes; height 12 inches; weight per dozen 6 lbs..... 15 75

One dozen in a cardboard box.

No. 309—Stout body, stuffed doll, composition hands and head, painted features, imitation shoes, all girls; height 15½ inches; weight per dozen 11 lbs..... 18 00

Half dozen in a cardboard box.

No. 311—Stuffed body, composition hands and head, painted features, imitation shoes, assorted dresses, all girls; height 18 inches; weight per dozen 15 lbs..... 22 50

Two in a cardboard box.

No. 313 No. 313 No. 315 No. 317

Per Dozen

No. 313—Two dolls, boy and girl; stuffed body, composition hands and head, painted features, assorted dresses with caps to match, removable booties; height 16 inches; weight per dozen 12 lbs.....$28 50

Each in a cardboard box.

No. 315—Stuffed body, composition hands and head, with wig; well painted features, assorted colored dresses with cap to match, lace edged; removable shoes and stockings; height 14 inches; weight per dozen 9 lbs..... 28 50

No. 317—Stuffed body, composition hands and head, with wig; well painted features, assorted colored dresses with cap to match, lace edged; removable shoes and stockings; height 16 inches; weight per dozen 10 lbs..... 34 50

One in a cardboard box.

SLEEPING DOLLS

"BABY MINE" Line

All have moving eyes. The movement of same are made by special devices which give the eyes absolute freedom of action. Stuffed bodies, composition heads and hands finished in a dainty true to life color.

No. 202 No. 204 No. 206

Per Dozen

No. 202 Baby; in white lawn dress; lace trimmed; cap to match; baby-pink feet with white stockings; height 12 inches; weight per dozen 9 lbs.....$27 75

No. 204—Middy girl; dressed in white middy blouse; gingham skirt and sailor collar; composition shoes; stands up unsupported; height 12 inches; weight per dozen 12 lbs..... 27 75

No. 206—Girl; dressed in assorted gingham; white sailor collar trimmed with lace; white belt with brass buttons; imitation white stockings; composition shoes; height 13 inches; weight per dozen 12 lbs..... 39 00

One in a cardboard box.

No. 208 No. 210 No. 218 No. 220

Per Dozen

No. 208—Baby; white lawn dress and underwear; lace trimmed; cap with lace and rosettes to match; has open mouth and pacifier to fit in; baby-pink feet with white stockings; height 13 inches; weight per dozen 12 lbs.....$39 00

No. 210 -Girl; dressed in white waist; skirt and cape collar of flowered lawn; trimmed with lace; imitation white stockings and composition shoes; stands up unsupported; height 13 inches; weight per dozen 12 lbs..... 39 00

No. 218—Baby; with mohair wig; white lawn dress lace trimmed, cap to match trimmed with lace and rosetts; baby-pink feet with white stockings; height 12 inches; weight per dozen 9 lbs..... 39 00

No. 220—Middy girl; with mohair wig; dressed in white middy blouse; gingham skirt and sailor collar; composition shoes; stands up unsupported; height 12 inches; weight per dozen 12 lbs..... 39 00

One in a cardboard box.

IMPORTED DOLLS

Here is the best selling and the best looking line of imported dolls in the world. Every number was selected because it was a little bit better than every other similar doll no matter where made. Plain type gives but a faint idea of the beauty, variety and originality of this wonderful showing.

"POPULAR" IMPORTED DRESSED DOLLS

TURNING BISQUE HEADS, painted features, glass eyes, blonde, tosca and brunette flowing and curly mohair wigs, JOINTED SHOULDERS AND HIPS, dresses and hats in assrd. colors, all with underwear, painted shoes and stockings unless stated. Note: Measurements do not include hats.

F6015—3 colors, 7 in. blue, pink and red turkistan strips, set collars, ribbon rosettes, ribbon hair bows. Assrd. ½ doz. in box. Doz. $2.00

F6030—3 styles, 7½ in., assrd. color lawn dresses, coordinating color cotton Jackets, each in box. ½ doz. in pkg. Doz. $2.25

F6020—3 styles, 7 in. moving eyes, flowered lawn French dress, apron and cloth coat costumes, fur hats and caps, each in box. Assrd. ½ doz. in box. Doz. $2.25

F6021—3 styles, 7½ in., 6 color lawn French dress, mushroom hat and bonnets to match, each in box. Assrd. 1 doz. in pkg. Doz. $2.25

F6022—3 styles, 7½ in. figured percale and lawn dresses, felt, straw and fabric hats each in box. Assrd. 1 doz. in pkg. Doz. $2.25

F6023—3 styles, 7½ in., moving eyes, face and bright trim dainty lawn and cotton crepe dresses, plain and plaited skirts, straw and fabric hats, each in box. Assrd. 1 doz. in pkg. Doz. $2.60

F6024—3 styles, 8 in., moving eyes, assrd. color lawn dresses, white collars and trimmed braid trimmings, straw hats, white footwear, each in box. Assrd. ½ doz. in pkg. Doz. $2.60

F6025—3 styles, 8½ in., white and colored turkistan dresses, plaited skirts and French styles, straw hats and turkistan caps, each in box. Assrd. 1 doz. in pkg. Doz. $2.75

F6033—3 styles, 10 in., moving eyes, assrd. color turkistan dresses, dressed model with belt, straw hats, white footwear, each in box. Assrd. ½ doz. in pkg. Doz. $3.25

F6031—3 styles, 8½ in., moving eyes, red skin and cream color crepe dresses, bonnets to match and straw hats, each in box. Assrd. ½ doz. in box. Doz. $3.25

F6034—3 styles, 10½ in., moving eyes, assrd. color and flowered lace trim dresses, straw hats, white footwear, each in box. Assrd. ½ doz. in pkg. Doz. $3.25

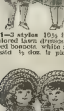
F6036—3 colors, 8 in., moving eyes, assrd. pink and blue check and dot lawn dresses, and white Hamburg aprons, fur hats, net dresses, each in box. ½ doz. in box. Doz. $4.00

F6041—3 styles, 10½ in. flowers, crepe and colored lawn dresses, straw hats, underwear bonnets, white footwear, each in box. Assrd. ½ doz. in pkg. Doz. $4.25

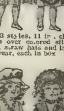
F6049—3 styles, 11 in., checked lawn, white apron over colored slip and solid color lawn, straw hats and lawn bonnets, white footwear, each in box. Assrd. ½ doz. in pkg. Doz. $4.50

F6051—3 styles, 9½ in., moving eyes, bob wig, hair wigs with ribbon bows, net jumper over assrd. color sateen, white underwear, each in box trim box. Assrd. ½ doz. in pkg. Doz. $4.80

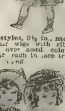
F6043—3 styles, 11½ in. dotted swiss, plain and percaline plaited over dresses, straw hats, white footwear, each in box. While they last, an exceptional number at this price. ½ doz. in box. Assrd. 1 doz. in pkg. Doz. $5.25



F6048—3 styles, 11½ in., moving eyes, sateen plaited layer, figured colored crepe and turkistan dress with apron, straw hats, white footwear, each in box. Assrd. ½ doz. in pkg. Doz. Out



F6045—3 styles, 12 in., colored lawn and colored swiss crepe dresses, silk and colored braid trimmings, straw and fabric hats, white footwear, each in box. Assrd. ½ doz. in pkg. Doz. $5.75



F6050—3 styles, 12 in., moving eyes, colored lawn and flowered fabric dresses, set and plaited skirts, straw and lawn hats, white footwear, each in box. ½ doz. in pkg. Doz. $4.00

Announcement

Items marked with the Maltese Cross (✠F6025) had not arrived at the early date we went to press. In many cases they will be in when we receive your order. Those that are not in will be placed on Back Order and we will notify you regarding each number so that you can keep on Back Order or make a different selection.

"POPULAR" IMPORTED DOLLS—Continued

F6840—4 styles, 11 in., moving eyes, colored lawn, blue or red striped percale dresses, ribbon and braid trim, straw and fabric hats and bonnets, white footwear. Asstd. ½ doz. in pkg.

Doz. **+5,75**

F6844—3 styles, 13½ in., fancy red dotted blue and white dresses, straw hat and caps to match, white footwear. Asstd. ½ doz. in pkg.

Doz. **+6,50**

F6853—3 styles, 12 in., moving eyes, cloth smock, lawn apron and ruffled Pantalettes, embroidered trimmed frock and straw hats, white footwear, each in box. Asstd. ½ doz. in pkg.

Doz. **+6,50**

F6073—3 baby styles, 11½ in., moving eyes, French dresses of white lawn and dotted Swiss, embroidered yokes, lace trimmed, straw hat with feather, white footwear, each in box. Asstd. ½ doz. in pkg.

Doz. **+7,00**

F6835 5 colors, 18½ in., moving eyes, plaid colored lawn dresses, silk braid trim, straw hats with flowers, white footwear, each in box. Asstd. ½ doz. in pkg.

Doz. **$7,25**

F6075—3 styles, 13½ in., moving eyes, colored lawn flounced and shirred percale dresses, straw and fabric hats, white footwear, each in box. Asstd. ½ doz. in pkg.

Doz. **$7,50**

F6085—4 styles, 13½ in., moving eyes, fine colored and flounced lawn dresses, bonnets to match, white stockings and slippers, each in box. Asstd. ½ doz. in pkg.

Doz. **+8,75**

F6071 3 styles, 13 in., moving eyes, colored lawn and basket weave silk dresses, white corded yokes with lace edged collars, straw and fabric hats, white footwear, each in box. Asstd. ½ doz. in pkg.

Doz. **+9,00**

F6837—3 styles, 14 in., moving eyes, buttress colored cotton dresses, white piped and open work collars, full skirts, straw and fabric trimmed hats, white stockings and slippers, each in box. Asstd. ½ doz. in pkg.

Doz. **$10,50**

F6856—3 styles, 13½ in., moving eyes, flowered crepe and colored linene dresses, straw and fabric hats, white footwear, each in box. Asstd. ½ doz. in pkg.

Doz. **$10,50**

F6858—4 styles, 15 in., moving eyes, French dresses of colored sateen and novelty check, fur effect, colored lawn trimmed, straw and fabric hats, lace meshed and feather ornaments, white footwear, each in box. Asstd. ½ doz. in pkg.

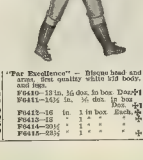
Doz. **$12,00**

F6076—3 styles, 15 in., moving eyes, dotted lawn ruffled dress, cotton serge and felt coat costume, straw hat, lawn bonnet and felt cap, white footwear each in box. Asstd. ½ doz. in pkg.

Doz. **$13,50**

IMPORTED KID BODY DOLLS

Excessively painted features, moving eyes, extra quality blonde, taupe or brunette curly mohair wigs, silk pants, ribbon bow, jointed shoulder shaver, hip and knee, lace stockings, leatherette slippers in pink, blue and white.



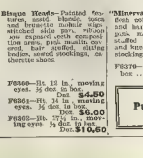
"Superb" Bisque head and forearms, kid body, lower limbs flesh tinted bisque finish, hardened pressed gaspr.

F6400—12 in.	6 doz. to box	Doz.	**$10.00**
F6401—16 in.	3 doz. to box	"	**16.00**
F6402—20 in.	1 in box	Each.	**$2.00**
F6403—18½ "	1 " "	"	**2.50**
F6404—21 "	1 " "	"	**3.25**
F6405—26 "	1 " "	"	**6.00**

"Par Excellence" — Bisque head and forearms, fine quality white kid body, arms and legs.

F6409—13 in.	½ doz. in box	Doz.	**+10.50**
F6411—15½ in.	½ doz. in box	Doz.	**+16.50**
F6412—16 in.	1 in box	Each.	**+2.25**
F6413—18 "	1 " "	"	**2.75**
F6414—20½ "	1 " "	"	**3.85**
F6415—23½ "	1 " "	"	**+5.50**

IMPORTED HAIR STUFFED DOLLS

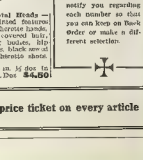


Bisque Heads—Painted features, moving eyes, blonde, brunette or auburn mohair wigs, washed skin, silk and cotton stockings, cloth composition arms, pink muslin covered hair stuffed, sliding bodies, satteen stockings, patent shoes.

F6360—Ht. 12 in.,	moving eyes, ½ doz. in box	Doz.	**$4.50**
F6361—Ht. 14 in.,	moving eyes, ½ doz. in box	Doz.	**$6.00**
F6362—Ht. 17½ in.,	moving eyes, ½ doz. in box	Doz.	**$10.00**

"Minerva" Metal Heads—Fine color painted features and hair bunch-effect heads, pink muslin covered hair, stuffed sateen bodies, hip and knee joints, black sateen stockings, leatherette shoes.

F6370—Ht. 13 in., ½ doz. in box ... Doz. **$4.50**



ANNOUNCEMENT

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Put a price ticket on every article

IMPORTED CHARACTER BABY DOLLS

IMPORTED COMPOSITION BODY CHARACTER BABIES

Turning head on brush painted features, flesh tinted bisque head, jointed composition body, bisque lower arms, long curl shoulder plate, lace trim slip and bonnet. Extra fine quality.

F6310—9 in., painted hair ½ doz. in box ..... Doz. $2.25
F6311—11½ in., painted hair ½ doz. in box ..... Doz. $4.00

F6312—12 in., moving eyes, open mouth showing 2 teeth, short mohair baby wig. ½ doz. in box. Doz. $4.50

A SMALL investment with frequent turnover means a greater net profit at the end of the year than big stocks that turn slowly.

IMPORTED CHARACTER BABIES

Turning bisque head painted features, moving glass eyes, open mouth showing teeth and tongue, hardened pressed paper body, curls finish, fine tinted, pretty colorings, bisque hands and shoulder joints, lawn slips.

With Short Baby Wigs—Each in box.
F6260—11½ in. ½ doz. in pkg. Doz. +$8.00
F6261—13½ in. ½ doz. in box. Doz. $11.00

With Sewed Bobbed Wigs—Ribbon bow, chubby body 1 in box.
F6262—13½ in. Each. $2.00
F6263—15 in. ... " 3.50

IMPORTED "NEXT TO NATURE" BABIES

Turning genuine bisque head painted features and hair, moving glass eyes, open mouth, hardened pressed paper body, curls finish, fine tinted, chubby position limbs, hip and shoulder joints, lace and bow trim extra slip, each in box

F6259—11 in. ½ doz. in pkg $8.00
F6251 1°½, in 10.50
F6252 16 in ..... Each. 1.40
F6253 18 " ..... " 2.75
F6254–20 " ..... " 3.90

IMPORTED BISQUE HEAD JOINTED DOLLS

Famous "Pearlsent"

Guaranteed quality, turning flesh bisque head, moving glass eyes, real eyelashes, hand sewed Walter Mansuit tones and brocade curly mohair wigs, stitched side part, hand molded, well modeled extra fine bisque finish bodies of hardened layers of paper, open fingers, well jointed shoulder, elbow, wrist, hip and knee with lawn slip, white forestock. 1 in box.

F6246—13 in. ... Each. +2.75
F6241—15½ " ... " +3.00
F6242—22 " ... " +4.00
F6243—24 " ... " +4.50

IMPORTED DRESSED CHARACTER BABIES

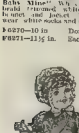
Turning bisque head, painted features, fully expressive, movable glass eyes, with real eyelashes, open mouth, tones and brushed to mohair baby wigs, hardened pressed paper body, muslin finish, flesh tinted, chubby position limbs, hip and shoulder joints. Each in box trim box

"Baby Alice", 13½ in., bisque head trimmed with embroidered bonnet and pleated lawn under wear white socks and slippers.
F6270—10 in. Doz. +10.50
F6271—13½ in. Each. 1.50

F6272—12 in., blue taffeta silk dress, embroidery guimpe, shirred silk cap, lace trimmed bonnet, white shoes socks and slippers, rubber pacifier. Each +1.75

F6280—11 in. white organdie trimmed lawn dress with hand embroidered white lawn bonnet, lawn underwear white socks and slippers. Each +1.75

F6281 12½ in. smocking blue lawn dress, white lace collar and sleeve bands, white tinted straw hat, lawn underwear white socks and slippers. Each +2.00



F6275—13 in. bustress red silk dress, white embroidered skirt and puff crown bonnet with silk ruche, white socks and slippers, rubber pacifier. Each. +2.25

F6282—14 in. white dotted swiss dress with Spencer jacket trimmed with lace baby cap, lace under wear white stockings and shoes. Each. $2.50

F6283 12½ in. white dotted swiss dress, trimmed with ribbon and lace rufles, baby cap, silk sash, white stockings and shoes and slippers. Each +3.50

F6274—16 in., fresh pass radium silk dress lace and ribbon trim collar and cuffs, pleated blue organdie guimpe, lace trimmed baby bonnet, lawn underwear, white socks and slippers, rubber pacifier. Each +4.00

IMPORTED STANDING DRESSED CHARACTER BABIES

Turning bisque head, painted features, baby expression, moving glass eyes, with real eyelashes, open mouth, bisque hardened pressed paper body, muslin finish, flesh tinted, chubby position limbs, hip and shoulder joints

F6290—14 in. blue lawn dress, lace panels and trimmed with lace, lawn underwear, white socks and shoes, blue lawn bonnet, white stockings and slippers. Each. $1.75

F6291 13 in. blue lawn dress, white lace guimpe and trimmed with lace, lawn underwear, white socks and shoes, blue lawn bonnet, white stockings and slippers. Each. $2.25

F6292—16 in., ruffled white dotted swiss dress, blue silk sash with rosettes at waist, blue silk edged dotted swiss baby cap, lawn underwear, white socks and shoes and slippers. Each in box trim box. Each. $3.00

IMPORTED "WALTERSHAUSEN" CHARACTER BABIES

The best made dolls in Europe. Guaranteed quality, jointed shoulders, hips and wrists, flesh tinted body of hardened layers pressed paper, real lashes, exposed teeth and movable tongue, rosette and lace trim slip. 1 in box

Bobbed Hair—Genuine bisque head, bobbed "Waltershausen" wig.
F6285—16½ in. ... Each. $2.75
F6286—17½ " ... " 3.50

F6287—17½ in. boy doll, with short hair, sewed "Waltershausen" wig, genuine bisque head. Each. $3.50

"WORLD'S FINEST" IMPORTED DRESSED DOLLS

Genuine bisque turning heads, teeth, large blue or brown glass resting eyes, curly mohair wigs—auld blonde, tosca or brunette, jointed shoulders elbows, hips and knees, well modeled bodies. Each with hat and footwear to harmonize or contrast with underwear. Note Sizes are actual measurements and do not include hats. Each in lace trimmed box

F6085 6 styles to [illegible] painted eyebrows and lashes, [illegible] Each with [illegible] Doz +6.75

F6080 9 styles 16 in. painted eyebrows and lashes, [illegible] Each with [illegible] Doz +7.25

F6072 8 styles 16 in. painted eyebrows and lashes, stripped lawn, solid color trimmed and lace dresses, trimmed straw hats to match, white footwear Assrtd. ½ doz. pkg. Doz +7.75

F6069—3 styles, 17 in. painted eyebrows and lashes, white [illegible] and [illegible] trimmed lace and ribbon [illegible] Each in [illegible] Doz +8.00

F6093 9 styles, 13½ in. painted eyebrows and lashes, [illegible] Each with [illegible] Doz +8.50

F6081—3 styles, 13 in., with painted eyebrows and lashes, satin and cotton over dresses, trimmed straw hats, white footwear. Assrtd. ½ doz. in box. Doz +8.50

F6084—3 styles, 12 in., painted eyebrows and lashes, white [illegible] and red [illegible] lace trimmed over costumes with colored bonnets and hats, [illegible] footwear Assrtd. ½ doz. pkg. Doz $9.00

F6068—3 styles, 13 in. painted eyebrows and lashes, colored and white [illegible] lace and ribbon trimmed frocks, [illegible] Each in pkg Doz $9.00

F6092 3 styles, 13 in. painted eyebrows and lashes, [illegible] Each with [illegible] Doz $9.00

F6085 3 styles, 13 in. painted eyebrows and lashes, white [illegible] Each with [illegible] Doz +10.50

F6091 3 styles 13 in. painted eyebrows and lashes, white [illegible] and red [illegible] trimmed over costumes with colored bonnets and hats, [illegible] footwear Assrtd. ½ doz. in pkg. Doz +10.00

F6091 3 styles 13 in. painted eyebrows and lashes, [illegible] Each with [illegible] Doz $10.50

F6094 3 styles, 13 in. painted eyebrows and lashes, white [illegible] and [illegible] trimmed over costumes with colored bonnets and hats, white socks and slippers Assrtd. ½ doz. in pkg. Doz +10.50

F6071 3 styles 13 in. painted eyebrows and lashes, white [illegible] and [illegible] trimmed over costumes with colored bonnets and hats, [illegible] and [illegible] footwear Assrtd. ½ doz. in pkg. Doz +10.50

F6069 3 styles 17 in. painted eyebrows and lashes, white [illegible] and [illegible] trimmed over costumes with colored bonnets and hats, [illegible] and [illegible] footwear Assrtd. ½ doz. in pkg. Doz $12.50

F6094—3 styles, 13½ in., painted eyebrows and lashes, [illegible] and red silk dresses, white [illegible] Each in [illegible] Assrtd. ½ doz. in pkg. Doz +11.00

F6084 3 styles 13 in. painted eyebrows and lashes, white [illegible] and [illegible] trimmed over costumes with colored bonnets and hats, [illegible] footwear Assrtd. ½ doz. in pkg. Doz +12.50

F6102—3 styles, 14 in., painted eyebrows and lashes, white [illegible] and [illegible] trimmed over costumes with colored bonnets and hats, [illegible] footwear Assrtd. ½ doz. in pkg. Doz +12.75

F6101—3 styles, 14 in., painted eyebrows and lashes, white corded apron over colored slip, [illegible] lace dresses over color, trimmed French bonnets of same material and ruche Assrtd. ½ doz. in pkg. Doz. +13.50

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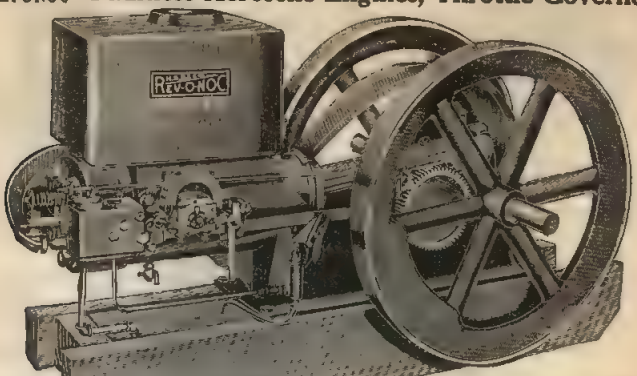
✠

Prices on Application

REV-O-NOC Faultless Kerosene Engines, Throttle Governed



Built in sizes 3, 5, 7, 10, 12, 15 and 25 H.-P.

The above illustration shows the Improved REV-O-NOC Throttle Governed Kerosene Engine as regularly equipped. Oscillating Type Magneto included, mounted on wood skids complete with [illegible]. Many prefer this style of mounting to any other. It is really a semi-portable method and where it is desired to move the engine from place to place a team can be hitched to it, the skids acting as runners. The skids are well made of heavy timber cross braced and nicely painted. It is lighter in weight and a little cheaper in price than the full iron sub-base style shown on next page, which can be furnished at a small additional charge shown in price list.

REV-O-NOC KEROSENE ENGINE "Type K," Throttle Governed

This is not a common gasoline engine with an attachment for using kerosene, but is designed especially for kerosene, and we guarantee it will operate successfully on kerosene, distillate and other similar fuels. It differs from the gasoline engine in the way the fuel is fed into the cylinder, the shape of the head, the valves and governing mechanism, and while it will run perfectly on gasoline, the object of it is to take advantage of the cheaper fuel which at present amounts to a saving of more than 100 per cent

KEROSENE vs. GASOLINE

Engine manufacturers have always known that kerosene contained as much energy as gasoline, and a good many makeshifts and attachments for using it in engines have been put on the market. Some work when conditions are just right and the operator can stand over them and constantly make adjustments, but usually it will be found that the trouble involved more than offsets the saving. The trouble is, most engine manufacturers try to use kerosene in their regular engine, originally designed and built for gasoline. They use a more or less complicated attachment and attempt by heating the oil or air or both to convert kerosene into gasoline, or rather, as unsatisfactory substitute that can be used in their hit-and-miss engines. At best, they are only makeshifts. The principle is all wrong. Gasoline can not be made from kerosene any more than butter can be made from lard. If it could, the oil people would do it themselves, and the difference in price would not exist. After trying out these different attachments and inventing a few of our own, we came to the conclusion that if kerosene was used at all for power, it would have to be in a machine made especially for it. So we started from another angle and studied the peculiarities of kerosene as we found it, instead of trying to change it into gasoline, or a substitute that our gasoline engine could use. We built

A REAL KEROSENE ENGINE

One that could use kerosene and thrive on it. We actually succeeded in overcoming all the difficulties, and the REV-O-NOC Type K" kerosene Engine is the most powerful, easy starting, and economical engine and fuel user that you think you ever saw. The REV-O-NOC Throttle Governed Kerosene Engine has been [illegible] and continuously since 1906, they have always enjoyed the reputation of being one of the best engines on the market, and while we may be putting it a little too strong, for which we ask you to pardon us, we believe the REV-O-NOC Throttle-Governed Kerosene Engine is the best engine on the market today. Anyway, you are both judge and jury, and all we ask is that you compare it with any other engine, no matter whose, and if you don't agree with us the engine is ours, and you are out very little except your trouble, and the experience will be well worth that. REV-O-NOC Kerosene Engines will operate on common coil oil or distillate, run just as well and use no more of it than other engines do of high priced gasoline. Can't you well afford to pay a little more in first cost?

DON'T BUY A HIT-AND-MISS ENGINE

And expect it to work satisfactorily on kerosene. A gasoline engine with a kerosene attachment is cheaper to buy, but it will never give you satisfaction. True, it can be made to run at times fairly well, but we know, and believe you will agree, that an engine that cannot be depended on to do its work whenever you want it is not a good buy, no matter how low the price. This is not prejudice nor an effort on our part to make you believe something that is not true, for we build both kinds. It is a fact that any competent engineer will bear us out in. We have spent a lot of time and money experimenting and proving this, and offer these facts to help you decide on the right type of engine to buy.

THROTTLE GOVERNED vs. HIT AND MISS

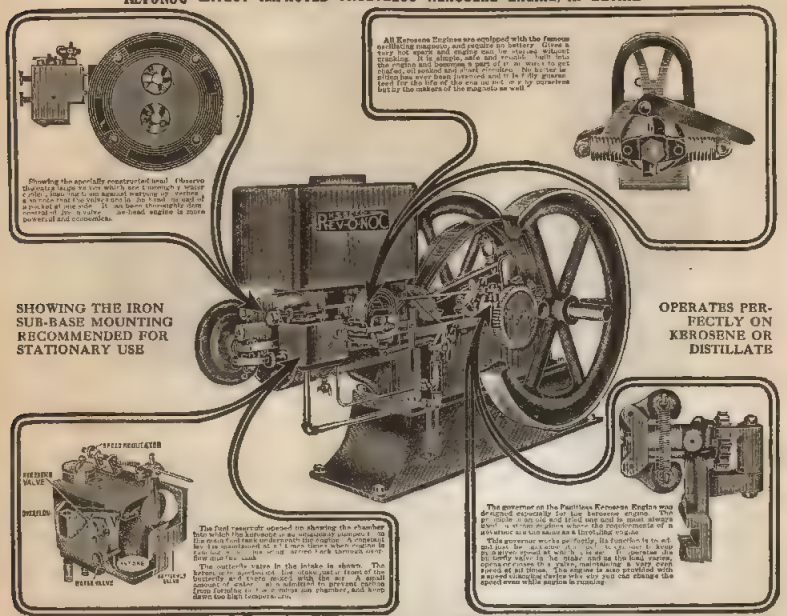
Most gasoline engines are governed on the hit-and-miss principle; that is, they always take a full charge and explode it as energy is required, and the intervals between power strokes depends on the load the engine is carrying. If it is a full load it would fire every time, but on a half load the governor acts and prevents another charge being taken into the cylinder and fired until all the energy from the previous charge is used and the speed begins to be reduced, then the governor acts again and allows another charge to be taken. This principle has been found to be perfectly satisfactory for gasoline and all REV-O-NOC Gasoline Engines are so constructed with the governor in the fly wheel. But in the kerosene engine the requirements are different.

HIGH SPEED GOVERNOR

The ball in the fly wheel type does not act quickly enough, so we designed a special high speed fly wheel governor, [illegible] the same as those used on most steam engines. This bolts to the engine bed and is driven from the large engine gear. It governs the engine speed perfectly and makes it a beautiful, smooth-running engine that will give years of satisfactory service.

Prices on Application

REVONOC LATEST IMPROVED FAULTLESS KEROSENE ENGINE, IN DETAIL



Showing Special Features Wherein It Differs from Ordinary Hit-and-Miss Engine with Kerosene Burning Attachment.

No Kerosene Engine with the governor in the fly wheel will run as smoothly or work as well on kerosene, as one with a high speed fly ball governor.

No Kerosene Engine depending on an attachment for heating the fuel or air can possibly run as well on kerosene as one controlled by a butterfly valve in the intake.

No Kerosene Engine will work well with a poor ignition system. The Oscillating Type magneto used on all REVONOC throttling-governed kerosene engines is absolutely reliable, requires no battery, and will start engine without cranking.

No Kerosene Engine will work properly and economically unless the head is specially constructed. It requires high compression and extra large valves.

SAVES ITS COST IN ONE YEAR

For example, suppose you have a seven-horse gasoline engine and your work would require five gallons to run it ten hours. At the present price of gasoline here (20c per gallon), the cost would be $1.00. Now, doing the same work, a REVONOC Kerosene Engine would not use any more gallons and the price is 7 cents, or 35 cents for ten hours. A saving of 65 cents, or enough to pay for the total cost of the engine in less than 225 days—not a year's steady running. Is any more argument necessary? Remember, the REVONOC Kerosene Engine will give you just as good service in every way as any gasoline engine made. It has no more complications; we do not heat the kerosene or treat it in any way; simply use it the same as any other engine uses gasoline. These are hard cold facts we are ready and willing to prove.

REVONOC KEROSENE ENGINES, THROTTLE GOVERNED

Catalog No.	Actual Horse Power	Portable Semi-Portable on Wood Skids	Horse Power Rated	Horse Power Actual	Portable Semi-Portable Mounted on Steel Truck	Horse Power All Steel Truck	Weight Saw Cut Steel Axi Steel	Extra for Steel Axles from Sub-Base	Extra for Friction Clutch Pulley in Place of Regular	Diameter of Cylinder Bore	Length of Stroke	Revolutions Per Minute	Diam. and Face of Pulley in In.	Crank Shaft Diameter	Diameter of Fly Wheels in Inches	Fly Wheel Weight Each	Approximate Ship. Weight
F30K	3	$188 00	$208 00	.....	.....	.....	.....	$ 6 45	$ 33 75	4½	6	400	8x 5	1¼	24	90	500
F50K	5	284 00	305 80	427 00	528 00	9 50	39 00			5	9	375	10x 6	1¾	28	165	795
F70K	7	367 00	.	511 00	610 50	14 75	42 50			6	10	350	14x 8	2	30	215	1078
F100K	10	600 00	.	773 00	857 00	17 50	46 25			6½	12	325	16x10	2½	36	315	1600
F150K	15	946 00	.	1,061 00	1,134 00	57 50	57 50			7½	14	300	16x12	2¾	42	385	2300
F120K	12	732 00	.....	947.00	1,019.00	28 00	51 25			7¾	15	275	18x12	2¾	46	470	2450

WE GUARANTEE ALL REVONOC ENGINES TO DEVELOP 15 PER CENT MORE THAN THEIR RATED HORSE POWER

Prices on Application

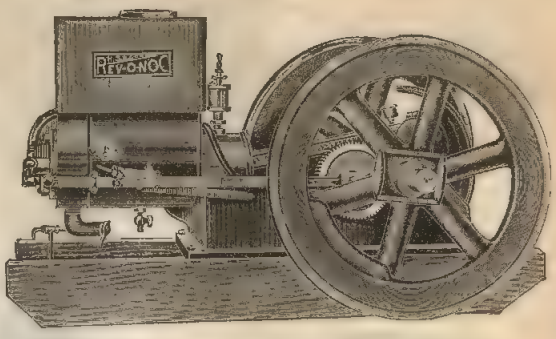
REVONOC Gasoline Engines

Hit-and-Miss Governed

Magneto or Battery Ignition

Self-Contained Hopper Cooled

Portable Semi-Portable and Stationary



Built in Sizes 1¼, 2, 3, 5 7, 10, 12 and 15 H.-P.

The illustration above shows the REVONOC Engine in the cooler and style of mounting regularly furnished. They are of the four-cycle, water cooled, hopper jacket, semi-portable type, self-contained, make and break ignition, large bore, long stroke, slow speed built for heavy duty and long life

Special Features

Are Simplicity, Few Parts, Extra Large Bearings, Liberal Rating, Easy to Start and Keep Running, and Interchangeable Parts.

REGULAR EQUIPMENT The REVONOC Engine comes to you complete, ready when given fuel water and oil to start and run. It is equipped with batteries, spark coil, wrenches and book of instructions, fitted with standard size plain pulley as shown in table of specifications. Mounted on wood skids as shown in illustration.

EXTRA EQUIPMENT Hand and horse portable mounting, wood saw outfits, iron sub-base, instead of wood skids, built-in oscillating magneto in place of batteries, friction clutch pulleys instead of plain furnished at prices shown in table

GUARANTEE We guarantee REVONOC Engines to be made of the very best material and workmanship free from flaws or imperfections of any kind. Any part showing defect within a period of five years will be replaced free of charge. That they will develop 15 per cent more than their rated horse power and be as economical in fuel consumption with gas, gasoline or kerosene as any engine made no matter whose. That it will reach you safely. That it is complete in every way and when given fuel, water and oil will start and run satisfactorily. This applies to both the gasoline and throttling governed kerosene engines

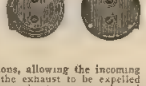
CARBURETOR Is of our special design suction feed from fuel tank located in base of engine. It is simple, fool proof and absolutely reliable, has an air shutter for easy starting and will not waste gasoline even if valve is left open. It is so constructed that the fuel is mixed automatically with the proper amount of air to produce a perfect explosion

FLY-WHEELS

While it may seem that fly-wheels are not of much consequence, they are really quite an important part of an engine. It is a favorite place for manufacturers who wish to cheapen their engine to cut out weight. It would be almost impossible to get a fly-wheel too heavy. Its function is to store up energy and to carry the engine over the idle stroke. This is a dimension the careful buyer will look into carefully in selecting an engine. The REVONOC fly wheels are large carefully machined, perfectly balanced, of large dimensions and ample weight.

CYLINDER HEAD AND VALVES

The head of the REVONOC bolts to the back end of the cylinder, and like the cylinder, is water cooled in all sizes except the 1¼ and 2 H. P. In these small sizes there is not enough heat generated to require it.



REVONOC Valves are of extra large dimensions, allowing the incoming charge to completely fill the cylinder and the exhaust to be expelled freely without back pressure. The heads are made of cast iron riveted to steel stems, and are ground into their seats in a special machine that does it perfectly.

THE GOVERNOR

The governor of the REVONOC is very simple, positive in action and will regulate the speed of the engine to a nicety whether the engine is running light or on full load. It consists of two weights straddling the fly wheel hub and hinged to a collar fastened to the hub. This is an old and thoroughly tried type of governor and never gives any trouble. There is also provision for changing the speed of the engine while running.

THE IGNITOR

REVONOC Engines are regularly equipped with the make-and-break system of ignition so called by reason of the way it works. It consists of one stationary insulated electrode and one movable one, called the hammer, both fitted with special points. When the proper time to fire the charge occurs the hammer is tripped and both points of the electrodes brought in contact. This closes the electric circuit for an instant and as they fly apart a good hot spark is generated.

It is a very simple reliable system, easy to understand and rarely ever causes trouble

NO PACKED JOINTS

The special features of our igniter are: The rod with which it can be taken out and cleaned simply by unscrewing two cap screws. It has a ground taper joint and fits into the engine same as a stopper into a bottle, and requires no packing whatever.

Spark is controlled by the governor same as the valves and is only made when needed.

CRANK SHAFT

Crank shafts in the REVOLUTION Engines are of ample size, of full length, the pulley is keyed directly to the shaft instead of being bolted to the fly-wheel. This makes it possible for you to use any pulley that will fit the shaft.

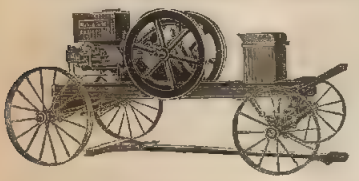
Cranks are forged from a solid piece of special high carbon steel, turned and ground absolutely true.

The size of the crank is an excellent criterion of the quality of an engine. It is to the engine what legs are to a horse. Don't buy any engine without knowing the diameter of the crank shaft.

PISTON, RINGS AND CONNECTING ROD

Both piston and rings are made of the best close grained iron, accurately machined and finished in special machines. Piston is the extra long trunk type ground to fit cylinder perfectly. Connecting rod is of the "I" beam section made of material that positively will not crystalize. It is fitted with bronze bearings as piston and special bearing metal at crank end, with provision for taking up wear at both places. Piston pin is steel ground and hardened. Rings are made them locked in a special machine, returned and ground, insuring a perfectly gas-tight piston.

REVOLUTION ALL STEEL HORSE PORTABLE



It is the Standard REVOLUTION Engine, mounted on all steel truck, especially designed for the purpose, with extra wide wheels and good strong tongue. Large tool and battery box under seat.

Engine is bolted direct to heavy steel cross beams. No wood underneath engine.

Engine is carefully balanced and will run with very little vibration.

A mighty convenient all around power.

REVOLUTION ALL STEEL PORTABLE SAW-RIG
In sizes 5, 7, 10, 12 and 15 H.-P.

Furnished complete ready to start and go to sawing. Equipment consists of our Standard Engine removed from skids and mounted on an extra heavy all steel truck.

With an all steel tilting Saw-Table. Equipped with saw guard balance wheel.

Saw (set and sharpened), extra heavy belt, belt tightener, batteries and all other usual equipment.

No better or more complete Saw-Rig was ever offered. Saw attachment can be removed and engine and truck used as a regular Horse Portable outfit.

OSCILLATING MAGNETO

All REVOLUTION Gasoline Engines except the 1½ H. P. can be furnished equipped with a Built-In Oscillating Type Magneto instead of the regular battery equipment at additional charge (shown in price list). This does away with a battery entirely and is the most reliable form of ignition known. It is bolted securely to the engine and becomes a part of it, always gives a big fat spark and engine can be started with it without cranking. It soon pays for itself not only in convenience but in the saving of batteries alone.

FRICTION CLUTCH PULLEYS

Oftentimes a Friction Clutch Pulley on an engine is a great convenience, particularly when the engine has to be started with its full load, which necessitates throwing off the belt until the engine is started and then putting it on after it is running. By means of a Friction Clutch you can, by throwing out the clutch, start the engine without the pulley turning and after the engine is started throw in the clutch and start the load.

Our Clutches are heavy and strong, without springs or other complications. We can furnish almost any size Clutch. They are extra equipment on both the gasoline and kerosene engines. For regular sizes and prices see price list.

REVOLUTION HAND PORTABLE

In sizes 1¼, 2, 3 and 5 H.-P.

This makes a very handy portable power.

It is often very convenient to be able to move an engine from one location to another easily. Many find it profitable to have one of these small portable engines to do the pumping, churning, washing and other light work, and a larger engine to take care of the heavy work.

Truck is substantially made, easy running. It makes a very convenient way for the dealer to show a sample engine, put it up where it can be easily examined, conveniently started, and shown in operation.

The engine retains it regular skid mounting, and by simply taking it off the truck it can be converted into a stationary engine.

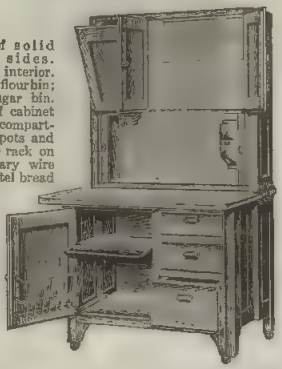
SIZE, STYLE AND PRICE

Catalog No.	Actual Horse Power	Regular Stationary Mounted on Wood Skids	Hand Portable Truck Mounted	Horse Portable All Steel Truck	Wood Saw Outfit All Steel	Extra for Gas Attachment	Extra for Iron Skid Base	Extra for Built-In Oscillating Magneto	Extra for Friction Clutch Pulley in Place of Regular	Diameter of Cylinder Bore	Length of Stroke	Revolutions Per Minute	Diam. and Face of Pulley in In.	Crank Shaft Diameter	Diameter of Fly Wheels in In.	Fly Wheel Weight Each	Approximate Net Shipping Weight
F10	1¼	$ 68 75	$ 78 75	-	-	-	$ 3 68	★		3½	4	500	4x 4	1⅛	15½	30	300
F20	1½	88 50	98 50	-	-	$17 50	5 00	$20 50	$24.25★	4	5	450	4x 4	1⅜	18	45	315
F30	3	138 50	159 50	-	-	19 00	6 50	20 50	33 75★	4½	6	400	8x 3	1⅝	24	90	500
F50	5	203 50	224 00	$346 50	$ 447 00	22 00	9 75	23.50	39 00★	5	6	375	1 x 6	1¾	28	165	795
F70	7	275 00	.....	420 00	520 00	25 00	14.75	23 50	42 50★	6	10	350	1x x 8	2	30	215	1078
F100	10	466 50	.....	640 00	740 00	26 50	17 50	26 50	45 25★	6½	12	325	1.6x x 8	2½	36	315	1600
F120	12	626.80	.....	843.00	914 00	28.25	28.00	29 50	51.25★	7½	14	300	16x17	2⅞	42	385	2200
F150	15	760 00	.....	976 00	1,046 00	29 25	57 50	29 50	57 50★	7½	15	275	18x17	2¾	48	470	2450

WE GUARANTEE ALL REVOLUTION ENGINES TO DEVELOP 15 PER CENT MORE THAN THEIR RATED HORSE POWER

KITCHEN CABINETS

ROLL FRONT



Front made of solid oak, hardwood sides. White enameled interior. Removable metal flour bin; sanitary glass sugar bin. The lower part of cabinet has a very roomy compartment for pans, pots and kettles, with wire rack on the door. Sanitary wire sliding shelf; metel bread and cake drawers, and drawer for cutlery.

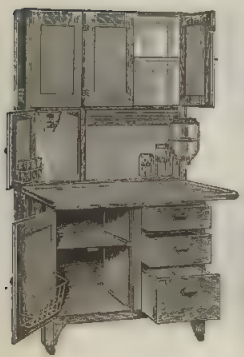
Height 69 ins.; width 41 inches; depth 27 inches.

Each

No. 17WE –With nickeloid sliding top; (without spice set) $69 75

No. 17PT—With porcelain sliding top and six glass jars for spices, tea and coffee..... 80 25

One in a crate. K. D ; shipping weight each 165 lbs.



ROLL CURTAIN FRONT

Cupboard top, white enameled inside; metal tilting flour bin, with sifter; china closet; glass sugar jar and six glass jars for spices, tea and coffee.

Base has a full sliding top and a roomy compartment for pans, pots, etc., with rack on door; one metal bread and cake drawer two roomy drawers for cutlery, linens, etc.

Clear grained solid oak, high gloss spar varnish finish; height 71 inches; width 41 inches; depth 27 ins.

Each

No. 6WE—With sliding nickeloid top $69 75

No. 6PT—With sliding porcelain top 81 75

Crated; shipping weight each 165 lbs.

KITCHEN CABINETS

Cupboard top; white enameled inside; all oak, box base construction; wire pan rack, sliding wire shelf cutting board; metal bread box; handy filing hooks, extract bottle rack, tea, coffee and spice set; glass front flour bin, which lowers to worktable for easy filling.

Height over all 69 inches; width 41 inches; depth 24 inches; work table 24x 41 inches.

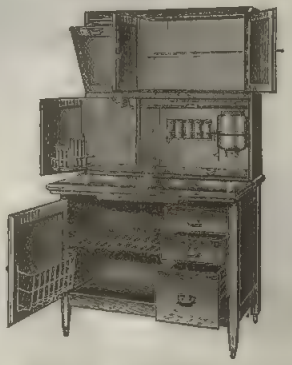
Each

No. 19WE—With nickeloid sliding top..... $72 75

No. 19PT—With sliding porcelain top..... 89 25

Crated; shipping weight 168 lbs.

—BLUE GRASS— ROLL CURTAIN FRONT



Solid oak, dull rubbed finish; reinforced sanitary leg base.

Cupboard top is white enameled inside and equipped with metal tilting flour bin; glass sugar bin; glass tea and coffee jars; and five glass spice jars. A disappearing wood curtain front covers sugar bin and spice jars.

Base has sliding table top; kneading board, metal cake or bread drawer; two smaller drawers, and large utensil department with wire sliding shelf and wire pan rack on inside of door.

Height 70 in.; width 38 in.; table top 40x25 inches.

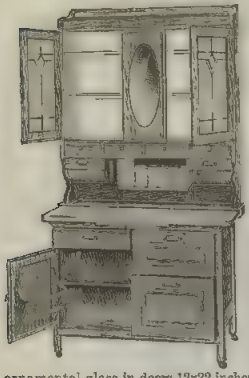
Each

No. BG1WE –With sliding aluminum top..... $100 50

No. BG1WE-PT—With sliding porcelain top..... 111 00

Shipped base and top separate in two bundles, burlapped; shipping weight each 250 lbs.

KITCHEN CABINETS
—BLUE GRASS—



Adjustable plank top, made of alternating strips of black walnut and white maple, water proof, base 42x27 inches.

Large cupboard with sliding shelf; pan holder on door, sliding kneading board; all metal bread box with soliding cover; sliding roller bearing flour bin 55 pounds capacity; cutlery drawer; steel casters; nickel plated hardware.

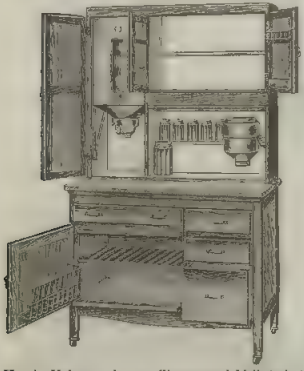
Top contains large white enameled china closet space with three shelves; scoop bottom sugar and meal bins; four small drawers; set of six crystal glass canisters. Plate rail; heavy French plate mirror; color leaded ornamental glass in doors 12x22 inches.

No. BG60—Height over all 78 inches ..... Each $173 25

Shipped base and top separate in two crates; weight each 250 lbs.

ROLL CURTAIN FRONT

Porceliron Sliding Top Is Stain and Acid Proof and Will Not Crack or Chip with Extreme Heat or Cold.



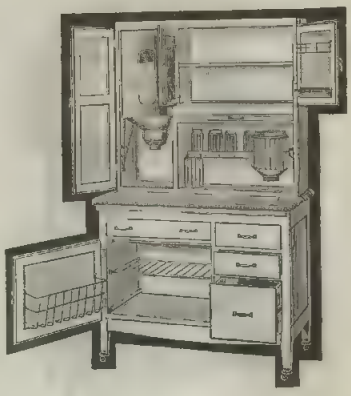
Top—Rounded corners; beautiful art glass doors; interior white enameled; tilting removable flour bin, capacity 50 lbs.; rapid sifter; disappearing front curtain, rolling upward; handy drawer underneath flour bin; large china closet; sanitary glass swinging sugar bin; six piece set of glass jars, for spices, tea and coffee. Handy-Helps on doors—Change and Milk ticket trays, extract rack, bill hook, receipt book and holder, and valuable charts of kitchen information, such as time for baking and boiling, table of proportion, etc.

Base—Full sliding table top, porcelron; sliding false bottom—places bulky things in easy reach; sanitary wire sliding shelf; wire lid rack on door; large hardwood meat board; large utensil cupboard, deep divided cutlery drawer, spacious drawer for linen, bread and cake drawer of ample size, automatic opening and closing lid, sanitary leg base, ball-bearing casters. Each

No. BG20WE Clear grained solid oak, high gloss Spar varnish finish; porcelain sliding table top; height 69 in.; size table top 40x26 in..; kneading board 17x20 ins$130 50

Base and top crated separately; shipping weight each 284 lbs.

KITCHEN CABINETS
—BLUE GRASS—
ROLL CURTAIN FRONT



Porcelron Sliding Top Is Stain and Acid Proof and Will Not Crack or Chip with Extreme Heat or Cold.

Top—Rounded corners; beautiful art-glass doors; tilting removable flour bin, capacity 50 lbs.; rapid sifter; disappearing front curtain, rolling upward; large china closet; sanitary glass swinging sugar bin; six piece set of glass jars, for spices tea and coffee. Handy Helps on doors—Change and Mill ticket trays, extract rack, bill hook, receipt book and holder and valuable charts of kitchen information, such as time for baking and boiling, table of proportion, etc.

Base—Full sliding table top, porcelron; sliding false bottom—places bulky things in easy reach; sanitary wire sliding shelf; wire lid rack on door; large hardwood meat board; large utensil cupboard; deep divided cutlery drawer; spacious drawer for linen; bread and cake drawer of ample size; automatic opening and closing lid; sanitary leg base; ball-bearing casters.

Each

No. BG21WE—All white enameled; porcelain sliding table top; height 69 inches; size table top 40x26 inches; kneading board 17x20 inches..... ..$156 75

Base and top crated separately; shipping weight each 288 lbs.

KITCHEN CABINETS

—BLUE GRASS—

ROLL CURTAIN FRONT

Porcelain Sliding Top is Stain and Acid Proof and Will not Crack or Chip with Extreme Heat or Cold.
47 Inches Wide.

Top—Rounded corners; panel doors; tilting removable flour bin, capacity 50 lbs.; rapid sifter; disappearing front curtain, rolling upward; which measures enough coffee for a cup at each operation; sanitary glass swinging sugar bin; six piece set of jars for spices, tea, etc. Handy-Helps on doors—change and milk ticket trays, extract rack, bill hook and holder, and valuable charts of kitchen information, such as time for baking and boiling, table of proportion, etc.

Base—Full sliding table top, porcelain; sliding false bottom places bulky things within easy reach; sanitary wire sliding shelf; wire lid rack on door; large hardwood meat board; large utensil cupboard; bread and cake drawer of ample size; automatic opening and closing lid; large drawer for linen; deep divided cutlery drawer; sanitary leg base; ball-bearing casters.

Each

No. BB50WE—Clear grained solid oak, high gloss varnish finish; porcelain sliding table top; height 69 inches; size table top 47x27 inches; kneading board 17x21½ inches.....$167 25

Base and top crated separately; shipping weight each 344 lbs.

KITCHEN CABINETS

—BLUE GRASS—ALL STEEL

White Enameled.

A strictly sanitary, convenient and handsome cabinet. The entire body is of heavy sheet steel with all joints electrically welded, enameled a snow white.

The enamel is applied similar to that on white-enameled steel beds. A number of coats are applied by an air brush and each coat baked on. The result is, a surface that will not chip or peel off. Can be easily cleaned.

The structural frame is of heavy angle steel, cut and formed on special machines; securely welded into proper shape, causing every drawer and door to fit perfectly.

The base is fitted with tin lined bread or cake box, one large linen drawer, one towel drawer, one partitioned cutlery drawer, large utensil compartment with removable shelf, and pan rack on inside of door. A white maple bread board is also furnished.

The top contains a tilting flour bin with flour sifter, glass sugar container, seven crystal glass spice jars and a crystal glass measuring cup.

Height over all 70 inches; width 40 inches; top 40½x26 inches; extending to 37 inches when drawn out.

Each

No. BG2S—With sliding porcelain top.....$172 50

Base and top crated separately; shipping weight each complete 320 lbs.

KITCHEN CABINETS

Each

No. 9 - Hardwood, golden oak gloss finish; wood top 41x25 inches; two flour bins with 2-ply veneered bottoms, two upper drawers; sanded poplar kneading board . . $24 00

Crated; shipping weight each 85 lbs

Each

No. 10 — Hardwood, golden oak finish; base 21x45 inches; height over all 60 inches; two flour bins with 2-ply veneered bottoms; two upper drawers; sanded poplar kneading board; cabinet is finished inside and fitted with shelf; plain glass in doors. $40 50

Crated; shipping weight each 150 lbs.

Front made of solid oak, hardwood sides. Golden oak finish. Two large drawers with veneered bottoms, for flour and meal; two drawers for cutlery; sanded poplar kneading board 16x24 in.; cabinet finished inside and fitted with shelf; art glass in doors.

Each

No. 11—Height 67 in.; width 42 in.; depth 26 in. . . $49 05

Crated; shipping weight each 170 lbs.

KITCHEN CABINETS

Front made of solid oak, hardwood sides. Golden oak finish. Flour bin with veneered bottom, one large drawer for cutlery; two small drawers; kneading board in convenient place. Base of cabinet has a roomy compartment for pans, pots and kettles with a rack on the door. Cabinet finished inside and fitted with shelf; plain glass in doors. Stationary poplar top.

Each

No. 12—Height 64 inches; width 40 inches; depth 25 inches $49 50

One in a crate, K D; shipping weight 150 lbs.

—TRADE STIMULATOR—

Front made of solid oak hardwood sides. Has a heavy nickeloid sliding top; metal tilting flour bin; swinging glass sugar bin. The lower part of the cabinet has a very roomy compartment for pans, pots and kettles, with a pan rack on the door. Has three roomy drawers for cutlery, linens, etc.

Each

No. 16WE—With nickeloid sliding table top; height 89 in.; width 41 in.; depth 27 in $58 50

One in a crate, K. D.; shipping weight each 145 lbs.

LIONEL ELECTRIC TRAINS

The finest line of electric trains made, perfect reproductions of the large electric passenger and freight trains, made of heavy steel throughout, baked enameled, nickel plate trim; engines with electric head light and bell; powerful motors; all numbers excepting T3306, T3307 and T3308 equipped with heavy steel turning double trucks; complete with rheostat for regulating current.

"O" GAUGE PASSENGER TRAINS

Length 20 ins., circle track 30 ins. in diameter

T3204—Length of complete train 20 ins., consisting of one 7 in. locomotive, two 7 in. Pullman cars, 8 sections OC curved track, 4 pieces straight track, making circle 30 ins. in diameter and one controlling rheostat each in box. Each..... 7.25

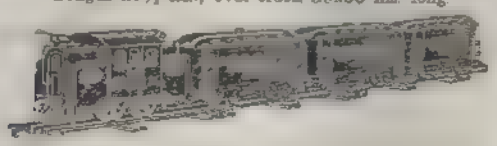
Length 23 ins.; oval track 30x39 ins. long

T3267—Length of complete train 23 ins.; consisting of one 7 in. locomotive, one 7½ in. Pullman car, one 7½ in. mail car, one controlling rheostat, 8 sections OC curved track, and 4 OS straight track, making an oval 39x30 ins.; each in box. Each..... 9.50

Length 31½ ins.; oval track 30x49 ins. long

T3209—Length of complete train 31½ ins.; consisting of one 8 in. reversing locomotive, one 7½ in. mail car, two 7½ in. Pullman cars, one controlling rheostat, 8 sections of OC curved track and 6 sections of OS straight track, making an oval 49x30 ins.; each in box. Each..... 11.50

Length 37½ ins.; oval track 30x60 ins. long



T3271—Length 37½ ins.; consists of one 10 in. reversing locomotive, two 8¾ in. Pullman cars, one 8¾ in. observation car, 8 sections OC curved, 6 sections OS straight track, making oval 30x60 ins.; one controlling rheostat; fitted with ornamental glass windows, interior seats, removable roof, while the locomotive is equipped with a controller which starts, stops and reverses it; the most complete and elaborate train made to operate on an "O" track; each in box. Each..... 15.50

STANDARD GAUGE PASSENGER TRAINS

Length 34 ins.; oval track 42x63 ins. long

T3276—Complete length of train 34 ins.; consisting of one 11 inch reversing locomotive, one 11 in. Pullman car, and one 11 in. observation car, and outfit includes 8 curved and 2 straight sections of track, making an oval 63x42 ins.; each in box. Each..... 15.50

Length 48 ins.; oval track 42x69 ins. long

T3278—Complete length of train 48 ins.; consists of one 12 inch reversing locomotive, two 11 inch Pullman cars, and one 11 in. observation car; 8 curved and 4 straight sections of track making a circle 3½ ft. in circumference or an oval 42 ins. wide by 69 ins. long; each in box. Each..... 20.00

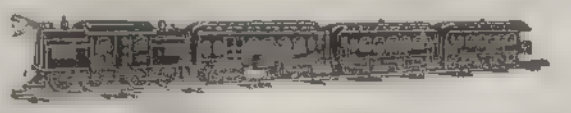
Length 60 ins.; oval track 42x87 ins. long

T3282—Complete length of train 60 ins.; consisting of one 15 inch reversing locomotive; one 11 inch combination Pullman and baggage car, one 11 inch Mail car, one 11 inch Pullman, and one 11 inch observation car, finished in rich orange color lettered in gold, [illegible] curved track, one section CC curved track with electric [illegible] 2 switches in box. Each..... 27.00

Length 52 ins.; oval track 42x60 ins. long

T3281—Complete length of train 52 ins.; consisting of one 15½ inch reversible locomotive, and two 16 in. day coaches; complete with 8 sections curved and 4 sections straight track making circle 3½ feet in diameter, or oval 3½x5 feet long. The longest and handsomest engine and cars made and big value at the price. Each..... 29.00

Length 65 ins.; oval track 42x97 ins. electric lighted throughout.



T3283—Length of train 65 ins.; consisting of one 15½ inch reversing locomotive, one 16½ in. combination Pullman and Baggage car, one 16½ in. Pullman, and one 16½ in. observation car; 8 sections curved and 8 sections straight track making an oval 42 ins. wide by 97 ins. long; complete with electric head light and set of interior lights for all cars; complete in box. Each..... 38.50

STANDARD GAUGE FREIGHT TRAINS

Length 31 ins.; circle track 42 ins. in diameter.

T3274—Length of train 31 ins.; consists of one 11 in. locomotive, one 9¾ in. gondola car, one 9¾ in. caboose, and 8 sections of curved track, making a circle 42 ins. in diameter; each in box. Each..... 12.75

Length 63½ ins.; oval track 42x69 ins. long.

T3277—Length of train 63½ inches, consists of one 12 in. reversing locomotive, one 9½ in. gondola car, one 9½ in. cattle car, one 9½ in. box car, one 9½ in. ballast car and one 9¾ in. caboose; 8 sections curved and 4 sections straight track making a circle 42 ins. in diameter or an oval 42x69 ins. long; each in box. Each..... 20.50

Length 84 ins.; oval track 42x125 ins.; engine electric lighted.

T3284—Complete length of train 84 ins.; consists of 15½ in. reversing locomotive, and one each 11 in. flat car, 11 in. gondola car, 11 in. cattle car, 11 in. box car, 11 in. oil car, 11 in. ballast car and 9¾ in. caboose, 10 straight and 8 curved sections of track, making an oval 42x125 ins. A handsome train, the locomotive having 2 sets of 2½ in. driving wheels connected in pairs, and will not leave the track even on the sharpest curves; each in box. Each..... 38.50

LIONEL "O" GAUGE ELECTRIC FREIGHT TRAINS

LIONEL

Length 21 ins.; circle track 30 ins. in diameter

T3268—Length of complete train 23 ins., consisting of one 6 in. locomotive, two 7½ in. gondola cars and 8 sections of curved OC track, making circle 30 ins. in diameter; each in box. Each 5.00

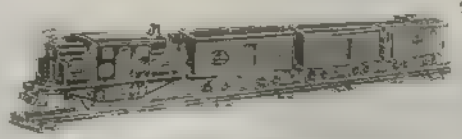
Length 20 ins.; oval track 30x39 ins. in diameter

T3265—Length of train 20 ins., consisting of one 6 in. locomotive, one 6 in. box car, one 6 in. caboose, one controlling rheostat and 8 sections OC curved track and two sections OS straight track, making oval 30x39 ins. in diameter, runs in one direction only. each in box. Each..... 6.00

Length 23 ins., oval track 30x39 ins. in diameter

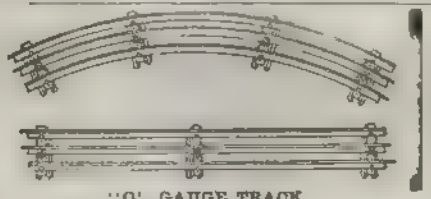
T3208—Length of train 23 ins. consists of one 7 in. locomotive, one 7½ in. box car, one 7½ in. caboose, 8 sections OC curved and 2 sections OS straight track, making an oval 39x30 ins., and one controlling rheostat, [illegible]; each in box. Each 9.50

Length 31½ ins. oval track 30x48 ins. in diameter



T3270—Length of train 31½ ins.; consists of one 7½ in. locomotive, two 7½ in. box cars and one 7½ in. caboose; one controlling rheostat; 8 sections OC curved and 6 sections OS straight track making oval 30 ins. wide and 48 ins. long; each in box. Each..... 11.50

EXTRA TRACK EQUIPMENT FOR ELECTRIC TRAINS



"O" GAUGE TRACK

T3301—OS, straight track, 10¼ in. long. Per section..... .15
T3302—OC, curved track, 10¼ in. long. Per section..... .15

STANDARD GAUGE

T3316—S, straight track, 14 in. long. Per section..... .25
T3317—SC, curved track, 16 in. long. Per section..... .25

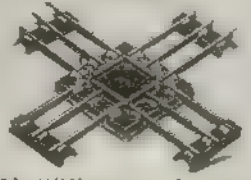
SWITCHES AND CROSSOVERS

WITHOUT ELECTRIC LIGHTS

T3305—"O" gauge, (right and left hand), the lever which moves the rails also operates the locking mechanism; signal lanterns have red and green glass; height 11½ in., width 5½ in., height 3 in.; connects with track in same manner as straight or curved sections; each in box, right and left. Per pair 2.85

T3310—Standard gauge, length 16½ ins., width 8 ins., height 4½ ins.; right and left. Per pair..3.75

CROSSOVERS



T3304—"O" gauge; for use in making [illegible] switches for making figure "8" and figure "8" loops; measures 10¼ in. square; cross rails mounted on solid base with box. Each .65

T3318—Standard gauge, as T3304, 12 ins. square, each in box. Each ..... .95

T3303—"O" gauge, 45 degree crossing, permitting the making of more sharp loops and occupying less space in layouts than crossing T304 above, each in box. Each 93

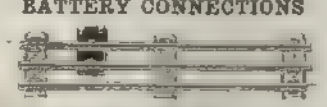
WITH ELECTRIC LIGHTS

T3306—"O" gauge, same construction as T3305 above, but equipped with electric signal, having an electric bulb which can easily be removed; lights show red and green signals; each in box right and left. Per pair 3.75

T3320—Standard gauge, as T3319 above, with electric light equipment; right and left. Per pair 5.00

Our lines in every department are so strong, so complete and so up-to-date, and at the right prices, that you can sell all you buy and at a nice profit, too. Send in your order early.

BATTERY CONNECTIONS



"O" GAUGE

T3307—OSC, straight, 10¼ ins. Each ..... .25
T3308—CC, curved, 11 ins. Each ..... .25

STANDARD GAUGE

T3322—SC, straight, 14 ins. Each ..... .37
T3323—CC, curved 16 ins. Each ..... .37

SEMAPHORES

T3407—Made of steel throughout, base, arms and ladders, and handsomely finished in bright enamels.

T3407—One signal arm; 8¾ in. high, showing green, red and yellow discs; operated by lever, no electric equipment; each in box. Each ..... .65

T3400—One signal arm, 14 inches high, with electric equipment with one bulb; each in box. Each..1.65

T3410—Two signal arms; 14 ins. high, with 2 electric bulbs; each in box. Each. 2.65

LAMP POSTS

SINGLE

T3398—Single arm, 8¾ ins. high; complete with one electric bulb; each in box. Each ..90

T3400—Same, larger, 13 ins. high; each in box. Each 1.60

DOUBLE

T3401—Double arms, 13 in. high; complete with two electric bulbs; each in box. Each. 2.50

TELEGRAPH POST

T3413—Steel lattice work, yellow enameled upright with green base and arm, with real glass insulators; brass tipped; 8⅝ ins. high, insulator arm 2½ ins. wide; each in box. Each 1.45

CROSSING SIGNALS

T3416—Steel lattice work upright yellow enameled, green base; sign brass enameled white, red letters [illegible], height 8¾ ins., [illegible] .65

T3417—[illegible] track; for "O" gauge track. Each 2.25

T3418—As T3417 but for standard gauge. Each 2.45

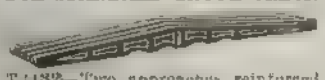
STEEL BRIDGES

FOR "O" GAUGE TRACK

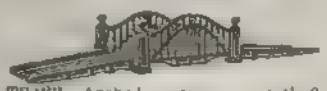
T3427—Made of steel throughout, truss lacework shaped and embossed; center span and two reinforced approaches, length 31½ in., width 5½ in., height 4 ins. Each 2.25

T3428—As T3427 but with two center spans; total length 42 ins., 5½ ins. wide, 4 ins. high. Each..3.75

FOR STANDARD GAUGE TRACK



T4132—Two approaches reinforced [illegible] total length 28 ins., 5½ ins. wide, 2 ins. high. Pair...1.90



T3433—Arched center span with 2 approaches; total length 42 ins., 6½ ins. high. Each.....4.50

T3434—Same as T3433, but with 2 center spans and 2 approaches; total length 56 ins., 6½ ins. wide, 6¼ ins. high. Each... 6.50

T3435—Same as T3433, but with 3 center spans and 2 approaches; total length 70 ins., 6½ in. wide, 6¼ in. high. Each 8.50

EXTRA PARTS FOR LIONEL STANDARD GAUGE TRAINS

Sheet steel all perfectly enameled in bright colors and handsomely striped

CABOOSE

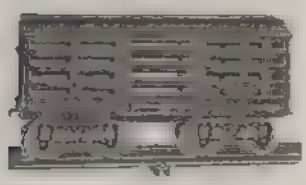
T3365—Standard gauge track; 9⅜ long, 3 in. wide, 4¾ in. high each in box. Each..... 1.60

BOX CAR

T3363—Standard gauge track; 9½ in. long, 3 in. wide, 4¼ in. high; each in box. Each..... 1.60

T3360—Standard gauge track; 11 ins. long, 3½ ins. wide, 5¼ ins high; each in box. Each.... 2.65

CATTLE CAR



T3362—Standard gauge track; 9½ [illegible] wide, 4½ in. high; [illegible] 1.60

T3368—Standard gauge track; 11 long, 3½ in wide, 5¼ in. high; each in box. Each.....2.65

GONDOLA CAR

T3361—Standard [illegible] in. long, 3 in wide, 2¾ in. high each in box [illegible].....1.15

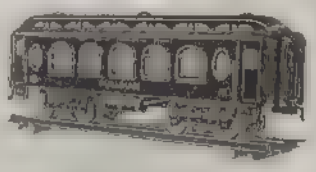
BALLAST CAR

T3361—Standard gauge [illegible] in. long, 3 in wide, 3¾ in high each in box. F [illegible].....1.60

OIL CAR

T3370—Standard gauge track [illegible] in. long, 3½ [illegible] wide, 5¼ [illegible] each in box. Each 2.65

PULLMAN COACH



T3381—Standard gauge track; 16½ in. long, 3½ in. wide, 6 in high each in box. Each 4.75

PULLMAN AND BAGGAGE

T3382—Standard gauge track; [illegible] tion Pullman and baggage [illegible] in. long, 3½ in. wide, 6 in high each in box. Each 5.00

OBSERVATION

T3384—Standard gauge track, [illegible] in. wide, 6 in high [illegible] 5.00

O" GAUGE LOCOMOTIVES

T3386—"O" gauge track; 6 in long, 3 in. high, 2½ in. wide; 4 wheels and runs in one direction only; complete with electric head light; each in box. Each.....3.75

T3387—"O" [illegible] long; 3½ in high, 2½ in. wide, with reversing controller, allowing it to run both backward and forward; complete with electric headlight; each in box. Each... 8.50

STANDARD GAUGE LOCOMOTIVES

T3302—Standard gauge track; 11 in. long, 3 in wide, 4½ in. high; full nickeled steel rim wheels, with reversing controller, electric headlights and connections for illuminating Pullman cars; very powerful and will pull big loads; each in box with 8 sections curved track Each 11.50

BING'S ELECTRIC TRAINS

You cannot buy a better made, or more handsomely finished train anywhere than this line; and remember we guarantee them

T3201—Lithographed 5½ in. sheet steel electric locomotive, tender and two 4 in. day coaches; nickel painted and striped; length 18 ins.; complete [illegible] box. Each ...1.50

T3203—Consists of 6½ in. New York Central type locomotive, with head light, 5½ in. Pullman and 5½ in. observation cars; speed regulator and reversible; 8 sections curved track forming circle 28 ins in diam [illegible] in box. Each ..

8.35

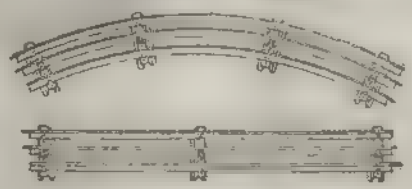
T3295—Consists of 6½ in. locomotive, with head light; 5½ in. baggage car with two sliding doors; 5½ in. Pullman, 5½ in. observation car; speed regulator and reversible; 8 curved and 4 straight sections track; forming oval; length 25 ins.; each in box. Each 5.50

T3297—One of the handsomest [illegible] priced electric trains built [illegible] of 9½ in. reversible locomotive with headlight, 6½ in. combination [illegible] gage and smoking car, 6½ in. Pullman and 6½ in. observation car; [illegible] with 8 wheel double trucks [illegible] 4 [illegible] ins straight track; length 32 ins.; each in box. En[illegible]

6.50

EXTRA EQUIPMENT FOR BING'S ELECTRIC TRAINS

TRACK "O" GAUGE

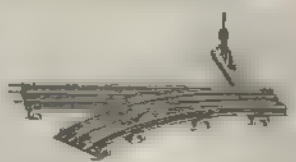


T3326—OS, straight track, 10¼ in. long. Per section... 10

T3327—OC, curved track 10¼ in. long Per section..... ..... .10

SWITCHES

WITHOUT ELECTRIC LIGHTS



T3329—"O" [illegible] which throws [illegible] mounted plate; length 11 [illegible] [illegible], one pair in box, right and left. Pair.....1.50

WITH ELECTRIC LIGHTS

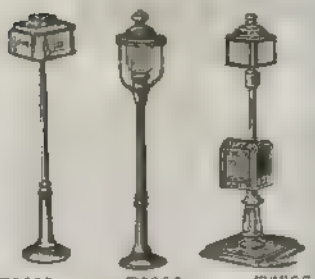
T3330—"O" gauge pot lever wheel throws switch and electric signal lights; length 11 ins., 9 in. wide, one pair in box, right and left. Pair 1.50

CROSS OVER

T3328—"O" gauge, 45 degree cross over; used in connection with switches, for making figure "8" and figure "8" loops, length 11 ins., 5½ [illegible] wide.

Dozen .....4.80 Each 45

STREET LAMPS



T3395 T3396 T3397

T3395—Black enameled all metal street corner lamp; electric wired; frosted glass street signs; 3 in. round base; 1½x1½ in. top; height 6¼ ins., complete without bulbs; 1 dozen in box. Dozen 0.75

T3396—Electric wired lamp post of metal, black enameled finish, 3 in. round base; clear globe; height 7½ ins.; complete without bulbs; 1 dozen in box. Dozen.....6.75

T3397—Electric wired corner lamp with street signs and mail box, metal 3 in. base, height 6¼ in.; each in box without bulb. Each 68

T3399—Same as T3397, larger; 3¼x3¼ in. base, height 10 ins.; each in box without bulb. Each 1.38

ARC LAMPS

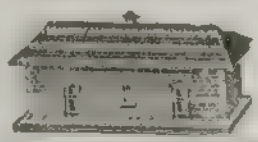
T3402—Electric wired, [illegible] metal 3x3 in. base, fancy [illegible] ornament, supporting single [illegible] frosted globe; height 14 ins.; each in box, without bulb. Each .95

T3403—Same as T3402, but with double arc lamps; height 14 ins.; each in box, without bulb. Each 1.75

SEMIPHORE

T3410—Electric wired; 5x6 in., embossed decorated base; lattice work column, with semaphore, and 2½x5 in. lookout platform; nicely enameled in white, black and red; height 16 ins.; each in box, without bulb. Each 1.15

RAILROAD STATIONS

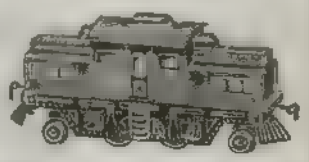


T3451—[illegible] electric wired; lithographed sheet steel in attractive colors with waiting rooms, ticket office, etc.; removable top; all edges turned; 5½x10½ in. 5 in. high; each in box, without bulb Each 89

T3452—Same as T3451, larger; divided into 3 rooms, with telegraph [illegible] colored glass windows 6½ x 14½ in., 7 in. high; each in box, without bulbs. Each 1.85

T3453—Same as T3452 [illegible] 20 ins. [illegible] Each 3.25

LOCOMOTIVES



T3484—New York Central type locomotive, cast iron, with field magnet motor, for use on battery, direct or alternating current transformer; equipped for headlight (no bulb length 6 ins.; each in box. Each 1.65

T3485—Same as T3484, larger length 7⅝ ins., each in box Each 2.00

RAILROAD BRIDGE FOR "O" GAUGE TRAINS

T3425—All metal, two 10½ in. stone finished bridges, complete with [illegible] gray finished brackets, [illegible] ing length 32 in., overall 41½ in. [illegible] box 1.28

LIONEL STATIONS FOR ELECTRIC TRAINS

T3460—Metal [illegible] enameled in permanent colors; platform embossed in imitation of cement; embossed red brick work and stone masonry; doors swing on hinges; removable roof; equipped with one center interior light; size 13½x9 ins., 13 ins. high. Each 4.85

T3458—Same as T3460, but with one interior and two outside corner lights. Each.....6.50

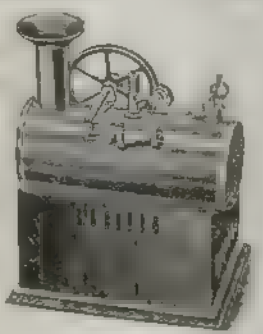
WEEDEN STEAM ENGINES

Exact models of the big engines; all the best selling up-to-date numbers, every one guaranteed to be mechanically perfect and to operate.

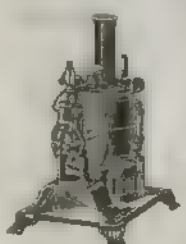
T4168 — Weeden upright steam engine; blued steel boiler, iron fire box; metal base and engine frame handsomely finished in colors; 2 inch nickel plated balance wheel; good whistle, diameter base 4 ins.; 9½ ins. high. Each in box. Dozen..4.50

T4170 — Weeden upright steam engine; blued steel boiler; iron fire box; metal base and engine frame finished in colors; large cylinder; 2½ inch nickel plated; turned face balance wheel; good whistle and water gauge; diameter base 4½ ins., 11¼ ins. high. Each in box. Each... 72

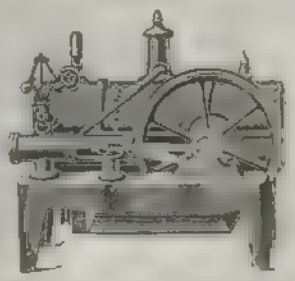
T4181 — Weeden upright steam engine boiler [illegible] base and [illegible] parts finished in colors, special lamp and draft being adapted for burning coal oil; fitted with water gauge; large, turned face balance wheel, a very attractive model, height 11 inches; each in box. Each 1.85



T4184—Weeden horizontal steam engine; polished brass boiler, iron fire box, mounted on strong base, finished in colors; safety valve, whistle, 2 in diam., turned face balance wheel; size base 5⅝x4½ ins.; 9 in. high; each in box. Each 1.45



T4182 Weeden Reversible engine; [illegible] polished brass boiler; whistle [illegible] to the boiler and made steam tight [illegible] lating cylinder with short stroke, which makes it run at a very high speed, being equipped with a reverse lever by which it can be run forward and backward; this makes it desirable for running small launches or boats; fully equipped with water glass, whistle, filler and governor and smokestack; each in a box. Each.....2.45



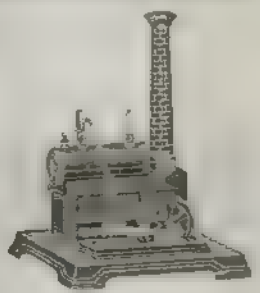
T4186—Iron frame, highly polished brass boiler, with steam dome, whistle, safety valve, and water gauge; cylinder, steam chest and slide rest are cast in one piece; balance wheel polished steel for rapid and easy running; size of base 6x6½ ins., 7¼ ins. high Each 3.25

BING'S STEAM ENGINES

Different in style from the regular steam engines; burn denatured alcohol; fully guaranteed.

T4175 [illegible] brass [illegible] lay whistle, safety valve, stamped [illegible] on brick chimney; height 11 Each 1.25

T4176—Same as T4175, large 4⅝x9½ in. base, 13 in. high; each in box. Each.....1.60



T4180—Heavy tin base 8x8 ins., blued steel foundation; oxidize finish brass boiler; whistle, safety valve, nickeled rim 2 in. fly wheel, nickeled cylinder and connecting tube; reversible throttle; stamped imitation brick chimney; height 12 ins.; each in box. Each 2.50

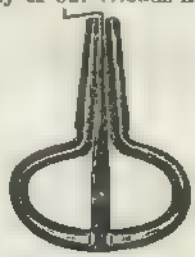
T4188 [illegible] T4180 larger, with [illegible] base 9½x9½ ins., 14 ins. [illegible] each in box. Each.4.35

STEAM ROLLER
REVERSIBLE

T4194 [illegible] built; polished brass boiler, whistle, lever for reversing [illegible]; 7⅞ in. [illegible] metal fly wheel with coil [illegible] with drive wheel [illegible] right and in circle, [illegible] 7 in., width 3¾ ins., in in high, each in box Each 3.25

JEWS' HARPS

Something that many of our friends have been waiting for.



Plain Pattern

No. 23—2½ in., **Wrought iron frame,** steel tongue, per dozen $2.00

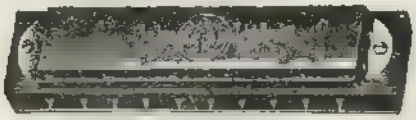
No. 40—2½ in., **bronzed frame and tongue,** per dozen $2 30

No. 25—3 in., **wrought iron frame,** steel tongue, per dozen $3.00

No. 42—3 in., **bronzed frame** and tongue, per dozen $3.50

THREE DOZEN IN A BOX

LUDWIG'S PINE TREE HARMONICAS



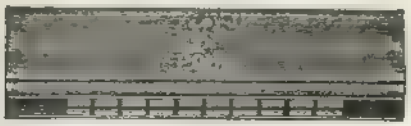
GENUINE RITCHER

The celebrated "Pine Tree" Harmonicas have an established reputation for quality, workmanship and superior tone. Due to the world's war they have off the market and unobtainable until now.
Substantially constructed. Excellent tone.

No. 33—Pine Tree, length 3⅜ in., 10 single holes, 20 reeds, brass plates, nickel plated covers, per dozen $2.40

ONE IN A TELESCOPE BOX HALF DOZEN IN A PACKAGE

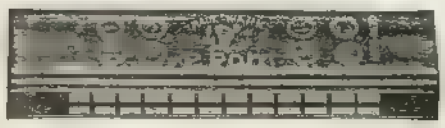
P. POHL HARMONICAS



Substantially constructed.

No. 163—Length 3½ in., 10 double holes, 8 reeds, zinc plates, nickel plated covers ..... per dozen $0.90
A Harmonica of fine appearance.

ONE IN A TELESCOPE BOX, 1 DOZEN IN A PACKAGE



A Harmonica of fine appearance.

No. 165—Length 4½ in., 12 double holes, 12 reeds, zinc plates, nickel plated covers ..... per dozen $1.60

ONE IN A TELESCOPE BOX, 1 DOZEN IN A PACKAGE

GENUINE FR. HOTZ HARMONICAS

Perfect in tone, uniform in quality.

No. 00—The Blue Ribbon, length 3⅞ in., 10 single holes, 20 reeds, brassed zinc plates, nickel plated covers, per dozen $3.00

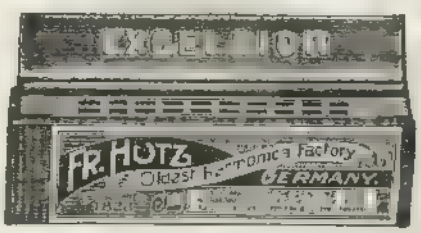
ONE IN A TELESCOPE BOX, HALF DOZEN IN A PACKAGE

The reeds in this instrument are all possessed of very responsive quality and perfect tone and will serve the purpose of the most critical player.

No. 01—The Sport, length 4 in., 10 single holes, 20 reeds, brassed zinc plates, nickel plated covers, per dozen $3.20

ONE IN A HINGED BOX, HALF DOZEN IN A PACKAGE

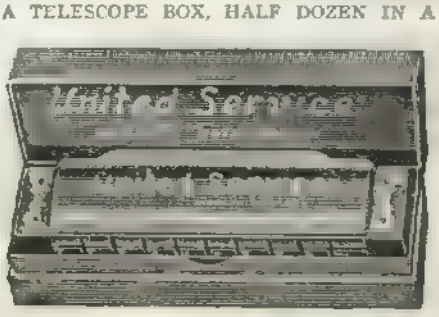
GENUINE FR. HOTZ HARMONICAS



A finely constructed Harmonica of exceptional value.

No. 04—Excelsior, length 4⅛ in., 10 double holes, 20 reeds, brassed plates, nicely nickel plated covers, turned in ends, per dozen $3.60

ONE IN A TELESCOPE BOX, HALF DOZEN IN A PACKAGE



Full concert size, unsurpassed in tone and quality.

No. 03—United Service, length 4⅝ in., 10 double holes, 20 reeds, brassed zinc plates, nickel plated covers, per dozen $7.50

ONE IN A HINGED BOX, HALF DOZEN IN A PACKAGE

MARBLE'S HUNTING KNIVES

Marble's Hunting Knives are forged from Razor Steel, are hand tempered, tested and honed to a Keen edge. Each Knife is fully Guaranteed.

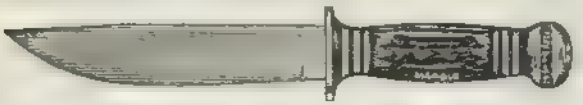
IDEAL HILT KNIVES

A combination of quality and excellent features of design and finish, that has won a world wide reputation. The blade is adapted to sticking and skinning. It is oval ground at back of point for chopping bones and other hard substances.

Laminated Leather Handle, with colored hard fibre and brass washers. Has flush aluminum tip. Complete in leather sheath.

No. 45—Blade, in.	5	6
W't per doz., lbs.	6½	7½
Per dozen	$49.80	54.40

HALF DOZEN IN A BOX



Stag Horn Handle, with colored hard fibre, leather and brass washers. Has flush aluminum tip. Complete in leather sheath.

No. 46—Blade, in.	5	6
W't per doz., lbs.	6½	7½
Per dozen	$63.40	68.00

HALF DOZEN IN A BOX

CANOE KNIVES

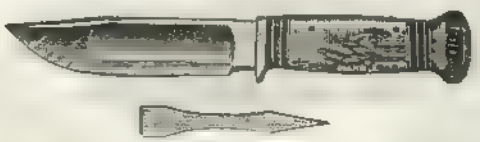
Some of the prominent canoeists of the country requested a knife for their use. Marbles Canoe Knife has won their approval as it is "short and stout."

When sailing a canoe or yacht, a short, keen sheath knife is a necessity for slashing rigging in case of sudden squall or capsizing.

Laminated Leather Handle, with colored hard fibre and brass washers. Has flush aluminum tip. Complete in leather sheath with point protector.

No. 51—4½ in. blade, w't per doz. 5 lbs., per dozen $45.30

HALF DOZEN IN A BOX

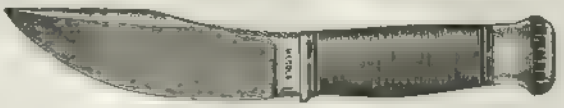


Stag Horn Handle, with colored hard fibre, leather and brass washers. Has flush aluminum tip. Complete in leather sheath with point protector.

No. 52—4½ in. blade, w't per doz. 5 lbs., per dozen $58.90

HALF DOZEN IN A BOX

WOODCRAFT KNIVES



The desirable features of several knives embodies in one. Is adapted for sticking, skinning, cleaning, slicing, breaking bones, etc.

The thick tapering bevel blade carries the strength from handle to point. Back of blade close to handle is checkered to give a firm grip with thumb and finger. The back of point is beveled for chopping, breaking bones, etc.

AN ALL PURPOSE WOODMAN'S KNIFE.

Laminated Leather Handle, with colored hard fibre and brass washers. Has flush aluminum tip. Complete in leather sheath.

No. 49—4½ in. blade, w't per doz. 5 lbs., per dozen $40.80

HALF DOZEN IN A BOX

DALL DE WEESE PATTERN

Designed by Dall DeWeese, for use on expedition after big game, where every item of the outfit has to be figured down to the lightest and most compact form. It has a dull saw back on which the thumb is placed when skinning or cutting hard substances. When sticking the little finger should be doubled up, letting the end of handle rest against it. This takes the place of a hilt.

Stag Horn Handle, with groove to fit finger. Complete in leather sheath with point protector.

No. 62—4 in. blade, w't per doz. 4 lbs., per dozen $36.20

HALF DOZEN IN A BOX

EXPERT KNIVES

Particularly designed to meet the requirements of the professional hunter, trapper and guide, who requires a thin, keen-edge for dressing skins and furs.

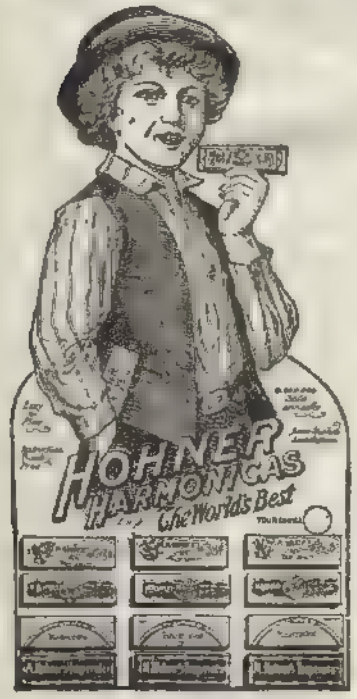
The back of the blade is designed for scraping skins while on the forms.

Laminated Leather Handle, with colored hard fibre and brass washers. Has flush aluminum tip. Complete in leather sheath with point protector.

No. 545—5 in. blade, w't per doz. 5 lbs., per dozen $45.30

HALF DOZEN IN A BOX

GENUINE HOHNER HARMONICAS



HOHNER BOY ASSORTMENT

No. 425—Assortment consists of one dozen Harmonicas in a variety of styles and keys, **to retail at $1.00 each,** mounted on a very attractive cut-out easel printed in six different colors,
per asst. $9.00

These assortments of Hohner Harmonicas are very attractively gotten up and should be in the stock of every retail dealer.

TO RETAIL AT 50 CENTS EACH

No. 1 Assortment—Consists of 12 genuine Hohner Harmonicas in 3 different styles, assorted keys. Packed in a handsome display carton adapted for counter display, per assortment $8.50

TO RETAIL AT $1.00 EACH

No. 2 Assortment—Consists of 12 genuine Hohner Harmonicas in 5 different styles, assorted keys. Packed in a handsome, flat display carton adapted for counter display .....per assortment $16.00

The Hohner collapsible display cabinet is one of the handsomest and most practical harmonica displays that has ever been devised. It sells harmonicas. Comprises 3 trays of the best seasoned wood so ingeniously arranged and constructed as to permit the opening and closing of the entire cabinet in a moment's time.

The cabinet is elaborately finished in a rich dark mahogany, piano polish with attractive lettering on the cover.

The cabinet when open displays the entire contents of 38 harmonicas at one time, when closed resembles a handsome jewel case and occupies less than a square foot of space. Will increase your harmonica sales 100%.

No. 400 Assortment—Consists of:

16	Harmonicas to retail at	$0.50 each	$8.00
6	Harmonicas to retail at	.60 each	3.60
6	Harmonicas to retail at	.75 each	4.50
10	Harmonicas to retail at	1.00 each	10.00
	Total retail value		.....$26.10

Per assortment $36.00

ONE ASSORTMENT IN A BOX

Hohners revolving display stand is built of thoroughly seasoned wood of 1¼ in. thickness, obeliscal in shape, mounted on a metal disc connected by the means of a cylindrical bar to a set of durably constructed clockworks of sufficient strength to revolve the obelisk for over 3½ hours with one winding.

The entire stand is finished in a deep rich mahogany piano polish with very attractive silver pressings and having the number and retail price of each harmonica stenciled in a neat design on obelisk.

Measures 32 in. high, by 10¾ in. square at base, and 6¾ in. square at the top. Stand displays 36 assorted genuine Hohner Harmonicas, fastened by means of steel spring clamps.

Each instrument is an excellent seller.

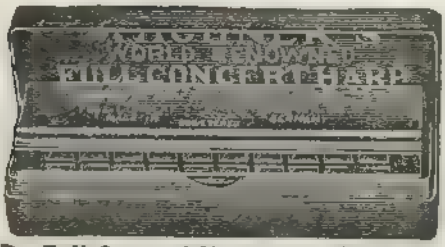
No. 600 Assortment—Consists of:

12	assorted Harmonicas to retail at	$0.50 each	$6.00
4	assorted Harmonicas to retail at	.60 each	2.40
4	assorted Harmonicas to retail at	.75 each	3.00
8	assorted Harmonicas to retail at	1.00 each	8.00
2	assorted Harmonicas to retail at	1 50 each	3.00
4	assorted Harmonicas to retail at	2.00 each	8.00
2	assorted Harmonicas to retail at	2.50 each	5.00
	Total retail value		.....$35.40

Per assortment $53.00

ONE ASSORTMENT IN A BOX

GENUINE HOHNER HARMONICAS



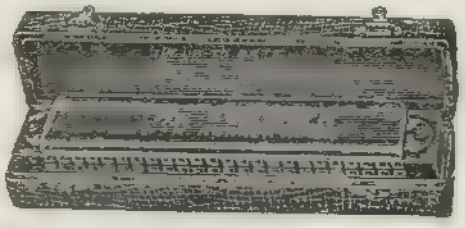
No. 3CND—Full Concert Harp, 10 double holes, 40 reeds, brass plates, nickel plated brass covers, length 4 in., per dozen $16.00

ONE IN A HINGED PASTEBOARD BOX. HALF DOZEN IN A PACKAGE

A very handsome bell harmonica.

No. 122—Marine Orchestra, length 6¾ in., 14 double holes, 28 reeds, brass plates, heavy nickel-plated covers, 2 bells in different tones, extension ends finely impressed with gold design ..... per dozen $24.00

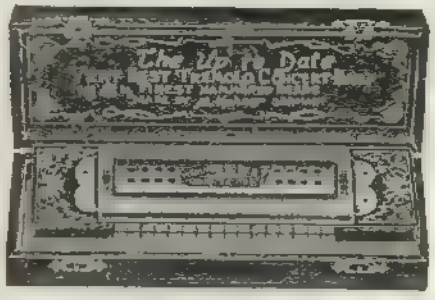
ONE IN AN INDIVIDUAL CARTON



Tremolo Instrument, Large Size. An Ideal Harmonica for Concert Playing; Has an Exceptionally High Range.

No. 453—The Goliath, 24 double holes; 48 reeds; brass plates; heavy convex covers, nickel plated with open back, length 7½ in. ..... per dozen $30.00

ONE IN A HANDSOME HINGED COVER WOOD CASE COVERED WITH IMITATION ALLIGATOR SKIN COVERING. HALF DOZEN IN A CARTON.



Two Harmonicas in One; Two Different Keys. An Elaborate double Sided Instrument. Representing the Very Finest in Harmonica Construction.

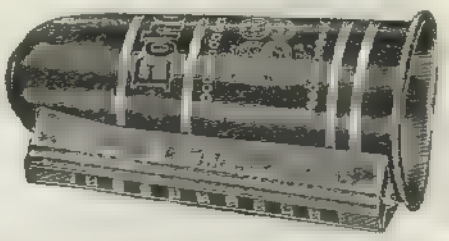
No. 46½—Up-to-date, 32 double holes; 64 reeds; brass plates; nickel plated covers, fancy silver stamped extension ends with frame in mahogany finish, length 7 in., per dozen $36.00

ONE IN A HANDSOME WOOD BOX WITH HINGED COVER SILVER LETTERED AND WITH SILVER FINISHED CLASPS. HALF DOZEN IN A CARTON.

Large Double Sided Tremolo Instrument in Two Keys. Two Harmonicas in One

No. 606—Echo, 64 perfectly tuned reeds; genuine brass plates; finely nickel plated covers with turned in ends, length 5¾ in. ..... per dozen $20.00

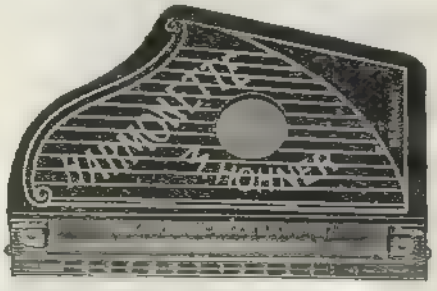
ONE IN AN ATTRACTIVE PASTEBOARD BOX WITH HINGED COVER SHOWING PICTURE PRINTED IN MANY COLORS. HALF DOZEN IN A CARTON.



A decidedly novel instrument in the shape of a cartridge.

No. 3810—Echophone, length 4¼ in., brass shell in gunmetal and brass finish, with engraving and colored lettering, 10 holes, 20 reeds, brass plates, finely nickel-plated covers ..... per dozen $24.00

ONE IN A BOX HALF DOZEN IN A PACKAGE

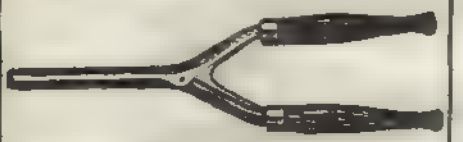


A novel and practical instrument.

No. 3101—Harmonette, length 4¾ in., 14 double holes, 28 reeds, brass plates, finely nickel-plated covers; to the harmonica is attached a harp-shaped resonator or sound box of thoroughly seasoned wood in mahogany, ebony and birdseye maple finish, bearing gold impressions; reinforced with nickel-plated metal band, per dozen $24.00

ONE IN A BOX HALF DOZEN IN A CARTON

CURLING IRONS

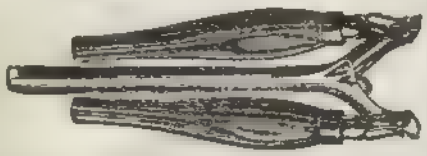


Polished Steel, Not Plated, Polished Wood Handles.

Nos.	10	11	12
Length overall, in.	6	7½	9½
Diam., in.	5/32	¼	5/16
W't per doz., lbs.	¾	2	3¼
Per dozen	$1.50	1.80	2.00

Polished Steel, Antique Oak Handles.

Nos.	20	21	22
Length overall, in.	6	7½	9½
Diam., in.	5/32	¼	5/16
W't per doz., lbs.	¾	1½	3
Per dozen	$1.60	1.80	2.20



No. 60—Tourists, polished steel, length overall 9 in., diam. of iron ¾ in., folded 4x5½ in., antique oak handles, w't per dozen 2 lbs., per dozen $3.40

ALL ABOVE, ONE DOZEN IN A BOX

WAVING IRONS

Most desirable item for marcelling the hair. Makes the double wave.

No. 23—Manhatten, made of 5/16 in. steel wire, double holder of cold rolled sheet steel, fully nickel plated and polished. Full length 9 in. .....per dozen $3.50

ONE DOZEN IN A BOX

HAIR DRYING AND STRAIGHTENING COMBS

Something needed by every lady who shampoos her hair. These combs are heated the same as an ordinary curling iron, over gas, alcohol stove or heating in boiling water. Dries the hair quickly by simply combing in ordinary way. Excellent for combing and dressing "bobbed" hair. Also extensively used by the colored folks in taking out the kinks and curls by anointing the head with vaseline or other heavy oils and drawing comb through hair as in drying after being heated as above. Will retain heat for a long time. Teeth are specially finished to enter hair easily.

No. 4—Made of the highest grade brass, length 8¼ in., tooth area 3¼x1⅛ in., nickel plated wire handle is attached so it will not turn, per dozen $9.00

No. 5—Made of the highest grade brass, length 8¾ in., tooth area 3⅜x1 1/16 in., nickel plated wire handle is attached so it will not turn, per dozen $10.50

No. 6—Made of the highest grade brass, length 9⅜ in., tooth area 4⅜x1⅜ in., nickel plated wire handle is attached so it will not turn, per dozen $14.00

ALL ABOVE HALF DOZEN IN A BOX

HAIR DRYING AND PINCHING IRONS

Will remove kinks and straighten curly and wavy hair. The jaws are heated in boiling water or as a regular curling iron, over a gas or alcohol flame, and are pinched over small strands of hair, which are then drawn through, thereby taking out the kinks and curls.

No. 8—Fully nickel plated on copper, nicely engraved shear, joint handles, full length 6⅞ in., diam. of ball end jaws 1 in., w't per doz. 5½ lbs., per dozen $7.00

ONE DOZEN IN A BOX

This new design fills a long felt want for a practical and artistic pinching and pressing iron.

No. 88—"Peerless" total length 9 in., jaw diam. 1⅛ in., **new design** with duplex, interlocking, machine faced circle joint; **extra heavy and wide, heat retaining jaws** and shear handles. Jaws shoulder and joint **fully nickel plated on copper;** handles enameled **bright red.** The color combination is very attractive and desirable. Weight per doz. 12 lbs., per dozen $13.50

ONE DOZEN IN A BOX

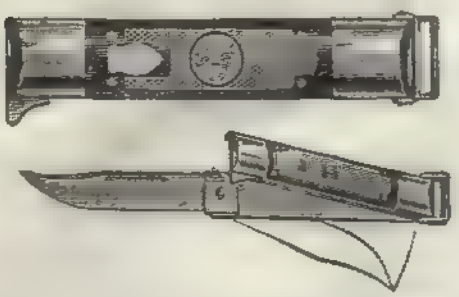
HAIR STRAIGHTENERS

To meet the constantly growing demand for a strictly high grade hair straightener, we present the new "Queen Lill" which is considered the peer of any yet devised for the purpose. Its mechanical perfection, correct lines, superior heat retaining qualities, and attractive appearance, makes it a most perfect and desirable toilet accessory. To the colored race, this will be an indispensable article in dressing the hair to the prevailing style.

No. 99—"Queen Lill", fully nickel plated on copper, size of jaws 4¼x1 1/16 in., nickel plated ferrules, hardwood handles, full length of straightener 9½ in., w't per doz. 9 lbs .....per dozen $13.50

ONE DOZEN IN A BOX

HUNTING KNIVES



A slight pressure on the shield opens the knife, swings blade out into cutting position, closes case or handle and you have a rigid knife that is ready for business.

No torn thumb nails or sore fingers, no projections to catch or tear clothing.

Adaptable for every outdoor use. For hunting, fishing, camping, etc., it has no superior. Blades can be easily changed. Unconditionally warranted.

No. 961—Neft safety knife, made of the highest grade crucible steel, scientifically tempered and ground to a keen and lasting edge, length of blade 4½ in., length of knife when closed 5¾ in., scored hard rubber handle, large nickel silver bolsters with guard and toggle to attach to rope or key chain, small metal wrench for interchanging blades .....per dozen **$60.00**

HALF DOZEN IN A BOX

MARBLE TROUT KNIVES

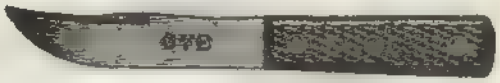
Latest addition to Marble Line. Designed expressly for dressing speckled trout and other fish.

Always open, entirely sanitary, quickly cleaned. While designed expressly for dressing speckled trout, may be used for a variety of purposes for which any small pocket knife could be used. The little finger is inserted about one-half its length in ring while the three remaining fingers and thumb are placed just back of blade against curve of shank.

No. 79—Forged from one piece of finest cutlery steel, handle terminates in a ring 1 in. in diam., full length 5⅞ in., blade 2 in., w't each 1 oz., complete with metal bound leather sheath .....per dozen **$12.60**

ONE DOZEN IN A BOX

HUNTING KNIVES



Made from a special grade steel similar to that of the very best razor steel. Not the regular butcher knife steel. Hand forged, swaged and polished. Ground to a very sharp razor edge. Second ebony handle. Fastened to blade with three large head brass rivets. The blade extends through the entire length of the handle.

No. 745—5 in. blade, full length 9¼ in., **without sheath** w't per doz. 3 lbs. .....per dozen **$13.50**
For Leather Sheath for No 745 hunting knife, see No. 955 sheath illustrated on this page.

HALF DOZEN IN A BOX

No. 7803—Extra finish, finest quality, scored ebony handle, metal bolster, 6 in. polished and swaged blade, **without sheath** .....per dozen **$12.00**
For Leather Sheath for No. 7803 hunting knife, see No. 955 sheath illustrated on this page.

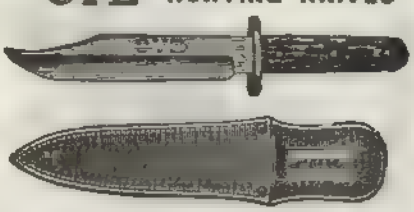
HALF DOZEN IN A BOX

LEATHER SHEATHES FOR HUNTING KNIVES

Made of heavy Russet Leather, embossed front, strongly sewed., fitted with two copper rivets at the top thus affording the greatest strength where it is most required fitted with loops through which a belt may be slipped.

Nos.	**955**	**956**
For blades, in.	5 and 6	7 and 8
Full length, in.	9¾	11
Per dozen	**$6.00**	**6.00**

HUNTING KNIVES



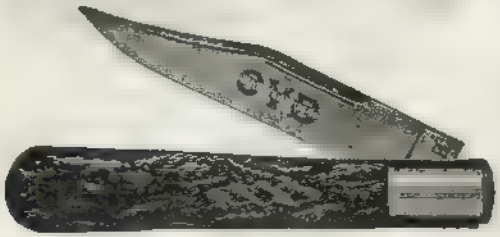
Stag handles, nickeled silver guard, hand forged crucible steel blade, clip point, crocus polished, **leather sheath.**

Nos.	**7374**	**7375**	**7376**	**7377**	**7378**
Blades, in.	4	5	6	7	8
Per dozen	**$44.00**	**49.50**	**54.50**	**60.00**	**66.00**

HALF DOZEN IN A BOX

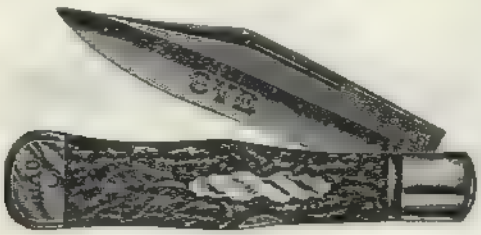
HUNTING KNIVES

"OUR VERY BEST", FOLDING KNIVES



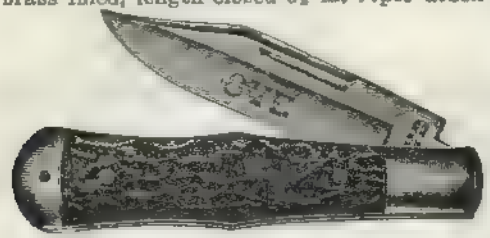
LOCK BACK

No. 143 —1 blade, full polished, 3⅝ in., stag handle, brass lined, length closed 4¼ in....per dozen **$26.00**



LOCK BACK

No 156 —1 blade, half polished, 4¼ in., stag handle, brass lined, length closed 5¼ in. ..per dozen **$45.00**



No. 144 —1 Blade, glazed, 4¼ in., cocobola handle, length when closed 5¼ in.....per dozen **$23.00**

HALF DOZEN IN A BOX

POCKET KNIFE KITS

Especially adapted for household mechanic and outing purposes.

No. 2762P —Consisting of 1 blade pocket knife, 1 screw driver, 1 chisel, 1 file, 1 reamer, 1 gimlet, 1 leather punch, which fit securely in special blank end of cocobola handle, iron lined, length of pocket knife 3⅞ in., tools packed in neat tan leather case, size closed 4¼×3¾×¾ in., w't per doz. 5 lbs. .....per dozen **$24.00**

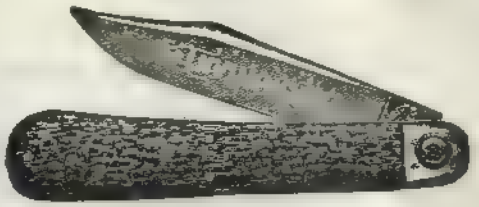
ONE DOZEN IN A BOX

HUNTING KNIVES

PRESS BUTTON, FOLDING

No. 943—1 blade, polished, 3 in., stag handle, iron lined, length closed 4 in. .....per dozen **$21.60**

HALF DOZEN IN A BOX



No. 944—1 blade, polished, 3⅞ in., stag handle, iron lined, length closed 4¾ in. .....per dozen **$24.00**

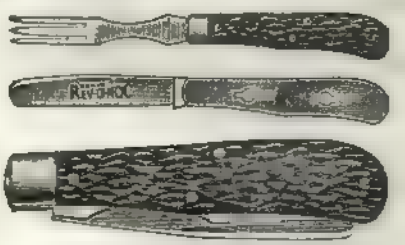
HALF DOZEN IN A BOX

By pressing the button shown in bolster, the blade will fly open and become firmly locked in place. To close the blade it is necessary first to press the button.

No. 953—1 blade, polished, 3⅞ in., stag handle, iron lined, patented, self-adjusting, nickeled silver guard, length closed 4⅞ in. .....per dozen **$32.40**

HALF DOZEN IN A BOX

CAMPING KNIFE, FORK AND SPOON



The above knives are ideal knives for campers and picnicers. Through an ingenious placing of slots in the linings the user can instantly take the knives apart in sections. Each section joins and opens like an ordinary pocket knife.

No. 2733P —2 pieces, finest quality English crucible steel knife and fork, stag handle, brass lined, length 4 in. closed .....per dozen **$24.00**

QUARTER DOZEN IN A BOX

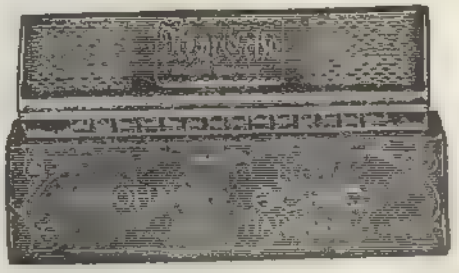
GENUINE HOHNER HARMONICAS

No. 34B—The Old Standby, 10 single holes, 20 reeds, brass plates, nickel plated covers, length 4 in., per dozen $8.00
ONE IN A HINGED PASTEBOARD BOX

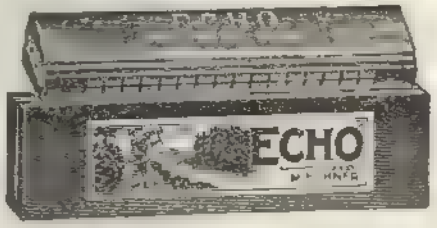
No. 50B—The Old Favorite, 10 double holes, 20 reeds, brass plates, nickel plated covers, length 4 in., per dozen $8.00
ONE IN A HINGED PASTEBOARD BOX

No. 132—Imperator, 10 single holes, 20 accurately tuned reeds mounted in brass plates, finely nickel plated, convex covers; length 4 in. .....per dozen $8.50
ONE IN A TELESCOPE BOX. HALF DOZEN IN A CARTON

No. 1896—The Marine Band, 10 single holes, 20 reeds, brass plates, heavy nickel plated covers, convex shaped, open back, length 4 in. .....per dozen $9.00
ONE IN A HINGED PASTEBOARD BOX

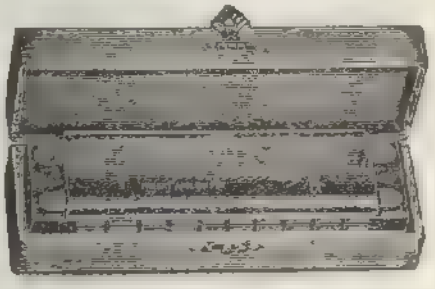


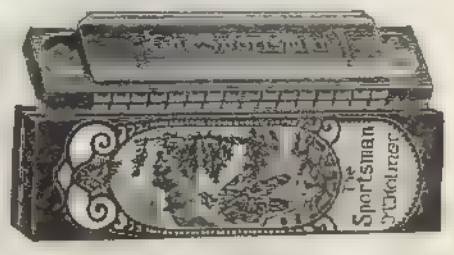
No. 153—New Echo, tremolo, length 4⅜ in., 14 double holes, 28 reeds, brass plates, highly nickel plated covers with artistic design, turned in ends, per dozen $10 50
ONE IN A TELESCOPE BOX, HALF DOZEN IN A PACKAGE



A Very Fine Tremolo Instrument

No. 605—Echo, 16 double holes, 32 reeds, **Tremolo Tune;** brass plates, heavy nickel plated brass covers, convex shaped, open back, length 4 in. .....per dozen $12.00
ONE IN AN ATTRACTIVE PASTEBOARD BOX WITH HINGED COVER. HALF DOZEN IN A CARTON



No. 1896½—The Up-to-Date, 10 double holes, 20 reeds, brass plates, nickel plated brass covers, convex shaped, concert size, length 4⅝ in. .....per dozen $15.00
ONE IN A LINED IMITATION LEATHERETTE CASE WITH SNAP LOCK

Tremolo Tune.

No. 254—Sportsman, 16 double holes, 32 reeds; brass plates, heavy nickel plated covers; extension ends; length 5¼ in. .....per dozen $16.00
ONE IN AN ATTRACTIVE PASTEBOARD BOX WITH HINGED COVER. HALF DOZEN IN A CARTON.

CLAM KNIVES

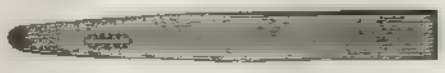
No. 1—Full length 5¾ in., beechwood handle, brass ferrule, 2½ in. blade of highest quality, per dozen $2.00
ONE DOZEN IN A BOX

OYSTER KNIVES

Beechwood Handle; Brass Ferrule; Blade of highest quality.

No. 80—Blade, in.	2½	3	3½
Per dozen	$3.80	3.90	4.00

ONE DOZEN IN A BOX

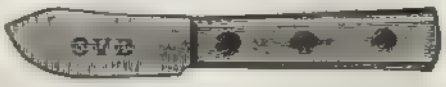


No. 85—Solid steel, length 8½ in. ..per dozen $7.00
HALF DOZEN IN A BOX

FISH KNIVES

No. 802—Full length 8½ in., beechwood handle, 4½ in. blade, best Norwegian steel, w't per doz. 2 lbs., per dozen $7.00

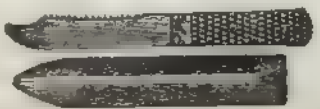
No. 25—Beechwood handle, 3 in. blade of highest quality, Sandusky pattern, w't per doz. 2½ lbs., per dozen $8.00



No. 55—Finest quality forged blade 3½ in., beechwood handle, large brass rivets .....per dozen $5.00
HALF DOZEN IN A BOX

FISHERMEN'S KNIVES

No. 8103—Full length 9 in., 5 in. blade of highest quality, double edged point, saw toothed back for scaling fish, beechwood handle securely fastened with five steel rivets .....per dozen $7.00
HALF DOZEN IN A BOX



No. 1540R—Russell's, full length 9 in., 4½ in. blade, scored cocobola handle, lap bolster, leather sheath with loop to attach to belt .....per dozen $12.50
HALF DOZEN IN A BOX

FISHERMEN'S KNIVES

No. 6R—5 in. closed, Russell lock back, easy opener, one blade, double edged point with saw tooth back, brown bone handle, brass lined, has hole drilled to receive a rope or chain .....per dozen $29.00
HALF DOZEN IN A BOX

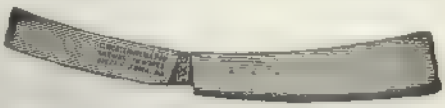
ASPARAGUS SPUDS

This tool is indispensable as garden weeder and asparagus knife.

No. 940—Drop-forged, polished forked steel blade, enameled shank, birch handle, polished ferrule, length 14 in., w't per doz. 5 lbs. .....per dozen $5.50
HALF DOZEN IN A BOX

FARRIER'S KNIVES

No. 6824—Full length 8½ in., blade 4 in., black buffalo horn handle, superior steel blade, assorted ⅜ and ½ in., warranted .....per dozen $13.00



No. 7834.

No. 7838—Wostenholm's, full length 8½ in., blade 4 in., **wood handle,** assorted widths, ⅜ and ½ in., per dozen $14.50

No. 7834—Wostenholm's, full length 8 in., blade 4 in., **bone handle,** assorted widths, ⅜ and ½ in., per dozen $15.50
HALF DOZEN IN A BOX

ONE-ARM MEN'S KNIVES

No. 735½—Solid ebony handle, extra finish, finest quality blade, full length 8½ in., w't per doz. 1½ lbs., per dozen $23.50
HALF DOZEN IN A BOX

PRESS BUTTON, FOLDING

Full polished, stag handle, brass lined, 3⅜ in. closed.

No. 942—1 spear and one pen blade ..per dozen $21.60

No. 957—1 clip and one pen blade ...per dozen 21.60

HALF DOZEN IN A BOX

No. 943—1 blade, polished, 3 in., stag handle, iron lined, length closed 4 in. .....per dozen $21.60

HALF DOZEN IN A BOX

No. 944—1 blade, polished, 3¾ in., stag handle, iron lined, length closed 4⅝ in. .....per dozen $24.00

HALF DOZEN IN A BOX

By pressing the button shown in bolster, the blade will fly open and become firmly locked in place. To close the blade it is necessary first to press the button.

No. 953—1 blade, polished, 3¾ in., stag handle, iron lined, patented, self-adjusting, nickeled silver guard, length closed 4⅝ in. .....per dozen $32.40

HALF DOZEN IN A BOX

INK ERASERS

No. 681—2¼ in., steel blade, crocus polished, 2⅜ in. genuine ebony handle, 3¼ in. sheath ....per dozen $7.00

HALF DOZEN IN A BOX

No. 14311—IXL, 2⅜ in. Wardlow's crucible steel blade, crucus polished, 4 in. genuine ebony handle, per dozen $18.00

HALF DOZEN IN A BOX

KNIFE PURSES

Fine imported smooth kid, silk stitching, with enameled button clasp,

Nos.	1RB	2RB	3RB	4RB	5RB
Length, in.	2⅛	2⅞	3¼	3⅝	4
Per dozen	$1.00	1.00	1.00	1.00	1.00

THREE DOZEN IN A BOX

Smooth kid, silk stitching with solid brass embossed button clasp.

Nos.	1	2	3	4	5
Length, in.	2⅛	2⅞	3¼	3⅝	4
Per dozen	$1.00	1.00	1.00	1.00	1.00

THREE DOZEN IN A BOX

KNIFE PURSE ASSORTMENTS

No. 12—Assortment consists of 12 knife purses, assorted sizes, on attractive stiff card, size 11¼x10 in., with easel back and hang up ring, per assortment $1.20

IMPROVED CUTLERY SHOW CASES

Prices on Application.

FLOOR DISPLAY CASES

Our FLOOR DISPLAY CASES FOR CUTLERY are thoroughly hand made from natural oak and are of NATURAL OAK FINISH, highly hand polished.

The top is ¼ in. bevel French plate glass laid in plush on green felt cushions, selected double strength glass front and ends and glass sliding dust-proof doors in the back that move on ball bearings and steel track.

The inside has 10 in. and 14 in. paneled oak shelves, the front edges of which are fitted with an oak lip extending ¼ in. above the shelf proper to prevent the goods from being pushed off the shelves, these shelves are supported by adjustable nickel plated brackets, cloth lined paneled bottom.

One of the latest improvements in these cases are the steel strength mitered joints, which means that the mitered joints in our cases are reinforced with steel, making the weakest part the strongest—this is a most important point to be considered.

Made either knockdown or set up and of standard measurements, 42 in. high, and 26 in. wide outside dimensions.

No. F905— 6 ft. long, free of charge with $ 800.00 worth of cutlery, shipping w't 285 lbs., value of case★ ..each *$160.00*

No. F906— 6 ft. long, free of charge with $ 900.00 worth of cutlery, shipping w't 325 lbs., value of case★ ..each *180.00*

No. F908— 8 ft. long, free of charge with $1200.00 worth of cutlery, shipping w't 400 lbs., value of case★ ..each *240.00*

No. F910—10 ft. long, free of charge with $1500.00 worth of cutlery, shipping w't 450 lbs., value of case★ ..each *320.00*

A FULL COMPLEMENT OF SILK PLUSH TOP CUTLERY BOXES GOES WITH EACH CASE GRATIS.

WHERE A CUSTOMER CANNOT BUY THE FULL AMOUNT OF CUTLERY AT ONE PURCHASE, but desires a Cutlery Show Case, we send same and CHARGE TO HIS ACCOUNT at prices noted, AND ON THE BOTTOM OF THE BILL WE PRINT THE FOLLOWING CONTRACT.

CONTRACT—We desire to make it plain that in sending above case and charging it to your account, IT MUST BE PAID FOR AT THE MATURITY OF THIS BILL. We will credit your account with the charge for the Cutlery Case when you have purchased $.....—The required amount is inserted here—worth of Pocket Cutlery, Table Cutlery, Carvers, Butchers Cutlery—(Not including John Wilson's goods)—Kitchen Cutlery, Our trade-mark Hunting Knives, Painters' Cutlery, Shears, Scissors, Manicure goods, Toilet and Horse Clippers—(Not including Brown & Sharpe Toilet Clippers or parts, Power or Hand Power Clippers or Sheep Shearing Machines and parts) — Our trade-mark razors—(Not including Safety Razors or Blades)—Combs, Strops, Hones—(excepting Carborundum)—Mugs, Lather Brushes, & Rubbing Polishes, Thermometers, Key Rings, Chains and Hooks, Goggles—(except No. 1 assortment) -Cork Screws, Nut Picks and Cracks, Silver metal goods and Silver plated flat-ware, provided said purchases are made within one year from date of this invoice.

Not more than one show case to be furnished on these terms.

★ Items Marked Thus ★ Are Shipped From Factory Only.

MAYFAIR RIBBONS

NARROW SATIN TAFFETA RIBBON ASST.
No less than complete asst. sold.
★K7030—Assortment consists of 6 pc. each satin taffeta ribbon, smooth edges, all rayon faced fabric woven edges, assorted as follows:

Width	No. 5	No. 7	No. 9
White	2	1½	1½
Black	1	1	1
Red	1	1	2
Blue	2	3	1
Total	12	12	12

Per pc. of 10 yds 37½c, making the entire assortment 72 pc. cost you **$9.00**

ASST. OF MESSALINE RIBBON FOR LAMPSHADES.
No less than complete asst. sold.
K7006—Assortment consists of 6 pc. high lustrous messaline finish with 5 pc. solid floral design woven fancy and plain, asst. 5 pc. of each, 3 pc. light to the asst. Per pc. of 10 yds **$2.75**, making the entire asst. cost you **$16 50**

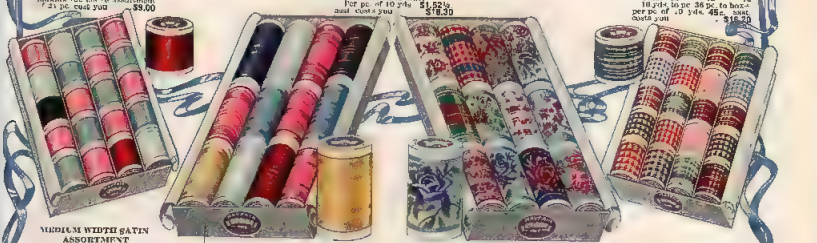
MOIRE TAFFETA RIBBON
No less than asst. sold.
K7029—Pure silk, fast edges, assortment consists of 6 pc. No. 159—4½ in. wide, 6 pc. No. 209—5½ in. wide. Colors, Black, white, pink, old rose, red and blue.
Per pc. of 10 yds **$1.82½**, asst. cost you **$10.50**

NARROW SATIN RIBBON
No less than complete assortment sold.
K7041—Assortment consists of 60 pc. good quality satin taffeta ribbon, fast woven edges. Assorted whites, pinks and blues as follows:
40 pc. No. 1½, 20 pc. No. 3.
60 pc. to box, per pc. of 3 yds. 75c, making the entire assortment of 60 pc. cost you **$4.50**

NARROW SATIN TAFFETA RIBBON.
No less than asst. sold.
K7017—Assortment consists of pure silk heavy weight messaline glace, design woven to set jacquard effect on fast woven edges, asst. as follows:

	No. 2	No. 3	No. 5
Width	½	⅝	⅞
White	2	2	2
Maze	1	1	1
Pink	2	1	3
Blue	2	3	1
Lavender	2	1	1
Total	12	12	12

10 yds to pc. 36c, to box—per pc. of 10 yds. 48c, asst. cost you **$16.20**



MEDIUM WIDTH SATIN RIBBON ASSORTMENT
No less than complete asst. sold.
★K7005—Pure silk satin taffeta ribbon, smooth finish, fast woven edges, assorted as follows:

Width	No. 12	No. 40
Black	2½	3½
White	1	1
Pink	3	4
Blue	3	3
Red	1	—
Total	8	8

Per pc. of 10 yds. 75c, making the entire assortment cost you **$15.00**

HAIRBOW AND SASH RIBBON ASST
No less than complete assortment sold.
★K7022—Assortment consists of good weight pure silk ribbon, fast woven edges, knotted dozen of self color and striped satin, figured rayon and latest fall colorings. Assd. as follows:
3 pc 4 in. wide — 3 pc 4½ in. wide
3 pc 5 in. wide — 3 pc 5½ in. wide
Per pc. of 6 yds **$1 87½**, making the entire asst. of 12 pc. cost you **$22.50**

FANCY RIBBON ASSORTMENT
No less than complete asst. sold.
K7019—Assortment consists of 12 pc. good weight fancy ribbon, asst. figures and checks, fast woven edges, asstd. as follows: 10 pc. flowered ribbon 1 pc. Scotch plaid ribbon and 1 pc Shepherd Plaid. All staple colors.
Per pc. of 10 yds **$1 87½**, mak. in the entire assortment of 12 pc cost you **$22.50**

SCOTCH & SHEPHERD PLAID ASST.
No less than complete asst. sold.
K7016—Assortment of Shepherd plaid and Scotch plaid ribbon, pure satin silk fast woven edges. All newest color combinations. Asst. consists of
8 pc No. 5—2¼ in. wide
3 pc No. 22—3½ in. wide
1 pc No. 40—5½ in. wide
Pc of 10 yds 75c, making the entire asst. of 20 pc. cost you **$15.00**

"Liberty" Brand—Pure silk smooth Satin face Satin back, fast edges, colors, Black, White, Jersey, Pink, Old Rose, Scarlet, Cardinal, Blue, Royal Blue, Emerald and Lake. 10 yds to pc.

	Width	Piece
Liberty-1½	⅝ in.	$ .25
Liberty-2	⅞ in.	.42
Liberty-3	1 in.	.52
Liberty-5	1⅛ in.	.65
Liberty-7	1¼ in.	.78½
Liberty-9	1½ in.	.78½
Liberty-12	1⅝ in.	.94½
Liberty-16	2¼ in.	1.12½
Liberty-22	2½ in.	1.25
Liberty-40	3¾ in.	1.57½
Liberty-60	4¾ in.	1.80
Liberty-80	5½ in.	2.02½
Liberty-100-4½	4½ in.	2.25
Liberty-300-6½	6½ in.	3.70

"Broadway"—Extra Quality, Pure Silk, Satin face, Taffeta back, fast edges, colors, White, Orchid, Pink, Rose, Scarlet, Cardinal, Tan, Brown, Navy, Black, Royal Blue, Rose Green. 10 yds to pc.

	Width	Piece
Broadway-1	⅝ in.	$ .22½
Broadway-1½	⅞ in.	.27½
Broadway-2	1 in.	.32½
Broadway-5	1⅛ in.	.37½
Broadway-7	1¼ in.	.98
Broadway-9	1½ in.	.98
Broadway-12	1⅝ in.	1.02½
Broadway-16	2¼ in.	1.25
Broadway-22	2½ in.	1.40
Broadway-40	3¾ in.	1.90
Broadway-60	4¾ in.	2.40
Broadway-80	5½ in.	2.90
Broadway-100	6½ in.	3.40

"Claire" Brand—High Grade Taffeta—Close and crisp weave, Satin finish, Pure Silk colors, White, Maize, Pink, Scarlet, Cardinal, Garnet, Lt. Blue, Navy Blue, Med. Blue, Lilac, Emerald, Brown, Copenhagen Blue. 10 yds. to pc.

	Width	Piece
Claire-1½	⅝ in.	$ .35
Claire-2	⅞ in.	.50
Claire-5	1 in.	.70
Claire-7	1⅛ in.	.98
Claire-9	1¼ in.	1.02
Claire-12	1½ in.	1.25
Claire-16	2¼ in.	1.40
Claire-22	2½ in.	1.60
Claire-40	3¾ in.	2.10
Claire-60	4¾ in.	2.40
Claire-80	5½ in.	2.70

"Queen" Brand—Warranted Pure Taffeta Silk, good weight and hairline ribbon, fast edges. Colors, White, Maize, Scarlet, Cardinal, Deep Pink, Sky Blue, Royal Blue, Navy Blue, Electric Blue, Lilac, Old Rose, Golden Brown and Black. 10 yds to pc.

	Width	Piece
Queen-5-1	⅝ in.	$ .42
Queen-7-1½	⅞ in.	.58½
Queen-9-1½	1 in.	.78½
Queen-12-1⅝	1⅛ in.	.94½
Queen-16-2¼	1¼ in.	1.12½
Queen-22-2½	1½ in.	1.25
Queen-40-3¾	1⅝ in.	1.57½
Queen-60-4¾	2¼ in.	1.80
Queen-80-5½	2½ in.	2.02½

MAYFAIR RIBBONS

Every pattern on this page comes in all the latest colorings. 10 yds. in piece. Please be sure to specify colors wanted.

K6229 - Width 4½ in. Light ground taffeta silk warp print, large rose design, narrow satin border 10 yds. to pc. Pc. $1.65

K6223 - Width 4½ in. dark grosgrain taffeta dresden with raised satin stripes 10 yds to pc Pc. $1.65

K6224 - Width 4½ in light ground dresden, face well covered with raised satin stripes and dots 10 yds to pc Pc. $1.65

K6223 - Width 4½ in. dark ground, warp print, small dainty raised dresden satin border 10 yds to pc Pc. $1.75

K6220 - Width 4½ in. dark ground, bold floral design, narrow taffeta border 10 yds. to pc. Pc. $1.75

K6232 - Width 5 in. light ground taffeta dresden, satin stripes and cord thru center satin and raised satin border 10 yds. to pc. Pc. $1.87½

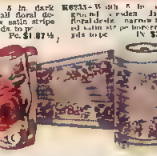
K6233 - Width 5 in. dark ground taffeta silk warp print, narrow raised satin stripe border 10 yds. to pc. Pc. $1.87½

K6234 - Width 5 in. dark ground, small floral design, narrow satin stripe border 10 yds. to pc. Pc. $1.87½

K6233 - Width 5 in. light ground, small floral design, narrow raised satin stripe border 10 yds to pc Pc. $2.00

K6210 - Width 5 in. light ground dresden, small dainty rose design, face overlaid with narrow satin stripes. 10 yds. to pc. Pc. $2.15

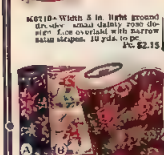
K6211 - Width 5 in. light ground dresden, bold flower design with combination 2 color border. 10 yds. to pc..... Pc. $2.15



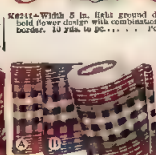
K6242 - Width 5½ in. light ground dresden 4 raised narrow satin stripes running thru center in imitation of satin stripes border 10 yds to pc Pc. $2.15

K6236 - Width 7½ in. taffeta satin stripe and check border, moire and cord satin pen. 10 yds to pc Pc. $7.50

K6267 - Width 9½ in. taffeta quality soft finish light ground flower design for ramwales etc. all new colors 10 yds to pc Pc. $8.25



K6180 - Width 3½ in. dark ground metallic bold flower design solid color border. 10 yds. to pc Pc. $3.00

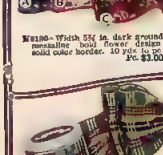


K6181 - Width 5½ in. novelty check effect metallic weave weave combination. 10 yds to pc Pc. $3.00

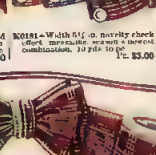
K6183 - Width 6¼ in. light and dark ground metallic dainty flower design with wide self color border 10 yds to pc Pc. $3.00

K6182 - Width 8½ in. light and dark ground metallic with 2 satin stripes running thru center 10 yds to pc Pc. $3.00

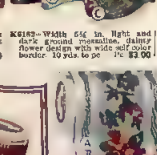
K6185 - Width 6½ in. medium dark ground metallic, large rose design with solid color border 10 yds to pc Pc. $3.00



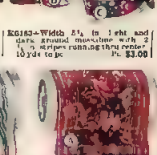
K6300 - Width 4½ in. pure silk Scotch plaid for Waists, all colors, all newest color combinations 10 yds. to pc Pc. $2.75



K6265 - Width 8½ in. fine quality Scotch plaid fright colors style effect. 10 yds. to pc Pc. $6.00



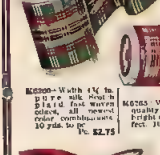
K6761 - Width 5 in. novelty Scotch plaid ribbon, all solid stripes all newest color combinations 10 yds to pc Pc. $3.00



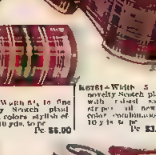
K6748 - Width 6½ in. medium dark ground taffeta novelty design fine fig. center wide satin border 10 yds to pc Pc. $3.75

K6749 - Width 6½ in. dark ground novelty dainty rose design center with satin stripe border 10 yds to pc. Pc. $3.75

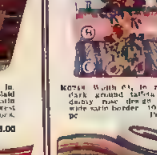
K6250 - Width 6½ in. heavy weight moire taffeta center with fancy raised satin stripe border. 10 yds to pc Pc. $5.00



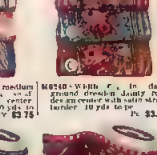
K6303 - Width 5½ in pure silk Scotch plaid ribbon, all new color combinations. 10 yds. to pc . Pc. $3.75



K6304 - Width 8½ in. pure silk Scotch plaid satin border, all new color combinations. 10 yds. to pc. Pc. $8.00



K6254 - Width 7½ in. medium dark ground satin design cut brocade satin and moire border 10 yds to pc. Pc. $7.00



K6257 - Width 7½ in. dark ground satin fine all over flower design combined with moire and satin check border. 10 yds. to pc. Pc. $7.00

K6255 - Width 8½ in. heavy weight Light ground dresden, raised satin stripe border 10 yds to pc Pc. $7.50

MAYFAIR RIBBONS

Every pattern on this page comes in all the latest colorings 10 yds in piece. **Please be sure to specify colors wanted.**

K6227 - Width 4½ in dark ground brocaded satin border 10 yds to pc. Pc $1.75

★K6228 - Width 5 in light ground dresden with fancy combined border 10 yds to pc Pc $1.85

K6229 - Width 5 in light ground taffeta dresden narrow raised satin border 10 yds to pc Pc $1.85

K6230 - Width 5 in dark ground with combination floral design with narrow satin stripe edge 10 yds to pc Pc $1.85

★K6231 - Width 5 in dark ground very fine dresden with daisy flower design with raised narrow satin border 10 yds to pc Pc $1.85

K6218 - Width 4½ in fine quality light ground dresden daisy design ribbon with wide satin stripe border 10 yds to pc. Pc $7.50

★K2123 - Assortment consists of four pieces 2½ yards to a piece with a combined assortment of light and dark patterns. Width 9½ to 4 pc. to box Per box, $7.00

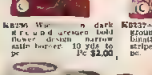
K6178 - Width 4½ in. fine quality soft finish moire taffeta, wide self color raised stripe pattern, three color with self color narrow satin stripe border, 10 yds. to pc. Pc $6.00

K6236 - Width 5 in dark ground taffeta dresden flower design with narrow satin stripe border 10 yds to pc Pc $2.00

K6237 - Width 5 in light ground dresden with combination raised satin stripe border 10 yds to pc Pc $2.00

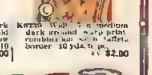
K6238 - Width 5 in dark ground dresden flower design narrow raised satin border 10 yds to pc. Pc $2.00

K6239 - Width 5 in mediums dark ground satin jacquard combination satin taffeta border 10 yds to pc. Pc $2.00



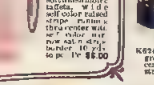
K6240 - Width 5½ in. dark ground taffeta silk dresden center, fancy raised satin stripe border, 10 yds to pc Pc $2.25

K6241 - Width 5½ in light ground taffeta dresden, bold flower design with raised satin stripe, combination two tone border, 10 yds. to pc. Pc $2.25



K6242 - Width 5½ in. satin taffeta overlaid with satin bars, shadow check design, 10 yds. to pc. Pc $2.75

K6187 - Width 5½ in light and dark ground messaline flower design with bold flower design center with satin border 10 yds to pc. Pc $3.00



K6189 - Width 5½ in light and dark ground messaline flower design center with combination striped border 10 yds to pc Pc $3.00

K6190 - Width 5½ in novelty check messaline light and dark combination 10 yds to pc Pc $3.00

K6246 - Width 6½ in. light ground dresden with fancy narrow stripes running through center raised satin border 10 yds to pc Pc $3.75

★K6247 - Width 6½ in. dark ground dresden center wide combination satin stripe border 10 yds to pc Pc $3.75

K6231 - Width 5½ in medium dark ground taffeta with stripes running to the center combination satin and dresden border, 10 yds. to pc. Pc $5.00

K6232 - Width 5½ in dark ground elaborate floral design wide satin stripe border 10 yds to pc Pc $5.00

K6233 - Width 5½ in. heavy satin silk figure taffeta dresden 10 yds to pc. Pc $5.00

K6221 - Width 4½ in. elongated plaid design check design with raised satin border 10 yds to pc Pc $2.00

K6227 - Width 4½ in. combination raised satin stripe border, 10 yds. to pc. Pc $3.00

K6229 - Width 4½ in. small check raised satin stripe 10 yds to pc Pc $1.87½

K6254 - Width 7½ in. heavy weight moire dresden, dainty flower design with raised self color satin border 10 yds. to pc. Pc $7.50

K6256 - Width 8½ in light ground dresden, flower center, wide combination satin and check border, 10 yds. to pc. Pc $10.00

K6259 - Width 5 in. heavy weight dark ground dresden rose design, narrow raised satin border 10 yds to pc Pc $10.00

K6273 - Width 5 in. pure silk check ribbon, raised satin stripe of same check 1 in. raised satin border, assorted colors, 10 yds to pc. Pc $2.75

K6274 - Width 5½ in. size of check ¾ in. heavily raised satin bars. All newest colors. 10 yds. to pc Pc $3.05

Taffeta, Satin, Grosgrain and Moire

MAYFAIR RIBBONS

K5001 - Width 4½ in. pure silk moire ribbon in fancy designs. Colors: black, white, pink, sky blue, navy blue, maize, old rose, Alice blue, cardinal, scarlet and green. 10 yds. to pc. Pc $1.47½

★K5002 - Width 4½ in. Satin face, Taffeta silk back. Colors: Black, White, Pink, Sky Blue, Navy Blue, Maize, Old Rose, King's Blue, Alice Blue, Cardinal, Scarlet and Green. 10 yds. to pc. Pc $1.75

K5003 - Width 5½ in. extra heavy Pure Silk Taffeta, fast woven edges. Colors: Black, White, Pink, Sky Blue, Navy Blue, Maize, Old Rose, King's Blue, Alice Blue, Cardinal, Scarlet and Green. 10 yds. to pc. Pc $2.75

NOVELTY SATIN TAFFETA RIBBON

K5000 - Pure Silk heavy weight, interlaid ribbon, designs in woven raised jacquard effect on face. Colors: White, Pink, Blue, Maize, Lilac and Nile in the following widths. 9 yds. to pc.

	Width	Piece
K5000-1	1 in.	$ .72½
K5000-1½	1½ in.	.97½
K5000-2	2 in.	1.22½
K5000-3	3 in.	1.72½
K5000-4	4 in.	2.47½
K5000-5	5 in.	3.22½
K5000-6	6 in.	4.22½

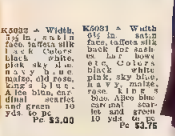
★K5004 - Width 6½ in. Taffeta Moire Silk, for hair bows, sashes, etc. Colors: Black, White, Pink, Sky Blue, Navy Blue, Maize, Old Rose, King's Blue, Alice Blue, Cardinal, Scarlet and Green. 12 yds. to pc. Pc $2.75

K5005 - Width 5½ in. heavy weight Silk Faille or Grosgrain Ribbon. Colors: black, white, pink, sky blue, navy blue, maize, old rose, king's blue, Alice blue, cardinal, scarlet and green. 10 yds. to pc. Pc $3.75

★K5038 - Width 4½ in. pure silk taffeta, high lustrous finish, fast woven edges. Colors: black, white, pink, sky blue, navy blue, maize, old rose, king's blue, Alice blue, cardinal, scarlet and green. 10 yds. to pc. Pc $1.42½

K5017 - Width 5½ in. Extra silk moire ribbon, heavy weight, new moire antique designs. Colors: black, white, pink, sky blue, navy blue, maize, old rose, King's blue, Alice blue, cardinal, scarlet and green. 10 yds. to pc. Pc $3.75

K5037 - Width, 5½ in. satin face taffeta silk. Colors: black, white, pink, sky blue, navy blue, maize, old rose, King's blue, Alice blue, cardinal, scarlet and green. 10 yds. to pc. Pc $3.00



K5031 - Width 6½ in. satin face, taffeta silk back, for sash or hair bows. Colors: black, white, pink, sky blue, navy blue, maize, old rose, King's blue, Alice blue, cardinal, scarlet and green. 10 yds. to pc. Pc $3.75

K5039 - Width 4½ in. satin face silk taffeta. Colors: black, white, pink, sky blue, navy blue, maize, old rose, King's blue, Alice blue, cardinal, scarlet and green. 10 yds. to pc. Pc $5.00

MAYFAIR HAIR BOW & SASH RIBBONS

K5000 - Width 4½ in. taffeta silk, raised satin stripes and cords thru center and on border. Colors: black, white, maize, pink, old rose, cardinal, blue, copenhagen, navy, hunter's green and lilac. 10 yds. to pc. Pc $1.67½

★K5014 - Width 4½ in. good weight taffeta, overlaid with raised satin stripes. Colors: black, white, maize, pink, old rose, cardinal, blue, copenhagen, navy, hunter's green and lilac. 10 yds. to pc. Pc $1.67½

K5029 - Width 4½ in. pure silk heavy weight taffeta with, raised satin stripes and pin dot border. Colors: black, white, maize, pink, old rose, cardinal, blue, copenhagen, navy, hunter's green and lilac. 10 yds. to pc. Pc $1.87½

K5020 - Width 4½ in. silk taffeta, raised satin cord thru center with satin stripe and cord border. Colors: Black, white, maize, pink, old rose, cardinal, blue, copen, navy, hunter's green and lilac. 10 yds. to pc. Pc $1.87½

K5034 - Width 5½ in., heavy taffeta satin striped center with raised satin border. Colors: black, white, maize, pink, old rose, cardinal, blue, copen, navy, hunter's green and lilac. 10 yds. to pc. Pc $2.65

K5024 - Width 5½ in. good quality taffeta ribbon, fast woven edges with raised satin stripes. Colors: black, white, maize, pink, old rose, cardinal, blue, copen, navy, hunter's green and lilac. 10 yds. to pc. Pc $3.00

K5032 - Width 4½ in. taffeta silk, overlaid with 10 narrow raised satin stripes. Colors: black, white, maize, pink, old rose, cardinal, blue, copen, navy, hunter's green and lilac. 10 yds. to pc. Pc $2.25

K5002 - Width 4½ in. taffeta silk, 3 raised satin stripes on edge. Colors: black, white, maize, pink, old rose, cardinal, blue, copen, navy, hunters green and lilac. 10 yds. to pc. Pc $2.25

K5005 - Width 6½ in. heavy weight taffeta silk, moire effect ribbon set in stripe and dot border. Colors: black, white, maize, pink, old rose, cardinal, blue, copen, navy, hunter's green and lilac. 10 yds. to pc. Pc $5.00

K5035 - Width 5½ in. pure taffeta silk ribbon for hairbows, raised satin bars and stripes running thru center. Colors: black, white, maize, pink, old rose, cardinal, blue, copen, navy, hunter's green and lilac. 10 yds. to pc. Pc $2.65

MECHANICAL TOYS

The better selling numbers only; strong, durable, well made, and handsomely finished with good strong springs. Popular favorites and big sellers.

ASSORTED

T2095 Assorted 3 kinds, turtle, beetle and frog; embossed metal, lithographed bright colors; strong springs, average size 4x2¾ ins.; 1 dozen assorted in box. Dozen. .35

TURTLE

T2096—Embossed composition; jointed head and legs; good spring; runs in circle; size 3x1⅞ ins.; each in box Dozen..... .90

ASSORTED

T2093—Assorted 6 kinds [illegible] tive, 3 autos, motor cycle [illegible] auto [illegible] bright colors, average 4½ ins. long, strong springs, 1 doz. assorted in box Dozen 95

CLIMBING MONK

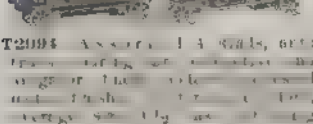
T3014 — When string is pulled monk climbs string in lively fashion, legs and arms moving, nicely finished, nicely painted in colors, each in box Doz 95

MOUSE

T2097 Natural color gray composition [illegible] winding runs along with [illegible] each in box Dozen 95

T2098 [illegible] runs in [illegible] each in box Dozen 1.35

ASSORTED



T2094 Assorted 4 kinds, extra [illegible] of [illegible] the [illegible] finish, [illegible] packed 1 doz. assorted in box Dozen 1.38

AUTO TRUCK

T3006 Iron [illegible] wheel [illegible] wheel body 1⅝x4 ins. long, 1 in. deep; 1 in. rear wheels, with jointed leg [illegible] driver, when [illegible] goes [illegible] each [illegible] in box. Dozen..... 2.00

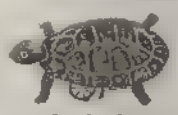
DONKEY AND CART

T3007 — Lithographed cart with donkey and driver; when [illegible] in circle size 6x [illegible] in box Doz 2.00

PARCEL DELIVERY

T3008 — Parcel delivery, finished in bright colors; good strong spring; size 4¼x2½x3½ ins., each in box. Dozen 2.00

TURTLE



T3001—Looks like the real animal; yellow and brown papier mache back composition head; glass eyes, movable legs; length 6 in., 4½ in. wide, 2¾ ins. high; 1 dozen in box. Dozen .2.15

LIZARD

T3002 Jointed wood green lizard; [illegible] like the real animal; length 8 ins.; 1 Dozen .02

T3005 [illegible] Dozen 2.00

THREE WHEEL AUTO

T3012 Lithographed wheeled auto with lady driver; runs in circle; 1½ and 1⅝ in. wheels, 3 in., length [illegible] high, 1 doz. in pkge Dozen 2.25

POOL PLAYER

T3030—Three color [illegible] stamped metal pool table, with player, when wound up, pool balls are brought to surface of table automatically when player makes shot [illegible] balls [illegible] in box Dozen 2.25

T3003 [illegible] Dozen 4.50

TOOL GRINDER

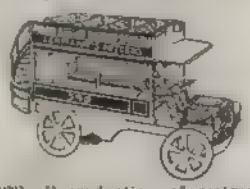
T3013 - Cut out lithographed mechanic, grinding tool on stone, when wound [illegible] sparks fly from stone; size 2¾x [illegible] high, 1 dozen in box. Dozen 2.25

T3004 [illegible] larger and with spring [illegible] high, ½ doz. in box Dozen 3.75

LOCOMOTIVE

T3205- Green and black enameled yellow striped; gray wheels strong spring, length [illegible] high, 1 [illegible] in box Dozen 2.25

5th AVENUE BUS



T3023—Reproduction of metropolitan auto bus, with top seats and stair way, finished in red, black white and yellow with gray wheels; strong spring; runs straight and in circle; with driver; length 7¼ in., width 2½ in., 4½ in. high; each in carton. Dozen.....3.65

WABBLING DUCK

T3087 Fine bronzed nicely modeled mallard duck, bright colorings strong spring, runs in circle; width 2½ in., length 6 in., 4¼ ins. high; ½ dozen in box. Dozen.....3.75

HOPPING ROBIN

T3088 [illegible] grained red bird in bright colors, spring, [illegible] legs when wound up [illegible] along in very life like manner; length 7 ins. 4¼ ins. high; ½ dozen in box. Dozen.....3.75

TAP TAP PORTER

T3016 — Walks like real porter, finished in bright blue and yellow; length 6½ in., width 2½ in., height 6 in., each in carton; 1 dozen in box. Dozen 3.50

CLIMBING MILLER

T3025 Wind [illegible] power 17 in. high, with 4 4 [illegible] paddles, weight [illegible] representing sack of flour is hung at top, this sets the mill in motion, the pointed arm and leg [illegible] climbing to top of column disengages the sack and returns with it to the bottom again, nicely enameled in bright colors, each in box. Dozen 3.90

CAT AND MOUSE

T3026—Cat on wheels watching rat in trap; when wound up, rat runs around in trap, all metal, strong and well made, nicely modeled and painted, strong spring, size 4x11 ins. 5 ins. high, each in box Dozen 3.90

NAUGHTY BOY

T3074 Auto runabout with [illegible] and boy occupants; boy operates steering wheel; when wound up runs in circle and zig zag; painted in bright attractive colors; size 5x3ins., 4½ ins. high; each in box. Dozen 3.95

TAXICAB

T3018 — Red and black enameled taxi cab; double spoke wheels, size 3x6¼ in., 4 ins. high each in box Dozen 4.00

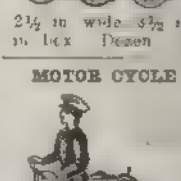
ACROBATS

T3057 — Acrobat on trapeze, metal stand with swinging acrobat, when wound up performs numerous thrilling feats, base 4½x4½ ins., 8 in. high; 3½ in. performer; each in box. Doz...4.00

LOCOMOTIVE

T3029 —Red and Black enameled, 4 gray wheels, length 8 in., 2½ in. wide, 3½ in. high, ½ doz. in box Dozen 4.00

MOTOR CYCLE DELIVERY



T3022—Motor cycle, with jointed arm and leg, driver, bright colors runs straight then turns and comes back again, size 5x3x4½ ins. high, each in box Doz 4.00

PARK AUTO CYCLE

T3021 — Park auto cycle with passenger and chauffeur, when wound runs in circle or straight ahead umbrella revolving and passenger [illegible] but size 5x3½ x5 in. high each in box. Dozen 4.00

DELIVERY AUTO

T3015—A H A delivery auto; enameled and striped in bright colors; double spoke wheels, gray [illegible] hinged rear door; runs straight and circles [illegible] by spring clutch; strong spring, with driver; size 3x5½ ins., 4 ins high; each in box. Dozen ... 4.00

JINNY THE MULE

T3020—Mule, cart and clown, finished in bright colors, when wound up, mule bucks, and backs; an exact imitation of a balking mule; length 8¼ in.; each in carton; 1 dozen in box. Dozen.....4.25

HAND CAR

T3066—Two jointed mechanics, operating hand car; finished in bright yellow and gray; realistic motion; strong spring; length 6 ins., width 2½ in., 6¾ ins. high; each in box. Dozen ... 4.15

JAZZBO JIM

T3070 — Lithographed negro cabin 3¼x4¾x 2¼ in. high, with full jointed negro dancer on roof; when wound up, Jazzbo Jim does all the best jig dances; height dancer 7½ ins. total height 10 ins.; each in box. Dozen....4.25

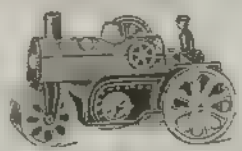
SANDY ANDY CIRCUS

T3077 -Consists of two iron circus horses revolving around pedestal, on which a jointed cut out lithographed clown is standing; a slight whirl and the horses are put into action, the clown dancing; length over all, 14 ins.; 7 ins. high; each in box. Dozen.....4.35

MONK DRUMMER

T3075 — Military dressed monk, jointed arms and head mounted on green base; when wound shakes head and tail, playing drum; size base, 2¾x2¾x 1½ in., total height 8 ins.; each in box Dozen 4.35

ROAD ROLLERS



T3017—Lithographed in bright colors, blue boiler, yellow cab, gray wheels and rollers; with engineer, reversible, runs forwards and reverses; length 6 in. 2½ in. wide, 3¾ in. high; ½ dozen in box. Dozen ... 4.35

T3067—Finished in bright red, black striped; 1¾ in. front; ⅞ in width, rear rollers; with engineer; reverses; length 8 in., 3⅜ in. wide, 6½ in. high; each in box. Each ... 72

SEE SAW MONKS

T3034—Two jointed arm monks, on see saw mounted on 3 in. wheels; right runs; when wound runs about 3 feet then reverses. Monks tipping hat; size 12x2¼ ins., 8 ins high (top of pennant ; good strong spring; each in box. Dozen 4.35

FLYING DUCK

T3024 -Natural modeled and finished duck; jointed wings; when wound runs straight, wings moving in flying action; good spring; size 7x3½ ins., 5 ins. high; each in box. Dozen 4.50

MOTOR CYCLE

T3032 -Motor cycle with rider; exhaust [illegible] action; nicely painted [illegible]; bright colors, 2 [illegible] wheels; strong spring; size 8x3 ins., 6¾ ins. high; each in box. Dozen 4.50

ROLLO-CHAIR

T3091 Boardwalk Atlantic City rollo-chair; nicely enameled in yellow and red and striped; 3 double spoke wheels; white costumed jointed negro "chauffeur;" good spring, when wound negro pushes chair along walking and nodding head in natural manner; size 7x3 ins., 6½ ins high; each in carton. Dozen 4.50

You will be losing sales every day during the Holiday season if you do not have a liberal showing of the popular Tinker Toys.

MOTOR CYCLE RIDER

Dynamobile Mechanism

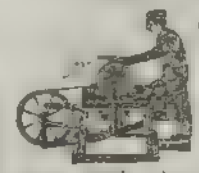
T3098 Built like a real motor cycle; runs by dynamobile mechanism, adjusted to run in circle at high speed; nicely enameled in bright colors; rider in regulation costume, length 9 ins., 7 ins. high each in box. Dozen ... 4.50

COON JIGGER

Special Steel Spring Long Running Mechanism

T3078-Jointed lithographed typical Alabama Coon on platform; when wound up jigs in very natural manner, swinging arms and dancing round and round on platform; lever snap for starting and stopping; size 3¼x 4¾ ins.; 10 inches high; each in box Dozen 4.50

SCISSORS GRINDER



T3062 — Cut out jointed lithographed man, grinding scissors; metal frame, with foot pedal and large [illegible] wheel when wound, sparks fly from grind stone; size 6½x4x 4½ in. high; each in box Dozen ... 5.75

JAZZ MUSICIAN

T3170— Negro musician, dressed in the height of fashion; plays drum, cymbals and violin, when wound up, and moves arms and tips hat; bright colors; base 4x2¾ ins., 10 ins. high, each in box. Dozen 5.75

CHARLIE CHAPLIN

T3072—All metal, jointed figure of this popular movie star; enameled in black; spring action; when wound up shuffles along in characteristic Chaplin gait, moving body side to side, and swinging arms [illegible]; each in box. Dozen ... 6.25

[illegible]

T3108— Black enameled jointed leg horse with rider; when wound up, horse gallops in very natural manner length 6½ ins.; 5¼ ins. high; each in box. Dozen ... 6.25

SOMERSAULT DOG

T3166—A metal nicely painted; when wound up, dog turns a complete somersault, landing on his feet, and repeating the performance many times; length 5½ ins.; 4 ins high each in box. Dozen ... 6.25

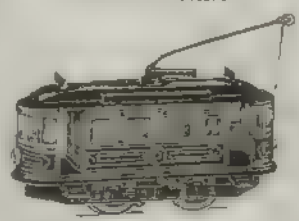
SHUFFLING JIMMIE

T3167 - Jointed metal mechanical man; red enameled coat, black hat, black cloth trousers, good spring, when wound up shuffles sideways, height 7 ins., each in box. Dozen ... 8.50

WALTZING FIGURES

T3164—Couple in full dress in dancing position; when wound up waltz round and round in very realistic manner; highly enameled in bright colors; height 7½ ins.; good spring; each in box Dozen ... 8.00

TROLLEY CARS



T3158—Lithographed metal, open windows and front and rear platform entrances; strong spring length 8½ in.; 2¼ in. wide, height (top of car) 3½ ins.; each in box. Dozen 8.25

T3159—Same, larger; length 10 in., width 2½ ins.; height (top of car) 4½ ins.; each in box. Each..1.10

ROAD ROLLER

T3068— Mogul Type; reversible green enameled boiler and cab, red wheels and driving rods; nicely striped; gilt cylinders; length 8½ in., 3¾ in wide, 5 ins high; each in box. Dozen..... 8.50

T3067—Bright red, black striped; front roller 1¾ in. wide, 2 rear rollers ⅞ in. wide; reversible; length 8 in., 3¾ in. wide, 6½ in. high; each in box. Each. . 72

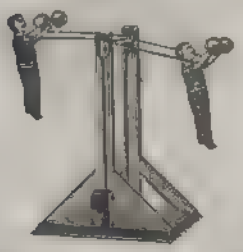
BANJO PLAYER

T3169—Negro banjo player; jointed arms and legs; when wound up picks banjo, keeping time with head and feet; bright colors; good spring; size 3x4 ins. 7 in. high; each in box. Dozen.. 8.75

FLYING AEROPLANES

T3105—Two aeroplanes, with revolving propellers, mounted on base and operated by means of friction pulleys and weight; painted in bright attractive colors; size base 4½x6 ins.; 9½ in. high, spread of planes, 18 ins. Each. .72

ACROBATS



T3058—Double acrobat on [illegible], 5¾x6½ in. metal base, 6¼ in. performers; good strong spring; when wound up do the giant swing, and many other difficult acrobatic stunts; height 10 ins.; each in box. Each 75

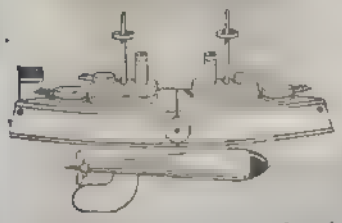
BUCKING BRONCHO

T3171—Jointed broncho with cowboy rider, finished in bright colors; when wound up broncho bucks, throwing rider over head, rider springs back into saddle only to be thrown again; repeating until finally rider breaks pony and retains his seat; on base 2½x6 in., 7½ in. high each in box. Each.....79

HONK HONK

T3172—Auto runabout with driver; white enameled, red striped, imitation red rubber tires; when wound up runs straight the [illegible] at different angles [illegible], striking [illegible] sounding horn length 7 in. 3½ in. wide, 6½ in. high each in box Each 79

SINKING BATTLESHIP



T3108—Made for the water, of steel, and floats like a real ship; operated with a self propelling torpedo; by aiming the torpedo at the battle ship, and by hitting the round target on the side of the ship, the bunkers will fill with water and it slowly sinks; each in carton. Each 1.00

JUMPING MONKEY

T3188—Plush monkey, well made and nicely shaped; when wound up, jumps forward with life like motion; height 7 in.; each in box. Ea.1.00

MONKEY ON VELOCIPEDE

T3186 — Dressed monkey on velocipede; express trailer; when wound up, rides in a very life like and amusing manner height 10 ins. each in box [illegible] 1.00

TUMBLING MONKEY

T3187 Brown plush monkey, dressed in red jacket and blue trousers gilt braid trim; performs on black wire and turns somersaults when wound up; height 10 ins.; each in box. Each 1.00

JUMPING FROG

T3184—Full jointed, green flannel frog; natural glass eyes, white throat, green belly, red squeak cap on head; when wound up leaps in a natural frog fashion; good spring; length 8 ins., 7 in. high; each in box. Each.1.00

STEAM ROLLER

T3174—Gray enameled body, black boiler, with 2 cylinders and piston drive rods connecting with wheels; front roller; when in motion, pistons work like on regular engine; runs straight or to right or left by adjusting roller; strong spring; size 3¼x9 ins., 6½ in high; each in box. Each.....95

BIRD IN CAGE

T3065 — Brown and gilt finished metal cage, with spreading wing bird, mounted on tree branch; nicely made and decorated; good spring; when wound, bird moves and whistles; size 5x6¾ in. footed base, 10 in. high; each in carton Each 1.25

MERRY-GO-ROUNDS

T3035—Green enameled truss base, supporting 3 in. yellow revolving disk with 3 seated figures; bright red umbrella canopy; good spring; height 4½ ins.; 1 dozen in box Dozen 92

T3036—White and gold striped base; 2 horses with riders on revolving platform; with canopy; musical attachment; bright colors; diam. 4½ ins.; 8 ins. high; each in box Dozen 8.05

T3037—Same as T3036 larger; diam 5½ ins., 11½ ins high; each in box. Dozen... 4.50

T3041 — Revolving top with 3 swings and passengers; finished in bright colors; diameter top 4½ ins.; 11 ins. high; each in box. Dozen..4.85

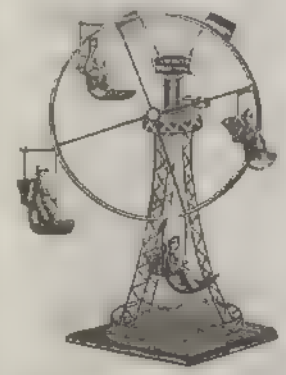
T3039 — Octagon shaped base 5¾ in. in diameter; round revolving top with 3 galloping horses on platform; good music box; nicely finished in brilliant blended colors and gold; height 10 ins., each in carton [illegible] 1.35

T3042—[illegible] revolving top with 4 swings and passengers; finished in bright colors, and gilt striped; well made; diameter top 5½ ins.; 14 ins. high; each in box. Each..... 72

T3044—Same as T3042, larger, 6 swings with passengers; height 11¼ ins., each in carton Each 1.10

T3043—Same as T3042 larger, 8 swings with passengers; height 12½ ins.; each in carton Each 1.38

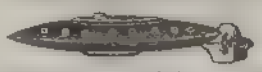
FERRIS WHEELS



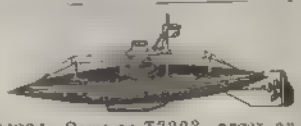
T3053—Full metal Ferris wheel and tower; nicely enameled in bright colors, 6 cars with passengers, height 10½ ins.; each in carton. Each 1.10

T3054—Same as T3053, larger, height 13½ ins; each in carton. Each 1.45

MECHANICAL BOATS



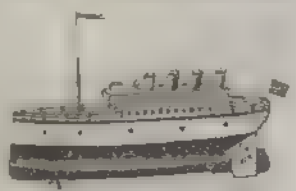
T3203—Gray enameled, air tight compartment submarine; when wound up, submerges for several seconds, then comes to the surface of the water, repeating until power is exhausted; 3 wheel propeller and rudder; length 8½ ins.; ½ dozen in box. Dozen.....8.25



T3204—Same as T3203, larger, and with lookout tower, and guard rails; length 10½ ins.; each in box. Each 1.38

T3189—Passenger steamer, hull finished in bright red, black and white; two funnels, 4 blade propeller, rudder and flag staff, length 8 ins.; each in box. Dozen. 8.75

T3192—Passenger steamer; red and white hull striped in dark green, three funnels, two three blade propellers and rudder; flag staff, gilt guard rail; length 9 ins.; each in box Dozen.....6.75



T3194—Passenger steamer; hull finished in red and white enamel, dark green striped; gilt front and rear guard rails; four funnels, two three-blade propellers and rudder; length 11 ins. Each..... ..1.00

T3195—Same as T3194, larger, length 13 ins.; each in box. Each 1.68

MECHANICAL AUTOMOBILES

Strong springs, long running; finished in bright colors; modeled after the latest standard cars

SPORT CAR

T3134—Red enameled stamped metal body; 1¾ in. yellow wheels; good springs; runs straight and right and left; length 8 in., 2½ in. width, 2¾ in high; 1 dozen in box. Dozen 1.25

SEDAN

T3137—Finished in bright yellow nicely striped; with chauffeur good spring, length 8 ins., 1¾ ins. wide, 2¾ in. high; 1 dozen in box. Dozen 1.95

RACING AUTOMOBILE

T3135—Assorted colors, speedway racing car, red yellow wheels and radiator, strong spring, with driver; length 8 ins., 2½ ins wide, 3 ins high; each in box. Dozen 2.10

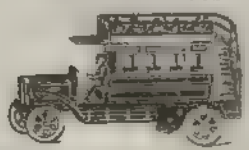
ROADSTER

T3126—Touring Car; nicely enameled and striped, with driver; length 7¾ ins.; 1 dozen in box. Dozen 2.25

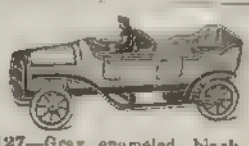
AUTO TRUCK

T3116—Auto truck, green enamel body and hood, black gear, gray wheels; with driver; long running spring; length 7½ ins., width 2½ ins., 3½ ins. high; 1 dozen in box. Dozen 2.25

SIGHT SEEING BUS



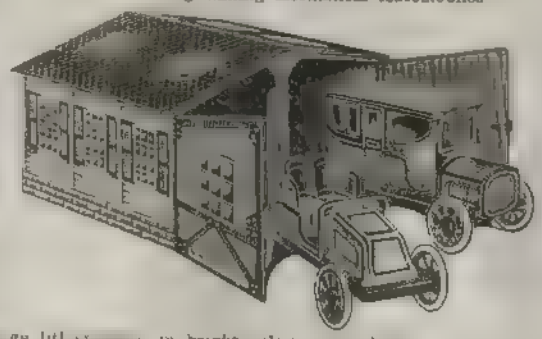
T3023—Metropolitan sight seeing bus, finished in red, white and black enamel, gray wheels, with winding stair and seats on top; length 7¼ in., width 2½ ins., height 4 ins; each in carton. Dozen 3.65



T3127—Gray enameled, black and yellow stripings; blue wheels, with chauffeur, runs straight and in circle; good spring; length 7¼ ins., 3¼ ins. wide, 2½ ins high; ¼ dozen in carton. Dozen 4.00

LITHOGRAPHED DECORATED METAL GARAGE

With two long-running mechanical Automobiles



Garage lithographed in bright colors, with [illegible] two hinged doors [illegible] painted windows and sky [illegible] are closed 5½x6½x4½ ins. high; two clockwork spring mechanical autos, [illegible] limousine, attractively painted in [illegible] colors; adjustable to run [illegible] in circle, roadster 3x7x3 ins., limousine 3x5 [illegible] complete in carton

T3150—Auto garage with autos [illegible] 7.50 Each. .. .70

SEDAN

T3138—Assorted 2 kinds, runabout and sedan; bright colors, nicely striped; imitation rubber tires with chauffeur; runs straight, length 7½ in., 3 in. wide, 2½ in. high; 1-3 dozen assorted in box. Dozen 4.00

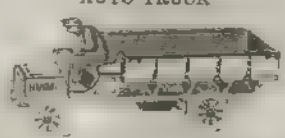
SEDAN

T3139—Late model; violet and purple finished body and hood; nicely striped; imitation rubber tired blue wheels; with driver; runs straight and in circle; length 7½ ins., width 3¼ ins., 4 ins. high; each in carton. Dozen 4.50

TOURING CAR

T3128—Bright red enameled, yellow striped; imitation gray rubber tired wheels, with chauffeur; adjustable front axle for straight or circular running; good strong long running spring; length 9¼ ins.; each in box. Dozen 8.25

AUTO TRUCK



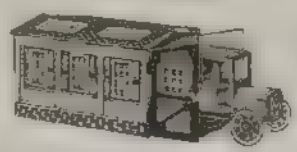
T3119—Auto truck for heavy hauling, gray enameled, black striped; imitation rubber tired wheels, painted hinges for dropping sides; reinforced chasses; strong spring; runs straight and in circle; length 9¼ ins., width 3 ins., 4 ins. high; each in carton. Each ..... .72

LIMOUSINE

T3144—Blue and black enameled limousine, nicely striped, hinged doors; adjustable glass windshield, head lights with glass and reflectors; chauffeur; imitation rubber tires; runs straight with shift lever for running in circle; shift brake lever; length 11 in., 5 in wide, 6 in. high; each in box. Each 1.00

MISCELLANEOUS MECHANICAL TOYS

AUTO GARAGE



T3145—All [illegible] lithographed in bright colors, with painted windows on sides and ends; two hinged doors with latch to keep them closed; four painted sky lights on roof; with clockwork spring Sedan 3x5½ in., 3¼ ins. high, which runs straight or in circle; garage 4¾x6½ ins., 4 ins. high; ⅓ dozen in carton. Dozen 4.40

FIRE HOUSE GARAGE

T3149—Same as T3148, but fire engine garage, with mechanical fire engine and ladder truck; each 6 ins. long; size garage 6¼x8¼ ins. 6 in. high; 1/3 dozen in carton. Dozen 9.50

TOURING CAR

T3129—Enameled bright red, black trim; with chauffeur; glass side lamps, wind shield; gray imitation rubber tires; front axle adjustable for circular running; extra strong spring; length 12½ ins., 5¼ ins. wide, 6½ in high; each in box. Dozen ..... 12.50 Each 1.10

TOURING CAR

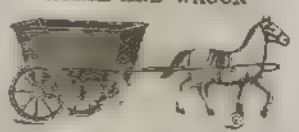
With automatic stop

T3130—Touring car; gray enameled, yellow striped; brown upholstered; imitation rubber tired yellow wheels; with chauffeur; long running guaranteed spring; shift lever for stopping and starting; length 11 ins., width 4½ ins., 6¼ ins. high; each in carton. Dozen ..... 13.50 Each 1.25

SEDAN

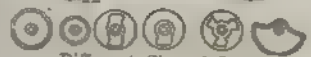
T3140—Blue enameled and striped body, black chassis top and fenders, heavy imitation rubber tire wheels; glass wind shield; lamps; luggage carrier with trunk; chauffeur, hinged doors, spring steering gear adjustment for running to right or left in circle; strong spring size 4x13 ins., 9½ ins. high, each in box. Each 1.65

HORSE AND WAGON

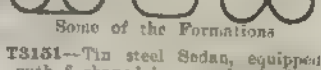


T-3084—[illegible] yellow wheels, black gray [illegible] long running spring [illegible] circle, size [illegible] ins., 3¼ ins. high, 1 dozen in box. Dozen 1.25

SELF STEERING AUTOS



Different Shaped Lugs

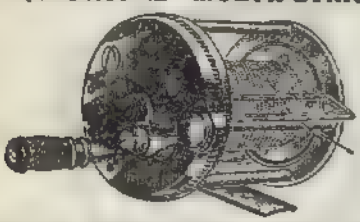


Some of the Formations

T3151—Tin steel Sedan, equipped with 6 shaped lugs, each of which when placed in position on car causes it to run in different formations; will run straight, circle oval, oval with double circle, triangle and figure 8; size 3¼x7½ in., 4¼ ins. high, with brake; each in carton. Dozen 6.75

FISHING REELS

QUADRUPLE MULTIPLYING



SOUTH BEND, ANTI-BACK LASH

A guarantee for one year with each reel. This reel is the only one of its kind made which has a brake that works automatically with the proper force as the line slackens at the end of the cast.

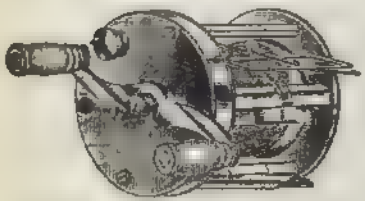
The spool and gear journals are of special steel, accurately turned ground. lapped and burnished to mirror like surface, turning in solid phosphor bronze bushings.

The gearing is of special hunting tooth tram, the gear of which is cut from hard drawn brass, the pinion from special tool steel.

Can be used with or without back lash as desired.

No. 399—100 yds., 1⅝ in. pillar, 2 in. in diameter, jeweled bearings, hand polished, solid German silver, balanced white bone handle with back sliding click .....each $16.60

ONE IN A BOX



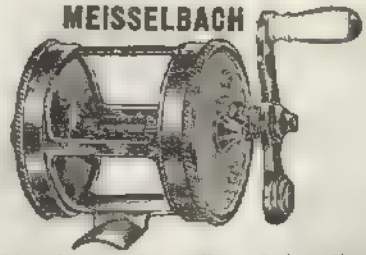
SOUTH BEND, ANTI-BACK LASH

Level winding, plain, light in weight, strong and rigid in construction, frame and all component parts of satin finish Liberty silver, agate jeweled spool caps of screw-off pattern, adjustable spring tension grip, equipped with click, white ivoroid double grips. Envelope with directions containing a watch charm screw driver and one extra pawl, with each reel.

No. 499—Capacity 100 yds., measured by standard 16 or 20 lb. test silk line .....each $33.30

ONE IN A BOX

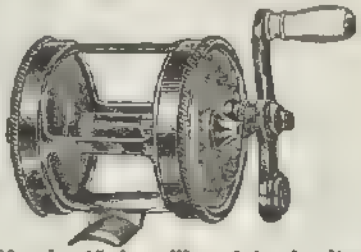
MEISSELBACH



80 yds., 1⅝ in. pillar, 2 in. diam., quadruple multiplying, nickel plated, w't 6½ oz.

No. 3580—Tri-part .....each $7.20
No. 3680—Freespool .....each 9.40

ONE IN A BOX

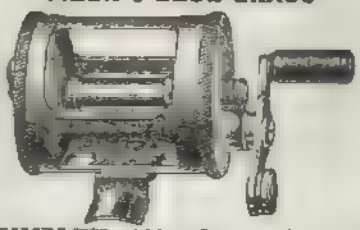


80 yds. 1⅝ in. pillar, 2 in. in diam., quadruple multiplying, tubular frame, made off solid piece of tubing, with flat cross bars, no screws or rivets to work loose, steel pivots and gears, solid steel shaft, rear sliding click, highly nickeled finish with German silver spool, w't 7¾ oz.

No. 3780—Take-a-part, each $8.80
No. 3980—Free-spool Take-a-part, each $10.60

ONE IN A BOX

MEEK'S BLUE GRASS



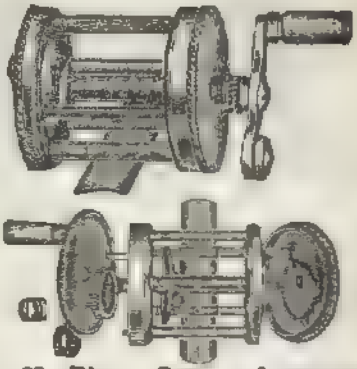
SIMPLEX, 100 yds., 1⅝ in. spool, triple multiplying, with thumb rest, easily taken apart by unscrewing cap on back end and thumb nut on front end, back sliding click off oil tempered steel, brass and German silver, all brass parts finely nickel plated, w't 7 oz.

No. 34 Reel is the Free Spool Model for easy casting. The Free Spool Mechanism is the Clutch Principle and Automatic in its Action. The Act of Casting Automatically Disconnects the Gearing from the Spool. The Gearing is Automatically Reconnected to the Spool by the Act of Winding in the Line.

No. 33—Each $22.00
No. 34—Free-spool .....each 23.50

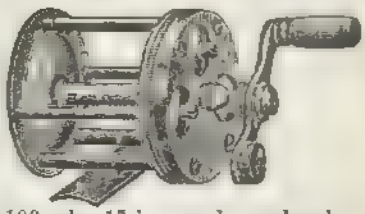
ONE IN A BOX

MEEK'S BLUE GRASS



No. 25—Blue Grass Improved, 85 yds., quadruple multiplying, German silver, "take-apart," of new designs, outside diam. 1 15/16 in., diam. of spool 1⅜ in., length of spool 1¼ in. .....each $26.40

ONE IN A BOX

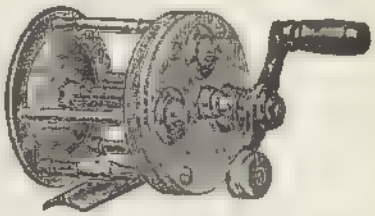


100 yds., 1⅝ in. spool, quadruple multiplying, special hand cut gears, tempered tool steel pivots and studs, balanced ivory handle, front sliding click and drag, screw-off oil caps, German silver, perfect workmanship and adjustment, w't 8 oz.

No. 3—Eeach $29.30
No. 3J—Jeweled bearings, each $36.66

ONE IN A BOX

GENUINE MEEK



80 yds. No. 4 braided silk line. Diameter end plate, 2 inches. Length spool 1¼ inches. Diameter of spool head, 1¼ inches.

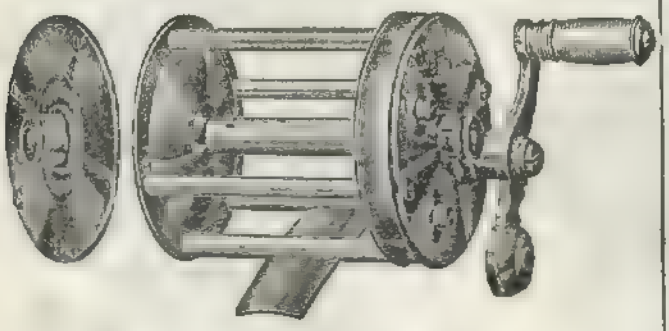
No. 3M—German silver reel, balance handle forward, click or click and drag, screw-off caps, each $44.00

No. 3MJ—Same as No. 3M except made with jeweled pivot bearings, each $52.50

FISHING REELS

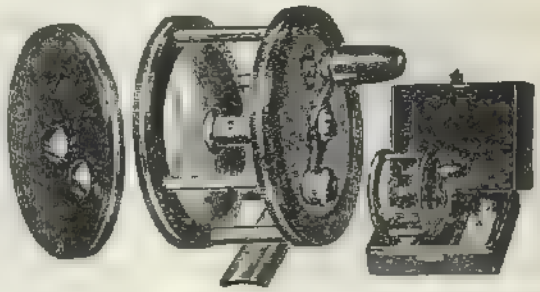
No. 1573—Pflueger—Supreme Level Winding, free Spool and Anti-Back-Lash Casting Reel Quadruple.
Easy to oil the bearings without removing any of the parts.
Generated Spiral Tooth Gears
Bronze Bushed for Bearings
Steel Pivots, Highly Polished
Adjustable Front Sliding Drag
Pyralin Amber Fluted Handle
Silverine finish, capacity 60 to 100 yards, according to size line used. Size 1⅞ in. Pillar, 2¾ in. disc.
With one Screw Driver.
Each $36.70

ONE IN A CHAMOIS BAG



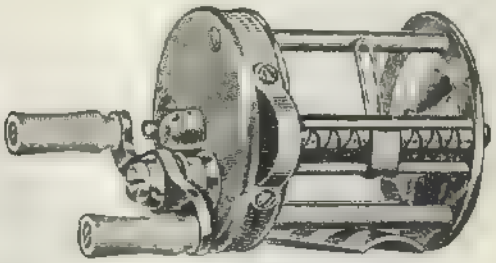
No. 1823—Pflueger—Worth:
German Silver and treated to prevent tarnish.
Generated Spiral Tooth Gears.
Bronze Bushed for Bearings.
Adjustable Front Sliding Phosphor Bronze Goose Neck Click.
Adjustable Front Sliding Drag.
Front and Back Fancy Adjustable Oil Cups with Scarlet Genuine Agate Jewels.
Patented Adjustable Spring Tension Cups.
Steel Pinion.
Steel Pivots, Highly Polished.
Single Handle Crank, Balanced.
Pyralin Ivory Handle.
1⅝ inch Pillar, 2 inch Disc, capacity 60 yards.
Each $14.60

ONE IN A FANCY BOX



No. F1133—Plueger Golden-West, Single Action:
Hard Rubber Discs, Interleaved with Aluminum
Bushed for Bearings
Lined Shedding Adjustable Back Sliding Differentiating Click
Line Shedding Oil Cup on Back Plate
Steel Pivots
Flush Crank, Balanced
Hard Rubber Handle
Satin German Silver, treated to prevent tarnish. Capacity 60 yards, size ⅝ in. Pillar, 2¼ in. Disc.
With "Pflueger-Marvel" oil can enclosed★ . .each $16.50

ONE IN A FANCY BOX



HEDDON'S LEVEL WINDING

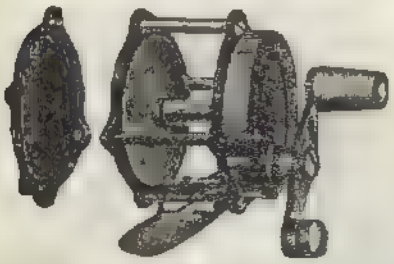
A Level Winding Reel that is up to the recognized high standard of Heddon quality in every respect. New and patented features such as the Steady Bar (patent applied for), an improved, exceedingly strong, and silent gear train; a stabilized line carriage, and a perfect screw housing guarantee its correct functioning and satisfactory service.

Full quadruple multiplying, with exactly the correct ratio of speed between the spool and line carriage to produce that criss-cross or "kite winding" of the line which so effectually presents back-lashing Spiral gears, of a special hard drawn phosphor bronze are so novelly arranged that they are much stronger than are ordinarily used, and also make it possible to avoid the objectionable construction of placing the spool off the center of the reel. Smaller in size, lighter in weight, it nevertheless has a spool capacity of 100 yards of 15 pound test line. Smooth velvet finish that is practically indestructible. Equipped with Heddon designed double handle. Heddon's oiling system, completely oiling the reel without taking it down.

No. F3-35LW—Made of the best, tested, hard drawn, watch nickel; stud, shaft, pivots and pinion made of Stubbs drill rod, hardened, oil tempered, ground and polished to size★ $35.00

FISHING REELS

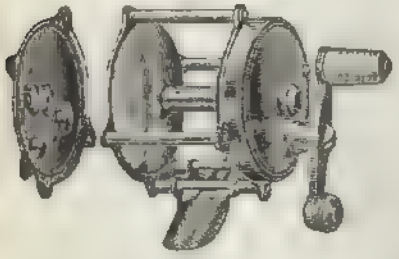
DOUBLE MULTIPLYING



Nickel plated, balanced white handle, raised pillar, with back sliding click and drag, screwed plates.

Nos.	4840	4860	4880	4900
Capacity, yds.	40	60	80	100
Pillar, in.	1	1 1/16	1 1/8	1 1/8
Diameter, in.	1 3/4	2	2 1/4	2 1/2
W't, ozs.	4	4 1/2	5	5 1/2
Each	$1.90	2.10	2.30	2.60

ONE IN A BOX



1 1/4 in. pillar, 1 5/8 in. diameter, nickel plated, milled edges and engraved, white bone balanced handle, raised pillar, click and drag, w't 3 ozs.

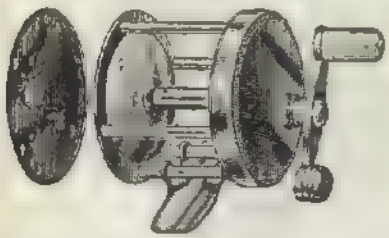
No. 5840—40 yards, without jeweled cap ..... each $2.40

No. 5860—60 yards, without jeweled cap ..... each 2.60

No. 5840J—40 yards, with jeweled cap ..... each 2.80

No. 5860J—60 yards, with jeweled cap ..... each 3 00

ONE IN A BOX

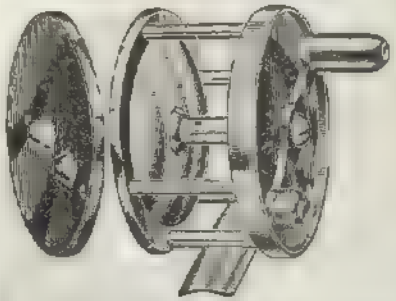


Nickel plated, round disc, white balanced handle, screwed plates with brass bushed bearings, back sliding click and drag, fine steel pivots.

WITHOUT JEWELED CAP

Nos.	1260	1280
Capacity, yards	60	80
Pillar, in.	1 3/8	1 3/8
Diam., in.	2 1/4	2 3/8
Weight, oz.	3 1/2	4
Each	$3.00	3.30

DOUBLE MULTIPLYING



7/8 in. pillar, 2 1/2 in. diameter, round hard rubber disc, with balanced handle, back sliding click and drag, w't 3 1/2 ozs.

No. 4260—60 yards ..... each $5.10

No. 4280—80 yards ..... each 5.40

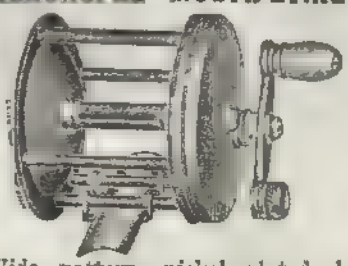
ONE IN A BOX

"SALT WATER"

No. 6100—Rubber, surf-casting, 200 yards, 2 1/2 in. pillar, 3 in. in diam., reverse metal bound, nickel plated metal parts, adjustable back-sliding click and drag, bridged front plate, coffee grinder handle, Kentucky pattern cross plate, steel cog post, click spring, tongue and ratchet, w't 16 oz. ..... each $11.50

ONE IN A BOX

QUADRUPLE MULTIPLYING



Wide pattern, nickel plated, balanced handle, screwed plates with fine brass pivots in bronze bushed bearings, patent adjustable back sliding drag and click.

WITHOUT JEWELED CAP

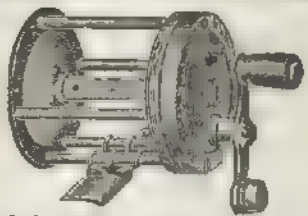
Nos.	1940	1960	1980
Capacity, yds.	40	60	80
Pillar, in.	1 3/8	1 3/8	1 3/8
Diameter, in.	1 3/4	2	2 1/4
W't, ozs.	5 1/4	6	6 1/2
Each	$3.40	3.60	3.90

WITH JEWELED CAP

Nos.	1960J	1980J
Capacity, yds.	60	80
Pillar, in.	1 3/8	1 3/8
Diameter, in.	2	2 1/4
W't, ozs.	6	6 1/2
Each	$4.00	4.20

ONE IN A BOX

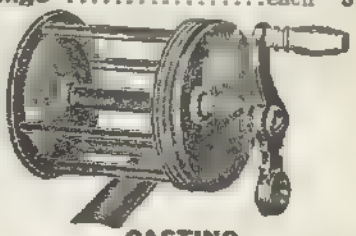
QUADRUPLE MULTIPLYING



Nickel plated, 1 3/8 in. pillar, 2 in. diameter, balanced white handle, brass pivots, patent adjustable front sliding drag and back sliding click, w't 7 ozs.

No. 8260—60 yards ..... each $4.80

No. 8260J—80 yards, **jeweled bearings** ..... each 5.20



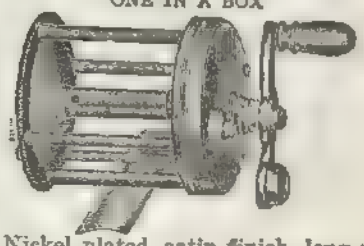
CASTING

Nickel plated, 1 3/8 in. pillar, 2 in. diameter, balanced white handle, patent adjustable front sliding drag and back sliding click, w't 7 1/2 ozs.

No. 6260—60 yards ..... each $5.00

No. 6260J—80 yards, **jeweled bearings** ..... each 6.00

ONE IN A BOX

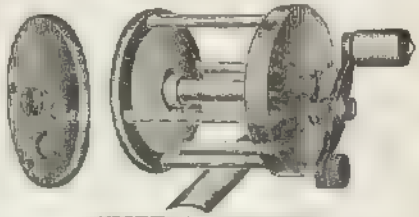


Nickel plated, satin finish, long pillar, 1 3/8 in., 2 in. diameter, steel pivots, steel axle, pinion cover, steel pinion, adjustable click and drag, balanced right handle, w't 8 ozs.

No. 6160—60 yards ..... each $7.70

No. 6160J—60 yards, **jeweled bearings** ..... each $8.20

ONE IN A BOX



"METAL BOUND"

Rubber discs, metal bound, adjustable back and sliding click and drag, balanced white bone handle.

Nos.	1840	1860
Capacity, yds.	40	60
Pillar, in.	1 3/8	1 3/8
Diameter, in.	1 3/4	2
W't, each, ozs.	5 1/2	6
Each	$5 90	6.10

ALL ABOVE ONE IN A BOX

SINGLE ACTION FISHING REELS

BRASS, NO CLICK

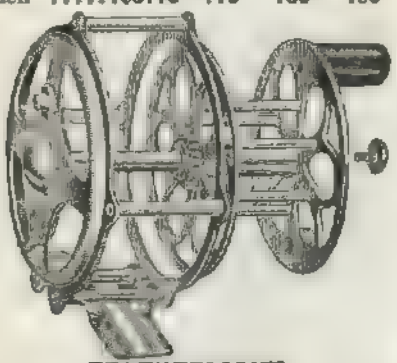
Nos.	225	240	260
Capacity, yds.	25	40	60
Pillar, in.	1	1 1/16	1 1/8
Diam. in.	1 1/2	1 1/2	1 3/4
W't doz., lbs.	1 1/2	1 9/16	1 5/8
Each	$0.40	.50	.60

BRASS, WITH CLICK

Nos.	325	340	360	380
Capacity, yds.	25	40	60	80
Pillar, in.	1	1 1/16	1 1/8	1 1/4
Diam., in.	1 1/2	1 1/2	1 3/4	1 3/4
W't, doz., lbs.	1 1/2	1 9/16	1 5/8	1 7/8
Each	$0.60	.65	.70	.80

NICKEL PLATED, WITH CLICK

Nos.	625	640	660	680
Cap'c'ty, yds.	25	40	60	80
Pillar, in.	1	1 1/16	1 1/8	1 1/4
Diam., in.	1 1/2	1 1/2	1 3/4	1 3/4
W't dz., lbs.	1 1/2	1 9/16	1 5/8	1 7/8
Each	$0.70	.75	.80	.95

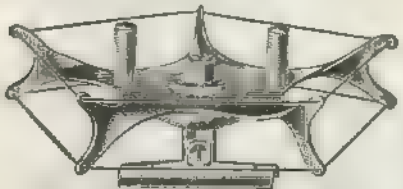


FEATHERLIGHT

Frame and reel seat of one piece, removable spool, back sliding double pointed click and steel spindle, nickel plated.

Nos.	3260	3280
Capacity, yds.	60	80
Spool, in.	2 3/4	2 3/4
W't, ozs.	4 1/2	4 3/4
Each	$3.30	3.90

ONE IN A BOX

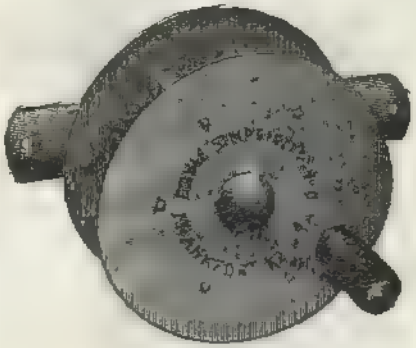


ADJUSTABLE SKELETON

Adjustable to line up with the first guide on any rod. Extremely light, wire guard eliminates back lash. Tobin bronze hub, runs on hardened steel, perfectly silent, no gears to grind or wear.

No. 71—Each $7.50

ONE IN A BOX



GAYLE SIMPLICITY

Fastens to Side of Rod

This is a free running casting reel that takes up the line as fast as a multiplier. Made of Cold Rolled Steel, and is heavily nickel plated. Diam. 2 1/2 in., length 3/4 in., holds 50 yards of line.

No. 0—W't each 3 oz., each $0.20

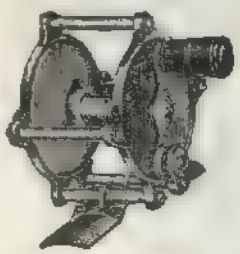
ONE DOZEN IN A BOX

GAYLE SIMPLICITY

Fits on Reel

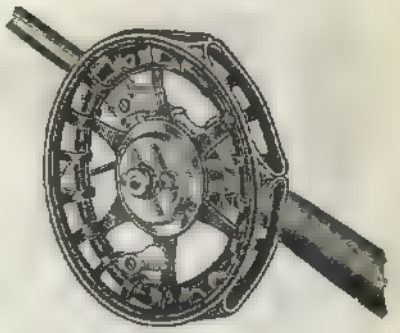
This is a good, strong, single action casting reel. Made of best cold rolled steel, heavily nickel plated and polished. Diameter 2 1/4 in., length 3/4 in., holds 50 yards of line.

ONE DOZEN IN A BOX



Flush balanced handle, raised pillar, with back sliding click.

Nos.	040	060	080
Pillar, in.	1	1	1
Disc, in.	2	2 1/4	2 3/4
Capacity, yds.	40	60	80
W't per doz., lbs.	1 1/2	1 1/2	1 7/8
Each	$1.70	1.80	1.90



WINONA

For Bait Casting

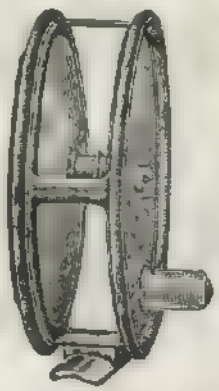
Light and yet very strong, will not bend or get out of true. Water, oil and heat proof, will never lose its glossy black finish. Hub made extra large, so that control of the Reel requires only a light touch. Ivoroid Handles of new design fit fingers perfectly. Click and drag on every reel.

Spool made of Redmanol moulded in one piece, a synthetic amber, strong and will never deteriorate, diam. 5 in., capacity 100 yards of 15-pound silk line, shaft of tool steel, white ivoroid handle, metal parts plated and polished, handles fish up to 30 lbs., w't each 6 oz.

No. 108—With line guard, each $11.60

No. 105—Without line guard, each $9.10

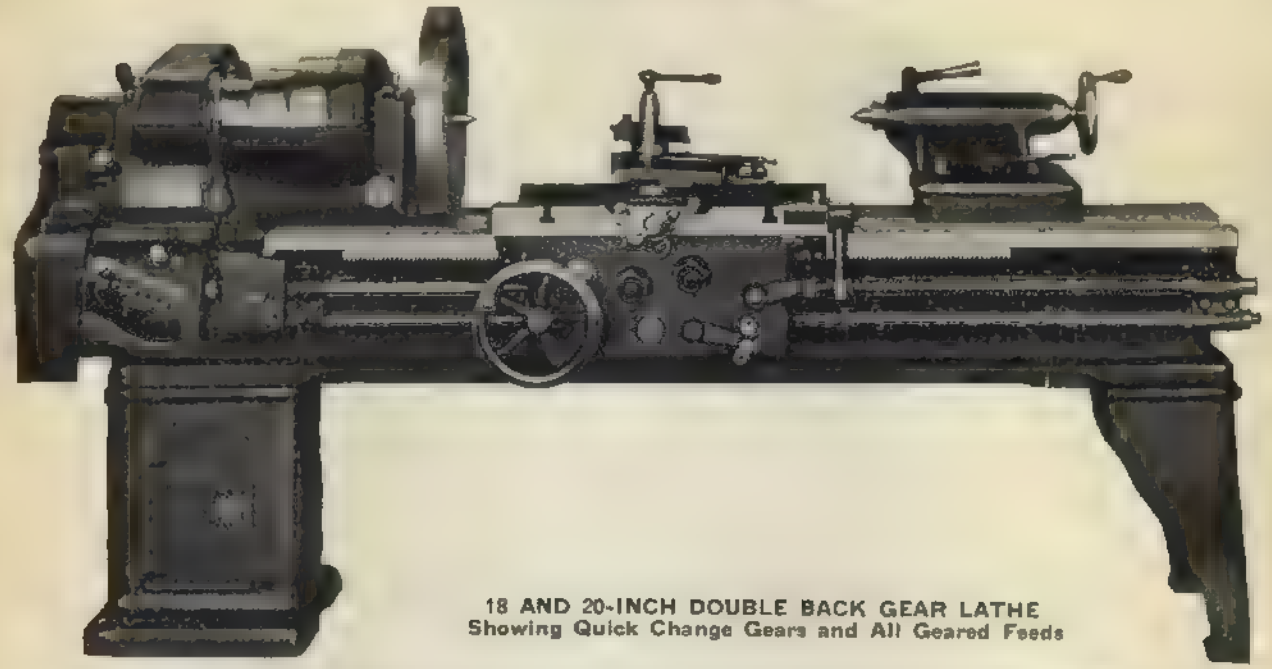
ONE IN A BOX



No. 3290—Meisselbach's Rainbow Reel Takapart with click. Capacity 60 yds., size 2 1/2 in., diameter 3/4 in. wide, exceptionally light, yet strong, made of alloy, more powerful for its size than any reel ever made. Frame and spool is furnished in dull black finish, with German silver trimmings. Ivoryoid handle, w't each 3 1/2 oz. $6.65

ONE DOZEN IN A BOX

MONARCH LATHES



18 AND 20-INCH DOUBLE BACK GEAR LATHE
Showing Quick Change Gears and All Geared Feeds

Head stock of solid full-webbed type, perfectly aligned; quick change gear box is simple in design and made of finest materials; thread and feed range sufficiently broad to cover all requirements, steel gears with fine pitch, coarse pitch, bronze bushed idler gears, made of high grade steel throughout. Head stock spindle made of 50-point carbon steel, large phosphor bronze spindle bearings, wide apart. Bed bolted with heavy webs and large box girders, massive tool stock. Compound rest can be set at all angles, bronze gears locked in position by means of cam operated spring plunger, double back gears are of positive gear drive. Compound rest is grooved to roughout, is very wide and has large bearing surfaces, and swivels. Cross feed dead screw is finely graduated. Tool block is one section and is adjustable to right or left. Carriage is "T" slotted front to rear, has 27-inch bearings on ways, cross bridge 7¼ inches wide, is double gibbed, provided with feed reverse and drop forged steel gears. Centralized reservoir supplies oil to all bearings, rack pinion disengages when screw cutting, back of carriage drilled and tapped to receive taper attachment if so ordered.

	Inches	Inches
Size lathe	18	20
Swing over shears	18⅝	20⅝
Swing over carriage	12	14
Hole through spindle	1 9/16	1 9/16
Front Spindle bearing	3x5	3x5
Back Spindle bearing	2¼x1¼	2¼x4¼
Diameter pulleys, 3-step cone	7 9/11	7 9/11
Width belt 3-step cone	3½	3½
Spindle nose, threads per inch	6	6
Diameter spindle nose	2¾	2¾
Width carriage bridge	7¼	7¼
Length carriage bearing on bed	27	27
Thread cutting range, semi-quick change	3 to 46	3 to 46
Thread cutting range, quick change	4 to 46	3 to 46
Compound rest travels	5	5
Friction pulleys	12x4	12x4
Speed of countershaft, R. P. M.	190	190
Diameter countershaft	2⅛	2⅛
Taper attachment turns all tapers per foot up to	6	3
Size of attachment	⅝x1¼	⅝x1¼

Centers are Morse taper No. 4.

Cross feed screw graduated to thousandths

All gears protected with gear guards

EQUIPMENT

Standard Equipment includes double friction countershaft, chasing dial, chasing stop, face plate, dog plate, center rest and necessary wrenches.

Furnished with any of the following attachments:

Semi-quick change gears
Instantaneous quick change gears.
Taper attachment
Cabinet legs
Draw-in chuck and all sizes of collets
Chuck plate flanges threaded to fit spindles
Thread chasing dial
Thread chasing stop
Automatic feed stop for feed rod
Reversing attachment
Turrets on carriage or shears.
Steel bed pan with oil well and oil proof reservoir
Raising blocks to increase swing.
Direct connected variable speed motor drive
Direct connected constant speed A. C. or D. C. motor drive through all geared headstock
Single pulley drive through all geared headstock.

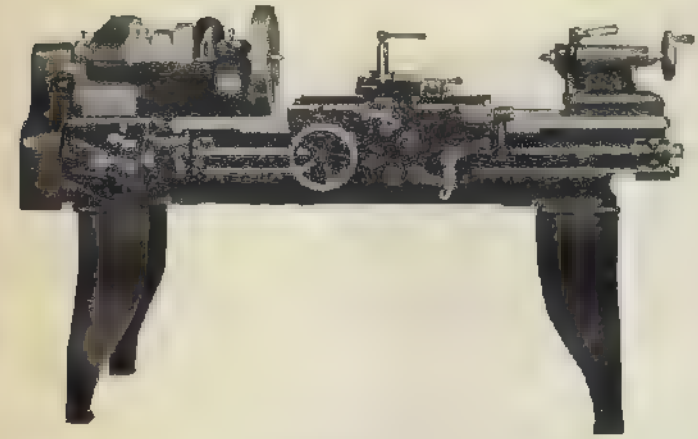
Prices quoted on application.

Threads actually cut on semi-quick change gear lathe—same as quick change gear lathe

Threads actually cut on quick change gear lathe—3, 3¼, 3½, 4, 4½, 5, 5½, 5¾, 6, 6½, 7, 8, 9, 10, 11, 11½, 12, 13, 14, 16, 18, 20, 22, 23, 24, 26, 28, 32, 36, 40, 44, 46. Feeds cover a range from 15 to 230

MONARCH LATHES

14-INCH DOUBLE BACK GEAR LATHE WITH QUICK CHANGE GEARS



Quick change gear box is simple in design and made of finest materials; thread and feed range are sufficient broad to cover all requirements; gears are wide faced; coarse pitch, bronze, bushed and run on vanadium steel shafts; spindle is 50-point carbon crucible steel; phosphor bronze bearings, bed is wide and deep with heavy walls and large box girders; massive tailstock; compound rest can be set at all angles; back gears locked in and out of position by spring plunger; double back gears are of positive gear type; compound rest is gibbed throughout, is wide and has large bearing surface, dial, swivel and cross feed dial are accurately graduated; steel tool post, milled from bar; back of carriage is drilled and tapped to receive taper attachment.

DIMENSIONS

	Inches	Inches
Size lathe	14	16
Swing over shears	14 1/2	16 1/4
Swing over carriage	9 1/2	11 3/4
Hole through spindle	1 5/8	1 5/8
Front spindle bearing	2 1/2 x 5	2 1/2 x 5
Back spindle bearing	2 1/8 x 4 5/16	2 1/8 x 4 5/16
Diameter pulley, 3-step cone	6, 7 1/2, 9	6, 7 1/2, 9
Width belt, 3-step cone	2 3/4	2 3/4
Spindle nose, threads per inch	8	8
Diameter spindle nose	2 1/4	2 1/4
Width carriage bridge	6	6
Length carriage bearing on bed	23	23
Takes between centers, 6-ft. bed	2 ft. 7 ins.	2 ft. 7 ins.
Compound rest travels	3 3/4	3 3/4
Friction pulleys	10x3	10x3
Speed of counter-shaft R. P. M.	200	200
Diameter tail spindle	1 3/4	1 3/4
Taper attachments turns all tapers per foot up to	3	3
Size of lathe tool	1/2 x 1	1/2 x 1
Centers are Morse taper No. 3		
Lgth. bed in multiples of 2 feet	6-14 ft.	6-14 ft.
Wgt. extra two feet of bed	200 lbs.	200 lbs.

Cross feed screw graduated to thousandths.
All gears protected with gear guards

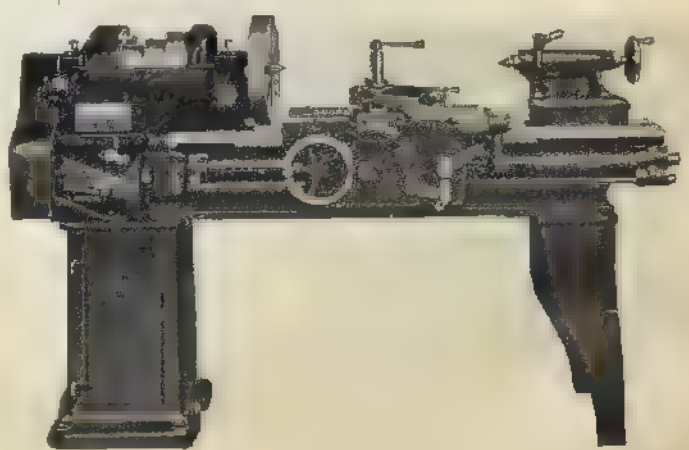
Furnished with any of the following attachments:

Semi-quick change gears.
Instantaneous quick change gears.
Taper attachment.
Cabinet legs.
Draw-in chuck and all sizes of collets
Chuck plate flanges threaded to fit spindles
Thread chasing dial
Thread chasing stop
Automatic feed stop for feed rod.
Turrets on carriage or shears.
Steel bed pan with or without oil pump or reservoir
Raising blocks to increase swing.
Direct connected variable speed motor drive.
Direct connected constant speed A.C. or D.C. motor drive through all geared headstock.
Single pulley drive through all geared headstock.

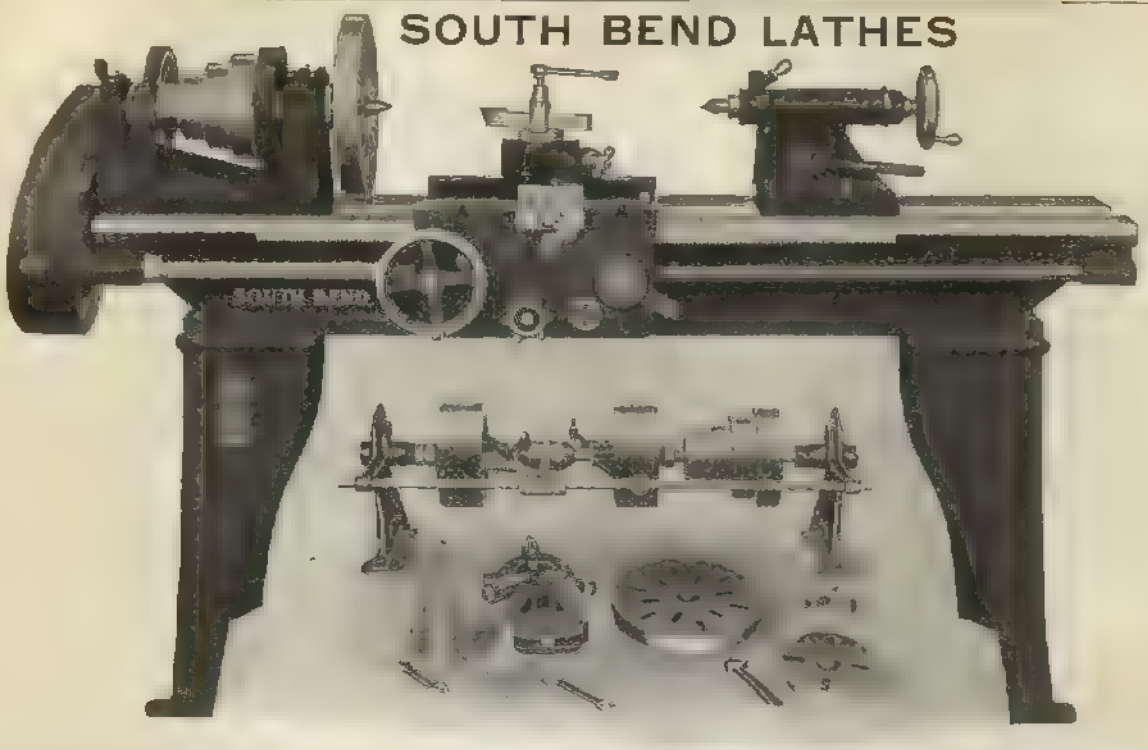
Prices quoted on application

16-INCH DOUBLE BACK GEAR LATHE WITH QUICK CHANGE GEARS

Similar in workmanship and construction to 14-inch size described above. Always furnished with plain leg under headstock unless cabinet leg is ordered.



SOUTH BEND LATHES



Nos. 25 and 27 lathes are light, but well constructed; adapted for use in garages and for speed lathes for light work in machine and repair shops; beds are extra wide, are deep and heavy, and thoroughly braced; have forged steel spindles running in bronze boxes; reverse on end of heads within easy reach of operator; tail stocks have set-over for turning tapers, carriage can be locked for using cross feed; indexed to cut standard threads from 4 to 40, including 11½ pipe thread.

No. 34 is a popular size lathe for garages, blacksmith and small machine shops; has power cross-feed and automatic longitudinal feed to carriage, four step cone; indexed to cut standard threads from 4 to 40 including 11½ pipe thread, and by compounding gears many other threads may be cut.

Nos. 40 and 45 are heavy and reliable lathes, designed to take severe cuts with high speed steel; have power cross-feed and automatic longitudinal feed; four-step cones for 2 inch belt; forged carbon steel spindle in heavy bronze box; indexed 4 to 40.

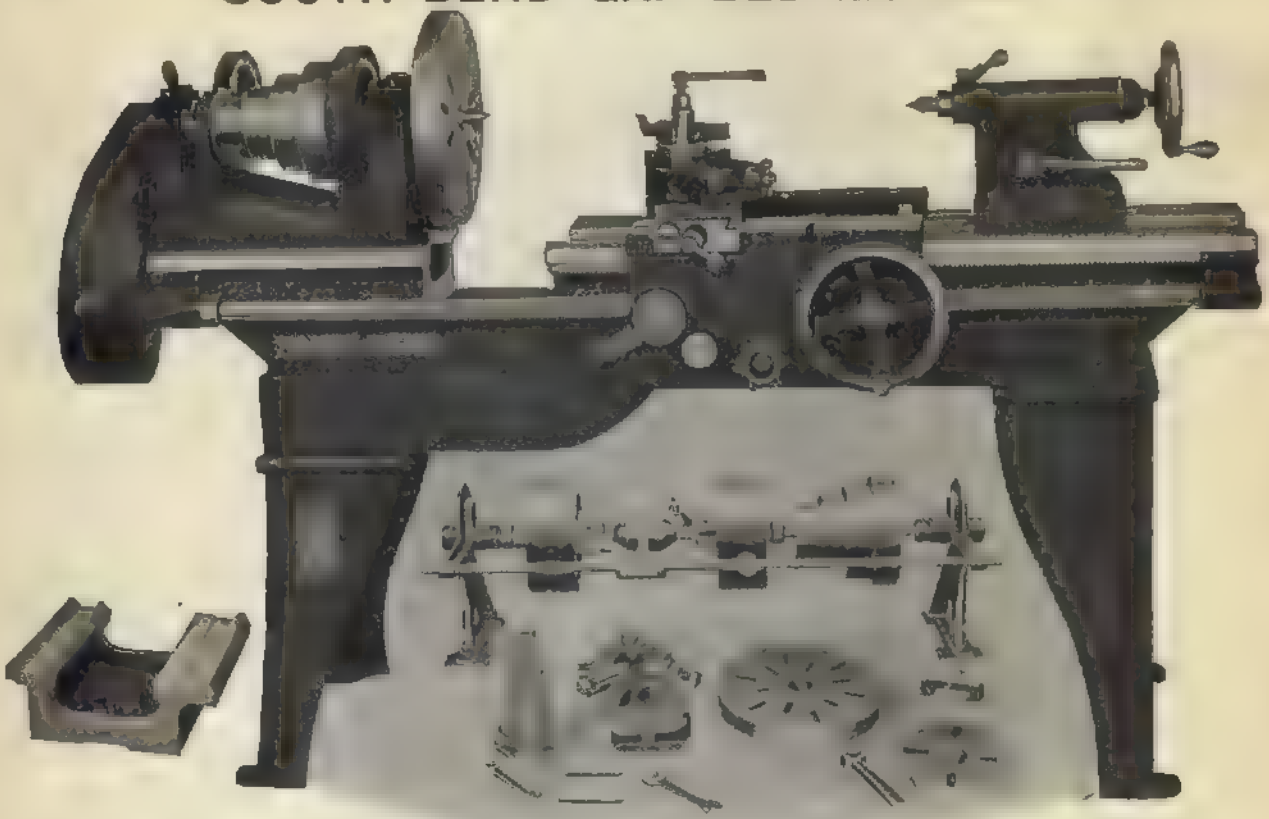
Prices Quoted on Application

No. of Lathe	Swing Over Bed	Length of Bed	Distance Between Centers	Swing Over Carriage	Hole Through Spindle	Diameter of Spindle Nose	Opening Tool Post Inches	Countershaft Speed	Approx. Weight on Skids
25 X	9¼ in.	2½ ft.	12 in.	6⅝ in.	⅝ in.	1¼ in.	⅜x⅝	290 R P M	440
25 Y	9¼ in.	3 ft.	18 in.	6⅝ in.	⅝ in.	1¼ in.	⅜x⅝	290 R.P.M	460
25 A	9¼ in.	4 ft.	30 in.	6⅝ in.	⅝ in.	1¼ in.	⅜x⅝	290 R.P.M	500
27 Y	11¼ in.	3 ft.	14 in.	7⅝ in.	⅝ in.	1½ in.	⅜x⅞	275 R P M	575
27 A	11¼ in.	4 ft.	26 in.	7⅝ in.	⅝ in.	1½ in.	⅜x⅞	275 R P M	625
27 B	11¼ in.	6 ft.	38 in.	7⅝ in.	⅝ in.	1½ in.	⅜x⅞	275 R P M	675
34 A	13¼ in.	4 ft.	18 in.	9 in.	⅝ in.	1¾ in.	½x1⅛	275 R P M	1000
34 B	13¼ in.	5 ft.	30 in.	9 in.	⅝ in.	1¾ in.	½x1⅛	275 R P M	1050
34 C	13¼ in.	6 ft.	42 in.	9 in.	⅝ in.	1¾ in.	½x1⅛	275 R P M	1100
34 D	13¼ in.	7 ft.	54 in.	9 in.	⅝ in.	1¾ in.	½x1⅛	275 R P M	1150
34 E	13¼ in.	8 ft.	66 in.	9 in.	⅝ in.	1¾ in.	½x1⅛	275 R P M.	1200
37 B	15¼ in.	5 ft.	27 in.	10⅝ in.	1⅜ in.	2¼ in.	⅝x1¼	250 R P M.	1400
37 C	15¼ in.	6 ft.	39 in.	10⅝ in.	1⅜ in.	2¼ in.	⅝x1¼	250 R.P.M.	1475
37 D	15¼ in.	7 ft.	51 in.	10⅝ in.	1⅜ in.	2¼ in.	⅝x1¼	250 R.P.M	1550
37 E	15¼ in.	8 ft.	63 in.	10⅝ in.	1⅜ in.	2¼ in.	⅝x1¼	250 R.P.M.	1625
37 G	15¼ in.	10 ft.	87 in.	10⅝ in.	1⅜ in.	2¼ in.	⅝x1¼	250 R.P.M.	1775

No. of Lathe	Swing over Bed	Length Bed	Distance Between Centers	Swing Over Carriage	Hole Through Spindle	Diameter of Spindle Nose	Taper in Spindle Morse	Opening Tool Post Inches	Countershaft Speed	Approx. Weight on Skids
40 C	16¼ in.	6 ft.	36 in.	11⅛ in.	1¾ in.	2⅝x8th	No. 3	⅝x1⅜ in.	225 R P M.	1700
40 D	16¼ in.	7 ft.	48 in.	11⅛ in.	1⅝ in.	2⅝x8th	No. 3	⅝x1⅜ in.	225 R P M.	1780
40 E	16¼ in.	8 ft.	60 in.	11⅛ in.	1⅝ in.	2⅝x8th	No. 3	⅝x1⅜ in.	225 R P M.	1860
40 G	16¼ in.	10 ft.	84 in.	11⅛ in.	1⅝ in.	2⅝x8th	No. 3	⅝x1⅜ in.	225 R P M.	2020
40 H	16¼ in.	12 ft.	108 in.	11⅛ in.	1⅝ in.	2⅝x8th	No. 3	⅝x1⅜ in.	225 R P M	2280
45 C	18¼ in.	6 ft.	31 in.	12⅝ in.	1¾ in.	2⅝x6th	No. 3	⅝x1¾ in.	200 R P M	2300
45 D	18¼ in.	7 ft.	43 in.	12⅝ in.	1⅝ in.	2⅝x6th	No. 3	⅝x1⅜ in.	200 R P M.	2400
45 E	18¼ in.	8 ft.	55 in.	12⅝ in.	1⅝ in.	2⅝x6th	No. 3	⅝x1⅜ in.	200 R P.M	2500
45 G	18¼ in.	10 ft.	79 in.	12⅝ in.	1⅝ in.	2⅝x6th	No. 3	⅝x1⅜ in.	200 R P.M	2700
45 H	18¼ in.	12 ft.	103 in.	12⅝ in.	1⅝ in.	2⅝x6th	No. 3	⅝x1⅜ in.	200 R P M	3000

F. O. B. South Bend, Ind. First class freight

SOUTH BEND GAP BED LATHES



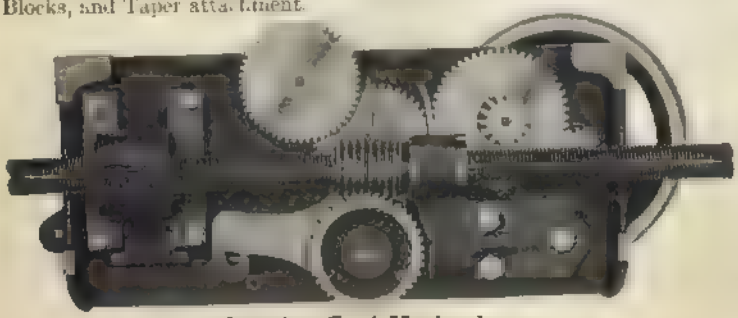
Sizes.—We can furnish the 11-inch 12-inch, 13-inch, 14-inch, 15-inch, 16-inch and 18-inch South Bend Lathes with gap bed when desired. For description and dimension of gap bed lathes see that of straight bed lathes, as the only difference between straight bed lathes and gap bed lathes is the bridge, and gap construction of bed, which requires more strength

Bridge is used to close up the gap so that the lathe may be used as a straight bed for ordinary work. When work of large diameter is to be machined, bridge may be removed from bed in a few moments, as it is accurately machined, scraped and fitted to gap, located by means of dowel pins and held in position by four substantial bolts. Bridge must be fitted in lathe at factory.

Equipment shown in illustration is included in price of lathe and consists of large and small face plates, graduated compound rest, two steel centers, center rest, change gears, adjustable stop for screw cutting, a set of feed gears, gear guards, necessary wrenches, double friction countershaft, and bridge. **Price of Gap and Bridge is extra over Straight Bed Lathes. Prices quoted on application**

No. of Gap Lathe	Swing Over Bed	Swing Over Gap	Width of Gap	Length of Beds	Extra Weight of Gap Beds
127	11¼ in.	15 in.	5 in.	3, 4, 5 ft.	80 lbs.
134	13¼ in.	19 in.	7 in.	5, 6, 7, 8 ft.	100 lbs.
137	15¼ in.	21 in.	8 in.	5, 6, 7, 8, 10 ft.	125 lbs.
140	16¼ in.	24 in.	9⅜ in.	6, 7, 8, 10, 12 ft.	140 lbs.
145	18¼ in.	25 in.	10 in.	6, 7, 8, 10, 12 ft.	170 lbs.

Extras. The gap bed lathe may be supplied at extra cost with Milling and Key-Way Cutting attachment, Raising Blocks, and Taper attachment.



Showing Feed Mechanism.

FEED MECHANISM

Showing positive mechanism of power cross feed and the automatic longitudinal feed.

Note that lead screw is splined. This lead screw passes through a worm which is also splined, driving this worm by means of a key. By this arrangement the power is transmitted to the apron of the carriage with full efficiency.

The thread of the lead screw is not used for the feed, but is reserved for cutting threads only. The splined worm drives both cross feed and automatic longitudinal feed.

Another improvement in this apron is that the power cross feed and the automatic longitudinal feed cannot both drop in at once.

THE TURNERVILLE TROLLEY

T3111 Sheet steel throughout; operated by spring, but no winding required, operated by pulling lever in house, driving car across bridge and back again; finished in bright enamels; length 60 ins., width 3¾ in., height 4¼ ins.; each in box. Each.....78

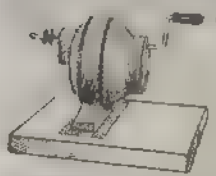
T3113—Same as T3111, but with railway station additional; each in box Each.....1.10

BOY SCOUT SPECIAL

T3112—Boy Scout Special, consisting of locomotive, tender and coach, with 80 inches track, mounted on boards in 3 sections, one 20 in., two 30 in. long with pin couplers for putting together; station, power plant, tunnel and bridge; finished in bright red, handsomely striped; length 80 ins., width 5½ ins., 6 in. high; each complete in carton. Each...1.85

MECHANICAL DYNAMOS AND ATTACHMENTS

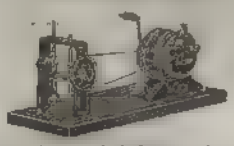
DYNAMOBILES



T3196 — Generates high power and speed; rate het principle construction; enameled metal frame, with pulley and on and off lever; on metal base 2½x3½ in., 2½ in. high; each in box. Dozen.....2.25

T3197—Same as T3196, larger; base 2¾x4½ ins.; 3¼ ins. high, each in box Dozen 8.75

COMBINATION SET

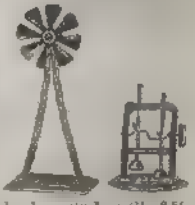


T3198—Assorted 2 kinds: dynamobile with trip hammer and sledge attachments; nicely finished and mounted on stained wood base 2¾x7 ins., 2⅝ ins. high; ⅓ dozen assorted in box. Dozen 3.95

T3199—Same as T3198, larger; base 4¾x10½ ins., 4¼ ins. high; 1/3 dozen assorted in box Dozen 6.50

ATTACHMENTS

T4196—Assorted 6 kinds, circular saws, grind stones, trip hammers, shafting, etc.; metal base, 2⅛x3½x1⅛ ins. high; bright colors, 1 dozen assorted in box. Doz. .88



T4197—Assorted 2 kinds, stamp mill and wind mill tower, with pulley drive wheels; mill 3¼x3¼x4 in high, wind mill 2⅝x3½x7½ ins. high; ½ dozen asst. in box Dozen 1.15

T4198—Assorted 4 kinds, grind stone, circular saw, buck saw, and stamp mill; all with jointed arm mechanisms; pulley drive wheel metal base, bright colors; average size 3½x4½x4½ ins. high; ½ dozen assorted in box. Doz 3.90

T4199 Assorted 2 kinds, lithographed metal mill with revolving water wheel, and trip hammer, with pulley drive wheels, size 4½x7x5 in. high; 1-3 doz asst in box Dozen 4.00

T4200 — Windmill; embossed cut out base, faceted; ladder to tower; crimped roof with flag, pulley drive wheel; nicely finished in colors; size 5x5x10 ins. high, each in box. Doz. 7.20

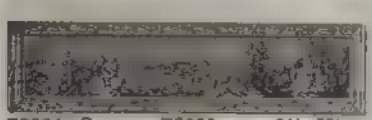
MAGIC LANTERN SLIDES

All pictures finished in bright colors, edges of slides paper bound assorted to the dozen

Individual Pictures

T3921—4 pictures to slide; size 1⅛x4¼ ins.; 1 dozen in box. Dozen 15

T3923—Same as T3921; size 2x7 ins.; 1 dozen in box Dozen 40



Continuous Pictures

T3922—Continuous picture; size 1⅝x6 ins.; 1 dozen in box. Dozen 25

T3924—Same as T3922 size 2¼x7⅝ ins.; 1 dozen in box. Dozen. 72

MOTION PICTURE MACHINES

Up to the minute, and embody new features not found in other machines, well built, handsomely finished, powerful lenses, and produce good, clear pictures.

COMBINATION FILM AND MAGIC LANTERN, OIL BURNING

T3908 — Russia steel body and smoke stack double telescope lens, automatic film tracker; side crank; special lens tube for obtaining proper focus on screen, polished reflector, metal fount with glass chimney, can also be used as a magic lantern, base 3½x5¾ ins.; 10½ in. high; each in box, complete with 3 films and 3 slides. Ea. 1.72

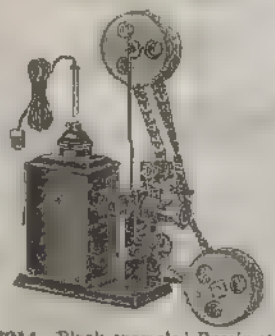
COMBINATION FILM AND MAGIC LANTERNS

ELECTRIC

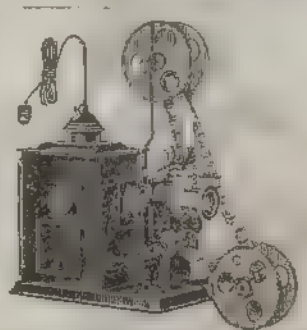
T3909 -Russia steel black enameled housing, hinged rear door; adjustable focus lens tube; double lens; adjustable film holder; automatic film tracker, side crank; complete with lamp socket, 6 ft. cord, connecting plug, 2 films and 3 lantern slides; size base 4x7½ ins., total height 11 ins.; each in box. Each 3.00

T3910— Black enameled Russia steel housing; hinged rear door; adjustable focus lens tube, with condensing lens adjustable film holder, automatic film tracker; flicker shutter; side crank; complete with lamp socket, 6 ft. film, plug, adjustable lamp attachment, 3 films and 6 lantern slides; size base 4x9 ins; total height 15 ins.; each in box. Each 4.25

T3913— Black enameled Russia steel housing; hinged rear door; adjustable focus lens and condensing lens, adjustable film holder with rewind; film tracker; flicker shutter; wire belt and pulleys; side crank; with lamp socket, 6 ft. cord, plug, adjustable lamp attachment, 3 films and 1 dozen lantern slides; size base 5x9 ins., 18 in. high; each in box Each.... 6.50



T3914—Black enameled Russia steel housing; hinged rear door; brass lens tube, thumb screw adjustment; adjustable film holder, with automatic rewind, coil spring belt and pulleys; automatic film tracker; flicker shutter, side crank; complete with lamp socket, 6 ft. cord, plug, adjustable lamp attachment, 4 films and 1 dozen lantern slides; size base 5¼x9 ins.; 20 in. high, each in box. Each 8.00



T3915—Black enameled Russia steel housing; cast iron base; hinged rear door; polished brass focusing lens, thumb screw adjustment, with powerful condensing lens; flicker shutter; special automatic film tracker which prevents film from tearing, special rewinder with coil spring belt and pulleys, adjustable film reel; side crank, complete with lamp socket, 6 ft. cord, plug, lamp adjustment attachment 3 films and 1 dozen lantern slides; size base 5½x10 ins., 18 in. high; each in box. Each.....13.00

T3916—Same as T3915, larger, base 6x11¾ ins., 20 in. high; complete with lamp attachments, 3 films and 1 dozen lantern slides each in box. Each.....16.50

ELECTRIC ATTACHMENT FOR LANTERNS

T3920 This attachment can be used on any lantern; consists of an adjustable cap which fits over the chimney hole, supporting a lamp socket so that by manipulating a thumb screw the lamp can be raised or lowered; complete with sockets and wire. Each .1.25

FILMS

standard gauge, 1⅜ in. wide, with real action, no two alike; each in can; assorted to the dozen

	Doz.	Each
T3902— 30 ft. long	4.25	40
T3903— 50 ft long	6.50	.60
T3904—100 ft long	12.00	1.10

IRON AND STEEL TOYS

All the more desirable models, and everyone a staple seller; new designs in auto fire engines and hook and ladder trucks. The assortments embrace all large snappy pieces, giving you a good variety for a small outlay.

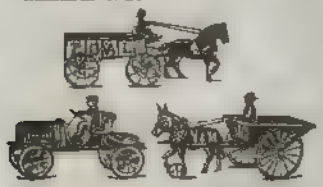
ASSORTMENTS

T3562—Assorted 3 kinds, sulky, cart and wagon; finished in aluminum; average size 3¾x1¾x2¾ in high; 1 dozen assorted in box
Dozen pieces . .79

T3561—Assorted 4 kinds, runabout, sulky, Ox-cart, and chariot, in blue, yellow, red and aluminum finishes, average size 5x2½x2½ ins.; 1 doz. asst. in pkge. Dozen pieces. .95

T3572—Assorted 3 kinds, Coal Wagon, express wagon and auto runabout, finished in aluminum, and red and yellow enamels; average size 6x2x3 ins. high; 1 dozen assorted in box. Dozen pieces..1.72

T3573—Assorted 3 kinds, sulky and driver, runabout, goat and cart; finished in aluminum, and yellow, black and green enamels, average size 8x3x3 ins. high; 1 dozen assorted in box.
Dozen pieces.....2.00



T3579—Assorted 3 kinds, coal wagon, dump cart and auto; all with drivers and finished in red, yellow, green and black enamels, average size 9½x3¼x4½ ins. high; ½ dozen assorted in box
Dozen 3.75

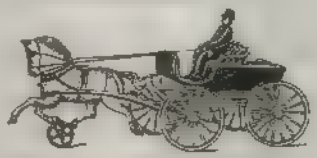
T3580—Assorted 3 kinds, dump wagon, ice wagon and coal wagon; 2 black horses, with drivers; finished in green, yellow, red and black enamels, gilt trim; average size 10½x3¼x4½ ins. high; ½ dozen assorted in box Doz 4.25

T3581—Assorted 4 kinds, coal wagon, ice wagon, stake wagon and dump wagon, finished in red, green, black and yellow enamels, gold trim; average size 12x3x5 in high; 1 dozen assorted in box
Dozen pieces.....6.50

SINGLE IRON TOYS

T3565—Aluminum finished two wheel cart with driver, red enameled wheels, length 4 ins., 1 dozen in box
Dozen .82

T3585—Dump wagon; finished in green, yellow wheels, negro driver and 2 black horses; gilt trim; side lever which drops and raises bottom of wagon; size 14x3¼x5¼ ins. high; each in box. Each.. .75



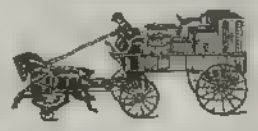
T3584—Surrey, blue enameled body, red wheels, white horse, gold bronze trimmings; driver holding lines; length 14 ins.; each in box. Each .85

T3588—Black enameled body, gilt striped and lettered; red wheels and gear; large white horse, gilt harness, with driver; length 14 in., width 3½ in., 6 in. high, each in box Each.....92

T3587—Transfer wagon; 3 and 4 in. wheels; one white one black horse; chain traces, and driver; finished in red and yellow, gilt trim; size 16x3¼x8 in high; each in box. Each.....1.32

Our assortments of iron toys give you an excellent variety of styles for a small investment, all nicely made and finished.

LOADED TRUCKS



T3586—Two horse transfer; body green enamel, yellow wheels; horses black gilt trimmings; filled with facsimile packages of groceries; length 14 in., width 3¼ in., height 6 in.; each in carton. Each..... .79

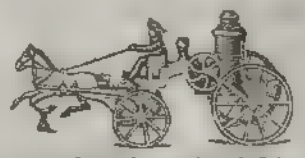
T3582—Two horse transfer; extra large black, gilt trim, galloping horses; body green enameled, yellow wheels; filled with groceries, length 20 in., width 4¼ in., height 8 in.; each in carton. Each. 1.65

HORSE AND AUTO FIRE ENGINES

T3591—One horse fire engine, finished in aluminum bronze; 1¼ in. wheels; length 5 ins; 1 dozen in box. Dozen..... .87

T3596—Three horse fire engine, engine finished red enamel, gilt decorated; 3 galloping horses, 2 black, 1 white; length 12 ins.; each in box. Dozen..... .72

T3596½—Three horse fire engine; large horses, 1 white, 2 black, gilt trim; boiler, black, gilt trim; yellow wheels; length 16 ins., width 4½ in., 5½ in. high; each in carton Each 1.15



T3592—Same, larger, length 8 ins.; 1 dozen in box. Dozen..... 2.10

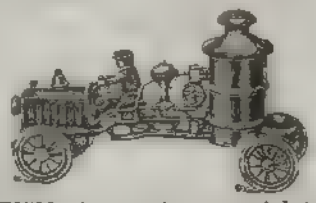
T3597—Auto engine, red enameled, yellow wheels, length 6½ ins. 1 dozen in box. Dozen . 2.15

T3594—Two horse fire engine; engine finished in black enamel, wheels, gear and horses in aluminum bronze; length 8½ ins.; ½ dozen in box. Dozen.....3.00

T3598—Auto engine; blue enameled, yellow wheels, gold trimmed; length 8¼ inches; ½ doz. in box
Dozen 4.00

T3595—2 black horses, finely enameled in black; yellow wheels and running gears; with driver; length 10½ ins.; ½ dozen in box.
Dozen 3.75

Our toy watches look like real time pieces and a nice profit can be made by handling our line.



T3599—Auto engine; enameled in bright yellow gold and red trimmed; length 11 ins.; each in box.
Each 79

METROPOLITAN AUTO FIRE ENGINE

A perfect reproduction of the big city engines in daily use.

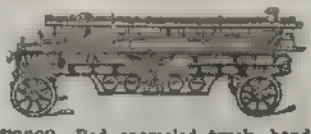
T3600—Extra large and fine auto fire engine; black boiler, red enameled chassis; gilt trimmed; imitation rubber tired, 3 inch wheels; driver and fireman; length 14 inches; each in box.
Each 1.35

HORSE AND AUTO HOOK AND LADDERS

T3601 — Aluminum finished truck; length 5 ins.; 1 dozen in box. Dozen ..... .87

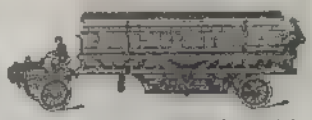
T3608—Red enameled, gilt striped truck, yellow wheels; 2 wood ladders; length 10 inches; one in box. Dozen..... 4.00

T3602—Red enameled wheels on aluminum finished horse and running gear; 2 6½-in. removable ladders; length 10 inches; 1 dozen in box. Dozen..... 3.10



T3609—Red enameled truck, handsomely gilt striped, yellow wheels, imitation rubber tires, 2 yellow ladders; driver, fireman and gong; length 15 ins.; each in box. Each 79

T3603—Red enameled truck, running gear and wheels; one black horse, 2 yellow enameled removable ladders; length 13 ins.; 1 doz in box. Dozen 2.25



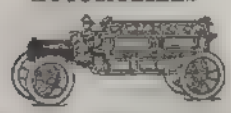
T3610—Extra large, finely modeled and an excellent reproduction of a Metropolitan hook and ladder; white enameled truck, gilt and red, white and blue striped; red enameled chassis; imitation rubber tires; fitted with fifth wheel, permitting quick turning; driver and fireman; nickeled gong bell; 3 red enameled 12 inch wood ladders; with buckets, etc.; length 23 inches; each in box. Each 1.85

T3605 Red enameled truck, 2 black horses, gilt trim; yellow wheels and gear; two 6½ in. yellow enameled ladders; with driver; length 13 ins.; 1/3 dozen in box Dozen 3.75

T3611—Blue enameled police patrol, with driver and 3 policemen, gilt trim; length 7⅝ in., 2½ in. wide, 4½ in. high; each in box. Dozen 4.25

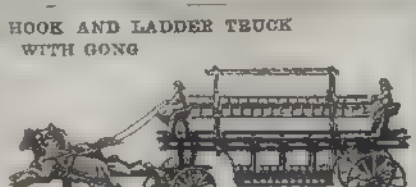
T3612—Same larger, and fitted with hose reel; length 10½ in., 3 in. wide, 6½ in. high; each in box Each 1.00

AUTOMOBILES



T3607—Blue enameled truck, gilt ladders, yellow wheels; length 8 ins.; ½ doz. in box. Dozen. 2.10

EXTRA FINE HOOK AND LADDER TRUCK WITH GONG



T3606—Hook and Ladder, painted blue, with [illegible] decorations and yellow wheels; 2 wooden ladders painted yellow; 3 galloping horses, 2 black and 1 white; driver and fireman with gong; length 17 ins. 1 in a box Each ..... .72

T3606½—Same, larger; body finished in bright red enamel, yellow wheels, imitation tires; 1 large white and 1 large black horse, driver and fireman; two 12 in. wood ladders; length 21 ins., width 3 ins., height 6 in.; with 1¾ in. nickeled gong; each in box Each.. ..... 1.15

RINGLING BROS CIRCUS

T3577—Assorted 4 kinds circus wagons, polar bear, lion, tiger and brown bear; 2 horses; beautifully finished in white, gray, blue and red, with gilt trimmings; average size 9x2¼x5¼ ins. high; 1/3 dozen in box Dozen. .. . 4.50

TOY SAD IRONS

Popular merchandise with the girls; larger sizes can be used for ironing big pieces; most numbers full nickel.

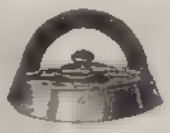
T3654—Copper finished iron and stand; iron 1¾ x 1 in.; 1 doz. in box Doz. .35

T3655 — Nickel plated, 1¼x2¾ in. face; bronze finished stand; 1 dozen in box. Dozen 70

T3659 — Bronze finished core; polished nickel face; turned black enameled wood handle; face 3⅛ x 1⅝ ins., with stand; 1 dozen in box Dozen 89

T3661 — Nickel plated hood; black enameled handle; claw holding clamp; polished face, 1⅛x3⅛ ins.; 1 dozen in box. Dozen 1.35

T3662 — Nickel plated hood; polished core; black mounted handle patent claw holding clamp; face 4x1⅞ ins. Dozen 2.15



T3666 — Petite pattern; full nickel plated, polished core; black enameled top; round hard wood handle, face 2½x4⅝ ins., with coppered stand; 1 dozen in box. Dozen 4.00

T3664 — Nickel plated hood with handle and lock, solid aluminized iron oval core, polished bottom, size core face 2½x4¾ inches, each wrapped ½ dozen in pkge. Dozen..... 4.35

ASBESTOS LINED

T3667 Full nickel plated polished core and hood, turned black enameled wood handle; patent spring snap lever grip, face 4¼x1⅞ ins.; each in box; ½ doz. in pkge. Dozen 4.25

Our nosy toy department contains all the old favorites and many new, attractive numbers; always good sellers

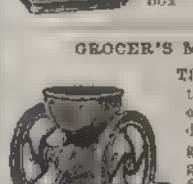
TOY COFFEE MILLS AND TELEPHONES

COFFEE MILLS

T3670— [illegible] ish;; well glued, with drawer; bright metal cup, ebony knob handle; size 2½x2½ in., 4 in. high; 1 [illegible] in box. Dozen .82

T3677 [illegible] ish, hard wood polished; with drawer, bright metal cup, ebony knob handle; size 3¼x3¼ in., 5⅝ in. high; 1 dozen in box Dozen... 1.75

GROCER'S MODEL



T3679 These little mills are an excellent reproduction of the grocer man's grinder and are finished in gold bronze; 2½ in. wheels; 4 ins. high; each in carton. Dz. 2.00

TELEPHONES

T3706— Nickeled metal 3¼ in base, and bell balance black enameled with cord; by moving receiver up and down, the bell rings continuously; height 8 ins.; ½ doz. in box. Dozen 8.50

T3702 — All metal enameled in red and blue; base 2½ in diameter; height 7 in.; 1 dozen in box Dozen.. 85

CONCEALED BELL

T3707 All metal [illegible] enameled [illegible] automatically [illegible] real telephone [illegible] nickeled [illegible] transmitter, 2½ [illegible] receiver, bell concealed in base; diameter 4 in., 9 in. high each in box Dozen 8.50

T3703 — All metal, black enameled nickeled bell and mouth piece; removable wood receiver. height 10 ins., 4½ in. wide; 1/3 dozen in box Doz .4.00

T3704-All wood, oak finished; two nickeled bells which ring when crank is turned; black mouthpiece and receiver; size 9x4¾ ins.; ½ dozen in box Dozen 4.25

TOY BANKS

IRON AND STEEL

All the best sellers; good merchandise always, and models that appeal to the youngsters; handsomely finished in nickel and bright colors.

T3723—Nickel [illegible] frame with [illegible] able [illegible] in back for [illegible] in [illegible], [illegible] 2 dozen in box. Dozen 35

T3720 — Cottage bank, allover gold bronze finished, height 3¼ [illegible] lazer in box. Dozen 82

T3716-Chest shape; full nickel plated and polished; with handle and key; size 2½x3½ in., 2 in. high; 1 dozen in box. Doz 95

T3719-Pail shape, full nickeled and polished; diam. top 2⅞ in., bottom 2¼ in., height 2¾ in.; 1 dozen in box. Doz 95

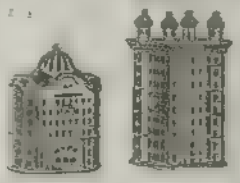
T3740—Bust of Roosevelt; excellent reproduction; gold bronze finished; height 5¼ in., 3½ in. wide; ½ dozen in box. Dozen 1.45

T3727— Finished green gold lettering 3⅝ in high 2⅜ inch wide, 1¾ in deep; ½ dozen in box. Doz 1.68

T3749 [illegible] light blue with red [illegible] stacks; 7⅜ in. long, 1⅝ in wide, 2⅜ in high. [illegible] box. Dozen 1.90

ASSORTED BANKS

T3730—Assorted 3 kinds, Jockey, Aunt Jemima and Policeman, metal ornamental [illegible] in gold, average height [illegible], 1 dozen in box. Dozen 2.00



T3721—Assorted 2 styles, house banks finished in silver and bronze with gold bronze roofs, average height 3⅜ inches; 1 dozen assorted in box. Dozen 2.15

T3743—Assorted 3 kinds, performing elephant, lion, horse, [illegible] bright [illegible], [illegible] height 5½ ins., 1 dozen [illegible] in box. Dozen 2.40

T3742—Assorted horse, elephant and lion; gilt finish; 1½ in. red wheels, finely modeled; size 2¼x4½x5 in. high; ½ dozen asst in box. Dozen 2.15

TELEPHONE BANKS WITH KEY

T3747- Back enameled stamped sheet steel, regular wall phone model, lock in back with key, removable wood receiver, size 3x6½ [illegible] 2 in deep; 1 doz in box. Dozen 1.10

T3748—Excellent reproduction of telephone, stamped sheet steel, enameled black, nickeled bell, drop coin in slot and by turning crank bell will ring, size 3x3½x2¼ in. ½ dozen in box. Dozen 2.15

KICK INN TOY SAVINGS BANK

T3752—Two story wood house bank with extension porch; cut out mechanical donkey; coin is placed on porch, and when spring is released donkey kicks coin into bank; with key lock; size 4x9½x6¾ ins high; each in carton. Dozen. ... 7.20

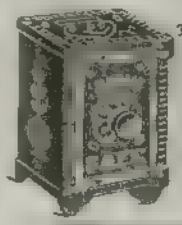
COMBINATION BANKS

Heavy cast metal frames, sheet steel sides, nicely finished and nickeled

T3783—Cast metal frame, steel sides and back, nickel plate finish, with key to combination, 2½x3 in. 3½ in. high, 1 [illegible] 1.85

T3784—Cast metal frame, steel sides and back, nickel plate finish with key to combination, 2¾x2⅞ in. high, ½ dozen in box. Dozen 2.25

T3786 — Cast metal frame, steel sides; with key to combination; nickel plated finish; 3½x3¼ in., 4¼ inches high; ½ dozen [illegible] 3.65



T3787 — Cast metal frame, steel sides, nickel finish with key to combination; 3¾ x 3¾ ins., 5 ins high ½ dozen in box. Dozen 4.00

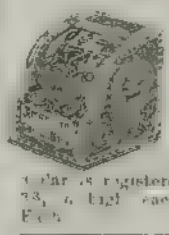
T3788 — Cast metal frame, steel sides, nickel finish with key to combination; 4¾ x 4¼ in. 5½ in high, 1 dozen in box. Dozen 6.50

T3789 - Extra fine; all cast, nickeled and polished, handsomely ornamented; 4½ x 4¼ in.; 5½ in. high; with key to combination, each in box. Each. 72

REGISTER BANKS

Sheet Steel Cases, handsomely lithographed. When lever is pressed, amount is automatically registered. Registers up to $10, then opens automatically.

AMERICAN PENNY



T3767 — Penny register bank, lithographed metal in fancy etched scroll designs in bright colors on gilt; opens automatically when correct amount is registered, size 3¼x3¼x3¾, high, each in carton. Each ..... .75

AMERICAN DIME

T3769 — Dime register Bank; gilt finished, ornamented in fancy etched scroll and bright colors; opens automatically when ten dollars has been registered; each in carton. Each 75

COMMONWEALTH 3 COIN

T3771 — Three-coin; fancy shape case, floral and scroll lithographed on pale green [illegible] gold trimmed, registers nickels, dimes and quarters; size, 5½x4x5 in. high. Each 1.20

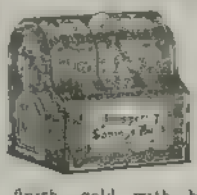
PROVIDENT 4 COIN

T3772 —Four-coin; rounded top; lithographed in brown and gold; registers and adds pennies, nickels, dimes and quarters; size 4¾x4¼x5 in. [illegible] Each 1.65

THRIFT 3 COIN

T3777—Three coin registers nickels, dimes and quarters, gilt finished beautifully lithographed in scroll design, enamel inlaid effect in bright colors, [illegible] 4x5¼x6 ins. high Each 3.00

PROSPERITY 4 COIN



T3778—Four coin bank, registering pennies, nickels, dimes and quarters, [illegible] finish, gold with beautiful color combinations, attractive pattern, size 4¾x4¾ in. 5 in high, each in box Each 2.00

HOME 5 COIN

T3774 — Five coin; case lithographed in oxidized copper effect, artistically trimmed in gold registers pennies, nickels, dimes, quarters and halves; size, 4¾x7x6¾ in. [illegible] Each 2.40

TOY BANKS SELL

Toy banks are wonderfully big sellers; note specially our novelty bank assortments, models that will appeal to the youngsters, and the automatic register banks.

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Nos.		List	Each
17108	**A Dream**—Tenor with Orchestra—Charles Harrison GOOD NIGHT LITTLE GIRL GOOD NIGHT—Tenor with Orchestra—Charles Harrison	$1 00	1 80
15116	**Ain't We Got Fun**—Fox Trot—Earl Fuller's New York Orchestra JUST BECAUSE—Fox Trot—Earl Fuller's New York Orchestra	85	1 53
14108	**A Little Home With You**—Baritone with Orchestra—Elliot Shaw ORANGE BLOSSOMS—Tenor and Baritone—Chas. Hart and Elliot Shaw	85	1 53
15120	**All By Myself**—Fox Trot—Bennie Krueger's Orchestra WHY DEAR—Fox Trot—Bennie Krueger's Orchestra	85	1 53
14104	**Anna in Indiana**—Comedienne with Orchestra—Aileen Stanley PUCKER UP AND WHISTLE—Comedienne with Orchestra—Aileen Stanley	85	1 53
15103	**April Showers**—Fox Trot—By Van Eps Quartette MOON BEAMS—Fox Trot—By Van Eps Quartette	85	1 53
15105	**Arabia**—One Step—Green Brothers Novelty Band LEARNING—Fox Trot—Green Brothers Novelty Band	85	1 53
17103	**At Dawning**—Tenor with Orchestra—Charles Harrison MACUSHLA—Tenor with Orchestra—Charles Harrison	85	1 53
17107	**Ave Maria**—Soprano—Gloria Perles—Violin Obligato—Michel Guskoff KISS ME AGAIN—Soprano—Gloria Perles—Violin Obligato—Michel Guskoff	1 00	1 80
17109	**Believe Me, If All Those Endearing Young Charms**—Contralto—Marguerite Wilson WHEN YOU AND I WERE YOUNG MAGGIE—Baritone—Howard Shelly with Orchestra	1 00	1 80
18109	**BIRDS IMITATIONS**—Whistling Solo—Margart McKee THE BIRDS AND THE BROOK—Whistling Solo—Margart McKee	85	1 53
15121	**Canadian Capers**—Fox Trot—Irving Weiss and his Ritz Carlton Orchestra GYPSY BUTTS—Fox Trot—Irving Weiss and his Ritz Carlton Orchestra	85	1 53
18103	**Canzonetta**—Violin Solo By Helen Lee—Piano forte by Charles Howard SOUVENIER—Violin Solo By Helen Lee—Pianoforte by Charles Howard	85	1 53
19102	**Carmen**—Habanera—Contra to—Henerita Wakefield	1 25	2 25
14105	**Carolina Lullaby**—Stellar Quartette with Orchestra MADELINE—Stellar Quartette with Orchestra	85	1 53
14110	**Change Your Name, Malinda Lee**—Earnest Hare and Albert Bernard IN YOUR EYES—For singing and dancing—Earnest Hare with Orchestra	85	1 53
15110	**Cherie**—Fox Trot—Waldorf Astoria Orchestra SMUGGLE—Fox Trot—Van Eps Quartette	85	1 53
15112	**Cherry Blossoms**—Fox Trot—Lanins' Roseland Orchestra POOR ME—Fox Trot—Sewanee Melodists	85	1 53
18103	**Ciribiribin**—Waikiki Orchestra—Louise and Ferera La Paloma—Waikiki—Orchestra—Louise and Ferera	85	1 53
17106	**Clang of the Forge**—Baritone with Orchestra—Howard Shelly THREE FOR JACK—Baritone with Orchestra—Howard Shelly	85	1 53
18113	**Cocoanut Dance**—Banjo Solo—Fred Van Eps—Orchestra accompaniment SOUTHERN DIXIE MELODY—Banjo Solo—Fred Van Eps—Orchestra accompaniment	85	1 5
17104	**Danny Deever**—Baritone with Orchestra—Percy Hemus DRINK TO ME ONLY WITH THINE EYES—Baritone—Percy Hemus	1 00	1 80
18107	**Colores Waltz**—Accordion Duet—Santini Brothers NEAPOLITIAN—Accordion Duet—Santini Brothers	85	1 53
15117	**Daddy, Your Mammy is Lonesome for You**—Bennie Krueger's Orchestra OPEN ARMS—Merry Melody Men	85	1 53
15122	**Dixie**—One Step—Fred Van Eps—Orchestra accompaniment SAU—Oriental Fox Trot—Lindsay McPhail	85	1 53
17110	**Down in Happy Valley**—Tenor and Baritone—Charles Hart and Elliot Shaw JUST THAT ONE HOUR—Tenor with Orchestra—Charles Hart	1 00	1 80
16106	**Dreaming Alabama**—Hawaiian Orchestra SHADOW WALTZ—Honolulu Hawaiian Orchestra	1 00	1 80
16102	**Drifting**—Waltz—Hawaiian Instrumental Duet MALANAI ANU KA MAKANI—Hawaiian Melody—Hawaiian Guitars	85	1 53
17104	**Drink to me Only with Thine Eyes**—Baritone with Orchestra—Percy Hemus DANNY DEEVER—Baritone with Orchestra—Percy Hemus	1 00	1 80
19104	**Evening Star**—Baritone with Orchestra—Percy Hemus	1 25	2 25
20101	**Flee as a Bird**—Baritone with Orchestra—Victor Churchill JESUS I COME—Baritone and Tenor—George Craig and Charles Knapp	85	1 53
15124	**Figars**—One Step—Irving Weiss and his Ritz Carlton Orchestra SWEET LADY—Fox Trot—Irving Weiss and his Ritz Carlton Orchestra	85	1 53
19105	**Flower Song**—From Faust—Contralto—Henrietta Wakefield, with Orchestra	1 25	2 25
17111	**For Ever And For Ever**—Baritone with Orchestra—Percy Hemus VENETIAN SONG—Baritone with Orchestra—Percy Hemus	1 00	1 80

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Nos.		List	Each
17102	**Forgotten**—Baritone with Orchestra—Percy Hemus SOMEWHERE A VOICE IS CALLING—Baritone with Orchestra—Percy Hemus	$1 00	1 80
17108	**Good Night, Little Girl, Good Night** Tenor with Orchestra—Charles Harrison A DREAM—Tenor with Orchestra—Charles Harrison	1 00	1 80
15121	**Gypsy Blues** Fox Trot,—Irving Weiss and his Ritz Carlton Orchestra CANADIAN CASPER Fox Trot Irving Weiss and his Ritz Carlton Orchestra	85	1 53
18101	**Happy Days**—Philharmonic Trio—Landau—Wagner and Schuetz THE SWEETEST STORY EVER TOLD Philharmonic Trio—Landau—Wagner and Schuetz	85	1 53
15108	**Hawaiian Blues**—Fox Trot—Rudy Wiedoeft's Orchestra YOU OUGHT TO SEE MY BABY—Fox Trot—Palace Trio Orchestra	85	1 53
16104	**Hawaiian Lullaby** Honolulu Hawaiian Orchestra. KAWAHA Hawaiian Guitars	85	1 53
16101	**Hawaiian Twilight** Hawaiian Singing Guitars NAUGHTY WALTZ—Waltz—Hawaiian Singing Guitars	85	1 53
19103	**Heart Bow'd Down**—Baritone with Orchestra Percy Hemus	1 25	2 25
14101	**Held Fast In a Baby's Hand**—Tenor with Orchestra—Hugh Donovan OVER THE HILL—Tenor with Orchestra—Hugh Donovan	85	1 53
14103	**Henry Jones Your Honey Moon Is Over**—Al Bernard and Earnest Hare I AIN'T AFRAID OF ANYTHING DAT'S ALIVE—Al Bernard—Comedian with Orchestra	85	1 53
14109	**Honey Rose**—Comedienne with Orchestra—Aileen Stanley MIMI—Comedienne with Orchestra—Aileen Stanley	85	1 53
18106	**Humoresque**—Violin Solo by Michel Gusikoff, Pianoforte by Emanuel Balabau VALSE BLUETTE—Violin Solo by Michel Gusikoff, Pianoforte by Emanuel Balaban	1 00	1 80
14108	**I am Falling in Love with the Girl of my Dreams** Tenor with Sam Ash JUST A KISS FROM YOU—Tenor with Orchestra—Sam Ash	85	1 53
14103	**I Ain't Afraid of Anything Dat's Alive**—Commedian with Orchestra—Al Bernard HENRY JONES YOUR HONEYMOON IS OVER Al Bernard and Earnest Hare	85	1 53
15102	**I Found A Rose In the Devil's Garden**—Fox Trot—Merry Melody Band. NA—JO Fox Trot Rudy Weidoeft's Californians	85	1 53
14111	**I'm Looking for a Blue Bird to Chase My Blues Away** Al Bernard with Orchestra IN A LITTLE FRONT PARLOR (ON AN OLD BACK STREET) Al Bernard with Orchestra	85	1 53
14106	**I'm Nobody's Baby**—Baritone with Orchestra—Arthur Fields PEGGY O'NEIL Baritone with Orchestra Arthur Fields	85	1 53
15107	**In a Boat (For Two)** Fox Trot—Lanin's Roseland Orchestra LUCKY DOG Fox Trot Lanin's Roseland Orchestra	85	1 53
14111	**In a Little Front Parlor On an Old Back Street** Al Bernard with Orchestra I'M LOOKINM FOR A BLUE BIRD TO CHASE MY BLUES AWAY—Al Bernard with Orchestra	85	1 53
14114	**In The Old Town Hall** Tenor with Orchestra Billy Jones TUCK ME TO SLEEP—Tenor with Orchestra—Billy Jones	85	1 53
14110	**In Your Eyes**—For Singing, Dancing—Earnest Hare with Orchestra CHANGE YOUR NAME Malinda Lee—Earnest Hare and Al Bernard	85	1 53
15104	**Jabberwocky**—Fox Trot—Rudy Weidoeft's Californians MELLO CELLO Waltz—Lanin's Roseland Orchestra	85	1 53
15118	**Jane**—Fox Trot—Lanin's Roseland Orchestra MELODY IN "F"—One Step—Earl Fuller's New York Orchestra	85	1 53
20101	**Jesus I Come**—Baritone and Tenor—George Craig and Charles Knapp FLEE AS A BIRD Baritone with Orchestra—Victor Churchill	85	1 53
14107	**Just a Kiss from You** Tenor with Orchestra Sam Ash I AM FALLING IN LOVE WITH THE GIRL OF MY DREAMS Tenor Sam Ash	85	1 53
15116	**Just Because**—Fox Trot—Earl Fullers New York Orchestra AIN'T WE GOT FUN—Fox Trot—Earl Fullers New York Orchestra	85	1 53
17110	**Just That One Hour** Tenor with Orchestra—Charles Hart DOWN IN THAT HAPPY VALLEY Tenor and Baritone Charles Hart and Elliott Shaw	1 00	1 80
16104	**Kawaha**—Hawaiian Guitars HAWAIIAN LULLABY—Honolulu Hawaiian Orchestra	85	1 53
15114	**Kaharmine**—Fox Trot Merry Melody Men SATURDAY Fox Trot—Lanin's Roseland Orchestra	85	1 53
17107	**Kiss Me Again** Soprano—Gloria Perles—Violin Obligato—Michel Gusikoff AVE MARIA—Soprano—Gloria Perles—Violin Obligato—Michel Gusikoff	1 00	1 80
18112	**Kitten On The Keys**—Piano Classic—Lindsay McPhail VALSE CLASSIQUE Xylophone Solo, Geo. H. Green Orchestra accompaniament	85	1 53
16103	**La Palma**—Waikiki Orchestra Louise and Ferera CIRIBIRIBIU—Waikiki Orchestra—Louise and Ferera	85	1 53
20102	**Lead Kindly Light**—Baritone with Orchestra—Elliott Shaw THE HOLY CITY—Tenor with Orchestra—Charles Hart	85	1 53

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Nos.		List	Each
15119	**Learn to Smile**—Fox Trot—Bennie Krueger's Orchestra TI-O-SAN—Fox Trot—Bennie Krueger's Orchestra	$0 85	1 53
15105	**Learning** Fox Trot—Green Brothers Novelty Band ARABIA—One Step—Green brothers Novelty Band	85	1 53
17101	**Little Mother O'Mine**—Baritone with Orchestra—Greek Evans ON THE ROAD TO MANDALAY—Baritone with Orchestra	1 00	1 80
15107	**Lucky Dog**—Fox Trot—Lanin's Roseland Orchestra IN A BOAT (FOR TWO) Fox Trot—Lanin's Roseland Orchestra	85	1 53
14113	**Ma**—Aileen Stanley with Piano accompaniment MANDY 'N' ME—Aileen Stanley with Piano accompaniment	85	1 53
17103	**Macushla**—Tenor with Orchestra—Charles Harrison AT DAWNING—Tenor with Orchestra—Charles Harrison	85	1 53
14105	**Madeline**—Stellar Quartette with Orchestra CAROLINA LULLABY Stellar Quartette with Orchestra	85	1 53
16102	**Malanai Anu Ka Makani** Hawaiian Melody -Hawaiian Guitars DRIFTING -Waltz—Hawaiian Instrumental Duet	85	1 53
14113	**Mandy 'N' Me**—Aileen Stanley with Piano accompaniment MA -Aileen Stanley with Piano accompaniment	85	1 53
18110	**Medley of Country Jigs**—Violin Solo—Michal Donovan MEDLEY OF COUNTRY REELS Violin Solo Michal Donovan	85	1 53
18110	**Medley of Country Reels**—Violin Solo Michal Donovan MEDLEY OF COUNTRY JIGS—Violin Solo -Michal Donovan	85	1 53
15104	**Mello Cello**—Waltz—Lanin's Roseland Orchestra JABBERWOCKY—Fox Trot—Rudy Wiedoeft's Californians	85	1 53
18104	**Melody in "F"**—Cello Solo—Bernard Altschuler SOUS LA FEUILLES—Cello Solo—Bernard Altschuler	85	1 53
15118	**Melody in "F"**—One Step—Earl Fuller's New York Orchestra JANE—Fox Trot—Lanin's Roseland Orchestra	85	1 53
17105	**Mighty Lak' A Rose**—Mezzo Soprano—Jane Bartlett THE ROSERY Mezzo Soprano with Orchestra -Jane Bartlett	1 00	1 80
14109	**MiMi** Comedienne with Orchestra Aileen Stanley HONEY ROSE—Comedienne with Orchestra—Aileen Stanley	85	1 53
15103	**Moonbeams**—Fox Trot—Van Eps Quartette APRIL SHOWERS By Van Eps Quartette	85	1 53
18105	**Mocking Bird**—Whistling Solo—Orchestra Accompaniment SONG BIRD—Whistling Solo—Orchestra Accompaniment	85	1 53
18111	**Moment Musical (2) Minute Waltz** -Piano Solo—Emanuel Bamban	1 00	1 80
18102	**My Maryland** March -Olympic Military Band NATIONAL EMBLEM—March—Olympic Military Band	85	1 53
15102	**Na—Jo**—Fox Trot Rudy Wiedoeft's Californians I FOUND A ROSE IN THE DEVIL'S GARDEN Fox Trot Merry Melody Men	85	1 53
18102	**National Emblem March**—Olympic Military Band MY MARYLAND—March—Olympic Military Band	85	1 53
16101	**Naughty Waltz**—Waltz—Hawaiian Singing Guitars HAWAIAN TWILIGHT—Hawaiian Singing Guitars	85	1 53
18107	**Neapolitan Medley** Accordion Duet Santini Brothers DOLORES WALTZ—Accordion Duet—Santini Brothers	85	1 53
21101	**No News; Or What Killed the Dog** Comic Monologue THE THREE TREES—Descriptive Story by Victor Fletcher	85	1 53
15123	**Oh! Joy**—Fox Trot Irving Weiss and his Ritz Carlton Orchestra ZOWIE—Fox Trot—McPhail's Jazz Orchestra from Chicago	85	1 53
15111	**Oh! Me, Oh! My, Oh! You** Fox Trot—Waldorf-Astoria Dance Orchestra PAPER DOLL—Fox Trot—Waldorf-Astoria Dance Orchestra	85	1 53
17101	**On The Road To Mandalay**—Baritone with Orchestra—Greek Evans LITTLE MOTHER O'MINE—Baritone with Orchestra—Greek Evans	1 00	1 80
16105	**One, Two, Three, Four** Honolulu Hawaiian Orchestra Pansy Faces—Honolulu Hawaiian Orchestra	85	1 53
15117	**Open Arms**—Fox Trot—Merry Melody Men DADDY, YOUR MAMMY IS LONESOME FOR YOU Fox Trot- Bennie Krueger's Orchestra	85	1 53
14108	**Orange Blossoms**—Tenor and Baritone with Orchestra—Elliott Shaw A LITTLE HOME WITH YOU Baritone with Orchestra Elliott Shaw	85	1 53
14101	**Over The Hill** -Tenor with Orchestra—Hugh Donovan HELD FAST IN A BABY HAND Tenor with Orchestra Hugh Donovan	85	1 53
19101	**Pagliacci** -Prologo—Baritone with Orchestra—Greek Evans	1 25	2 25

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15111	**Paper Doll**—Fox Trot—Waldorf-Astoria Dance Orchestra OH! ME, OH! MY, OH! YOU—Fox Trot—Waldorf-Astoria Dance Orchestra	$0 85	1 53
16105	**Pansy Faces**—Honolulu Hawaiian Orchestra One, Two, Three, Four—Honolulu Hawaiian Orchestra	85	1 53
14106	**Peggy O'Neil**—Baritone with Orchestra—Arthur Fields I'M NOBODY'S BABY—Baritone with Orchestra—Arthur Fields	85	1 53
15112	**Poor Me**—Fox Trot—Sewanee Melodists CHERRY BLOSSOMS—Fox Trot—Lanin's Roseland Orchestra	85	1 53
18108	**Prelude in C Sharp Minor**—Piano Solo by Emanuel Balaban	1 00	1 80
14104	**Pucker up and Whistle**—Comedienne with Orchestra Aileen Stanley ANNA IN INDIANA—Comedienne with Orchestra—Aileen Stanley	85	1 53
15122	**Sau**—Oriental Fox Trot—Lindsay McPhail DIXIE One Step—Fred Van Eps Orchestra accompaniment	85	1 53
15114	**Saturday** Fox Trot Lanin's Roseland Orchestra KAHARMINE Fox Trot Merry Melody Men	85	1 53
16106	**Shaddow Waltz**—Honolulu Hawaiian Orchestra DREAMY ALABAMA—Hawaiian Orchestra	85	1 53
14112	**Ship O'Dreams**—Tenor with Orchestra—Charles Hart THERE'S ONLY ONE PAL AFTER ALL—Tenor with Orchestra Charles Hart	85	1 53
15106	**Some Little Bird**—Fox Trot—Bennie Krueger's Orchestra WANG WANG BLUES—Fox Trot—Bennie Krueger's Orchestra	85	1 53
15109	**Some One Else** Fox Trot—Bennie Krueger's Orchestra YAN—KEE—Fox Trot—Green Brothers' Orchestra	85	1 53
17102	**Somewhere a Voice is Calling**—Baritone with Orchestra—Percy Hemus FORGOTTEN—Baritone with Orchestra—Percy Hemus	1 00	1 80
18105	**Song Bird**—Whistling Solo—Orchestra Accompaniment MOCKING BIRD—Whistling Solo—Orchestra Accompaniment	85	1 53
18113	**Southern Dixie Melody**—Banjo Solo—Fred Van Eps Orchestra COCOANUT DANCE—Banjo Solo Fred Van Eps Orchestra	85	1 53
18103	**Souvenir**—Violin Solo by Helen Lee—Pianoforte by Charles Howard CANZONETTA—Violin Solo by Helen Lee—Pianoforte by Charles Howard	85	1 53
15101	**Spread Yo' Stuff** Fox Trot—Palace Trio with Orchestra STRUT MISS LIZZIE—Fox Trot—Palace Trio with Orchestra	85	1 53
15101	**Strut Miss Lizzie**—Fox Trot—Palace Trio with Orchestra SPREAD YO' STUFF—Fox Trot—Palace Trio with Orchestra	85	1 53
15124	**Sweet Lady**—Fox Trot—Irving Weiss and his Ritz Carlton Orchestra FIGARS—One Step Irving Weiss and his Ritz Carlton Orchestra	85	1 53
18109	**The Birds and the Brook**—Whistling Solo—Margart McKee BIRD IMITATIONS—Whistling Solo—Margart McKee	85	1 53
20102	**The Holy City**—Tenor with Orchestra—Charles Hart LEAD KINDLY LIGHT—Baritone with Orchestra Elliott Shaw	85	1 53
17105	**The Rosary**—Mezzo Soprano with Orchestra—Jane Bartlett MIGHTY LAK' A ROSE—Mezzo Soprano with Orchestra—Jane Bartlett	85	1 53
21101	**The Three Trees** Descriptive Story by Victor Fletcher NO NEWS; OR WHAT KILLED THE DOG—Comic Monologue	85	1 53
14112	**There's Only One Pal After All**—Tenor with Orchestra—Charles Hart SHIP O'DREAMS—Tenor with Orchestra—Charles Hart	85	1 53
15119	**Ti-O-San**—Fox Trot—Bennie Krueger's Orchestra LEARN TO SMILE—Fox Trot—Bennie Krueger's Orchestra	85	1 53
14114	**Tuck Me To Sleep**—Tenor with Orchestra—Billy Jones IN THE OLD TOWN HALL—Tenor with Orchestra—Billy Jones	85	1 53
14102	**Vamping Rose**—Baritone with Orchestra—Arthur Fields THE SCANDLE OF LITTLE LIZZIE FORD—Baritone—Arthur Fields	85	1 53
19106	**Doce Di Donna** Contralto with Orchestra	1 25	2 25
18104	**Sous La Feuillers**—Cello Solo—Bernard Altschuler MELODY IN "F"—Cello Solo—Bernard Altschuler	85	1 53
15110	**Snuggle**—Fox Trot—Van Eps Quartette CHERIE—Fox Trot—Waldorf-Astoria Dance Orchestra	85	1 53
15113	**Sweetheart** Fox Trot Bennie Krueger's Orchestra THE LAST WALTZ—Waltz—Merry Melody Men	85	1 56
15113	**The Last Waltz**—Waltz Merry Melody Men SWEETHEART—Fox Trot Bennie Krueger's Orchestra	85	1 53
18101	**The Sweetest Story Ever Told**—Philharmonic Trio—Landau—Wagner and Schuetz HAPPY DAYS—Philharmonic Trio—Landau Wagner and Schuetz	85	1 53
17106	**Three For Jack**—Baritone with Orchestra—Howard Shelley CLANG OF THE FORGE—Baritone with Orchestra—Howard Shelley	1 00	1 80

POPULAR PRICED WATCHES

The big sellers; fully guaranteed, good serviceable time pieces in demand all the year 'round.

J255—Pocket Ben, 14 size, highly polished nickel, silver, open face, stem wind and set, arabic numerals; each in box. Each. .98

NIGHT WATCH
Radium numerals and hands

J257—14 size, "Night Watch;" open face, plain nickel finish, full radium numerals and hands; nickel lever movement; 1 in box. Each 1.55

LEONARD WATCHES

14 Size, open face, nickeled lever movement

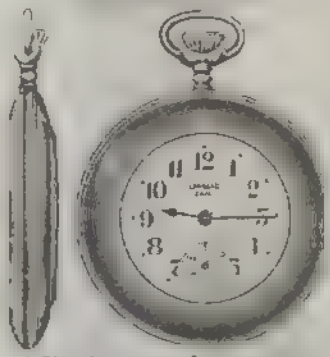
J251—14 size, plain nickel, open face, nickeled lever movement; 1 in box. Each ..... .93

J252—Nickel finish, fancy engraved back; 1 in box. Each..... .93

J253 — Solid gilt finish, fancy engraved back; 1 in box. Each. .93

J254—Solid Gilt, with back and bezel, finished in Gun Metal; 1 in box. Each ..... .95

LEONARD WATCHES



12 Size, Last, open face; exceptionally thin model, fitted with 6 size movement, pull out pendant, nickel silver movement.

J261—Plain, solid silver nickel, 1 in box. Each..... .....1.90

J262—Solid gilt with back and bezel, Gun Metal finish; 1 in box. Each 1.90

J263—Solid gilt, fancy engraved, 1 in box. Each 1.90

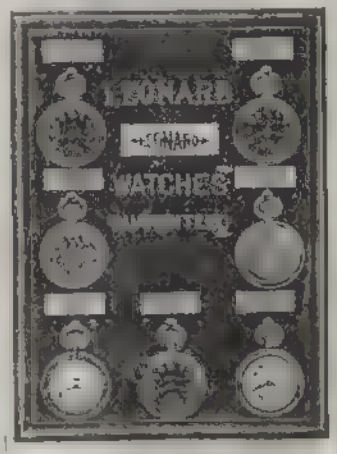
J264—Radium dial, plain nickel. each . 2.35

LADIES' MODEL

J258—6 Size, Duchess, Ladies' open face, stem wind, pendant set, nickel lever movement, plain silver finish; 1 in box. Each.. ...1.90

J260—Gilt. Each 1.90

J259—Duchess, plain nickel, radium dial. Each .....Out



ASSORTMENT

14 Size, open face, nickel lever movement, fully guaranteed; assortment consists of six full radium dial night watches; and six assorted finishes, plain, fancy engraved and gun metal; each in box. Each 1.25

(Total for Assortment 15.00)
Display easel FREE

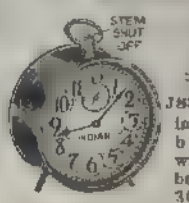
You cannot afford not to carry a line of this jewelery; new styles that sell fast with fancy profits for you.

ALARM CLOCKS

The products of well known manufacturers, will retail at a nice profit. Standard makes.

J833 — Full nickel plated polished case top bell alarm, 36 hour brass movement, shut off switch; 3½ in. Arabic dial; 1 in box. Dozen ..9.25 Each .... .80

Concealed bell, ball stem shut-off
Extra loud alarm



J888 Indian, 4½ in. nickeled case, bell enclosed within case; all brass movement; 30 hours; long, loud alarm, released and shut off by raising and pressing ball; white dial; each in box. Each..... .86

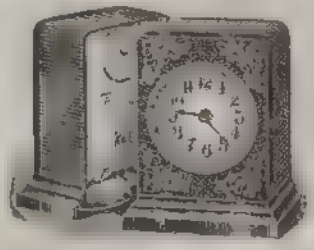
J834 America, made by the Western Clock Co., highest grade 36 hour movement, hard steel pivots; nickel plated case fully guaranteed; each in a box Ea. .98

J844— Back bell alarm; nickel plated; 5 inches high; brass ring and legs; 4 inch white dial; long and loud alarm; alarm indicator on dial; 30 hour movement; each in box. 1.33

Each

J843 —Bunker, 4½ in. nickel plated, highly polished, seamless brass case, polished back bell; switch shut off, white dial, with alarm indicator; extra loud alarm; 30 hour movement; each in box Each 1.82

IRON CASE



J837 —Ironclad; oxidized iron case, it has no delicate points; no legs to be broken; no bell to be knocked off; weight 2½ pounds; 5 inches high, dial 2⅝ inches, rings 45 seconds, can be shut off at will. Each in box Each ..1.49

RADIUM NUMERALS AND HANDS

J836 — Jack 'o Lantern; 4 in highly polished nickeled seamless brass case; black dial, with luminous hands and numerals; full size alarm back with shut-off switch; dial alarm indicator; 30-hour movement; each in box. Each 1.99

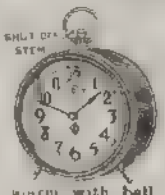
BABY BEN

J841 — Baby Ben; 3 in. nickel plated brass case; concealed bell, two switches, one for alarm and silent, and one for steady and repeat; Roman numerals; 30 hour movement, each in box. Each 2.32

BIG BEN

J842 Big Ben, 5¼ in. nickel plated brass case; concealed bell; two switches one for silent and alarm, and one for steady and repeat; Roman numerals; 30 hour movement; each in box Each 2.32

8-DAY TIME AND ALARM



J845—Ace, 4½x3⅝ in.; seamless, heavy, nickeled brass case, thin model, 8-day brass movement, steel lantern pinions, loud back bell; alarm with bell shut off stem; 4 in white dial, guaranteed, each in box Each 2.85

ORMOLU GOLD CLOCKS

T813—Metal case satin finished, scroll decorated front, 2 in. dial, good movement; size 3x1⅝x3¾ inches high, each in box. Each 1.68

T814 — Metal case, floral and scroll design; footed, burnished edges; standing angel figure, 2 in dial, good movement, size 6x3x5½ ins. high; each in box. Each..2.75

T815 — Metal case; scroll and floral designs, fluted columns, figure tops, footed; burnished edges, 2 in dial; size 6x3x6½ in. high; each in box Each . 3.75

IMPORTED DRESSED DOLLS

This is unquestionably the finest line of dressed dolls ever brought into this market; all well made, with exceptional good features and wigs, and beautifully dressed; every number an extra good value.

GT603 GT532 GT554 GT534

GT603 [illegible] composition, bisque turning [illegible] lashes; white lawn dress, white flannel coat, hat to match; [illegible] stockings and slippers; height 16 ins.; in lace trim box [illegible] 1.62

GT532 [illegible] jointed, composition; bisque turning [illegible] applique trimmed; [illegible] undergarments [illegible] 1.65

GT554 [illegible] composition; curly [illegible] wig; sleeping eyes with [illegible] ing head, percale [illegible] skirt, white waist, silk [illegible] and bow shoulder straps; bonnet to match, [illegible] and sox; height 17 ins.; in lace trim box. Each 1.55

GT534 Fine jointed composition turning bisque head, sleeping eyes; full curly mohair wig; assorted costumes; check lawn skirt with lace and braid trimmed [illegible] ch and pencil stripe lawn dresses, with collar and flannel coat and [illegible], hats to match; undergarments, socks and slippers; height 17 ins.; in lace trim box. Each 1.72

GT535 [illegible] jointed bisque head; sleeping eyes, long curl mohair wig; assorted silkoline dresses, braid trim, full lace collars and lace waists, novelty and silk sashes, lace and floral trim bonnets to match; underwear, socks and slippers; height 17 ins.; in lace trim box. Each 1.72

SEMI-JOINTED DRESSED DOLLS

SHOULDER AND HIP JOINTED; PAPIER MACHE BODIES; TURNING BISQUE HEADS; SLEEPING EYES; MOHAIR WIGS

STATIONARY GLASS EYES

GT453 Papier [illegible] each doll [illegible] jointed [illegible] arms and ribs [illegible] head, stationary glass eyes, hair wig; assorted costumes, with straw hat, length 8 ins.; 1 in box. Dozen 2.00

GT463 [illegible] che body; composition arms [illegible] hats to match; slippers [illegible] height [illegible] in box. Dozen 2.25

MOVING EYES

GT462—Papier mache body, jointed composition arms and limbs; bisque head, open mouth showing teeth, sleeping eyes, curly wig; assorted fancy costumes; straw hat, length 8½ ins.; 1 in box. Dozen 2.15

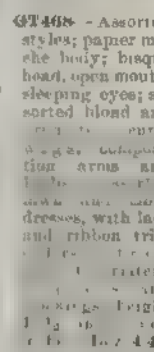
GT467½—Assorted [illegible] body, composition arms and [illegible] and hip jointed; bisque head, sleeping [illegible] in box. Doz 3.75

GT463 [illegible] styles; papier mache body; bisque head; long curly wig, sleeping eyes; [illegible] arms and limbs jointed; assorted costumes, lawn and cloth, with and without trimmed coats; some in winter costumes, straw and cloth hats to match, [illegible] and slippers; height [illegible] ins. Doz 3.25

GT457 [illegible] styles; papier mache body; bisque head; long curly wig, sleeping eyes; [illegible] arms and limbs jointed, assorted costumes, lawn and cloth, with and without trimmed coats, some in winter costumes, straw and cloth hats to match, [illegible] and slippers; height [illegible] ins. Doz 3.25

GT468½—Papier mache body; bisque head, open mouth, fine curly wig, sleeping eyes; composition [illegible] assorted costumes [illegible] and slippers; height 11½ inches. Doz 1.25

GT470 — Papier mache body, composition arms and limbs; shoulder and hip jointed; bisque [illegible] sleeping eyes, full curly wig, [illegible] assorted lawn [illegible] height 11½ ins. 1 in box. Dozen 6.75



GT468 — Assorted styles; papier mache body; bisque head, open mouth, sleeping eyes; assorted [illegible] composition arms and [illegible] dresses, with lace and ribbon trim [illegible] height [illegible] Doz 4.40

GT471 — Papier mache body, composition arms and limbs; hip and [illegible] joint, [illegible] bisque head, sleeping [illegible] sleeping [illegible] [illegible] lace [illegible] [illegible] hat to match, lace [illegible] stockings and slippers; length 14 ins.; 1 in box. Dozen 3.00

GT468 — Assorted styles; papier mache body, fine bisque head, [illegible] eyes; long, flowing curly wig, composition arms and limbs; assorted lawn and cloth [illegible] hat [illegible] 1 [illegible] sleeping [illegible] ings; height 12½ ins.; each in box. Dozen 4.50

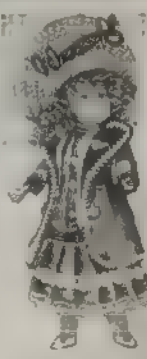
GT472 [illegible] mache body, [illegible] pointed arms and limbs jointed; full flowing curl wig; sleeping eyes; assorted 3 styles; fancy lawn pleated and ruffled [illegible] tumes with wide lace trim colors, large straw [illegible] to match; underwear, stockings and slippers; each [illegible] assorted in box. Dozen 3.00

height 14 ins.

ORDERS SHIPPED PROMPT

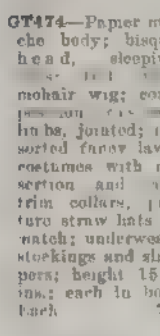
GT472 — Paper mache body; composition shoulder and fine bisque head, curly wig; outfit; underwear; stockings and slippers; length 16 ins.; 1 in box.
Dozen 8.50

GT484—Paper mache body; bisque head, sleeping wig; composition jointed; assorted sateen dress trim straw fancy lawn with white hat to match, stockings and underwear, height 17 ins.; each in box.
Each 1.25

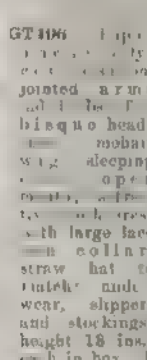


GT525—Composition body, arms and limbs, full turning head, hair wig; assorted lawn and cloth dresses with lace trim collars, coats, etc; straw hats and cloth bonnets to match; underwear; socks and slippers; height 13 ins.; each in box trim box Each, .75

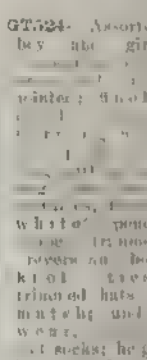
GT526 — Full jointed, composition body, arms and limbs, bisque head, sleeping eyes; extra fine long curl mohair wig, fancy figure lawn dresses with lace and ruffle trim collars, one with coat; fine straw and fabric hats to match underwear, slippers and socks height 14 ins.; box 1.00



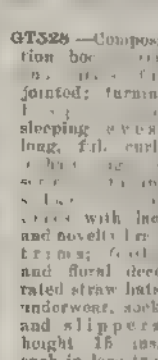
GT474—Paper mache body; bisque head, sleeping mohair wig; composition limbs, jointed; assorted fancy lawn costumes with section and trim collars, picture straw hats to match; underwear, stockings and slippers; height 15½ ins.; each in box
Each 75



GT486 Paper body; composition jointed arms and legs; bisque head; mohair wig; sleeping open mouth, with large lace collar; straw hat to match; underwear, slippers and stockings height 18 ins.; each in box. Each 1.00



GT524 Assorted boy and girl winter; doll trimmed hats to match; underwear; socks; height 13 ins.; each in lace trim box
GT524B Boy, Each 75
GT524G Girl, Each 75



GT528 —Composition body, jointed; turning head, sleeping eyes, long, full curls; assorted dresses with lace and novelty braid trims; fancy and floral decorated straw hats, underwear, socks and slippers, height 15 ins. each in lace trim box. Each 1.25

GT483 Paper body; composition head, sleeping eyes; mohair wig; assorted fancy lawn dresses with full lace trim apron and collar; underwear; straw hats to match; stockings; height 15½ ins.; each in box.
Each 90

GT497 Paper mache body; fine quality bisque head; fine mohair curl wig; sleeping eyes; composition jointed arms and limbs, lawn costume with large lace yoke, large sash hat with ribbon bows and neck ribbon; slippers, stockings and underwear; height 18 ins.; each in box Each 1.95

GT488— Composition body arms and limbs, full bisque head, turning head, curl mohair wig, sleeping eyes; fancy figured lawn and porcelain dresses, lace and braid trimmed, with picture straw hats to match, underwear, slippers; height 13 ins.
Each 88

GT538 Composition body, jointed; turning head, mohair wig, trimmed bisque head, moving eyes, fine quality pan stripe lawn dress, full sunk lace collar, bow trim, straw hat to match; underwear, socks and slippers; height 15 ins.
Each 2.00

DOLLS GOOD SELLERS

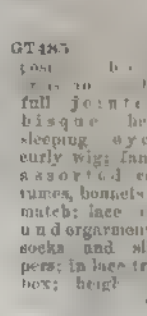
FULL JOINTED DRESSED DOLLS

Shoulder, Elbow, Hip and Knee Jointed; Composition Bodies, Arms and Limbs Turning Bisque Heads, Sleeping Eyes Mohair Wigs

GT523— Composition body jointed; bisque head, sleeping eyes, mohair wig, assorted lawn costumes, lace trim; floral trim bonnets to match; underwear; stocking and slippers; in lace trim box; height 11 ins.; 65

GT485 — Composition body arms and limbs, shoulder, elbow, hip and knee jointed; bisque head, fine curly wig; sleeping eyes; assorted fancy costumes, lace trim, hats and bonnets to match; underwear; socks and slippers; in lace trim box; height 13 ins. Each 68

GT523½ — Full jointed; composition body arms and limbs; turning bisque head, long curl mohair wig, sleeping eyes, [illegible] hats to match; underwear; stockings and slippers; in lace trim box; height 11 [illegible] 65



GT485 [illegible] full jointed bisque head, sleeping eyes, curly wig; fancy assorted costumes, bonnets to match; lace [illegible] underwear, socks and slippers; in lace trim box; height [illegible] 68

CHARACTER DRESSED DOLLS

NOVELTY COMPOSITION

GT701- Full composition, standing; asst. [illegible] long curl wigs; catchy expressions; assorted fancy costumes, straw hats to match; picnic shoes and stockings; lace trim undergarments; height 6 in. in lace trim box, Dozen 3.75

GT624 Full composition, shoulder and hip jointed bisque turning head, open mouth showing teeth, [illegible] costumes to match; underwear; socks and slippers height 9½ ins.; in lace trim box
Dozen 8.25

"NOBBY KIDS"

GT457 Paper mache body, composition jointed arms and limbs, turning bisque head, moving eyes, mohair wig assorted fancy lawn dresses with aprons, coats, lace and [illegible] trimmed; hats and bonnets to match undergarments; painted shoes and stockings; height 8 in.; in lace trim box Dozen 4.35

GT458—Same as GT457, larger; height 13 ins., in lace trim box.
Dozen 6.75

GT628 [illegible] sleeping eyes, mohair wig, shoulder and hip jointed; lawn and figured cotton dresses to match; undergarments; socks and slippers height 12 ins.; in lace trim box
Each 1.25

GT632 Same as GT628 larger, 16 ins.; in lace trim box
Each 1.78

IMPORTED FULL JOINTED DRESSED DOLLS WITH NATURAL EYE LASHES

COMPOSITION FULL JOINTED SHOULDER, ELBOW, HIP AND KNEE; MOHAIR WIGS, MOVING EYES WITH EYE LASHES

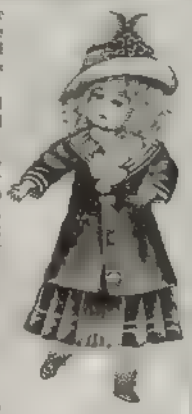
GT602 — Full composition body; bisque turning head; sleeping eyes with eye lashes, open mouth; long full curl wig; shoulder, elbow, hip and knee jointed; pleated white lawn dress, white flannel coat, braid trim, muff and hat to match; lace trim under garments; slippers and stocking; in lace trim box; height 12 ins. Each. .1.22

GT602S—Same as GT602, larger; height 16 ins.; in lace trim box. Each 1.62

GT604—Same as GT602, larger; height 17½ ins.; in lace trim box Each 2.85

GT605—Same as GT602, larger; height 20 ins.; in lace trim box. Each 2.85

COMPOSITION, FULL JOINTED SHOULDER, ELBOW, WRIST, HIP AND KNEE, MOHAIR WIG, BISQUE HEAD, SLEEPING EYES, LASHES, SHAPED LIMBS



GT517 — Fine turning bisque head; natural moving eyes with eye lashes; exposed teeth; full curl wig; composition body, jointed shoulder, elbow, hip and knee, shaped limbs; solid color cloth one piece dress, white astrakan coat, silk ribbon neck tied and silver button ornaments, white Tam to match; lace trim undergarments; socks and slippers; height 19 ins.; each in box. Each.....2.35

GT537 — Full composition body; full jointed, shoulder, elbow, knee; shaped wrist, hip and limbs; turned bisque head, extra fine flowing curl, mohair wig, moving eyes, natural eye lashes, exposed teeth; figured lawn skirt, with buttoned coat to match, white lawn waist; straw cloth hat to match, floral and silk ribbon bow trim; lace trim undergarments; socks and tied slippers; height 20 ins.; in lace trim box. Each..... .2.45

GT559—Full composition, full jointed; bisque head, mohair wig; moving eyes natural eye lashes, silkoline costume, lace insertion, and cuffs tucked collar; bonnet to match, lace trim undergarments, socks and slippers; height 21 ins.; in lace trim box. Each.....2.95

GT562 — Full composition; full jointed, shaped limbs; bisque head marcel wave mohair wig natural eyes with eye lashes, exposed teeth fine checked lawn dress, ruffled and lace trim collar; silk ribbon trim straw bonnet, chin bow; lace trim undergarments; socks and tied slippers; height 24 ins.; in lace trim box. Each.....3.75

GT561 — Fine bisque head; mohair wig moving eyes with natural eye lashes; open mouth showing full composition, jointed shaped limbs, fine checked lawn costume, ruffled, with collar and cloth hat to match; lace and ribbon bow trim; undergarments; lace socks and tied shoes, height 23 ins., in lace trim box. Each.....4.50

GT564— Full composition, full jointed, mohair wig; moving eyes with eye lashes; exposed teeth; lawn dress, plain white collar and cuffs, lace and ribbon trim; two pockets; large picture straw hat, ribbon bow, under garments, lace socks and tied shoes; height 25 ins.; in lace trim box Each 4.50

GT579—Extra fine turning bisque head; parted mohair wig; sleeping eyes with natural eye lashes; exposed teeth; full jointed; silkolene costume, lace and braid trim; mariabeau trim bonnet to match, chin bow; lace trim undergarments, lace stockings, tied shoes; lace gloves; height 22 ins.; in lace trim box Each .. 4.75

GT581 Fine composition; turning bisque head, fine wavy curly mohair wig; sleeping eyes with eye lashes; exposed teeth; full jointed, shoulder, elbow, wrist, hip and knee; lace inserted satteen dress, fancy gathered lace trimmer; with flower; white lace waist; large picture straw hat, feather and bow trim; lace trim undergarments; full lace stockings, tied shoes; height 25 ins.; in lace trim box. Each.. . .5.50

FINE DRESSED DOLLS

FULL JOINTED, SHOULDER, ELBOW, WRIST, HIP AND KNEE

T1472—Bisquette turning head, open mouth showing teeth, sleeping eyes, finely modeled, full composition body shoulder, elbow, wrist, hip and knee jointed sewed mohair wig, large ribbon bow; lace trim costume, skirt and drawers; removable stockings and buckled slippers; height 16 ins., each in box. Each 1.98

FANCY DRESSED KEWPIE DOLLS

T1283 — Jointed arm, 8½ in composition standing kewpie painted hair and features; assorted silk skirts, maribeau trim, cap to match; each in box Each 1.32

T1286—8½ in jointed arm, standing composition kewpie; mallue pantalettes, ruffled skirt, silk ribbon trim cap to match; silk ribbon wrist bows each in box Each. 1.38

T1284—Jointed arm, composition standing kewpie, 8½ in high; assorted color silk gown, lace and silk ribbon bows trimmed cap to match; each in box Each 1.32

T1288— Jointed arm, 12 inch composition standing kewpie; figure silk pantalettes with shoulder straps, puffed skirt, fancy braid edge, cap to match with floral spray; silk ribbon wrist bows; each in box. Each 1.88

T1285—Jointed arm, standing composition kewpie, assorted silk pantalettes, lace trim puff skirt, lace trim cap to match; silk ribbon wrist bows; each in box. Each....1.32

T1282-Composition wood fibre; flesh tint; painted features; blue round base; fancy silk crinoline pantalettes, and skirt, with cap to match; ribbon bows; height 11 ins.; each in box. Ea. 1.82

T1289 — 12½ inch jointed arm, standing composition kewpie; satin pantalettes, gold braid shoulder straps, maribeau trim satin skirt; floral spray, decorated cap to match; silk wrist bows; each in box Ea. 1.88

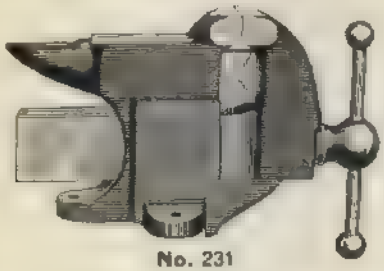
VISES

PRENTISS COMBINATION PIPE VISES

Exceptionally heavy; high grade steel pipe jaws, can be reversed; equipped with detachable and interchangeable steel jaw faces; swivel bottom

Nos.	180	180½	181	182	182½
Jaws, ins	2½	3	3½	4¼	5
Holds pipe	⅛-1	⅛-1½	⅛-2½	⅛-3	⅛-4
Wgt., lbs	15	22	55	80	120
Each	$10 00	12 00	16.00	22.00	32.00

STATIONARY BASE AUTO VISE



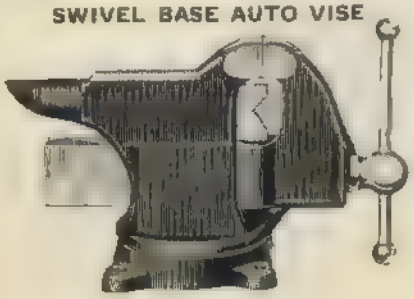
No. 231

Combination pipe vise and anvil; crucible tool steel jaws, polished anvil face; semi-steel castings; cold rolled steel screw and handle.

No. 231—Jaw 3 in.; takes pipe ⅛ to 1½ in.; wgt. 32 lbs. . . . . Each $11 30

No. 232—Jaw 4 in.; takes pipe ⅛ to 2 ins.; wgt 65 lbs 15 50

SWIVEL BASE AUTO VISE



No. 241

Combination pipe vise and anvil; crucible tool steel jaws; polished anvil face; semi-steel castings; cold rolled steel screw and handle.

No. 240—Jaw 3 in.; takes pipe ⅛ to 1½ in.; weight 42 lbs . . . . . Each $14.30

No. 241—Jaw 4 in.; takes pipe ⅛ to 2 ins.; weight 80 lbs . . . . . Each 17.50

PRENTISS PIPE VISES

Malleable iron; steel screw and lever; tool steel pipe jaws; made exceptionally heavy to withstand severe strain

Nos.	110	111	112	113	114
Holds pipe	⅛-2	⅛-2½	⅛-3½	¼-4½	1-6
Wgt., lbs	4½	9	15	19	36
Each	$3 60	5 00	7.50	11 00	23 50

PEERLESS SWIVEL JAW PIPE GRIP

Instantly converts any vise into pipe vise, fits machinists' vises from 3½ inches up.

Nos.	1	2	3
Fits vises from, ins.	3½ to 4½	4¾ to 5¼	5½ to 8½
Holds pipe, ins	¼ to 2½	¼ to 5	¼ to 6
Each	$3 50	3.75	4 00

GREENRIVER SHOEING VISE AND BOLT HEADER

The calking dies furnished with this vise are made of tool steel and have a full number of grooves for large and small calks; both sharp and straight calks may be formed without changing dies; dies may be held so grooves run either from front to back or from left to right, the vise drops open when not in use, and is in no way interfered with by the bolt header; treadle conveniently located at side. **Bolt Heading Dies** — These are dropped in place or removed instantly without trouble; they are firmly set by driving a taper key which is always in place, jaws are made for following sizes of bolts ¼, 5/16, ⅜, 7/16, ½, 9/16 and ¾ inch; equipped with an anvil adjustable for any length of bolts under 24 inch.

No. 628—Greenriver Shoeing Vise and Bolt Header; complete for shoeing and bolt heading; wgt. 150 lbs . . . . . Each $32 00

No. 629—Greenriver Shoeing Vise; without bolt heading attachment; weight 150 pounds. . . . . Each $29.00

VISES

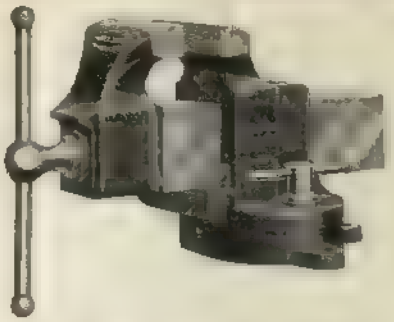
PRENTISS "BULL DOG" MACHINIST VISES

Solid Jaw; Stationary Bottom.

Nos.	207	209	211	50	51	52
Jaws, ins.	2	2½	3	3¼	3⅝	4⅛
Opening, ins	2	3	3½	4	5½	6
Wgt., lbs	4½	9	13	22	38	52
Each	$6 50	8 00	9 00	10 00	11 25	12 75

Nos.	53	54	55	56	57
Jaws, ins	4⅝	5	5½	6	7
Opening, ins	7	8	9	10	12
Weight, lbs	52	72	90	135	210
Each	$15 00	20 00	30 00	39 00	65 00

PRENTISS "BULL DOG" MACHINIST VISES



Solid Jaw; Swivel Bottom.

Nos.	208	210	212	90	91	92
Jaws, ins	2	2½	3	3¼	3⅝	4⅛
Opening, ins	2	3	3½	4	5½	6
Wgt., lbs.	6½	12	17	28	36	52
Each	$8 00	10 00	12 00	13 00	15 00	17.00

Nos.	93	94	95	96	97
Jaws, ins	4⅝	5	5½	6	7
Opening, ins	7	8	9	10	12
Wgt., lbs	65	82	115	150	220
Each	$20 00	30 00	38 00	52 00	70 00

PRENTISS IRON WORKERS' VISES

Self-Adjusting Jaws; Stationary Bottom.

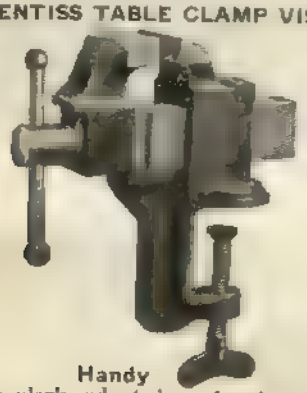
Nos.	1	2	2½	3	4	5	6
Jaws, ins	2⅝	3½	4	4½	5¼	6	7
Opening, ins	3½	4¾	5¼	6	8	9	11
Wgt., lbs	13½	28	41	54	96	146	184
Each	$13.50	16.00	19.00	22.00	35.00	50 00	75 00

PRENTISS IRON WORKERS' VISES

Self-Adjusting Jaws; Swivel Bottom

Nos.	18	19	19½	20	21	22	23
Jaws, ins.	2⅝	3½	4	4½	5¼	6	7
Opening, ins.	3½	4¾	5¼	6	8	9	11
Wgt., lbs	17	32	46	65	109	168	207
Each	$16 00	20 00	24 00	28 00	44 00	60 00	75.00

PRENTISS TABLE CLAMP VISES

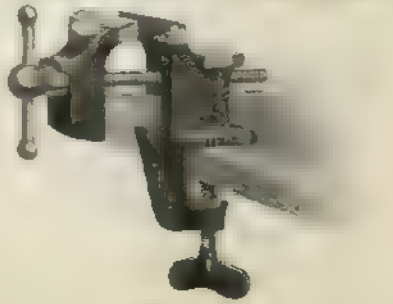


Handy

Particularly adapted for jewelers' use

Nos.	800	801	802
Jaws, ins	1¼	1½	2
Opening, ins.	1¾	1½	2
Wgt., lbs	1¾	2¼	6
Each	$2 75	3 25	4.50

PRENTISS TABLE CLAMP VISES



Shepard

Wrought steel sliding bar, screw and lever; polished anvil, heavy clamp

Nos.	152	153	154	155	156
Jaws, ins	1½	1¾	2	2¼	2¾
Opening, ins	1½	1¾	2	2½	3½
Wgt., lbs	1½	2½	3	5½	9
Each	$1.00	1.25	1.60	2 25	3 25

VISES

PRENTISS WOOD WORKERS' VISES

Self-Adjusting Jaw; Stationary Bottom

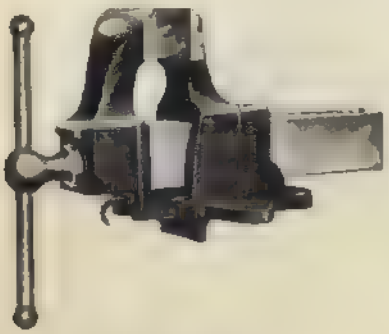
Nos.	Jaws, ins.	Opening, ins.	Wgt.	Each
12	3½	7	30	$19.00
10	4½	9½	59	25.00

PRENTISS "BULL DOG" WOOD WORKERS' VISES

Solid Jaw; Stationary Bottom

No. 59—Prentiss "Bull Dog" Wood workers' Vises; 4¼ ins., jaws, opening 9 ins.; wgt. 48 lbs Each $16 25

PRENTISS WOODWORKERS' VISES



Rapid Transit

No. 76—Prentiss Rapid Transit Woodworkers' Vises; 4¼ ins. jaws; opening 9 ins.; wgt. 55 lbs . Each $24.00

PRENTISS WOODWORKERS' VISES

Self-Adjusting Jaws; Swivel Bottom

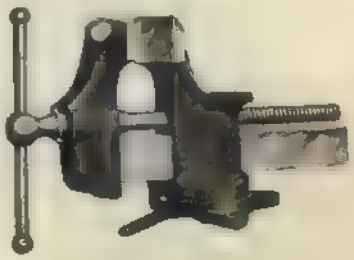
Nos.	Jaws Ins.	Opening Ins.	Wgt. Lbs	Each
27	3	7	34	$23 00
26	4 2	9½	67	30 00

PRENTISS "BULL DOG" WOODWORKERS' VISES

Solid Jaw; Swivel Bottom

No. 99 Prentiss "Bull Dog" Woodworkers' Vises; 4¼ ins. jaws; opening 9 ins.; wgt. 58 lbs Each $21 25

PRENTISS "SHEPARD" WOODWORKERS' VISES



Solid Jaw; Swivel Bottom

Nos.	Jaws Ins.	Opening Ins.	Wgt. Lbs.	Each
169	3½	7	38	$11 00
69	4½	9	46	13.75

SOLID JAW; STATIONARY BOTTOM

Nos.	Jaws Ins	Opening Ins.	Wgt. Lbs.	Each
168	3½	7	33	$10 00
68	4 2	9	42	12 00

VISES

SOLID BOX VISES

Jaws are solid steel drop forgings, faced with crucible tool steel; screw extra strong and serviceable; approximate height 41 in. **Number denotes weight in lbs.**

BOXES AND SCREWS
For Solid Box Vises

No.	Diam. Screw	Vise Nos.	Each
1	1 in.	25- 40	$3 50
1½	1¼ in.	45- 55	4 00
2	1½ in.	60- 75	4 00
3	1¾ in.	80- 95	4 50
4	1¾ in.	100-150	7 00
5	2 in.	160-200	9 50

Blacksmiths' Pattern

Nos.	Jaw	Depth	Opens	Each
35	3½ in.	3½ in.	3½ in.	$10 00
40	4 in.	3¾ in.	4 in.	10 50
45	4¼ in.	3¾ in.	4¼ in.	11 00
50	4½ in.	4¼ in.	4½ in.	11 50
55	4½ in.	4½ in.	4¾ in.	12 00
60	5 in.	4⅝ in.	5 in.	13 00
65	5 in.	4½ in.	5 in.	14 00
70	5¼ in.	4¾ in.	5¼ in.	15 00
75	5¼ in.	4¾ in.	5¼ in.	16 00
80	5¼ in.	5 in.	5½ in.	17 00
85	5½ in.	5 in.	5½ in.	18 50
90	5¾ in.	5¼ in.	5¾ in.	20 00
95	5¾ in.	5½ in.	5¾ in.	21 00
100	6 in.	5 in.	6 in.	22 00
110	6 in.	5½ in.	6 in.	24 00
120	6¼ in.	6 in.	6¼ in.	26 00
130	6½ in.	6 in.	6½ in.	28 00
140	7 in.	6 in.	7 in.	33 00
150	7 in.	6 in.	7 in.	36 00

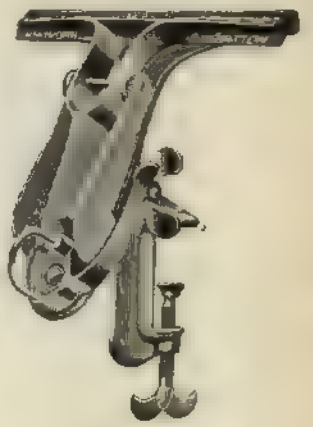
Horseshoers' Pattern

Nos.	Jaw.	Depth	Opens	Each
65	5 in.	5 in.	5½ in.	$19 50
75	6 in.	5 in.	6 in.	25 50
100	6 in.	7 in.	6½ in.	30 00

Open Stock. Second Class Freight

SAW FILING VISES

No. 0



No. 3 Wentworth

No. 0—9½ in. jaws.....Dozen $20.00

No. 3—11 in. rubber cushion jaws; **adjustable**.Dozen 36.00

Open Stock. Second Class Freight

DRILL VISES

▼ Swivels from back bolt hole in base; made with plain jaws or with V slots for holding round material

Drill Vises—5½-in jaw; opens 4 ins., ¾-in screw; wgt 30 lbs.....Each $6 00

BLACKSMITHS MANDRELS

Plain Pattern

Plain Pattern Mandrels—These are cast smooth and round, and are well adapted for forming rings, bands and similar work.

Cheney Pattern Mandrels—Made with slot which is very convenient for holding end of iron in bending rings and for handling work with tongs, strengthened with ties inside the slot

No. 1 —32 in. high; dia. top 1 in., dia. base 8 in.; wgt. about 60 lbs.
No. 1½—40 in. high; dia. top 1 in.; dia. base 10 in.; wgt. about 100 lbs.
No. 2 —48 in. high; dia. top 1 in.; dia. base 12 in.; wgt. about 125 lbs.
No. 3 —52 in. high; dia. top 1 in.; dia. base 14 in.; wgt. about 150 lbs.
No. 4 —54 in. high; dia. top 2 in.; dia. base 16 in.; wgt. about 220 lbs.

NOTE: Above weights are approximate for Cheney Pattern, weights of Plain Pattern average about 10 per cent less

Plain Pattern Mandrels.....Pound $0.07
Cheney Pattern Mandrels.....Pound .08

Open Stock. Fourth Class Freight.

Cheney Pattern

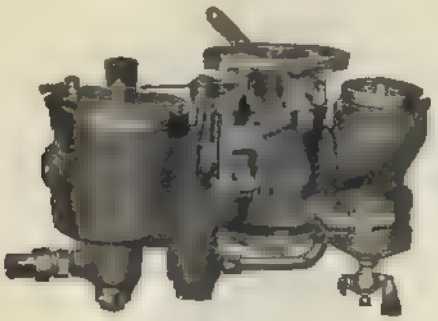
RAYFIELD CARBURETORS

The superiority of the **Rayfield** Carburetor over all other makes has been proven so often that it is generally referred to as the last word in carburetion.

The **Rayfield** has faithfully served the motoring public for over ten years. It has gained the respect and confidence of dealers and garage owners throughout the country.

They enjoy handling the **Rayfield** not only on account of its superiority and the superior satisfaction it renders to the automobile owner, but more especially because of the unlimited sales possibilities. That's what makes a model of car there is a **Rayfield** of the proper type. Every car must have a carburetor, consequently every car owner is a **Rayfield** Prospect. Your sales will be greater in number in your profits will be increased by handling the **Rayfield** Line.

There are four types, known as Models G, L, M and U. Each type is made in various sizes for use on the different sizes of motors.



Model "G"

Models "G", "L" and "M" are made in various sizes according to the size of the throttle opening. Model "G" is made in sizes varying from 1 inch to 2 inches, Model "M" in 1, 1¼ and 1½ inch sizes and Model "L" in 1 inch and 1¼ inch sizes only. These models are also made for installation on either the right hand, or left hand side of the motor. Models "G" and "L" for left hand installation are known as "GL" and "LL"; right hand types being called merely "G" and "L"; similarly, right hand Model "M" is known as "MR" and left hand as "M".

STANDARD RAYFIELD CARBURETORS

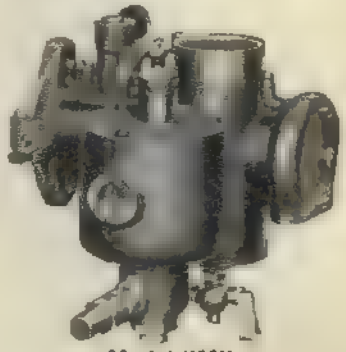
By a variation in the sizes of certain fundamental parts such as nozzles, metering pins, or air constants, the three **Rayfield** Models ("G", "L" and "M") are convertible to the requirements of many different motors, thereby putting the dealer or garage owner in a position to make a majority of installations with a minimum investment in carburetors. The different sizes of carburetors and parts together with specification numbers and prices are listed below:

Model "G" is a top out-let carburetor and is installed on motors equipped with an outside manifold; it is water-jacketed, which provides for a circulation of water around the mixing chamber. This arrangement aids in a better atomization of the fuel, and greatly increases the performance and economy of the motor.

The Model "L" is identical with the "G" but is without the water-jacket. It is designed for installation on Thermo-Syphon, or air cooled motors.

The Model "M" embodies essentially the same principles as Models "G" and "L", although differing somewhat in arrangement. It is a side out-let carburetor for use on motors having the manifold cast integral with the motor block.

Model "U" is the so called plain tube type with multiple jet nozzle and accelerating well with separate idling nozzle. The multiple nozzle is so designed as to provide for a perfect mixture at all speeds of the motor. At present, it is made in only one model, which is known as the "U" and is for installation on the Ford Car.

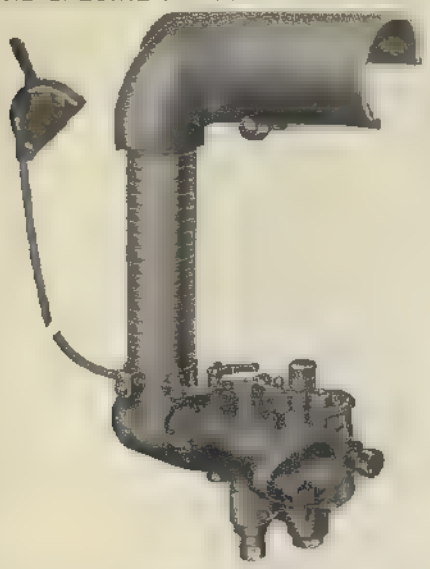


Model "M"

Model	Size Inch	Nozzle	Meter Pin	Constant Inch	Air Valve Ring	Housing	Spec. No.	
GUP		201	1 55	201			808-47N	$32 50
GUP	1	201	55	201			808-44L	32 50
LUP	1	201	55	201			808-42K	32 50
LUP	1	201	55	201			808-41K	32 50
GL	1	201	55	201			808-8K	32 50
GLUP	1	201	55	201			808-8L	32 50
LL	1	201	55	201			808-8M	32 50
LUP	1	201	55	201			808-8N	32 50
GR	1¼	201	1 53	201			808-7J	29 50
GR	1¼	201	1 52	201			808-38L	29 50
GRUP	1¼	201	50	201			808-45L	29 50
GUP	1¼	201	50	201			808-39-G	29 50
GL	1	201	55	201			808-40J	32 50
MGV		201	1 40	201			808-50H	32 50
MGVH		201	1 50	201			808-50I	32 50
MLV	1	201	1 50	201			808-50J	32 50
MLVH		201	1 50	201			808-50K	32 50
MLV		201	1 50	201			808-50L	32 50
MLHV	1¼	201	1 50	201			808-52I	27 50
MLHH	1¼	201	1 50	201			808-52H	27 50
MRV	1¼	201	46-50	201	1 6		808-1	32 50

RAYFIELD CARBURETORS

FORD SPECIAL RAYFIELD CARBURETOR



Model "UF"

A new Rayfield product of the plain tube type; has no loose fittings to adjust or readjust, has but two adjustments—one for low and one for intermediate speeds; brings forth all the economy, power and speed it is possible to procure from a Ford motor; involves the thermostatic hot air control principle, making it absolutely impossible to overheat motor in summer; other points of merit are the ease of starting, quicker pickup, increased power and uniformity of performances attached in five minutes

Model "UF" Ford Special Rayfield Carburetor
(Complete with all attachments.) Weight 6 pounds.. ....Each $18 00

SPECIAL OUTFITS

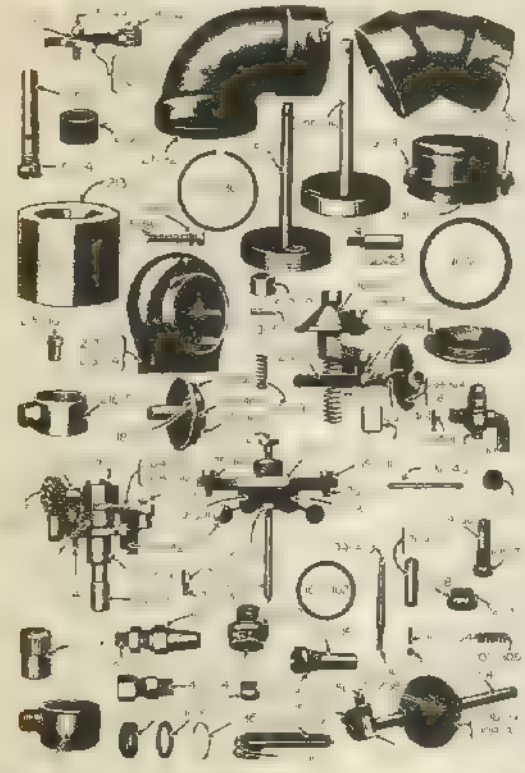
Name of Car	Year	Model	Carb.	Outfit No.	Each
Auburn	1917	6-44	M3V	800-5F	$27 50
Auburn	1917-18-19	6-39	M2V	800-27G	22 50
Auburn	1918	6-38	M2V	800-46C	22 50
Auburn	1920 21	Auburn 6	L3P	900-135E	29 50
Brisc[illegible]	1917 18-19	4-24 & B24	L2P	900-72E	22 50
Buss[illegible]	1920	4-34	L2P	902-5	22 50
Buick	1914 15-16	D55-C55-B55	GL3P	900-74F	34 50
Buick	1914 15	B & C 36-37	GL3P	800-97D	34 50
Buick	1915	C24-25	GL2P	900-80D	25 00
Buick	1916 17	D44-45	GL3P	900-78F	34 00
Buick	1917 18-19	D34-35, E35	GL2P	900-112E	26 00
Buick	1918-21	E & H 44-50	GL3P	900-76D	34 50
Cas[illegible]	1917	T	M3V	800-30L	27 50
C[illegible]	1918-19-20	U	M3V	800-48K	27 50
Cadillac	1917 to 1921	8-Cylinder	GL4P	900-2	34 50
Canadian	1913 to 1921	All	G5P	900-35	[illegible]
Chalmers	1914-15	6-24, 6-29	GL4P	900-90D	36 50
Chalmers	1914	6-25, 6-26	GL2P	900-91F	[illegible]
Chalmers	1916	[illegible]	[illegible]	[illegible]	[illegible]
Chalmers	1916	6-30, 45-A	M[illegible]	[illegible]	[illegible]
Chalmers	1917	[illegible]	M[illegible]	[illegible]	25 50
Chalmers	1918 to 192[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Chevrolet	1916 21	4-90	[illegible]	[illegible]	[illegible]
Cle[illegible]	1916	S-50 Series	[illegible]	[illegible]	[illegible]
Cole	1918-19-20	8-Cylinder	L3P	902-5	34 00
Cole	1920-21	8-70 Series	G4P	900-6	38 50
Cont. Motor	All	7-W	M2V	800-43E	27 50
Cont. Motor	All	6-N, 7-N	M3V	800-41E	27 50
Dort	1916-17	9	L2P	900-81E	25 50
Dort	1918 to 1921	11	L2P	902-2D	25 50
Dodge	1915-16-17	All	MR3H	800-14H	20 00
Dodge	1918-21	All	MR3H	800-64C	20 00

SPECIAL OUTFITS—Continued

Name of Car	Year	Model	Carb.	Outfit No.	Each
Essex	1918-21	AL	M3V	800-3	31 00
Ford	All	All	UF	701-3J	18 00
Haynes	1916-21	8-Cylinder	M3S	800-20P	27 50
Hayn[illegible]	1917 18-19	12-Cylinder	G3P	900-2F	31 50
Hu[illegible]	1914 15-16	6-54	G4P	900-55E	42 50
H[illegible]	1918	6-54	G4P	900-96C	42 50
H[illegible]	1914	6-40	GL3P	900-88E	36 00
H[illegible]	1914 15 16	6-40 Enbloc	M3V	800-58C	28 00
H[illegible]	1916 [illegible]	Super Six	MR4V	808-3F	36 00
Hupmobile	1[illegible] 17	All	MR3V	800-36E	31 50
Hupmobile	1918-21	R	LL2P	900-124D	22 50
Lexington	1[illegible] 19	7-W Motor	M2V	800-56H	22 50
Lexington	1[illegible] 21	S	L3P	900-136F	29 50
Lexington	1921	T	MR4V	808-2K	32 [illegible]
Marmon	1916 19	34	G4P	900-106D	40 50
Marmon	1[illegible]N-21	34	G4P	900-3	40 [illegible]
Maxwell	1915 19	Magneto 25	L2P	900-50D	22 50
Maxwell	1915-19	Battery 25	L2P	900-116F	22 50
Maxwell	1920 21	25	L2P	902-6	22 50
McFarlan	1921 21	McFarlan 6	G5P	911-2G	44 50
Mitchell	1916 21	All	MR3V	800-20N	27 50
Moon	1916	6-30	M2V	800-23E	22 [illegible]
Moon	1916 19	6-40	M3V	800-3G	27 50
Moon	1920 21	Moon 6	L3P	907-2E	29 [illegible]
Nash	1917	6-Cylinder	M3V	800-2F	[illegible]
Nash	1918 to 1921	681 to 686, Incl	G[illegible]3F	G[illegible]	[illegible]
National	1917	AF	M[illegible]	[illegible]	[illegible]
National	1918-19	AF	[illegible]	[illegible]	[illegible]
National	1916-19	12-Cylinder	G[illegible]P	[illegible]	[illegible]
National	1920 21	Sextet	G4P	[illegible]	[illegible]
Oakland	1918-21	32 & 32B & 34	GL2P	900-137	25 [illegible]
Oakland	1[illegible] 17	[illegible] 32B 34 34B	GL2P	900-79D	25 [illegible]
Oldsmobile	1[illegible] 15	[illegible]	[illegible]P	900-54C	25 [illegible]
Oldsmobile	1[illegible] 21	[illegible]	G[illegible]P	[illegible]	25 [illegible]
Overland	1[illegible] 19	[illegible]	L[illegible]P	900-64C	22 50
Overland	1915	80-81	L[illegible]P	900-44D	22 [illegible]
Overland	1916 17	[illegible]	L[illegible]P	900-80D	22 50
Overland	1917 18 19	85-4	M2V	800-[illegible]G	25 [illegible]
Overland	1916 17	79-79B	M[illegible]V	800-[illegible]	20 00
Overland	1917 18 19	90	M[illegible]V	80[illegible]	20 50
Overland	1920 [illegible]	[illegible] Cylinder	G[illegible]	701-21	2[illegible]
Paige	1[illegible] 15	[illegible]	G2P	900-68L	25 50
Paige	1[illegible] 17	[illegible]	M3V	800-15F	[illegible]
Paige	1[illegible] 18 19	[illegible]	M2V	800-28D	[illegible]
Paige	1[illegible] 19	[illegible]	M3V	800-47G	[illegible]
Paige	1[illegible]	[illegible]	G4P	900-2F	[illegible]
Re[illegible]	1916 [illegible] 17	The Fifth	GL2P	900-51A	27 00
Re[illegible]	1[illegible]	The Fifth	GL2P	900-66D	25 50
Re[illegible]	1[illegible]	R & S	G2P	900-58D	23 50
Re[illegible]	1[illegible]	Speed Wagon	GL2P	900-51	27 00
Re[illegible]	1[illegible] 1919	M	GL3P	900-13E	31 50
Re[illegible]	1[illegible] 21	T6	LL3P	900-125C	[illegible]
Saxon	1915	S	G2P	900-117D	25 50
Saxon	1916	S2	G2P	900-118C	25 [illegible]
Saxon	1914 15-16	All 4-Cylinder	M2H	800-42C	[illegible]
Saxon	1917 18-19	S4	M2V	800-38F	22 [illegible]
Studebaker	1913	6-Cylinder	G3P	900-53D	17 00
Studebaker	1914	4-Cylinder	G2P	900-83C	20 50
Studebaker	1916 17 18	6-Cylinder	G3P	900-84L	35 50
Studebaker	1916 17 18	4-Cylinder	GL2P	900-94D	28 50
Studebaker	1914 15	6-Cylinder	G3P	900-95C	36 50
Studebaker	1919	4-Cylinder	GL2P	900-128D	25 [illegible]
Studebaker	1919 21	6-Cylinder	G3P	900-127K	[illegible]
Stearns	1921	Knight	GL4	910-3D	[illegible]
Ve[illegible]	1917 18 19	25 35	M2V	800-39[illegible]	[illegible]
Ve[illegible]	1915 to 1919	[illegible]	M[illegible]	[illegible]	[illegible]
Ve[illegible]	1916 17 18	[illegible]	M[illegible]	[illegible]	[illegible]
Ve[illegible]	1919 20	[illegible]	M2V	800-71K	[illegible]
Ve[illegible]	1920 21	[illegible]	L3P	[illegible]	[illegible]
Willys-Knt.	1916 20	[illegible]	[illegible]	[illegible]	[illegible]
Willys-Knt.	1921	[illegible]	[illegible]	[illegible]	[illegible]
Westcott	1917 18 19	51	M[illegible]	[illegible]	27 [illegible]
Westcott	1919	Light Six	M[illegible]	[illegible]	[illegible]
Westcott	1920 21	Westcott Six	L3P	900-131L	29 50
Winton	1916 17	22A	G4P	900-24H	36 50
Winton	1915 to 1919	21 22	G5P	900-25H	44 50
Winton	1918	22A 33	GL3P	900-130D	31 50
Winton	1920 21	6-25	G4P	906-5	41 25

RAYFIELD CARBURETOR PARTS

MODEL "M" PARTS



Part No.	Description	Each
20-130	Float Lever Pin	$0 03
20-306	Needle Lifter Bearing Pin	05
20-323	Air Valve Cone Lock Pin	05
25-116	Dash Adjustment Eccentric Arm Binding Post Screw	.02
25-142	Needle Bearing Retaining Screw	02
25-144	Dash Adjustment Tubing Holder Retaining Screw	02
25-180	Hot Air Tubing Retaining Screw	02
25-182	Throttle Lever Retaining Screw	02
25-189	Cam Shaft Tubing Holder Retaining Screw	02
25-256	Stop Arm Adjustment Screw	06
25-257	Stop Arm Retaining Screw	.05
25-258	Throttle Butterfly Retaining Screw	.05
25-262	Dash Adjustment Eccentric Arm Retaining Screw	07
25-263	Air Valve Housing Retaining Screw (Lower)	.06
25-265	Low Speed Adjustment Screw	.24
30-100	Window Nut	.16
35-100	Air Valve Housing Retaining Screw Lock Washer	02
36-101	Float Chamber Cover Retaining Screw Lock Washer	02
40-100	Dash Pot Drain Cock	60
40-111	Straight S. A. E. Type Union (only) 5/16 Tubing	40
40-112	S. A. E. Type Nut 5/16-inch Tubing (fit both Elbow and Straight Unions	16
40-134	Straight Compression Type Union Assembly 5/16-inch Tubing	.30
100-1	Dash Pot Cover Gasket	.06
100-4	Inlet Needle Seat Gasket	.02
100-6	Window Nut Gaskets	.02
100-7	Spray Nozzle Gasket	.02

Part No.	Description	Each
100-8	Spray Nozzle Plug Gasket	.02
100-9	Metering Pin Nozzle Gasket	.02
100-102	Strainer Trap Body Gasket	.06
100-103	Strainer Trap Retaining Plug Gasket	.06
201-4-50	Spray Nozzle	.40
201-105	Metering Pin Nozzle	60
203-31	Spray Nozzle Needle Assembly No. 35 Air Holes	75
204-8-2	Throttle Lever 2-inch Extension with Carburetors)	45
204-311	Eccentric Arm Assembly	50
204-312	Eccentric Arm Assembly (MR)	50
205-25	Piston Assembly	1 50
206-215-2	Hot Air Elbow 12" Long 1-inch Tubing	1 10
207-5	Automatic Air Valve Spring	.40
207-204	Metering Pin Adjustment Screw Lock Ball Spring	04
207-302	Metering Pin Spring	.10
207-305	Large Spray Needle Spring	10
207-307	Air Valve Elbow Retaining Spring	.08
207-317	Primer Plunger Spring	.06
208-1-1	Throttle Butterfly (M2 and MR2)	46
208-3-1	Throttle Butterfly (M3 and MR3)	46
208-216-2	Automatic Butterfly Assembly (MR and MR3)	80
208-216-4	Automatic Butterfly Assembly (M2 and MR2)	80
209-4-0	Metering Pin Size O	40
209-11	Metering Pin Sliding Sleeves	20
210-9-4	Float Chamber Tubing Holder Left Hand	.40
210-10-2	Float Chamber Tubing Holder Right Hand MR	40
212-21	Float Cover Assembly Complete	160
212-7	Float Chamber Cover Cap	20
213-3	Float	75
215-6	Gas Inlet Needle Seat	50
216-41	Strainer Trap Body 1/2-inch 20 Male Threads 5/16-inch Tubing	75
216-5-1	Strainer Trap Body 1/8-inch P. T.	.75
216-16	Strainer Trap Gauge	.10
217-1	Gas Inlet Needle	58
217-2	Gas Inlet Needle Cap	06
217-3	Gas Inlet Needle Sleeve and Staple	27
217-5	Gas Inlet Needle Adjustment Screw Staple	02
218-12-2	Back Air Valve Assembly	1 40
218-13	Metering Pin Adjustment Screw	.08
218-18	Air Valve Cone Lock Pin Cap	.08
218-20	Air Valve Cone and Fork Assembly	1 30
218-23	Back Air Valve Housing Assembly 3/32", 5/16" or 11/32" long	1 20
219-1	Float Lever (1")	12
220-16-1	Needle Bearing	.70
220-302	Swivel Ring Pin	.04
221-3	Strainer Trap Body Drain Plug	10
221-5	Dash Pot Cover 1 7/8" 24 V. Threads	.80
221-6	Strainer Trap Retaining Plug (fine thread)	.75
221-11	Spray Nozzle Plug	.14
222-2	Stop Arm Assembly	50
223-1	Stop Arm Ball	06
223-3	Low Speed Adjustment Screw Lock Pawl	06
226-10	Primer Plug	.10
226-11	Primer Plunger Cap	.10
227-7-1	Needle Lifter Arm	.40
230-2-1	Air Valve Ring	1 16
231-43	Automatic Butterfly Shaft	.20
231-44	Throttle Shaft 4" Long (M2 and M3	30
232-401	Automatic Butterfly Fork Rivet	06
232-404	Air Valve Fork Connecting Link Rivet	.04
232-408	Swivel Ring Rivet	02
234-2	Air Valve Fork Connecting Link	.10
235-6	Automatic Butterfly Fork	.14
236-1	Float Chamber Window	02

RAYFIELD CARBURETOR PARTS

MODEL "G." AND "L." PARTS

Part No.	Description	Price
20-100	Brass Cotter Pin (Air Valve Cone to Piston)	$0 03
20-130	Float Lever Pin	03
25-116	Dash Adjustment Eccentric Arm Binding Post Screw	02
25-179	Float Chamber Cover Retaining Screw	02
25-180	Hot Air Tubing Retaining Screw	02
25-182	Float Chamber Cover Priming Cap Retaining Screw	02
25-186	Flushing Pan Retaining Screw	02
25-189	Cam Shaft Tubing Holder Retaining Screw	.02
25-256	Stop Arm Adjustment Screw	.06
25-257	Stop Arm Retaining Screw	.05
25-258	Throttle Butterfly Valve Retaining Screw	05
25-259	Dash Pot Retaining Screw	02
25-260	Priming Cap Lever Pivit Screw	05
25-265	Low Speed Adjustment Screw	24
35-100	Flushing Pan Retaining Screw Lock Washer	02
40-100	Dash Pot Dram Cock	60
40-109	Elbow S. V. E. Type Union Assembly ⅜ inch Tubing	.48
40-111	Straight S. V. E. Type Union (only) ⅜ inch Tubing	40
40-132	Compression Type Nuts ¼ inch Tubing (fit both Elbow and Straight Unions)	.14
40-133	Ferrule ¼ inch Tubing (fit both Elbow and straight Compression Unions)	04
40-134	Straight Compression Type Union Assembly ⅜ inch Tubing	30
40-135	Elbow Compression Type Union Assembly ⅜ inch Tubing	48
100-1	Dash Pot Cover Gasket	06
100-2	Strainer Trap Body Gasket	06
100-3	Strainer Trap Retaining Plug Gasket	$0 06
100-4	Inlet Needle Seat Gasket	02
100-5	Drain Plug Gasket	.06
100-10	Primer Plunger Gasket (at bottom of Primer)	02
201-1	Spray Nozzle	.40
201-106	Metering Pin Nozzle Cap	.16
203-16	Spray Nozzle Needle 1 inch, 30 degrees, 4 Grooves	.40
204-8-2	Throttle Lever 2 inches	.48
204-309	Eccentric Arm Assembly	.90
204-332	Eccentric Arm Assembly (150 degrees R. H.)	.90
205-46	Piston Assembly	1 50
206-107-2	Cam Shaft Air Elbow 90 degrees	90
207-2	Automatic Air Valve Spring	.40
207-204	Low Speed Adjustment Screw Retaining	.04
207-301	Spray Needle Spring	.10
207-302	Metering Pin Spring	.10
207-317	Primer Plunger Spring	.06
208-2-1	Throttle Butterfly (1 inch Carb.)	.40
208-225	Lower Butterfly with Link	.60
209-3	Metering Pin Size O	.40
209-5	Metering Pin Any Size	40
209-11	Metering Pin Sliding Sleeve	.20
210-7	Float Chamber Tubing Holder Right Hand	40
210-12	Cam Shaft, Tubing Holder, Right or Left Hand	50
210-14	Cam Shaft Tubing Holder, Right Hand	40
211-9	Cam Shaft Assembly (G and L 1 inch)	1 80
212-7	Float Chamber Cover Cap	20
212-28	Float Chamber Cover and Disc Assembly	80
213-11	Float	75
214-8-2	Flushing Pans (G 1¾ inches and 2 inches)	50
214-5-2	Flushing Pans (G 1½ inches and 1½ inches	40
215-4	Gas Inlet Needle Seat (G and L 1 inch, 1¼ inches and 1½ inches	50
216-5-1	Strainer Trap Body ⅜ inch P. T.	.75
216-16	Strainer Trap Gauge	10
217-2	Gas Inlet Needle Cap	05
217-3	Inlet Needle Adjusting Sleeve Assembly	27
217-6	Gas Inlet Needle (G and L 1 inch)	75
218-2	Air Valve Cone and Fork Assembly (G and L 1 inch, 1¼ inches and 1½ inches)	1 30
220-6]	Spray Needle Arm Assembly (G and L 1¼ inches and 1½ inches Right Hand)	90
221-3	Water Plug and Strainer Trap Drain Plug	10
221-5	Dash Pot Cover 1⅛ inches, 24 V Threads	80
221-6	Strainer Trap Retaining Plug (fine Thread)	75
221-13	Float Chamber Drain Plug	05
221-19	Float Chamber Drain Plug	50
221-20	Strainer Trap Retaining Plug (Coarse Thread)	.75
222-1	Stop Arm Assembly	.50
223-2	Float Chamber Cover Priming Cap Pawl	.06
223-3	Low Speed Adjustment Screw Lock Pawl	06
226-4	Priming Cap Lever	.30
226-8	Float Chamber Priming Cap Assembly Left Hand	50
226-12	Primer Plunger	30
226-22	Primer Plunger Nut (Used on Carburetors numbered over 532,000)	40
227-15	Needle Lifter (G and L 1 inch)	.30
228-5	Eccentric Arm and Bearing Assembly (GP and LP 150 degrees R. H.)	1 50
229-5	Feed Pipe 1 inch	.12
230-1	Air Valve Ring	1.16
231-36	Lower Butterfly Shaft (G and GL 1 inch)	.20
232-401	Air Valve Link Rivet (Lower)	.06
232-403	Air Valve Link Rivet (Upper)	04
234-1	Lower Butterfly Link	.10

SUNOCO
MOTOR LUBRICANTS
ACCURATE AND EFFICIENT

Sunoco Motor Oil is a product of many years' research by the Sun Company of Philadelphia, one of the oldest and largest refiners of lubricating oils in the world. One of the Sun Company's refineries, located at Marcus Hook, Pa., is the largest refinery in the world devoted exclusively to the manufacture of lubricants.

In offering Sunoco Motor Oil to the automotive trade throughout our territory, Marshall-Wells Company have no hesitation in claiming the use of Sunoco Motor Oil to be the last word in accurate and efficient lubrication. Our investigation of Sunoco was made not only in our chemical laboratories, but in our mechanical laboratories as well, for it is evident that the proof of superiority lies in its mechanical operation in all models of motors. After an exhaustive investigation, covering nearly two years, in which all well known oils were tested, Sunoco was adopted solely on its merits.

Sunoco Motor Oil is a wholly distilled, non-compounded product, free from paraffin, tarry matter and other non-lubricating properties. Practically all other motor oils are mixtures of light oils and heavy, tarry residual cylinder stock.

Sunoco is **pure** because it is distilled.

Sunoco is **uniform** because it is the product of refiners who control the production from the moment it comes from the ground in the crude state until it reaches the dealer. Marshall-Wells Company are constantly checking Sunoco in the laboratories at Duluth to assure this uniformity.

Sunoco shows marked **reduction in friction and drag upon bearings** due to its uniform structure. Sunoco leaves in the cylinders no tarry deposits to interfere with the free action of the piston, one of the chief causes of over-heated motors.

Being free from tarry, gummy cylinder stock, Sunoco burns clean, leaving no tarry residue to collect road dust and contamination, forming the all-too-familiar hard, flinty **carbon**. Sunoco, being wholly distilled, leaves a dry, flaky carbon similar to lamp black, which is readily removed with a soft cloth.

Through the application of the "Sunoco Guide", the proper **Piston Ring Seal** is secured. Due to the elimination of cylinder stock in the process of manufacture, it is possible to use much heavier types of Sunoco than in the use of compounded motor oils. This insures greater heat-resistance, greater compression and power, reduction of crank case dilution and greater economy in both fuel and oil.

Through the elimination of paraffin, Sunoco possesses **cold tests** unsurpassed. When compounded oils are frozen solid, Sunoco will still flow freely. This insures ease in starting the motor, economy in ignition and overcomes the extra-ordinary motor depreciation suffered in cold weather.

Sunoco Absorbs Water! Through this exclusive principle, the natural condensation in motors is rendered harmless, scored cylinders are avoided, all frictional surfaces are protected and free circulation of oils assured at all times; water, the product of condensation, freezing in crank cases and pumps is the primary cause of burned out bearings, cracked crank cases and crank shafts and excessive motor depreciation in cold winter climates.

Sunoco Greases are 100 per cent lubrication.

Sunoco Greases, which include Sunoco Transmission Lubricant, Transmission Grease, and Motor Cup Grease, are made from the same selected stocks as Sunoco Motor Oils. A patented process insures their stability under all conditions. They are absolutely free from alkali, lime, animal fats, rosin and similar substances and will never oxidize. They contain no moisture to dry out and ruin their lubricating value. They contain nothing but the highest quality lubricants.

Sunoco Greases are not affected by high or low temperatures. They give the best of service even at temperatures considerably below zero. This eliminates difficulty in changing gears in the coldest weather, as well as the possibility of gears cutting a channel in the grease, which then ceases to flow and to lubricate. Sunoco Greases have exceptionally high lubricating values and in the warmest climates also maintain the proper working body.

THE SUNOCO GUIDE

The following Guide covers Passenger Cars, Commercial Cars, Tractors, Motorcycles and Marine Engines. It indicates the proper types of Sunoco Motor Oils for the engine, in both summer and winter, and for the transmission and differential. The letters in the Guide refer to the types of Sunoco Motor Oils and Greases, as follows:

L—Light	**XXH**—XX Heavy	*—Engine Oil, used for transmission lubrication	
M—Medium	**S**—Special	)—Motor Cup Grease used for transmission and differential	
H—Heavy	**TL**—Transmission Lubricant		
XH—Xtra Heavy	**TG**—Transmission Grease		

The differentiating point between summer and winter is an average temperature of 30 degrees F. above zero

PASSENGER CARS

NAME OF CAR	1921 Model Engine Summer	1921 Model Engine Winter	1921 Model Transmission	1921 Model Differential	1920 Model Engine Summer	1920 Model Engine Winter	1920 Model Transmission	1920 Model Differential
Abbott	XH	M	TL	TL	XH	M	TL	TL
Allen	XH	M	TL	TL	XH	M	TL	TL
Anderson	XH	M	TL	TL	XH	M	TL	TL
Apperson (8 cyl)	S	H	TL	TL	S	H	TL	TL
Auburn	XH	M	TL	TL	XH	M	TL	TL
Austin					S	H	TL	TL
Briscoe	XH	M	TL	TL	XH	M	TL	TL
Buick	XH	M	TL	TL	XH	M	TL	TL
Bush	XH	H	TL	TL	XH	M	TL	TL
Cadillac	S	H	TL	TL	S	H	TL	TL
Case	XH	M	TL	TL	XH	M	TL	TL
Chalmers	S	H	TL	TL				
Chalmers (6-30)	S	H	TL	TL	S	H	TL	TL
Chandler	H	H	TL	TL	H	H	TL	TL
Chevrolet	M	M	TL	TL	M	M	TL	TL
Chevrolet (F. B.)	XH	M	TL	TL	XH	M	TL	TL
Chevrolet (8 cyl)					S	H	TL	TL
Cleveland	XH	M	TL	TL	XH	M	TL	TL
Cole	S	H	TL	TL	S	H	TL	TL
Colonial Six	XH	M	TL	TL	XH	M	TL	TL
Columbia (Detroit)	XH	M	TL	TL	XH	M	TL	TL
Commonwealth	XH	M	TL	TL	XH	M	TL	TL
Crawford								
Crow Elkhart	XH	M	TL	TL	XH	M	TL	TL
Daniels (8 cyl.)	S	H	TL	TL	S	H	TL	TL
Davis	XH	M	TL	TL	XH	M	TL	TL
Dixie Flyer	XH	M	TL	TL	XH	M	TL	TL
Dodge Brothers	XH	M	TL	TL	XH	M	TL	TL
Dort	XH	M	TL	TL	XH	M	TL	TL
Douglas (8 cyl)	S	H	TL	TL	S	H	TL	TL
Duesenberg (8 cyl)	S	H	TL	TL				
Duryea-Gem					XXH	XH	TL	TL
Elcar	XH	M	TL	TL	XH	M	TL	TL

NAME OF CAR	1921 Model Engine Summer	1921 Model Engine Winter	1921 Model Transmission	1921 Model Differential	1920 Model Engine Summer	1920 Model Engine Winter	1920 Model Transmission	1920 Model Differential
Elgin Six	XH	M	TL	TL	XH	M	TL	TL
Essex	XH	M	TL	TL	XH	M	TL	TL
Fiat	XXH	M	TL	TL	XXH	M	TL	TL
Ford	L	*	TG		L	*	TG	
Franklin	L	H	TL	TL	L	H	TL	TL
Holmes (Air Cooled)	S	H	TL	TL	S	H	TL	TL
Hudson Super Six	XH	M	TL	TL	XH	M	TL	TL
Hupmobile	XH	M	TL	TL	XH	M	TL	TL
Interstate	XH	M	TL	TL				
Jackson	XH	M	TL	TL	XH	M	TL	TL
Jordan	XH	M	TL	TL	XH	M	TL	TL
King	S	H	TL	TL	S	H	TL	TL
Kissel Kar	XH	M	TL	TL	XH	M	TL	TL
Kissel Kar (12 cyl.)	S	H	TL	TL				
Kline Kar	XH	M	TL	TL	XH	M	TL	TL
Lafayette	S	H	TL	TL				
Lexington	XH	M	TL	TL	XH	M	TL	TL
Liberty	XH	M	TL	TL	XH	M	TL	TL
Lincoln	S	H	TL	TL				
Locomobile	S	M	TL	TL	S	M	TL	TL
McFarlan	S	H	TL	TL	S	H	TL	TL
McLaughlin	XH	M	TL	TL	XH	M	TL	TL
Madison								
Marmon	S	H	TL	TL	S	H	TL	TL
Maxwell	XH	M	TL	TL	XH	M	TL	TL
Mercer	S	H	TL	TL	S	H	TL	TL
Metz					XH	M		TL
Mitchell	XH	M	TL	TL	XH	M	TL	TL
Moline-Knight	XXH	XH	TL	TL	XXH	XH	TL	TL
Monitor	XH	M	TL	TL	XH	M	TL	TL
Moon	XH	M	TL	TL	XH	M	TL	TL
Nash	XH	M	TL	TL	XH	M	TL	TL
National	XH	M	TL	TL	XH	M	TL	TL

THE SUNOCO GUIDE (Continued)

PASSENGER CARS

NAME OF CAR	1921 Model Engine Summer	1921 Model Engine Winter	1921 Model Transmission	1921 Model Differential	1920 Model Engine Summer	1920 Model Engine Winter	1920 Model Transmission	1920 Model Differential
Oakland	XH	M	TL	TL	XH	M	TL	TL
Oldsmobile (4 cyl.)	XH	M	TL	TL	XH	M	TL	TL
Oldsmobile (6 cyl.)	XH	M	TL	TL	XH	M	TL	TL
Oldsmobile 8	XH	M	TL	TL	XH	M	TL	TL
Olympian	XH	M	TL	TL	XH	M	TL	TL
Overland Light Four	M	M	*	TG	M	M	*	TG
Packard	S	H	TL	TL	S	H	TL	TL
Paige	XH	M	TL	TL	XH	M	TL	TL
Pan-American	XH	M	TL	TL				
Paterson	XH	M	TL	TL	XH	M	TL	TL
Peerless 8 cyl.	H	H	TL	TL	S	H	TL	TL
Pierce Arrow	S	H	TL	TL	S	H	TL	TL
Premier	S	H	TL	TL	S	H	TL	TL
Ranger Light Four	XH	M	TL	TL	XH	M	TL	TL
Regal					XH	M	TL	TL
Reo	XH	M	TL	TG	XH	M	TL	TG
Roamer	XH	M	TL	TL	XH	M	TL	TL
Roamer (Mod. 4 76 B)	S	H	TL	TL	S	H	TL	TL
Rolls Royce	S	H	TL	TL	S	H	TL	TL
Saxon	XH	M	TG	TG	XH	M	TG	TG
Scripps Booth (4 cy					M	M	TL	TL
Scripps Booth (6 cyl.)	XH	M	TL	TL	XH	M	TL	TL
Seneca					M	M	TL	TL
Stevens-Duryea	XH	M	TL	TL				
Studebaker	XH	M	TL	TL	XH	M	TL	TL
Stutz	S	H	TL	TL	S	H	TL	TL
Templar	XH	M	TL	TL	XH	M	TL	TL
Velie	XH	M	TL	TL	XH	M	TL	TL
Westcott	XH	M	TL	TL	XH	M	TL	TL
White	XH	M	TL	TL	XH	M	TL	TL
Willys-Knight	XXH	XH	TL	TL	XXH	XH	TL	TL
Willys-Knight (6 cyl.)					XH	M	TL	TL
Winton	XH	M	TL	TL	XH	M	TL	TL

COMMERCIAL CARS

NAME OF CAR	1921 Model Engine Summer	1921 Model Engine Winter	1921 Model Transmission	1921 Model Differential	1920 Model Engine Summer	1920 Model Engine Winter	1920 Model Transmission	1920 Model Differential
Ace (All American)	XH	M	TL	TL	XH	M	TL	TL
Acme (Cadillac, Mich.)	XH	M	TL	TL	XH	M	TL	TL
Acme (Cadillac, Mich., 5 Ton)	XXH	H	TL	TL	XXH	H	TL	TL
Autocar (3 cyl.)	XH	M	TL	TL	XH	M	TL	TL
Autocar (3½ and 5 Ton)	S	H	TL	TL	S	H	TL	TL
Avery	XH	M	TL	TL				
Beck	XH	M	TL	TL	XH	M	TL	TL
Bessemer	XH	M	TL	TL	XH	M	TL	TL
Beth ehem	XH	M	TL	TL	XH	M	TL	TL
Bethlehem (2½ Ton								
Chevrolet	XH	M	TL	TL	XH	M	TL	TL
Clydesdale	XH	M	TL	TL	XH	M	TL	TL
Clydesdale (1½ Ton)	XH	H	TL	TL	XH	H	TL	TL
Commerce	XH	M	TL	TL	XH	M	TL	TL
Cunningham (V-42)	S	H	TL	TL	S	H	TL	TL
Dart	XH	M	TL	TL	XH	M	TL	TL
Dart (2 and 3½ Ton)	S	H	TL	TL	S	H	TL	TL
Dart (Maxim)	XH	M	TL	TL	XH	M	TL	TL
Dart (Maxim 2 and 3½ Ton)	S	H	TL	TL	S	H	TL	TL
Day-Elder	XH	M	TL	TL	XH	M	TL	TL
Day-Elder (2½ and 3 Ton)	S	H	TL	TL	S	H	TL	TL
Dayton	XH	M	TL	TL	XH	M	TL	TL
Dearborn	XH	M	TL	TL	XH	M	TL	TL
Diamond T	S	H	TL	TL	S	H	TL	TL
Dodge Brothers	XH	M	TL	TL	XH	M	TL	TL
Dorris	XH	M	TL	TL	XH	M	TL	TL
Douglas	XH	M	TL	TL	XH	M	TL	TL
Federal	XH	M	TL	TL	XH	M	TL	TL
Ford	M	*	TL	TL	M	*	TL	TL
Four Wheel Drive	S	H	TL	TL	S	H	TL	TL
Garford	S	H	TL	TL	S	H	TL	TL
G. M. C	S	H	TL	TL	XH	M	TL	TL
Giant (Using Kerosene	S	H	TL	TL	S	H	TL	TL
Giant	XH	M	TL	TL	XH	M	TL	TL
Grant	XH	M	TL	TL	XH	M	TL	TL
Hall Detroit	XH	M	TL	TL	XH	M	TL	TL
Harvey	S	H	TL	TL	S	H	TL	TL
Kelly Springfield	S	H	TL	TL	S	H	TL	TL
Klasel								
Knox (Model 35)	S	H	TL	TL	S	H	TL	TL
La France	XH	M	TL	TL	XH	M	TL	TL
Luverne					XH	M	TL	TL
Mack	S	H	TL	TL	S	H	TL	TL
Master	S	H	TL	TL	S	H	TL	TL
Maxwell	XH	M	TL	TL	XH	M	TL	TL
Menominee	XH	M	TL	TL	XH	M	TL	TL
Menominee (5 Ton)					S	H	TL	TL
H. H. C. (Water, 4 cyl.)	XH	M	TL	TL	XH	M	TL	TL
Nash (Quad)	S	H	TL	TL	S	H	TL	TL
Nash (Model 6T6)								
Nelson Le Moon	XH	M	TL	TL	XH	M	TL	TL
Nelson Le Moon (5 Ton)	XXH	H	TL	TL	XXH	H	TL	TL
Northwestern	XH	M	TL	TL	XH	M	TL	TL
Ogden	XH	M	TL	TL	XH	M	TL	TL
Oldsmobile	XH	M	TL	TL	XH	M	TL	TL
Oneida	XH	M	TL	TL	XH	M	TL	TL
One da (5 Ton)	XH	M	TL	TL	XH	M	TL	TL
Oshkosh	XH	M	TL	TL	XH	M	TL	TL
Overland	XH	M	TL	TL	XH	M	TL	TL
Packard	S	H	TL	TL	S	H	TL	TL
Paige	XH	M	TL	TL	XH	M	TL	TL
Peerless								
Pierce Arrow	S	H	TL	TL	S	H	TL	TL
Reo	XH	M	TL	TL	XH	M	TL	TL
Republic	XH	M	TL	TL	XH	M	TL	TL
Sanford	XH	M	*	*	XH	M	TL	TL
Stewart	XH	M	TL	TL	XH	M	TL	TL
Standard	XH	M	TL	TL	XH	M	TL	TL
Twin City	S	H	TL	TL				
United (Mich.) 3½ Ton	S	H	TL	TL	S	H	TL	TL
United (Mich.) 4 Ton	XH	M	TL	TL	XH	M	TL	TL
United F. W. D. (6 cyl.)	S	H	TL	TL				
U. S.	XH	M	TL	TL	XH	M	TL	TL
Velie	XH	M	TL	TL	XH	M	TL	TL
White	S	H	TL	TL	S	H	TL	TL
White (⅜ 1, 1½ Ton)	XH	M	TL	TL	XH	M	TL	TL
White Hickory	XH	M	TL	TL	XH	M	TL	TL
Wilcox	XH	M	TL	TL	XH	M	TL	TL

TRACTORS

NAME OF TRACTOR	1921 Model Summer	1921 Model Winter	1920 Model Summer	1920 Model Winter
Acme	XXH	XH	XXH	XH
Allis-Chalmers	XXH	XH	XXH	XH
Allis Chalmers (Gen ra. P. pose)			S	S
Appleton	XXH	XH	XXH	XH
Aultman-Taylor	XXH	XH	XXH	XH
Aultman-Taylor (18-36)				
Aultman-Taylor (22-45)	XXH	XH	XXH	XH
Aultman-Taylor (L 30 Wa kes a	S	H	S	H
Avery	XXH	XH	XXH	XH
Avery (5-10 HP)	S	H	S	H
Bates Steel Mule	XXH	XH	XXH	XH
Beeman Garden Tractor	S	H	S	H
Case			XXH	XH
Case (8-18)				
Case (9 20)				
Case (12 25)				
Case (20 40)				
Cleveland (Co'trac)	XXH	XH	XXH	XH
Emerson Brantingham	XXH	XH	XXH	XH
Fageol	XXH	XH	XXH	XH
Farm Boy				
Flour City	XXH	XH	XXH	XH
Fordson	S	S	S	S
Galloway	XXH	XH	XXH	XH
Gray	S	H	S	H
G. M. C. Samson Sieve Grip	XXH	XH	XXH	XH
Happy Farmer				
Hart Parr	XXH	XH	XXH	XH
He der	XXH	XH	XXH	XH
Heider Motor Cultivator	S	H		
Holt Caterpillar	XXH	XH	XXH	XH
Huber	XXH	XH	XXH	XH
International	XXH	XH	XXH	XH
La Crosse	XXH	XH	XXH	XH
Little Giant	XXH	XH	XXH	XH
Minneapolis	XXH	XH	XXH	XH
Mogul	XXH	XH	XXH	XH
Moline Universal	S	H	S	H
New Age	XXH	XH	XXH	XH
Nilson	S	H	S	H
O l Pull (Rumely Co)	XXH	XH	XXH	XH
Oliver				
Parrett	XXH	XH	XXH	XH
Peoria	XXH	XH	XXH	XH
Port Huron	XXH	XH	XXH	XH
Post (Model D)	S	H	S	H
Samson	XXH	XH	XXH	XH
Simplex				
Titan	XXH	XH	XXH	XH
Toro	S	H		
Twin City	XXH	XH	XXH	XH
Velie	XXH	XH	XXH	XH
Wall s Club (Junior)	XXH	XH	XXH	XH
Waterloo Boy	S	H	S	H

MOTORCYCLES

Ace	S	H	S	H
Autoped	XXH	XH	XXH	XH
Cleveland	XXH	XH	XXH	XH
Cyc emotor	XXH	XH	XXH	XH
Dayton				
Dayton Motor Bicycle				
Emblem (2 V)	XXH	XH	XXH	XH
Evans				
Excelsior	S	XH	S	XH
Excelsior (Lightweight)				
Harley Davidson	XXH	XH	XXH	XH
Henderson	S	XH	S	XH
Indian (2 cyl.)				
Indian (2 cyl.)	XXH	XH	XXH	XH
Iver Johnson	XXH	XH	XXH	XH
Merkel Motor Wheel (New York)				
Militor				
Moore				
Paramount				
Pope				
Reading Standard	XXH	XH	XXH	XH
Schickel	XXH	XH	XXH	XH
Smith (Motor Wheel)	S	XH	S	XH
Thor (2 cyl.)	XXH	XH	XXH	XH
Yankee (Lightweight)	XXH	XH	XXH	XH

SUNOCO MOTOR OIL

SELLING SCHEDULE

When dealer shall have taken out the named quantities or more he is entitled to rebate, as follows:

250 Gallon Sunoco Motor Oil, rebate	$0.01 per Gallon
500 Gallon Sunoco Motor Oil, rebate	.02 per Gallon
1000 Gallon Sunoco Motor Oil, rebate	.03 per Gallon
1750 Gallon Sunoco Motor Oil, rebate	.04 per Gallon
3000 Gallon Sunoco Motor Oil, rebate	.05 per Gallon

When any of above Oils and Greases are delivered in bulk, less Barrel, Packages or Cases, an aggregate of 50 gallons of Oil or 400 pounds of Grease is equivalent to one barrel and will apply accordingly on the above Quantity Discount

C LIST PRICES

Applying to Wisconsin, Michigan, Minnesota, North Dakota and South Dakota

MOTOR OILS

IN NON-RETURNABLE YELLOW BAND STEEL DRUMS

For Cylinders	50 Gal. Drums, per Gallon	30 or 15 Gal. Drums, per Gallon
Light	$0.96	$1.02
Medium	.99	1.05
Heavy	1.05	1.11
X Heavy	1.11	1.17
XX Heavy	1.14	1.20
Special	1.14	1.20
For Steam Cars		
Steam Car Special	1.11	1.17

IN CASES; LITHOGRAPHED CANS

For Cylinders	Two 5 Gal. Cans, Per Case	One 5 Gal. Can, Per Case	Six 1 Gal. Cans, Per Case
Light	$11.70	$6.10	$ 8.46
Medium	12.00	6.25	8.82
Heavy	12.60	6.55	9.36
X Heavy	13.20	6.85	9.72
XX Heavy	13.50	7.00	10.02
Special	13 50	7.00	10.02
For Steam Cars			
Steam Car Special	13.20	6.85	9.72

IN NON-RETURNABLE YELLOW BAND STEEL DRUMS

15 Gallons, add per Package, Net	Per Drum ..$1.00
50 and 30 Gallon Drums	....No Extra Charge

SUNOCO MOTOR GREASES

For Transmission and Differential

	Barrels, per Pound	½ Barrels, per Pound	100 Lb. Kegs, per Pound	In Lithographed Cans: Two 25 Lb. Cans, per Case	One 25 Lb. Can, per Case	12 Five Lb. Cans, per Case	36 One Lb. Cans, per Case
Sunoco Transmission Lubricant	$0.14	$0.15	$0.17	$10 75	$5.50	$13.80	.....
Sunoco Transmission Grease	.17	.18	.20	12.25	6.50	16.20	.....
For All Grease Cups and Wheel Bearings							
Sunoco Motor Cup Grease	.17	.18	.20	12.25	6.50	16.20	11.52

E LIST PRICES

Applying to Colorado, Utah, Montana, Idaho, Wyoming, Washington and Oregon

MOTOR OILS

IN NON-RETURNABLE STEEL DRUMS

For Cylinders	50 Gal. Drums, per Gallon	30 or 15 Gal. Drums, per Gallon
Light	$1 06	$1.11
Medium	1.08	1.14
Heavy	1.14	1.20
X Heavy	1.20	1.26
XX Heavy	1 23	1 29
Special	1.23	1.29
For Steam Cars		
Steam Car Special	1.20	1.26

IN CASES; LITHOGRAPHED CANS

For Cylinders	Two 5 Gal. Cans, Per Case	One 5 Gal. Can, Per Case	Six 1 Gal. Cans, Per Case
Light	$17 60	$6.55	$ 9.13
Medium	12.90	6.70	9.54
Heavy	13.50	7.00	10.02
X Heavy	14 10	7.30	10.38
XX Heavy	14.40	7.45	10.56
Special	14.40	7.45	10.56
For Steam Cars			
Steam Car Special	14.10	7.30	10.38

IN NON-RETURNABLE YELLOW BAND STEEL DRUMS

15 Gallons, add per Package, Net	Per Drum ..$1.00
50 and 30 Gallon Drums	.No Extra Charge

SUNOCO MOTOR GREASES

For Transmission and Differential

	Barrels, per Pound	½ Barrels, per Pound	100 Lb. Kegs, per Pound	In Lithographed Cans: Two 25 Lb. Cans, per Case	One 25 Lb. Can, per Case	12 Five Lb. Cans, per Case	36 One Lb. Cans, per Case
Sunoco Transmission Lubricant	$0.16	$0.17	$0 19	$11.75	$6.00	$15 00	
Sunoco Transmission Grease	.19	.20	.22	13.25	7.00	17.40	
For All Grease Cups and Wheel Bearings							
Sunoco Motor Cup Grease	.19	.20	.22	13.25	7.00	17.50	12 24

When any of the above Oils are delivered in Bulks, a Differential of 4 cents per Gallon will be allowed from Wood Barrel prices. When Motor Oils and Greases are delivered they are subject to a delivery charge according to zone

SELF-MEASURING PUMP TANKS

	Each
No. P3991A—Sunoco Self Measuring Pump Tanks, F. O. B. Duluth or Minneapolis	$45.00
No. P3991B—Portable Wheel Base for above; F. O. B Duluth or Minneapolis	9 00

GUIDE TO EFFICIENT LUBRICATION

PASSENGER, COMMERCIAL CARS AND TRACTORS

General Recommendations—It is important that the oil be fed into the Motor, Transmission and Differential so that the level prescribed by the manufacturers will be maintained. To do this oil leaks the efficiency of the lubrication, both in matter of forming the proper film, and in providing sufficient volume to properly perform the important function of cooling.

After the first 500 miles running of a new Automobile, or first 10 hours of a new Tractor, all oil should be drained from the Motor, Transmission and Differential and the cases thoroughly washed out with about two quarts of fresh oil (amount varying according to size of case). Then after draining off all the washing oil, fill the case to exactly the proper level prescribed by the manufacturer with the grade of Zenoil Lubricants recommended below. This operation should be repeated every 1000 miles in the Motor and every 5000 miles in the Transmission and Differential.

Oil should be fed to the Motor every 100 miles and to the Transmission and Differential every 500 miles.

Steering Column—Where case is oil-tight, use Zenoil No. 18; Otherwise use No. 43.

Steering Connections; Use Zenoil No. 43.

Water Pump Bearings, Grease Cups on Motor—Use Zenoil No. 43.

Chains, Open, use Zenoil No. 18; Enclosed, use Zenoil No. 10.

Grease Cups except on Motor—Use Zenoil No. 43

Magnetos and Commutators—Use Zenoil No. 61.

Timing Gears—Where separate lubrication is possible by separate, unconnected tight case use Zenoi l No. 18 If case is leaky use Zenoil No. 41.

Wheels—Use Zenoil No. 43. Universal Joints, use Zenoil No. 43.

General Lubrication of Parts by Hand Oil Can, such as Spring Bolts, Brake Rods, Clutch and Brake Pedals, etc. Summer, Use Zenoil No. 14; Winter, use 75% Zenoil No. 14, and 25% Kerosene

The numbers opposite each name indicate the most efficient grade of Zenoil Lubricants, as follows:

No. 2—Light Body	No. 14—Transmission Oil.
No. 3—Medium Body	No. 18—Worm Gear Oil
No. 6—Heavy Body.	No. 35—Steam Cylinder Oil.
No. 7—Special Heavy.	No. 43—Medium Plain Grease.
No. 8—Medium Extra Heavy Body.	No. 61—Gun Oil
No. 10—Extra Heavy Body.	

* indicates Oil Supplied from Motor.

PASSENGER CARS	1921 Motor Summer	1921 Motor Winter	1921 Transmission	1921 Differential	1920 Motor Summer	1920 Motor Winter	1920 Transmission	1920 Differential
	Zenoil Nos.							
Allen	6	6	14	14	6	6	14	14
American Beauty	6	6	14	14	7	6	14	14
American Six	6	6	14	14	6	6	14	14
Anderson	6	6	14	14	6	6	14	14
Apperson	6	6	14	14	6	6	14	14
Auburn	6	6	14	14	6	6	14	14
Biddle	7	6	14	14	7	6	14	14
Brisco	6	6	14	14	6	6	14	14
Buick	6	6	14	14	6	6	14	14
Cadillac	6	6	14	14	6	6	14	14
Cameron	6	6	14	14	6	6	14	14
Case	6	6	14	14	6	6	14	14
Chalmers	7	6	14	14	7	6	14	14
Chandler Six	6	6	14	14	6	6	14	14
Chevrolet	7				7			
Chevrolet 6 Cylinder	7				7			
Chevrolet F B	7				7	6	14	14
Cole 8 Cylinder	6	6	14	14	6	6	14	14
Colonial	6	6	14	14	6	6	14	14
Comet	6	6	14	14	6	6	14	14
Commonwealth	6	6	14	14	6	6	14	14
Crawford	6	6	14	14	6	6	14	14
Crow Elkhart	6	6	14	14	6	6	14	14
Cunningham	6	6	14	14	6	6	14	14
Dan Patch	6	6	14	14	6	6	14	14
Davis	6	6	14	14	6	6	14	14
Dixie Flyer	7	6	14	14	7	6	14	14
Dodge	4	4	14	14	4	4	14	14
Dorris	6	6	14	14	6	6	14	14
Dort	6	6	14	14	6	6	14	14
Douglas	6	6	14	14	6	6	14	14
Elcar	6	6	14	14	6	6	14	14
Elgin	6	6	14	14	6	6	14	14
Empire	6	6	14	14	6	6	14	14
Essex	4	4	14	14	4	4	14	14
Federal	6	6	14	14	7	6	14	14
Fiat (Italian)	7	6	14	14	7	6	14	14
Ford	6	6	14	14	6	6	14	14
Franklin	6	6	14	14	6	6	14	14
Gide	6	6	14	14	6	6	14	14
Grant	7	6	14	14	7	6	14	14
Geronima	6	6	14	14	6	6	14	14
Harroun	6	6	14	14	6	6	14	14
Hanson Six	6	6	14	14	6	6	14	14
Haynes, Model 12 (6 Cylinder)	6	6	14	14	6	6	14	14
Holmes (Air Cooled)	6	6	14	14	6	6	14	14
Hudson Super Six	6	6	14	14	6	6	14	14
Huffman	6	6	14	14	6	6	14	14
Hupmobile	6	6	14	14	6	6	14	14
Jones	6	6	14	14	6	6	14	14
Jordan	6	6	14	14	6	6	14	14
King, 8 Cylinder	6	6	14	14	6	6	14	14
Kissel Kar	7	6	14	14	7	6	14	14
Kline Kar	6	6	14	14	6	6	14	14
Lafayette	6	6	14	14	6	6	14	14
Lexington	6	6	14	14	6	6	14	14
Liberty (Detroit)	6	6	14	14	6	6	14	14
Locomobile	6	6	14	14	6	6	14	14
Marmon	7	6	14	14	6	6	14	14
Maxwell	6	6	14	14	6	6	14	14
Mercer	7	6	14	14	7	6	14	14
Metz	6	6	14	14	6	6	14	14
Mitchell	6	6	14	14	6	6	14	14
Moline Knight	6	6	14	14	6	6	14	14
Monitor	6	6	14	14	6	6	14	14
Monroe	6	6	14	14	6	6	14	14
Moon	6	6	14	14	6	6	14	14
Nash	6	6	14	14	6	6	14	14
National 1, 6, 12 Cyl	6	6	14	14	6	6	14	14
Oakland	6	6	14	14	6	6	14	14
Oldsmobile 6	6	6	14	14	6	6	14	14
Oldsmobile 8	7	6	14	14	7	6	14	14
Olympic	6	6	14	14	6	6	14	14
Overland	6	6	14	14	6	6	14	14
Owen Magnetic	6	6	14	14	6	6	14	14
Packard	6	6	14	14	6	6	14	14
Paige	6	6	14	14	6	6	14	14
Peerless	7	6	14	14	7	6	14	14
Pierce Arrow	6	6	14	14	6	6	14	14
Pilot	6	6	14	14	6	6	14	14
Premier	6	6	14	14	6	6	14	14
Pullman	6	6	14	14	6	6	14	14
Ranger	7	6	14	14	7	6	14	14
Reo	6	6	14	14	6	6	14	14
Revere	6	6	14	14	6	6	14	14
Roamer	7	6	14	14	7	6	14	14
Saxon	6	6	14	14	6	6	14	14
Scripps Booth	6	6	14	14	6	6	14	14

PASSENGER CARS	1921 Motor Summer	1921 Motor Winter	1921 Transmission	1921 Differential	1920 Motor Summer	1920 Motor Winter	1920 Transmission	1920 Differential
	Zenoil Nos.							
Standard	7	6	14	14	7	6	14	14
Stearns-Knight	10	6	14	14	10	6	14	14
Stevens Duryea	6	6	14	14	6	6	14	14
Stevens Salient Six	7	6	14	14	7	6	14	14
Studebaker	6	6	14	14	7	6	14	14
Stutz	7	6	14	14	7	6	14	14
Templar	6	6	14	14	6	6	14	14
Velie	6	6	14	14	6	6	14	14
Wescott	6	6	14	14	6	6	14	14
White	6	6	14	14	6	6	14	14
Willys-Knight	6	6	14	14	6	6	14	14
Willys Six	6	6	14	14	10	6	14	14
Winton	7	6	14	14	7	6	14	14
COMMERCIAL CARS								
Acason, 1 And 1½ Ton	7	6	14	14	7	6	14	14
All Other Models	10	6	14	14	8	6	14	14
Acme, 2½ to 5 Tons	8	6	14	14	8	6	14	14
Acme, Ton	6	6	14	14	6	6	14	14
Ahrens Fox	8	6	14	14	8	6	14	14
All-American	7	6	14	14	7	6	14	14
All Power	7	6	14	14	7	6	14	14
Atco	6	6	14	14	6	6	14	14
Atlas M 21	6	4	14	14	6	4	14	14
Available	6	6	14	14	6	6	14	14
Avery	6	6	14	14	6	6	14	14
Bellmont	6	6	14	14	6	6	14	14
Bessemer	6	4	14	14	8	4	14	14
Betz	6	6	14	14	6	6	14	14
Birch	6	6	14	14	6	6	14	14
Brenton	6	6	14	14	6	6	14	14
Champion	6	4	14	14	6	4	14	14
Chicago	6	6	14	14	6	6	14	14
Clydedale	6	6	14	14	6	6	14	14
Concord	6	6	14	14	8	6	14	14
Cook	8	7	14	14	8	7	14	14
Dart	6	6	14	14	6	6	14	14
Dart 2½ and 3 Ton	7	6	14	14	7	6	14	14
Dearborne	7	6	14	14	7	6	14	14
Dependable	6	6	14	14	6	6	14	14
Doane	8	7	14	14	8	7	14	14
Double Drive	8	6	14	14	8	6	14	14
Dupex	7	6	14	14	7	6	14	14
Erie 5 Ton	7	6	14	14	7	6	14	14
Federal, Models S and X	7	6	14	14	7	6	14	14
Federal Worm Drives	6	6	14	14	6	6	14	14
Four Wheel Drive	7	6	14	14	7	6	14	14

COMMERCIAL CARS	1921 Motor Summer	1921 Motor Winter	1921 Transmission	1921 Differential	1920 Motor Summer	1920 Motor Winter	1920 Transmission	1920 Differential
	Zenoil Nos.							
Fulton	6	6	14	14	6	6	14	14
Garford, 1 to 2 Tons	7	6	14	14	7	6	14	14
Garford, 3½ to 6 Tons	8	7	14	14	8	7	14	14
Gary	6	6	14	14	6	6	14	14
G. M. C.	7	6	14	14	7	6	14	14
Graham	7	6	14	14	7	6	14	14
Harvey	6	6	14	14	6	6	14	14
Hawkeye	6	6	14	14	6	6	14	14
Hendrickson, 1 and 1½	8	7	14	14	8	7	14	14
Independent, 1 Ton	6	4	14	14	6	4	14	14
Independent 1½ to 2 Ton	7	6	14	14	7	6	14	14
International	7	6	14	14	7	6	14	14
Keystone	7	6	14	14	7	6	14	14
Kimba	7	6	14	14	7	6	14	14
King Commercial	6	6	14	14	6	6	14	14
Kissel Commercial	7	6	14	14	7	6	14	14
Kline Kar	6	6	14	14	6	6	14	14
Locomobile Commercial	7	6	14	14	7	6	14	14
Mack	7	6	14	14	7	6	14	14
Master, ½ Ton	6	6	14	14	7	6	14	14
Master, 1 Ton	10	8	14	14	10	8	14	14
Menominee	8	6	14	14	8	6	14	14
M H C, 10-1	7	6	14	14	7	6	14	14
Mutual	10	6	14	14	10	6	14	14
Napolean	7	6	14	14	7	6	14	14
Noble	8	7	14	14	8	7	14	14
Northway	6	6	14	14	6	6	14	14
Old Reliable, ½ to 5	10	8	14	14	10	8	14	14
O. K.	8	7	14	14	8	7	14	14
Parker	10	6	14	14	10	6	14	14
Piedmont All Models	6	4	14	14	6	4	14	14
Pierce Arrow	6	6	14	14	6	6	14	14
Pioneer	6	6	14	14	6	6	14	14
Reliance	7	6	14	14	7	6	14	14
Republic, 1 and 1½ Ton	6	6	14	14	6	6	14	14
Rock Falls	6	6	14	14	6	6	14	14
Service	8	7	14	14	8	7	14	14
Sterling	7	6	14	14	7	6	14	14
Titan	8	7	14	14	8	7	14	14
Twin City, F W D	6	4	14	14	6	4	14	14
United Michigan	8	7	14	14	8	7	14	14
Walters	8	7	14	14	8	7	14	14
Ward LaFrance	8	7	14	14	8	7	14	14
Watson	6	6	14	14	6	6	14	14
Wescott	6	6	14	14	6	6	14	14
Wichita, 1½ to 3	7	6	14	14	7	6	14	14
Wichita, 3, 5, 5½, 6 Ton	10	8	14	14	10	8	14	14
White, 1½, 1½A and 2D	6	4	14	14	6	4	14	14

TRACTORS

Steering Columns—Where case is tight—Use No. 18, Otherwise use No. 43; **Steering Connections**—Use No. 43; **Wheels**—Use No. 43; **Magnetos and Commutators**—Use No 61; **Universal Joints**—Use No 43, Chains Open—Use No. 18, Enclosed—Use No 10, **Timing Gears**—Where separate lubrication is possible by separate, unconnected case—Use No 18 if case is tight, or No 47 if case is leaky

Transmissions—In oil-tight, separate case—Use No. 14 in separate but not oil-tight case, or Semi-Worm Gear Differential—Use No. 43, In same case as Worm Gear Differential—Use No. 18.

Different ials—Using Bevel or Semi-Worm Gears, separate or connected with Transmission, case oil-tight—Use No. 14; Using Bevel or Semi-Worm Gears, separate or connected with Transmission, case not oil-tight—Use No. 43; Having Worm Gear, separate or connected with Transmission—Use No. 18.

Water Pump Bearings, Grease Cups on Motor—Use No. 47, Grease Cups, except on Motor—Use No. 43, General Lubrication of parts by Hand Oil Can, such as Spring Bolts, Brake Rods, Clutch and Brake Pedals, etc Summer, use No. 14, Winter, use 75% No. 14, mixed with 25% Kerosene

TRACTORS	1921 S	1921 W	1921 T	1921 D	1920 S	1920 W	1920 T	1920 D
	Zenoil Nos.							
Allis Chalmers	7	6	14	14	7	6	14	14
Aultman-Taylor	10	8	14	14	10	8	14	14
Avery, 6 Cyl. and Cultivator	8	7	14	14	8	7	14	14
Bates Steel Mule	8	7	14	14	8	7	14	14
Beeman	8	7	14	14	8	7	14	14
Case	8	7	14	14	8	7	14	14
Case, 12-25 and 20-40	10	8	14	14	10	8	14	14
Chase	8	7	14	14	8	7	14	14
Cleveland (Cletrac)	8	7	14	14	8	7	14	14
Copeman	10	8	14	14	10	8	14	14
Craig	10	8	14	14	10	8	14	14
Dakota	8	7	14	14	8	7	14	14
Eagle	10	8	14	14	10	8	14	14
Emerson-Brandingham	8	7	14	14	8	7	14	14
Fordson	8	7	14	14	8	7	14	14
Gray	8	7	14	14	8	7	14	14
Holt Caterpillar	10	8	14	14	10	8	14	14
I H C, 8-16	8	7	14	14	8	7	14	14

TRACTORS	1921 S	1921 W	1921 T	1921 D	1920 S	1920 W	1920 T	1920 D
	Zenoil Nos.							
I H C, 15-30	8	7	14	14	8	7	14	14
LaCrosse	10	8	14	14	10	8	14	14
Little Giant (Minneapolis)	10	8	14	14	9	8	14	14
Master	8	7	14	14	8	7	14	14
Monarch	8	7	14	14	8	7	14	14
Oil Pull	10	8	14	14	9	8	14	14
Ponsgeer	8	7	14	14	8	7	14	14
Rumley	10	8	14	14	9	8	14	14
Sampson	8	7	14	14	8	7	14	14
Steady Pull	8	7	14	14	8	7	14	14
Superior	10	8	14	14	9	8	14	14
Trundaar	10	8	14	14	10	8	14	14
Austin	10	8	14	14	10	8	14	14
Automotive	8	7	14	14	8	7	14	14
Boring	8	7	14	14	8	7	14	14
Bull Dog	10	8	14	14	10	8	14	14
Creeping Grip	8	7	14	14	8	7	14	14

Torrington,

THE TORRINGTON Electric Cleaner answers every demand—fulfills every requirement of a discriminating housewife. It does its work quickly and thoroughly. It is light and easy to operate, wonderfully economical in current consumption, and with its attachments, provides every facility for thorough home cleanliness.

The motor is used solely to produce powerful suction that reaches deep into the rug for imbedded dirt. The big brush operating naturally like a carpet sweeper, gets all the surface litter, lint, and ravelings.

And it does it without injury to the rug.

Made of highly polished nickeled steel. 25 feet of portable cord. Switch conveniently located in the handle. Endorsed by Good Housekeeping, Fire Underwriters, and every other appliance testing laboratory.

Torrington's unusually powerful suction renders these cleaning tools really efficient in 40 household uses:

1 Covered hose—8 ft. long for using attachments.
2 Extension handle—for reaching high places.
3 Brush—for cleaning clothing, walls, etc.
4 Blower—for connecting hose to exhaust of cleaner.
5 Tool—for cleaning radiators, books, etc., and for blowing
6 Nozzle—for cleaning draperies, upholstery, etc.
7 Nipple—for connecting hose and attachments.
12 Connector—for connecting hose with cleaner.

Each $55.00
Attachments. Per Set . . 9.75

GILLETTE SAFETY RAZORS AND BLADES

STANDARD RAZOR

Genuine leather case, purple lined

No. 460. Triple silver plated razor, leather case and blade boxes to match case .....each, **$5.00**

No. 460G. Same as above, with gold plated razor and gold plated blade boxes .....each, **$6.00**

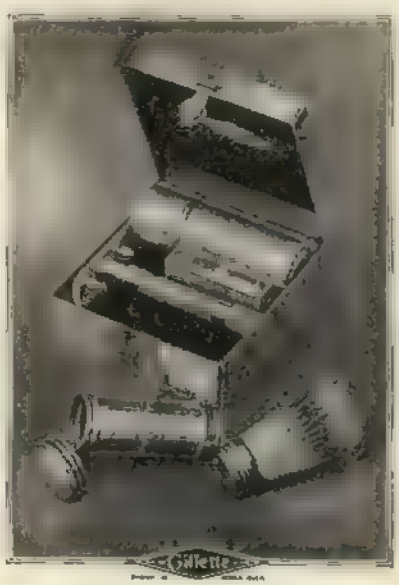
Above sets contain 24 shaving edges, 12 double edged Gillette blades

STANDARD RAZOR

Metal case, purple lined

No. 460B. Triple silver plated razor, nickel plated case and blade boxes to match case .....each, **$5.50**

Above sets contain 24 shaving edges; 12 double edged Gillette blades; in metal box plated to match case



COMBINATION SET

Metal case, purple lined

No. 461B. Triple silver plated razor, collapsible shaving brush and stick Gillette shaving soap in nickel plated holders, nickel plated blade box.....each, **$7.50**

Above sets contain 24 shaving edges; 12 double edged Gillette blades

BULLDOG

Genuine leather case, purple lined; heavy, stocky handle.

Preferred by many old and new Gillette users.

Triple silver plated razor and blade boxes to match case.....each, **$5.00**

Bulldog "G" gold plated razor and gold plated blade boxes..each, **$6.00**

Above sets contain 24 shaving edges; 12 double edged Gillette blades

MILADY DÉCOLLETÉ GILLETTE

Special set for ladies

To keep the underarm white and smooth

14K. Gold plated razor and blade box, French ivory case, lined with old rose velvet and satin..each, **$6.00**

Above sets contain 24 shaving edges; 12 double edged Gillette blades

ARISTOCRAT

French ivory case, purple lined

Beautifully modeled on lines of refined simplicity. Especially desirable for gift purposes.

Triple silver plated razor and blade boxes to match case.....each, **$6.00**

Aristocrat "G" gold plated razor and gold plated blade boxes.....each, **$7.00**

Above sets contain 24 shaving edges; 12 double edged Gillette blades

GILLETTE SAFETY RAZORS AND BLADES

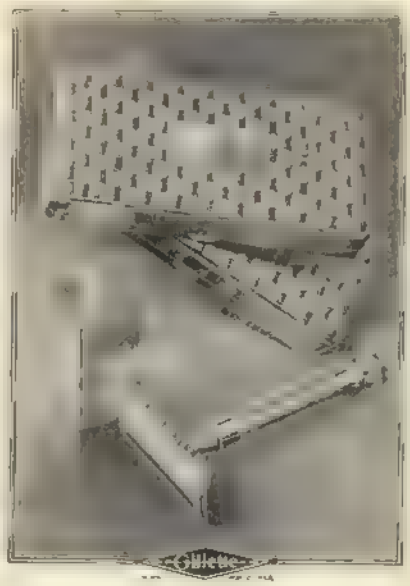
POCKET EDITION

Plain case, velvet lined

No. 500. Triple silver plated razor and case and nickel plated blade box .....each, **$5.00**

No. 500B. Gold plated razor, gold plated case and blade box .....each **$6.00**

Above sets contain 24 shaving edges; 12 double edged Gillette blades



POCKET EDITION

Basket pattern case, velvet lined

No. 501. Triple silver plated razor and case and nickel plated blade box .....each, **$5.00**

No. 501B. Gold plated razor, gold plated case and blade box. .....each, **$6.00**

Above sets contain 24 shaving edges; 12 double edged Gillette blades

STANDARD COMBINATION SET

Genuine leather case

No. 00. Triple silver plated razor, shaving brush and stick, Gillette shaving soap in nickel plated holders; blade boxes to match case .....each, **$7.50**

Above sets contain 24 shaving edges; 12 double edged Gillette blades

BULLDOG COMBINATION

Genuine leather case

No. 17. Consists of Bulldog type triple silver plated razor, shaving stick and shaving brush in nickel plated holders; indestructible metal mirror fitted into pocket in lid; all contained in a leather case .....each, **$8.00**

No. 17G. Same style as above, gold plated razor and fittings. each, **$10.00**

Above sets contain 24 shaving edges; 12 double edged Gillette blades

THE BIG FELLOW

Beautiful gum wood case with soft lusterless finish. The man's size razor for a man's size fist. Twice as heavy as any other model of Gillette. Takes same size Gillette blade.

Big Fellow. Triple silver plated razor and metal blade box, each, **$5.00**

Big Fellow. "G" gold plated razor and gold plated blade box, each, **$6.00**

Above sets contain 24 shaving edges; 12 double edged Gillette blades

GILLETTE BLADES

Each double edged blade is placed in an individual envelope and put up in a sealed packet of either six or twelve blades.

Ten packets of twelve blades each or twenty packets of six blades each are contained in pasteboard carton.

One packet, 12 shaving edges, 6 blades .....each, **$0.50**

One packet, 24 shaving edges, 12 blades .....each, **$1.00**

AUTOSTROP SAFETY RAZORS

Strops, Shaves, Cleans Without Detaching Blade; Sold the World Over

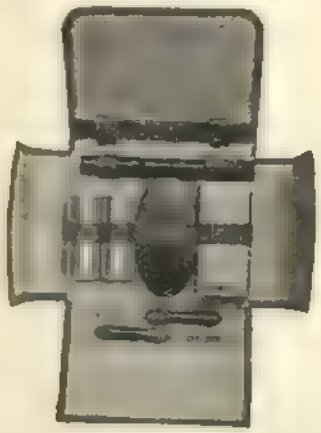
REGULAR STANDARD SET

Size 1½ x 4½ inches

No. 1. Black leather case, velvet lined; silver plated self-stropping razor; 12 blades, highest quality strop.....each, **$5.00**

Colored sets fitted with same contents as regular standard set above.

Red.....each, **$5.00**
Blue.....each, **5.00**
Green.....each, **5.00**
Maroon.....each, **5.00**



TOURIST KIT

No. 680. Black seal grained leather traveling kit, leather lined, made box-shaped, containing AutoStrop safety razor set in handsome nickel plated case; shaving brush and soap in silver plated tubes, ebony hand-drawn military brush, comb, black celluloid tube for tooth brush, cuticle knife, nail file, and fitted with patented hanger for "Pullman" car service.....each, **$12.50**

AUTOSTROP BLADES

AutoStrop blades are carefully manufactured, finished and tested by experts and are for use in the AutoStrop safety razor only. Each blade is contained in a moisture-proof wrapper, then packed in a pasteboard carton.

Carton of 12 blades..... **$1.00**
Carton of 6 blades..... **.50**

EMBOSSED METAL OUTFITS

Size 1½ x 4½ inches

No. 251. Embossed nickel plated case, velvet lined; silver plated self-stropping razor; 12 blades; highest quality strop.....each, **$5.00**

COMBINATION SET

Size 3¼ x 5 inches

No. 25. Morocco grain black leather case, silver plated self-stropping razor, 12 blades, highest quality strop, shaving brush and stick of shaving soap in silver plated tubes.....each, **$7.50**

POCKET KIT

Size 3½ x 4½ x ¾ inches

No. 7. Flexible black leather case, seal grain, leather lined, containing silver plated self-stropping razor, 12 blades, selected leather strop, specially prepared, oval shaped metal mirror. Case is soft roll with push-button catch.....each, **$5.00**

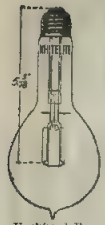
No. 8. Genuine pigskin flexible case, unlined, same contents.....each, **5.00**

The AutoStrop is different from all other safety razors, and self-shavers are invited to test its service against any other razors which they may possess.

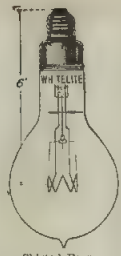
INCANDESCENT LAMPS

WHITELITE

GASS FILLED TYPE, PEAR SHAPED, COIL FILAMENT. FOR GENERAL USE.



Unskirted Base



Skirted Base

Guaranteed to have average burning light 1000 hours.

Note—When ordering lamps, always give wattage and voltage, and state whether **clear, half-frosted** or **all-frosted** bulbs are wanted. Unless frosted lamps are specified, clear lamps will be shipped. If frosted lamps are specified, **bowl**-frosted ones will be shipped unless order calls for **all**-frosted lamps. Bowl or half-frosted lamps are same price as all-frosted ones.

Medium Screw Base—Unskirted.

Nos.	Watts	Volts	Spher. C. P.	Size, in.	Std. Pkg.	Each Clear	Each Frstd.	Each En'ld
50-110GF	50	110	50	5¾x2¾	50	$1 95	$2 10	+$2 10
50-115GF	50	115	50	"	"	1 95	2 10	+ 2 10
50-120GF	50	120	50	"	"	+1 95	+2 10	+ 2 10
---- ---	50	125	50	"	"	+1 95	+2 10	----
75-110GF	75	110	70	"	"	2 10	2 25	+ 2 25
75-115GF	75	115	70	"	"	2 10	2 25	+ 2 25
75-120GF	75	120	70	"	"	+2 10	+2 25	+ 2 25
---- ---	75	125	70	"	"	+2 10	+2 25	+ 2 25

Shipping weight per standard package 19 lbs.

100-110GF	100	110	100	7⅛x3⅛	24	$3 00	3 30	3 30
100-115GF	100	115	100	"	"	3 00	3 30	3 30
100-120GF	100	120	100	"	"	3 00	3 30	3 30
---- ---	100	125	100	"	"	+3 00	+3 30	3 30
100-220GF	100	220	100	"	"	3 60	3 90	----
---- ---	100	230	100	"	"	+3 60	+3 90	----
---- ---	100	240	100	"	"	+3 60	+3 90	----
---- ---	100	250	100	"	"	+3 60	+3 90	----
150-110GF	150	110	168	"	"	4 20	+4 50	----
150-115GF	150	115	168	"	"	4 20	4 50	----
---- ---	150	120	168	"	"	+4 20	4 50	----
150-120GF	150	125	168	"	"	+4 20	+4 50	----

Shipping weight per standard package 14 lbs.

Medium Screw Base—Skirted.

Nos.	Watts	Volts	Spher. C. P.	Size, in.	Std. Pkg.	Each Clear	Each Frstd.
200-110GF	200	110	232	8¾x3¾	24	$5 70	$6 00
200-115GF	200	115	232	"	"	5 70	6 00
200-120GF	200	120	232	"	"	+5 70	+6 00
---- ---	200	125	232	"	"	+5 85	+6 00
200-220GF	200	220	200	"	"	6 00	----
---- ---	200	230	200	"	"	+6 60	+7 05
---- ---	200	240	200	"	"	+6 60	+7 05
---- ---	200	250	200	"	"	+6 60	+7 05

Shipping weight per standard package 18 lbs.

+F. O. B. New York Factory Only.

Mogul Screw Base—Unskirted.

Nos.	Watts	Volts	Spher. C. P.	Size, in.	Std. Pkg.	Each Clear	Each Frstd.
300-110GF	300	110	385	9¼x4⅝	24	$8 40	$8 85
300-115GF	300	115	385	"	"	8 40	8 85
---- ---	300	120	385	"	"	+ 8 40	+ 8 85
---- ---	300	125	385	"	"	+ 8 40	+ 8 85
300-220GF	300	220	326	"	"	10 50	11 10
---- ---	300	230	326	"	"	+10 50	+11 10
---- ---	300	240	326	"	"	+10 50	+11 10
---- ---	300	250	326	"	"	+10 50	+11 10
400-110GF	400	110	488	10x5	12	12 90	13 35
400-115GF	400	115	488	"	"	12 90	13 35
400-220GF	400	220	465	"	"	15 30	,16 20
500-110GF	500	110	640	"	"	12 45	13 20
500-115GF	500	115	640	"	"	12 45	13 20
---- ---	500	120	640	"	"	+12 45	+13 20
---- ---	500	125	640	"	"	+12 45	+13 20
500-220GF	500	220	585	"	"	15 00	15 90
---- ---	500	230	585	"	"	+15 00	+15 90
---- ---	500	240	585	"	"	+15 00	+15 90
---- ---	500	250	585	"	"	+15 00	+15 90

Shipping weight per standard package 25 lbs.

Mogul Screw Base—Skirted.

Nos.	Watts	Volts	Spher. C. P.	Size, in.	Std. Pkg.	Each Clear	Each Frstd.
750-110GF	750	110	1013	18⅜x6½	8	$17 25	$18 15
750-115GF	750	115	1013	"	"	17 25	18 15
---- ---	750	120	1013	"	"	+17 25	+18 15
---- ---	750	125	1013	"	"	+17 25	+18 15
750-220GF	750	220	915	"	"	23 10	+24 30
---- ---	750	230	915	"	"	+23 10	+24 30
---- ---	750	240	915	"	"	+23 10	+24 30
---- ---	750	250	915	"	"	+23 10	+24 30
1000-110GF	1000	110	1428	"	"	20 10	21 15
1000-115GF	1000	115	1428	"	"	20 10	21 15
---- ---	1000	120	1428	"	"	+20 10	+21 15
---- ---	1000	125	1428	"	"	+20 10	+21 15
1000-220GF	1000	220	1280	"	"	24 00	25 35
---- ---	1000	230	1280	"	"	+24 00	+25 35
---- ---	1000	240	1280	"	"	+24 00	+25 35
---- ---	1000	250	1280	"	"	+24 00	+25 35

Shipping weight per standard package 25 lbs.

+F. O. B. New York Factory Only.

INCANDESCENT LAMPS

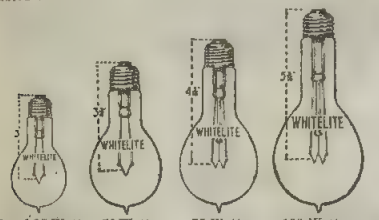
WHITELITE

GASS FILLED TYPE. PEAR SHAPED COIL FILAMENT

Guaranteed to have average burning light 1000 hours.

For Jupiter, Perfection, Delco and other Farm Lighting Plants.

Note—When ordering lamps, always give wattage and voltage, and state whether **clear, half-frosted** or **all-frosted** bulbs are wanted. Unless frosted lamps are specified, clear lamps will be shipped. If frosted lamps are specified, **bowl-frosted** ones will be shipped unless order calls for **all-frosted** lamps. Bowl or half-frosted lamps are same price as all-frosted ones.



5 and 25 Watts 50 Watts 75 Watts 100 Watts

Medium Screw Base—Unskirted.

Nos.	Watts	Volts	Spher. C. P.	Size in.	Std. Pkg.	Each Clear	Each Frstd.	Each En'ld
15-32GF	15	28-32	15	2¾x1¼	100	$1 95	$2 10	----
25-32GF	25	28-32	25	5½x2¼	100	1 95	2 10	----
50-32GF	50	28-32	55	5½x2½	50	1 95	2 10	$2 10
75-32GF	75	28-32	88	6½x2¾	50	2 25	2 40	--
100-32GF	100	28-32	125	7½x3⅛	24	3 30	3 60	--

Average shipping weight per standard package 25 lbs.

DAYLIGHT BLUE. FOR WINDOW AND STORE LIGHTING

Makes colors appear almost exactly as in sunlight.

Guaranteed to have average burning light 600 hours.

Medium Screw Base—Unskirted.

Nos.	Watts	Volts	Size, in.	Std. Pkg.	Each Clear	Each Frosted
75-110BGF	75	110	6½x3⅛	50	$2 40	$2 55
75-115BGF	75	115	"	"	2 40	2 55
75-120BGF	75	120	"	"	2 40	2 55
-----	75	125	"	"	✚2 40	✚2 55
100-110BGF	100	110	7½x3⅛	24	3 45	3 75
100-115BGF	100	115	"	"	3 45	3 75
100-120BGF	100	120	"	"	3 45	✚3 75
-----	100	125	"	"	✚3 45	✚3 75

Shipping weight per standard package 27 lbs.

(Continued on next column).

✚F. O. B. New York Factory Only.

INCANDESCENT LAMPS

WHITELITE

DAYLIGHT BLUE. FOR WINDOW AND STORE LIGHTING

Medium Screw Base—Unskirted.

Nos.	Watts	Volts	Size, in.	Std. Pkg.	Each Clear	Each Frosted
150-110BGF	150	110	7½x3⅛	24	$4 95	$5 25
-----	150	115	"	"	✚4 95	✚5 25
-----	150	120	"	"	✚4 95	✚5 25
-----	150	125	"	"	✚6 60	✚5 25
200-110BGF	200	110	8⅝x3¾	"	6 60	✚7 05
-----	200	115	"	"	✚6 60	✚7 05
-----	200	120	"	"	✚6 60	✚7 05
-----	200	125	"	"	✚6 60	✚7 05

Shipping weight per standard package 27 lbs.

Mogul Screw Base—Skirted.

Nos.	Watts	Volts	Size, in	Std. Pkg.	Each Clear	Each Frosted
300-110BGF	300	110	9¾x4½	24	$9 90	$10 50
-----	300	115	"	"	✚ 9 90	✚10 50
-----	300	120	"	"	✚ 9 90	✚10 50
-----	300	125	"	"	✚ 9 90	✚10 50
500-110BGF	500	110	10x5	12	14 85	16 05
-----	500	115	"	"	✚14 85	✚16 05
-----	500	120	"	"	✚14 85	✚16 05
-----	500	125	"	"	✚14 85	✚16 05

Shipping weight per standard package 27 lbs.

GASS FILLED TYPE. CONCENTRATED FILAMENT, ROUND BULB

Guaranteed to have average burning light 300 hours.

Note When ordering lamps, always give wattage and voltage, and state whether **clear, half-frosted** or **all-frosted** bulbs are wanted. Unless frosted lamps are specified, clear lamps will be shipped. If frosted lamps are specified, **bowl-frosted** ones will be shipped unless order calls for **all-frosted** lamps. Bowl or half-frosted lamps are same price as all frosted ones.

STEREOPTICAN

For Magic Lanterns and Small Moving Picture Machines, Medium Screw Base—Unskirted.

Nos.	Watts	Volts	Size, in.	Std. Pkg.	Each
----	100	110	3¼x4¾	24	✚$4 05
----	100	115	"	"	✚ 4 05
----	100	120	"	"	✚ 4 05
----	100	125	"	"	✚ 4 05
----	250	110	3¾x5½	"	✚ 7 80
----	250	115	"	"	✚ 7 80
----	250	120	"	"	✚ 7 80
----	250	125	"	"	✚ 7 80

Shipping weight per 100 about 60 lbs.

FLOODLIGHTING

Second in quality only to Edison lamps. Guaranteed to have average burning light 300 hours. Recommended especially for customer whose lamp business is not large enough to entitle him to form A Edison agency, or who does not want or cannot get a consigned stock of lamps.

Mogul Screw Base—Unskirted.

Nos.	Watts	Volts	Size, in.	Std. Pkg.	Each
----	250	110	3¼x5½	24	✚$7 80
----	250	115	"	"	✚ 7 80
----	250	120	"	"	✚ 7 80
----	250	125	"	"	✚ 7 80

Shipping weight per 100 about 60 lbs.

✚F. O. B. New York Factory Only.

INCANDESCENT LAMPS

"WHITELITE"

STREET SERIES. GAS FILLED TYPE. COIL FILAMENT

Guaranteed to have average burning light 1200 hours.

7¾"x3½".

9¾"x4⅜".

Note—When ordering Street Series Lamps, always state amperes and candle power. We can also furnish half or all frosted bulbs, but clear bulbs are recommended. Supplied with Mogul Screw base only. Can only be used with Mogul Screw Sockets.

Mogul Screw Base, Clear Bulb.

Nos.	C. P.	Amp.	Average Volts	Size, in.	Std. Pkg.	Base	Clear Each
✤	60	4	13.6	7¾x3½	50	Unskirted	$3 60
✤	60	4.5	10.0	"	"	"	3 60
✤	60	5.5	8.5	"	"	"	3 00
✤	60	6.6	7.1	"	"	"	3 00
✤	60	7.5	6.2	"	"	"	3 00
✤	80	4	------	"	"	"	3 60
✤	80	4.5	------	"	"	"	3 60
✤	80	5.5	10.8	"	"	"	3 60
✤	80	6.6	9.0	"	"	"	3 60
✤	80	7.5	7.9	"	"	"	3 60
✤	100	4	------	"	"	"	3 60
✤	100	4.5	------	"	"	"	3 60
✤	100	5.5	13.1	"	"	"	3 60
✤	100	6.6	10.8	"	"	"	3 60
✤	100	7.5	9.5	"	"	"	3 60

Shipping weight per standard package 25 lbs.

✤	250	4	------	9¾x4⅜	24	Unskirted	7 05
✤	250	4.5	------	"	"	"	7 05
✤	250	5.5	30.9	"	"	"	7 05
✤	250	6.6	24.6	"	"	"	7 05
✤	250	7.5	21.0	"	"	"	7 05

Shipping weight per standard package 28 lbs.

✤	400	4	------	10x5	12	Unskirted	12 45
✤	400	4.5	------	"	"	"	12 45
✤	400	5.5	49.5	"	"	"	12 00
✤	400	6.6	38.8	"	"	"	10 50
✤	400	7.5	33.1	"	"	"	12 00
✤	400	15.0	14.4	12½x5	"	Skirted	10 50
✤	600	6.6	58.2	10x5	"	Unskirted	13 50
✤	600	7.5	49.6	"	"	"	15 00
✤	600	20.0	15.0	12½x5	"	Skirted	13 50
✤	1000	20.00	25.0	"	"	"	15 75

Shipping weight per standard package 25 lbs.

✤F. O. B. New York Factory Only.

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INCANDESCENT LAMPS

"WHITELITE"

White, Gas-Filled.

Designed for home use. Bulbs are of opal glass, which conceals the filament from the eye and gives the lamp the appearance of white ball, similar to, but smaller than white way street lamps. For general illumination, that is ceiling fixtures, rather than portables.

Medium Screw Base, Unskirted.

Nos.	Watts	Volts	Size, in.	Std. Pkg.	Each
50-32WGF	32	110	5¼x2⅛	50	$1 95
50-110WGF	50	110	5¼x2⅛	50	1 80
50-115WGF	50	115	5¼x2⅛	50	1 80
50-120WFG	50	120	5¼x2⅛	50	1 80
✤	50	125	5¼x2⅛	50	1 80
75-110WGF	75	110	5¼x2¼	50	2 70
75-115WGF	75	115	5¼x2¼	50	2 70
75-120WGF	75	120	5¼x2¼	50	2 70
✤	75	125	5¼x2¼	50	2 70
100-110WGF	100	110	5¼x2½	24	4 35
100-115WGF	100	115	5¼x2½	24	4 35
100-120WGF	100	120	5¼x2½	24	4 35
	100	125	5¼x2½	24	4 35

Shipping weight per standard package 20 lbs.

LAMP FROSTING

CRESCENT

For frosting incandescent lamps Widely used and gives great satisfaction.

Per Pint

No. 2765PF—In pint bottles, *$2 00* complete with dipping cup .. 4 20

Per Gallon

$14 00

No. 2762GF—In gallons jugs .. 29 40

LAMP COLORING FLUID

CRESCENT

A high grade fluid for coloring incandescent lamps. Gives the lamp that snap and brilliance usually found only in natural colored glass.

Dipping cup furnished with each bottle.

Color	Pint Bottles Nos.	Pint Bottles Per Pint	Quart Bottles Nos.	Quart Bottles Per Qt.
Amber	2765PA	*$2 00*	2764QA	*$4 00*
Blue	2765PB		2764QB	
Canary	2765PC	4 20	2764QC	8 40
Green	2765PG		2764QG	
Ruby	2765PR		2764QR	

One bottle in a carton.

INCANDESCENT LAMPS

"HYLO," MAZDA TURN DOWN

Has two filaments, one carbon and one drawn wire Mazda filament. The current can be switched from one filament to the other by pulling a string passing through the skirt, giving either a very bright light or a dim light. Saves 85% current when low.

Not included in contracts.

Nos.	9-2510	9-4010
Watts	25	40
Volts	110	110
Candle Power	20 to 1	32 to 1
Each	$2 18	2 18

100 in a standard package; wt. about 25 lbs.

DIM-A-LITES

Save Current—Approved by Underwriters.

Will hold any lamp up to and including 40 watts. Enables the lamp to be turned from its full candle power down to ⅛ and out—"just like gas". Suitable for bed-rooms, halls, bath rooms, nurseries, sick-rooms, etc.

In the Dim-a-lite is a small resistance that cuts down the voltage and at the same time the C. P. and wattage as follows:
1st.—"Full". Lamp consumes rated wattage and gives full C. P. of light.
2nd.—"Half". Lamp consumes about 70% of rated wattage and gives about 50% of rated C. P. of light.
3rd.—"Dim". Lamp consumes about 28% of rated wattage and gives about 25% of rated C. P. of light.
4th.—"Night". Lamp consumes about 20% of rated wattage and gives about ⅛ of rated C. P. of light.
5th.—"Out". Current is turned off.
All numbers give the best results with 25 to 40 watt lamps.

Dull brass finish; interchangeable. Screws into any medium screw socket. Pull chain style. Useful everywhere.

Nos.	23	23L	235-220
Volts	110	32	220
	$1 40	1 50	1 80
Each	3 15	3 39	3 39

One dozen on a handsome display card; weight per dozen 3 lbs.

Dull brass finish; with 2¼ inch shade holder; interchangeable. Screws into any medium screw socket. Pull cord type.

Each
$1 50
No. 34—110 volts 3 39
One in a cardboard box; weight each ¼ lb.

Dull brass finish. This type is intended to be installed on present fixtures in place of key or chain sockets now attached. All degrees of light obtained by pull chain. Especially recommended for for reading lamps, portables, etc.

Each
$1 75
No. 32—110 volts 3 93
One in a cardboard box; weight each ¾ lb.

DIM-A-LITES

Dull brass finish, 2¼ inch shade holder. Intended to be installed on present fixtures in place of key or chain sockets now attached. All degrees of light obtained by pull chain.

Each
$1 75
No. 31 110 volts 3 93
One in a cardboard box; weight each ¾ lb.

Especially intended for the hotel, hospital, nursery or home.

Dull brass finish; portable type. Furnished complete with 8 ft. of cord, attachment, plug bracket and shade as shown in illustration (exclusive of bulb.)

The holder is universal and can be hung on bed, crib, chair, bureau, etc. It is felt-covered at point of contract to prevent scratching. The hinge joint allows a wide range of adjustment—the reflector may be turned directly at the object or pointed toward the ceiling, giving a reflected indirect light.

Each
$5 00
No. 44—110 volts 11 25
One in a cardboard box; weight each complete 1¼ lb.

ELECTRIC LIGHT REGULATORS

ANYLITE

Approved by Underwriters.

Dull brass finish; designed for devices consuming not more than 40 watts of current; any degree of light is obtained by pull chain; fits any standard electric light screw socket, brass chain pull. Works equally as well upon either direct or alternating current. When the globe burns out the regulator is as good as ever and can be used continuously on successive lamps.

Each
No. S—110 volts $1 40 2 25
One in a carton; weight each ¾ lb.

SKEDOODLE PLUGS

Fits standard socket and takes any kind of lamp from 20 to 60 watts. Operates on any voltage from 100 to 250. Flashes at regular intervals and can be easily adjusted to change periods.

For window signs, store fronts and electric advertising displays of all kinds.

Each
No. IV—Length 2¾ in.; diameter 1⅛ inches $1 00 3 48
100 in a cardboard box; wt. per 100, 12 lbs.

WM. SIMONS & CO., LTD.,

Dredge-builders, Shipbuilders and Engineers,

RENFREW, SCOTLAND.

London Office: *Bureau de Londres.* Oficina en Londres. 83, VICTORIA STREET, S.W. 1.

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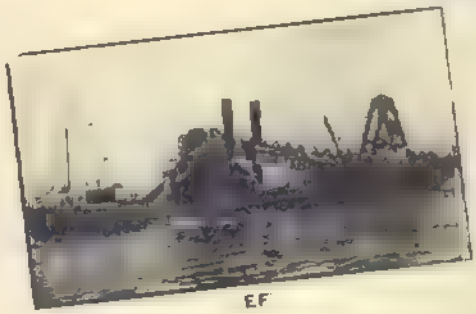

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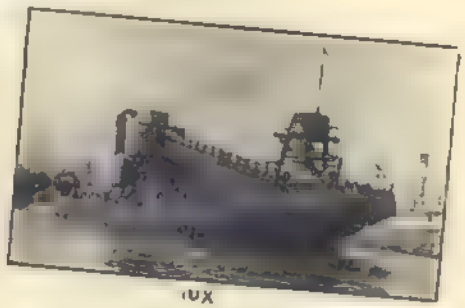

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For descriptions and capacities see page 47.

Pour description et capacité se reporter à la page 47.

Para descripciones y capacidades sírvanse ver la página 47.

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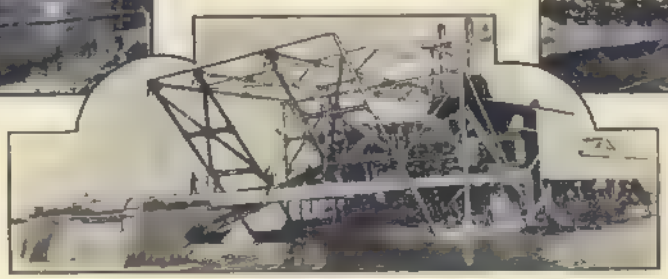

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WM. SIMONS & CO., LTD.,

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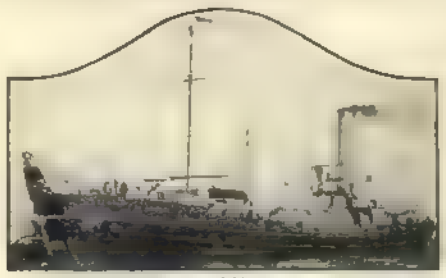

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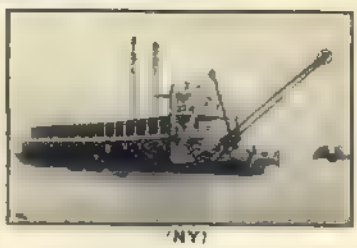

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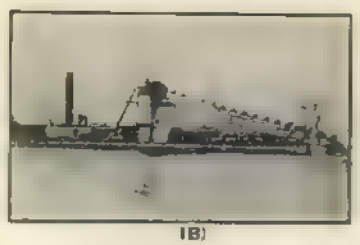

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WM. SIMONS & CO., LTD.,

Dredge-builders, Shipbuilders and Engineers,

RENFREW, SCOTLAND.

London Office
Bureau de Londres
83, VICTORIA STREET. S.W. 1.

Description.	Hopper Capacity.	Dredging Capacity per Hour.	Dredging Depth.
	Tons.	Tons.	Feet
No. 1.—Twin-screw, Barge-loading Dredger, "St. Ives." (GLAIR)	—	800	46
No. 2.—Twin-screw Sternwell Bucket Hopper Dredger, "La Puissante" (GLAZE)	2,150	1,800	39½
No. 3.—Twin-screw Bucket Hopper Dredger, "U.S. Corozal" (GLEAM)	1,200	2,000	50
No. 4.—Single-screw Bucket Hopper Dredger, "Slaney" (GLEBE)	250	300	22
No. 5.—Single-screw Barge-loading Dredger, "No. 18" (fitted with discharging pump) (GLIDE)	—	1,000	65
No. 6.—Sand Pump and Bucket Dredger, "Voishskaia 4" (GLOVE)	—	650	19
No. 7.—Land Excavator (GNOME)	—	—	—
No. 8.—Non-propelling Bucket Tin Dredger, "No. 6" (GRATE)	—	500	40
No. 9.—Twin-screw Suction Cutter Hopper Dredger "Labrus" (GREEN)	2,000	1,500	45
No. 10.—Triple-screw Suction Cutter Dredger, "Foyers" (GRILL)		4,500	20
No. 11.—Twin-screw Suction Cutter Dredger, "Lees" (GRIPE)		1,800	40
No. 12.—Sternwheel Crab Dredger, "Agrab" (GROOM)		300	30
No. 13.—Non-propelling Barge-loading Dredger, "Premier" (GRUEL)	—	1,000	50
No. 14.—Twin-screw Sand Pump Hopper Dredger, "Balari" (GULFY)	3,000	5,000	45
No. 15.—Twin-screw Suction Cutter Dredger, "No. 5" (HAILY)	—	850	40
No. 16.—Sternwell Trailing Suction Hopper Dredger, "M.O.P. 210. C." (HARSH)	2,100	5,000	46
No. 17.—Twin-screw Bucket Hopper Dredger, "Silurus" (HEAVE)	1,500	2,000	50
No. 18.—Twin-screw Trailing Suction Hopper Dredger, "Cormorant" (HOTLY)	1,100	2,800	58
No. 19.—Twin-screw Hopper Barge, "No. 22" (HURDS)	1,200	—	—
No. 20.—Twin-screw Sand Pump Dredger, "Cambay" (HUTCH)		150	20

Description.	*Capacité du puits de déblais.*	*Capacité de dragages par heure.*	*Profondeur de dragages.*
	Tonnes.	*Tonnes.*	*Mètres*
No. 1.—Drague "St. Ives" à deux hélices à déversoir dans des chalans	—	600	14
No. 2.—Drague à godets "La Puissante" à deux hélices à puits de déblais sur proue	2 150	1,800	12
No. 3.—Drague à godets "U.S. Corozal," à deux hélices	1,200	2,000	15,20
No. 4.—Drague à godets "Slaney" à une hélice à puits de déblais	250	300	6,70
No. 5.—Drague "No. 18" à une hélice à déversoir dans des chalans (pourvue d'une pompe refoulante)	—	1,000	19,80
No. 6.—Drague à godets "Voishskaia 4" à pompe de sable	—	650	3,96
No. 7.—Excavateur terrestre	—	—	—
No. 8.—Drague à godets "No. 6" en tôle non-propulsive	—	500	12,20
No. 9.—Drague "Labrus" à godets et aspiratrice désagregatrice à deux hélices	2,000	1,500	13,70
No. 10.—Drague aspiratrice "Foyers" désagrégatrice à 3 hélices		4,500	6 09
No. 11.—Drague aspiratrice désagrégatrice à 2 hélices "Lees"	—	1,800	12,20
No. 12.—Drague à roue à aube arrière et à benne à griffe "Agrab"	—	300	9 15
No. 13.—Drague non propulsive à déverser dans des chalands		1,000	15 20
No. 14.—Drague à deux hélices à pompe et puits de déblais "Balari"	3 000	5,000	13 70
No. 15.—Drague aspiratrice désagrégatrice à deux hélices "No. 5"	—	850	12,20
No. 16.—Drague d'aspiration par halage et à puits de déblais	2 100	5 000	14
No. 17.—Drague à godets et à puits de déblais à deux hélices "Silurus"	1 500	2 000	15,20
No. 18.—Drague d'aspiration par halage à puits de déblais "Cormorant"	1,100	2,000	15,20
No. 19.—Barge déversoir de déblais à deux hélices "No. 22"	1,200		—
No. 20.—Drague à 2 hélices à pompe de sable "Cambay"	—	150	6 09

WM. SIMONS & CO., LTD.,

Dredge-builders, Shipbuilders and Engineers,

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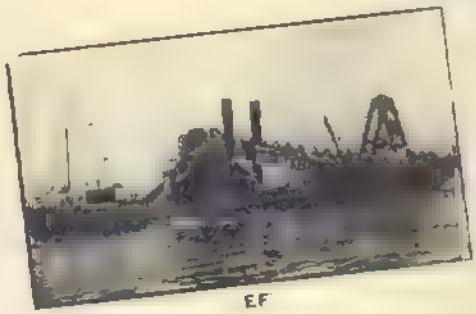

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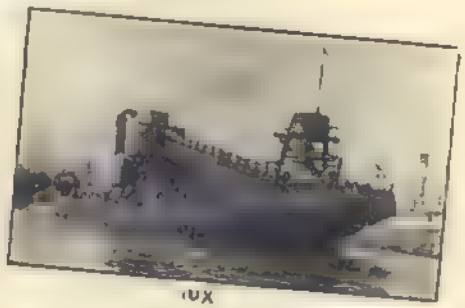

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For descriptions and capacities see page 47.

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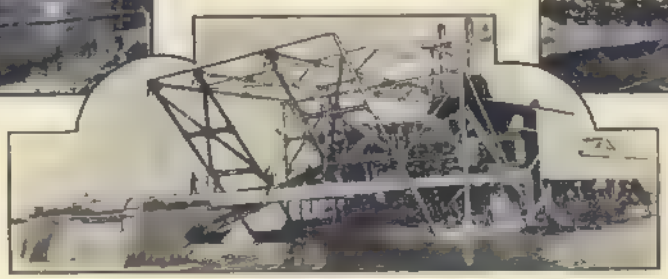

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WM. SIMONS & CO., LTD.,

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RENFREW, SCOTLAND.

London Office: *Bureau de Londres:* Oficina en Londres: **83, VICTORIA STREET, S.W. 1.**

Constructors of

BOW WELL BUCKET HOPPER DREDGERS. (IDEAL)

STERN WELL BUCKET HOPPER DREDGERS. (IDIOM)

BOW WELL BUCKET BARGE LOADING DREDGERS. (IDYLL)

STERN WELL BUCKET BARGE LOADING DREDGERS. (IMAGE

SUCTION HOPPER DREDGERS. (IMPEL)

CLAY CUTTING SUCTION AND DISCHARGING RECLAMATION DREDGERS. (IMPLY

"SIMONS'" PATENT CUTTER SUCTION HOPPER DREDGERS. (INERT)

DRAG SUCTION HOPPER DREDGERS. (INSET)

EXCAVATORS (LAND). (ITCHY)

DIPPER DREDGERS. (JACKS)

STEAM HOPPER BARGES. (JAUNT)

DUMB HOPPER BARGES. (JOINT)

ELEVATING DECK FERRY STEAMERS. (KETCH)

GOLD AND TIN RECOVERY DREDGERS. (KNEAD)

INVENTORS AND FIRST CONSTRUCTORS OF HOPPER DREDGERS, STERN WELL HOPPER DREDGERS.

Constructeurs de

Dragues à godets, à puits de déblais sur proue.
Dragues à godets à puits de déblais sur poupe.
Dragues à godets à déversoir d'évacuation de déblais sur chalants, puits de déblais sur proue
Dragues à godets à déversoir d'évacuation de déblais sur chalans puits de déblais sur poupe
Dragues à aspiration et à godets.
Dragues à aspiration désagrégatrice d'argile et à déchargement de matériaux récupérés.
Dragues brevet "Simons" désagrégatrices à aspiration et à godets.
Dragues à aspiration et à godets.
Excavateurs (terrestres)
Dragues plongeurs
Chalands à vapeur à godets.
Navires à vapeur à ponts.
Dragues chalands.
Dragues pour récupération d'or et d'étain.

Inventeurs et premiers constructeurs de

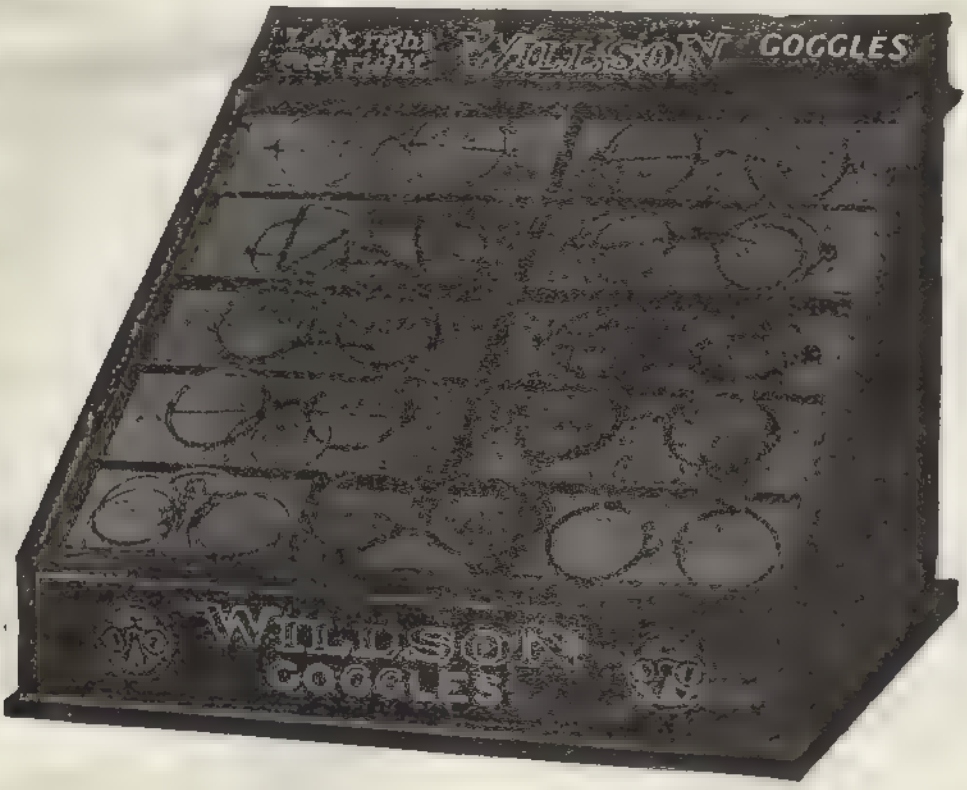
Dragues à godets, Dragues à godets et à puits de déblais sur poupe.

Constructores de

Dragas con tolva de cubos en el pozo de proa
Dragas con tolva de cubos en el pozo de popa
Dragas de cubos en el pozo de proa para descargar en lanchas
Dragas de cubos en el pozo de popa para descargar en lanchas.
Dragas con tolva de aspiración.
Dragas para excavar por aspiración y descargar para la reclamación de terrenos
Dragas con tolva de aspiración patente "Simons
Dragas con tolva de aspiración de rastrear.
Excavadoras (terrestres).
Dragas de cubos.
Lanchas de tolva á vapor
Gánguiles
Vapor embarcadero con puente elevador.
Dragas para recuperar el oro y estaño.

Inventores y primeros constructores de
Dragas de tolva, Dragas de tolva en el pozo á popa.

ASSORTMENT OF GOGGLES, EYE PROTECTORS AND EYE GLASSES WITH FREE DISPLAY CASE



No. 1—Goggle Assortment, consisting of 30 pair, 11 different styles, all with amber color glass lenses, ranging in price from 50c to $2.00 each retail, all ready sellers, complete assortment .....each **$35.20**

The FREE handsome mahogany finished wood display case has glass top and space with hinged door at back for carrying stock. Size of case, 12½ in. high, 15 in. wide and 14 in. long.

Complete Assortment packed in wooden case ready for shipment, w't. 25 lbs.

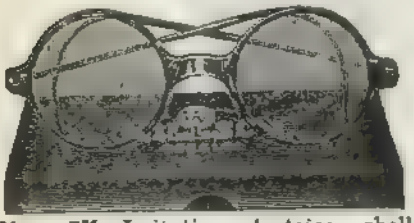
Contents of Case	Style Number	Selling Prices to Consumer
6 pairs	No. 65N	per pair $0.50
2 pairs	No. 6K	per pair 1.25
4 pairs	No. 86N	per pair 1.00
4 pairs	No. 7K	per pair 1.00
3 pairs	No. 1A	per pair 1.75
2 pairs	No. 1K	per pair 1.75
2 pairs	No. 21Z	per pair 1.25
2 pairs	No. 1Z	per pair 1.75
2 pairs	No. 2Z	per pair 2.00
3 pairs	No. 3K	per pair .75
30 pairs Total		Total Retail Value.....$34.50

Handsome mahogany finished wood show case FREE with this assortment.

See Page 1741 for description, illustration, etc., of each of the various styles Goggles, Eye Protectors and Eye Glasses, comprising the assortment described above.

AMBER EYE PROTECTORS

No. 68N—Nickel plated frame, with cable riding bow temples, large amber glass lenses, 1⅞ in. in diameter, without cases ...dozen $3.50
ONE DOZEN IN A CARTON



No. 7K—Imitation tortoise shell frames and riding bow temples, large round amber glass lenses, each pair in a neat box, per dozen $9.30

No. 21Z—Zyblex, fine quality imitation tortoise shell frame, high grade amber glass lenses, nickel cable riding temples, each pair in box ....per dozen $10.80

No. 1Z—Zyblex, fine quality imitation tortoise shell frame, high grade 1⅞ in. amber glass lenses, soft leather sides, nickel cable riding bow temples, made to fit any face, one pair in box ..per dozen $16.60

INDUSTRIAL GOGGLES

No. 86N—Universal, rust-proof white metal, riding bow temples, Ventilated side guards, high grade amber glass lenses, 1⅞ in. diameter, per dozen $8.00
One pair in a metal case.
ALL ABOVE HALF DOZEN IN A CARTON

AMBER EYE PROTECTORS

No. 57Z—Thin edge rims of imitation tortoise shell wire riding bow temples, large amber glass lenses 1⅞ in. in diameter. Each in a neat box .....per dozen $9.30
A very attractive spectacle.
HALF DOZEN IN A CARTON

AMBER EYEGLASSES

No. 50Z—Thin imitation tortoise shell rims, **round style,** 1⅞ in., amber glass lenses, each pair in a neat box, per dozen $7.20

A handsome conservative style for general wear. Comfortable for sun and snow glare protection.

ONE DOZEN IN A CARTON

No. 5Z—Imitation shell, **round rims** with long spring and black metal guards, 1⅞ in. round amber glass lenses, each pair in a neat box, per dozen $15.90

An unusually distinctive design often preferred by women who want sun and snow glare protection without the annoyance frequently caused by the temples of spectacles or goggles.

HALF DOZEN IN A CARTON

AMBER GOGGLES

No. 1K—Imitation tortoise shell frames, temples and side shields. Large amber glass lenses. Each pair in a neat metal box, per dozen $15.80

Of unique construction, light weight and very neat.

HALF DOZEN IN A CARTON

SELF ADJUSTING

No. 2Z—Zyblex, imitation tortoise shell frames, with a flexible nose bridge of pure silk, ventilated leather side guards, flexible cable temples of white metal, large amber glass lenses, each pair in a metal box .....per dozen $21.20

The last word in goggle comfort. The flexible silk bridge perfectly adjusts itself to the shape of the face, thus combining complete protection with unusual comfort.

HALF DOZEN IN A CARTON

ADJUSTABLE

No. 1A—Albex, nickel plated frame, flexible cable riding bow temples, **special adjustable nose bridge allows the goggle to fit the contour of any face,** extra large amber glass lenses, 1⅞ in. in diameter, each pair in a hinged metal case per dozen $16.60
HALF DOZEN IN A CARTON

GOGGLES

AMBER

Illustration shows the attractive colored cardboard display, size 6x7x4 inches, furnished free with every purchase of half dozen pairs of No. 70K eye protectors.

No. 70K — Fine imitation tortoise frames and riding bow temples, large amber glass lenses. Each pair in a neat box, per dozen $9.30

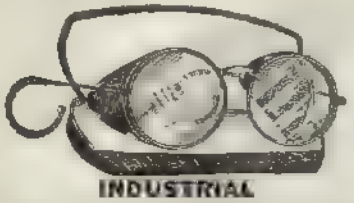
HALF DOZEN IN A COUNTER DISPLAY BOX

No. 3K — Imitation tortoise shell frames and riding bow temples, 1⅞ in. round amber glass lenses, each pair in a glassine envelope, per dozen $6.00

ONE DOZEN IN A CARTON

No. KD7—Imitation tortoise shell frames and curved bow temples, large flat top amber glass lenses, each pair in a neat box, doz. $10.80

ONE DOZEN IN A CARTON



INDUSTRIAL

Nickel plated frame, with easy cable riding bow temples, wire screen sides, 1⅞ in. glass lenses.

No. 650—Amber lenses, doz. $23.00
No. 650½—Clear lenses, doz. 23.00

ONE PAIR IN A HINGED COVERED CASE
HALF DOZEN IN A CARTON

WILLSON INDUSTRIAL GOGGLE ASSORTMENT

Gotten up especially with the idea of catering to the Railroad Men, Autoists and industrial workers who desire a goggle to afford protection to the eyes and comfort in wearing.

An attractive colored pasteboard display box furnished with every assortment of ½ dozen pairs.

Assortment consists of 6 PAIR WILLSON'S GOGGLES as follows:

2 pair style A1 CLEAR, 1⅞ in. LENSES, Willson patented adjustable bridge, ventilated leather side guards and flexible Cable earbows.

1 pair style M5, RAILROAD AMBER, same type as style A1 but of slightly heavier construction.

1 pair style E2, 1⅞ in. LENSES, Willson patented adjustable bridge, wire screen side guards and detachable elastic head-band. All face-touching parts are bound with velvet.

1 pair style H31 CLEAR, same type as style E2 except that the lenses are oval and the bridge is a "Nose-bridge" or "saddle" design.

1 pair style H31 RAILROAD AMBER, otherwise same as H31 Clear.

No. 4Y—
Per assortment of 6 pairs ..$10.80

GOGGLES

No. 36—Double Bulge, oval glass extension lenses set in first quality double bulge leather frame, with elastic cord,
per dozen $2.50

ONE DOZEN IN A BOX

GOGGLES

IL-A-NOY, mechanic's or automobile, large genuine leather mask, extra quality velvet binding, full size aluminum eye cups, extra quality elastic band.

No. 11—Clear glass lenses,
per dozen $2.50

No. 111—Smoke glass lenses,
per dozen $3.20

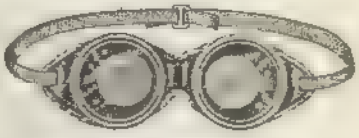
ONE DOZEN IN A BOX

Aluminum cups, with ventilating holes, fitted with 1⅞ in. lenses set in leather frame with elastic cord.

No. 26—Clear glass lenses,
per dozen $1.70

No. 27—Smoked lenses, doz. $2.50

ONE DOZEN IN A BOX



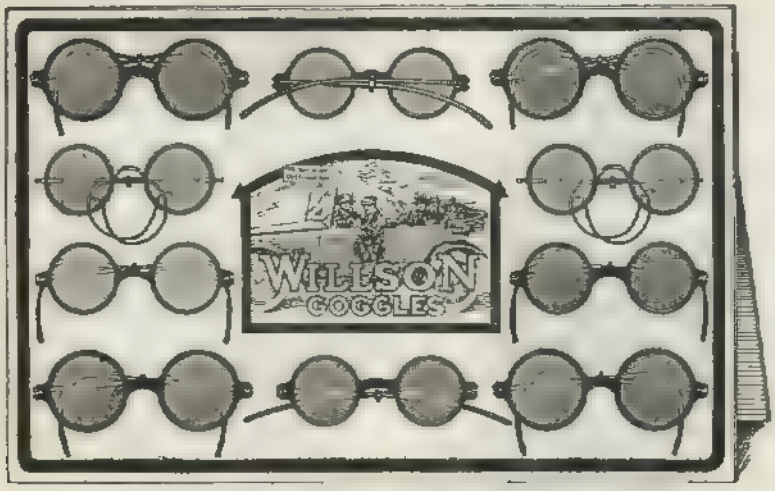
Non-Strain.

No. 284—For engineers, firemen, auto-drivers, with full vision non-strain, clear white removable glass lenses, special adjustment aluminum frame which can be fitted perfectly to contour of the face, genuine leather lined with silk chenille binding .....per dozen $15.30

No. 284 can be supplied with smoked and blue lenses for factory shipment only.

ONE PAIR IN A CARDBOARD BOX

WILLSON GOGGLE ASSORTMENTS



For Sun Glare, Dust and Wind.

Assortment consists of 10 pairs of Especially Selected goggles of the Most Popular Styles to Retail at $1.00 Per Pair.

All are fitted with Extra Fine, Large, Glass Lenses, in assorted colors—Amber, Olive, Purple and Smoke.

The frames are Comfortable, Strong and Serviceable—8 pairs have imitation tortoise shell rims, temples and bridges; 2 pairs have imitation tortoise shell rims with nickel plated binding, nickel plated bridges and nickel plated, flexible cable temples.

Mounted on a most Attractive, Colored Show Case Easel of Extra Heavy Cardboard, size 12x18 inches.

No. 10Y—Weight per assortment 1½ lbs. .....per assortment $10.30

ONE ASSORTMENT IN A BOX

COVER'S GAS TIGHT GOGGLES

These goggles are gas tight, waterproof, sanitary and will fit anybody. Many different sizes and shapes of lenses can be used as same can be replaced in a moments time and are held constrictively. Just the thing for firemen, chemical workers, lime handlers and those working in very bad dust, fumes and gases that injuriously affect the eyes. Extra thick and strong glass lenses.

No. 81—Made from a single piece of **Pure Rubber,** 2½ in. heavy clear glass lenses, elastic ribbon, per dozen $25.20

ONE IN A BOX

GOGGLES

No. 55—Extra high quality amber celluloid, size 5¼×2¾ in., ventilated, **fits the face snugly and comfortably** and **allows a full vision.** The edge is bound with extra high grade felt, fitted with extra quality elastic head band, per dozen $2.00

An ideal goggle for automobilists and farmers. Light in weight, comfortable and very durable.

ONE DOZEN IN A BOX
WE DO NOT BREAK BOXES

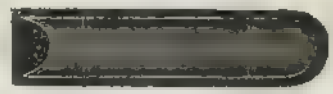
SPECTACLES

Riding Bow

No. 603½—Nickel plated frame, assorted smoked and blue glass lenses, per dozen $3.00

ONE DOZEN IN A BOX

SPECTACLE CASES



No. 60—Straight temple spectacle case, leatherette covered, flannel lined .....per dozen $1.70

No. 65—Riding Bow spectacle case, leatherette covered, flannel lined, per dozen $1.70

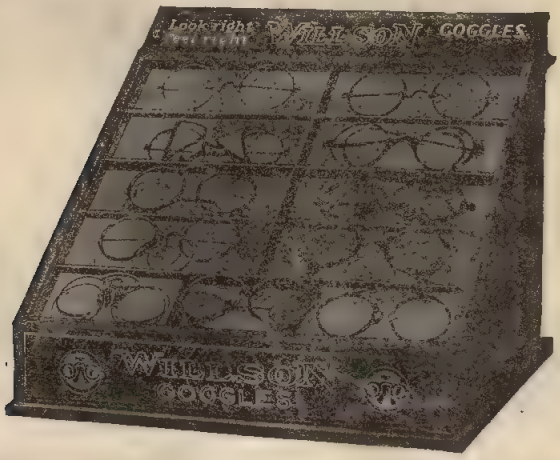
ONE DOZEN IN A BOX

RESPIRATORS

No. 80—Cover's Automatic, made of pure white rubber of perforated front, with antiseptic first quality sponge, automatic valve on the side so constructed that the air is drawn in through the sponge, and discharged through the valve, broad elastic head band, per dozen $27.00

ONE IN A BOX

ASSORTMENT OF GOGGLES, EYE PROTECTORS AND EYE GLASSES WITH FREE DISPLAY CASE



No. 1—Goggle Assortment, consisting of 30 pair, 11 different styles, all with amber color glass lenses, ranging in price from 50c to $2.00 each retail, all ready sellers, complete assortment ....each $35.20

The FREE handsome mahogany finished wood display case has glass top and space with hinged door at back for carrying stock. Size of case, 12¾ in. high, 15 in. wide and 14 in. long.

Complete Assortment packed in wooden case ready for shipment, w't. 25 lbs.

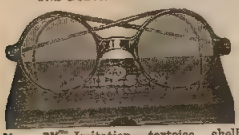
Contents of Case	Style Number	Selling Prices to Consumer
6 pairs	No. 65N.....per pair	$0.50
2 pairs	No. 6K .....per pair	1.25
4 pairs	No. 86N.....per pair	1.00
4 pairs	No. 7K .....per pair	1.00
3 pairs	No. 1A .....per pair	1.75
2 pairs	No. 1K .....per pair	1.75
2 pairs	No. 21Z .....per pair	1.75
2 pairs	No. 1Z .....per pair	1.25
2 pairs	No. 2Z .....per pair	1.75
3 pairs	No. 3K .....per pair	2.00
		.75
30 pairs Total	Total Retail Value.....	$34.50

Handsome mahogany finished wood show case FREE with this assortment.

See Page 1741 for description, illustration, etc., of each of the various styles Goggles, Eye Protectors and Eye Glasses, comprising the assortment described above.

AMBER EYE PROTECTORS

No. 68N—Nickel plated frame, with cable riding bow temples, large amber glass lenses, 1⅞ in. in diameter, without cases ...dozen $3.50
ONE DOZEN IN A CARTON



No. 7K—Imitation tortoise shell frames and riding bow temples, large round amber glass lenses, each pair in a neat box, per dozen $9.30

No. 21Z—Zyblex, fine quality imitation tortoise shell frame, high grade amber glass lenses, nickel cable riding temples, each pair in box .....per dozen $10.80

No. 1Z—Zyblex, fine quality imitation tortoise shell frame, high grade 1⅞ in. amber glass lenses, soft leather sides, nickel cable riding bow temples, made to fit any face, one pair in box ..per dozen $16.60

INDUSTRIAL GOGGLES

No. 86N—Universal, rust-proof white metal, riding bow temples, Ventilated side guards, high grade amber glass lenses, 1⅞ in. diameter, per dozen $8.00
One pair in a metal case.
ALL ABOVE HALF DOZEN IN A CARTON

AMBER EYE PROTECTORS

No. 57Z—Thin edge rims of imitation tortoise shell wire riding bow temples, large amber glass lenses 1⅞ in. in diameter. Each in a neat box .....per dozen $9.30
A very attractive spectacle.
HALF DOZEN IN A CARTON

AMBER EYEGLASSES

No. 50Z—Thin imitation tortoise shell rims, **round style,** 1⅞ in., amber glass lenses, each pair in a neat box, per dozen $7.20

A handsome conservative style for general wear. Comfortable for sun and snow glare protection.

ONE DOZEN IN A CARTON

No. 5Z—Imitation shell, **round rims** with long spring and black metal guards, 1⅞ in. round amber glass lenses, each pair in a neat box, per dozen $15.90

An unusually distinctive design often preferred by women who want sun and snow glare protection without the annoyance frequently caused by the temples of spectacles or goggles.

HALF DOZEN IN A CARTON

AMBER GOGGLES

No. 1K—Imitation tortoise shell frames, temples and side shields. Large amber glass lenses. Each pair in a neat metal box, per dozen $15.80

Of unique construction, light weight and very neat.

HALF DOZEN IN A CARTON

SELF ADJUSTING

No. 2Z—Zyblex, imitation tortoise shell frames, with a flexible nose bridge of pure silk, ventilated leather side guards, flexible cable temples of white metal, large amber glass lenses, each pair in a metal box .....per dozen $21.20

The last word in goggle comfort. The flexible silk bridge perfectly adjusts itself to the shape of the face, thus combining complete protection with unusual comfort.

HALF DOZEN IN A CARTON

ADJUSTABLE

No. 1A—Albex, nickel plated frame, flexible cable riding bow temples, **special adjustable nose bridge allows the goggle to fit the contour of any face,** extra large amber glass lenses, 1⅞ in. in diameter, each pair in a hinged metal case per dozen $16.60
HALF DOZEN IN A CARTON

GOGGLES

AMBER

Illustration shows the attractive colored cardboard display, size 6x7x4 inches, furnished free with every purchase of half dozen pairs of No. 70K eye protectors.

No. 70K—Fine imitation tortoise frames and riding bow temples, large amber glass lenses. Each pair in a neat box, per dozen $9.30

HALF DOZEN IN A COUNTER DISPLAY BOX

No. 3K—Imitation tortoise shell frames and riding bow temples, 1⅞ in. round amber glass lenses, each pair in a glassine envelope, per dozen $6.00

ONE DOZEN IN A CARTON

No. KD7—Imitation tortoise shell frames and curved bow temples, large flat top amber glass lenses, each pair in a neat box, doz. $10.80

ONE DOZEN IN A CARTON

INDUSTRIAL

Nickel plated frame, with easy cable riding bow temples, wire screen sides, 1⅞ in. glass lenses.

No. 650—Amber lenses, doz. $23.00
No. 650½—Clear lenses, doz. 23.00

ONE PAIR IN A HINGED COVERED CASE
HALF DOZEN IN A CARTON

WILLSON INDUSTRIAL GOGGLE ASSORTMENT

Gotten up especially with the idea of catering to the Railroad Men, Autoists and industrial workers who desire a goggle to afford protection to the eyes and comfort in wearing.

An attractive colored pasteboard display box furnished with every assortment of ½ dozen pairs.

Assortment consists of 6 PAIR WILLSON'S GOGGLES as follows:

2 pair style A1 CLEAR, 1⅞ in. LENSES, Willson patented adjustable bridge, ventilated leather side guards and flexible Cable earbows.

1 pair style M5, RAILROAD AMBER, same type as style A1 but of slightly heavier construction.

1 pair style E2, 1⅞ in. LENSES, Willson patented adjustable bridge, wire screen side guards and detachable elastic head-band. All face-touching parts are bound with velvet.

1 pair style H31 CLEAR, same type as style E2 except that the lenses are oval and the bridge is a "Nose-bridge" or "saddle" design.

1 pair style H31 RAILROAD AMBER, otherwise same as H31 Clear.

No. 4Y—
Per assortment of 6 pairs ..$10.80

GOGGLES

No. 36—Double Bulge, oval glass extension lenses set in first quality double bulge leather frame, with elastic cord,
per dozen $2.50

ONE DOZEN IN A BOX

GOGGLES

IL-A-NOY, mechanic's or automobile, large genuine leather mask, extra quality velvet binding, full size aluminum eye cups, extra quality elastic band.

No. 11—Clear glass lenses,
per dozen $2.50

No. 111—Smoke glass lenses,
per dozen $3.20

ONE DOZEN IN A BOX

Aluminum cups, with ventilating holes, fitted with 1⅞ in. lenses set in leather frame with elastic cord.

No. 26—Clear glass lenses,
per dozen $1.70

No. 27—Smoked lenses, doz. $2.50

ONE DOZEN IN A BOX

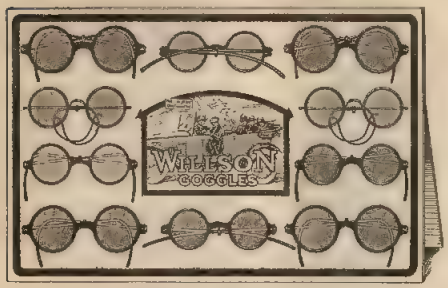
Non-Strain.

No. 284—For engineers, firemen, auto-drivers, with full vision non-strain, clear white removable glass lenses, special adjustment aluminum frame which can be fitted perfectly to contour of the face, genuine leather lined with silk chenille binding .....per dozen $15.30

No. 284 can be supplied with smoked and blue lenses for factory shipment only.

ONE PAIR IN A CARDBOARD BOX

WILLSON GOGGLE ASSORTMENTS



For Sun Glare, Dust and Wind.

Assortment consists of 10 pairs of Especially Selected goggles of the Most Popular Styles to Retail at $1.00 Per Pair.

All are fitted with Extra Fine, Large, Glass Lenses, in assorted colors—Amber, Olive, Purple and Smoke.

The frames are Comfortable, Strong and Serviceable—8 pairs have imitation tortoise shell rims, temples and bridges; 2 pairs have imitation tortoise shell rims with nickel plated binding, nickel plated bridges and nickel plated, flexible cable temples.

Mounted on a most Attractive, Colored Show Case Easel of Extra Heavy Cardboard, size 12x18 inches.

No. 10Y—Weight per assortment 1½ lbs. ....per assortment $10.30

ONE ASSORTMENT IN A BOX

COVER'S GAS TIGHT GOGGLES

These goggles are gas tight, waterproof, sanitary and will fit anybody. Many different sizes and shapes of lenses can be used as same can be replaced in a moments time and are held constrictively. Just the thing for firemen, chemical workers, lime handlers and those working in very bad dust, fumes and gases that injuriously affect the eyes. Extra thick and strong glass lenses.

No. 81—Made from a single piece of **Pure Rubber,** 2½ in. heavy clear glass lenses, elastic ribbon, per dozen $25.20

ONE IN A BOX

GOGGLES

No. 55—Extra high quality amber celluloid, size 5½x2½ in., ventilated, **fits the face snugly and comfortably** and **allows a full vision.** The edge is bound with extra high grade felt, fitted with extra quality elastic head band, per dozen **$2.00**
An ideal goggle for automobilists and farmers. Light in weight, comfortable and very durable.

ONE DOZEN IN A BOX
WE DO NOT BREAK BOXES

SPECTACLES

Riding Bow

No. 603½—Nickel plated frame, assorted smoked and blue glass lenses, per dozen $3.00

ONE DOZEN IN A BOX

SPECTACLE CASES

No. 60—Straight temple spectacle case, leatherette covered, flannel lined .....per dozen **$1.70**
No. 65—Riding Bow spectacle case, leatherette covered, flannel lined, per dozen $1.70

ONE DOZEN IN A BOX

RESPIRATORS

No. 80—Cover's Automatic, made of pure white rubber of perforated front, with antiseptic first quality sponge, automatic valve on the side so constructed that the air is drawn in through the sponge, and discharged through the valve, broad elastic head band, per dozen $27.00

ONE IN A BOX

SELF-SETTING IRON PLANES

SMOOTH BOTTOM

The cutter irons are made from special high grade steel, are thin and easily kept in order.
The malleable Frog and Steel Cap reduce greatly the liability of breakage.
Handle and knob are made of highly finished, thoroughly seasoned rosewood. They are securely fastened to plane with steel rods that have brass screw heads. Trimmings are nickel plated and japanned, giving the planes a very fine finish throughout.
The principal features of this line of new Planes are the self-setting cutting iron, the rigidity with which this is held in place by the plane cap, thus preventing any chatter in Plane, the fine adjustments that can be made with cutter for all kinds of work and the few parts used in its construction, which make it almost entirley free from any costs for repairs.
The Planes are set for fine work when they leave the factory.

SMOOTH

No. 803 ~~CVB~~—8¾ in. long, 1¾ in. cutter, w't each 3 lbs., each $5.40

No. 804 ~~CVB~~—9 in. long, 2 in. cutter, w't each 3¾ lbs., each $5.90

JACK

No. 805 ~~CVB~~—14 in. long, 2 in. cutter, w't each 4½ lbs. ..... each **$6.75**

FORE

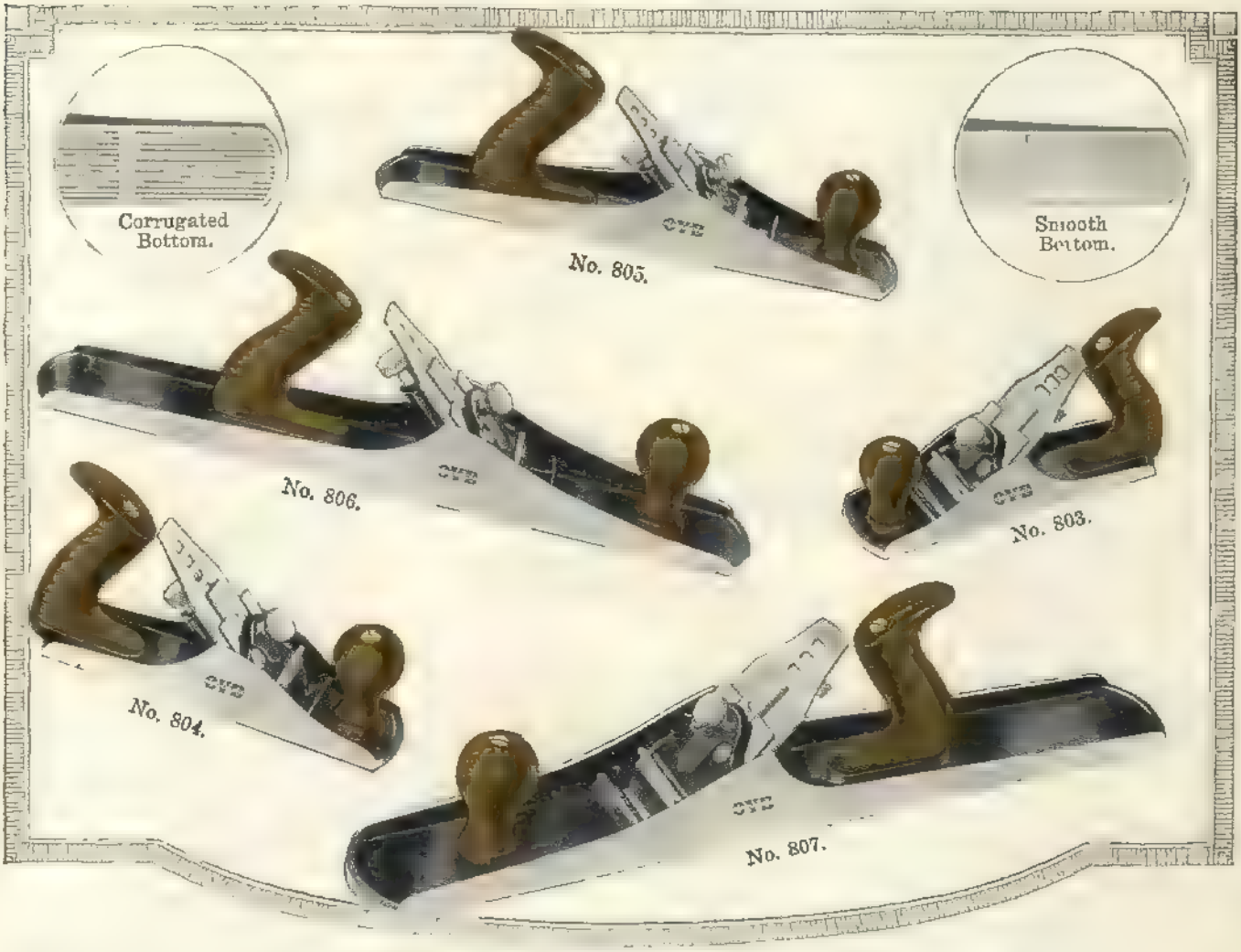
No. 806 ~~CVB~~—18 in. long, 2¼ in. cutter, w't each 5½ lbs. ..... each **$8.70**

JOINTER

No. 807 ~~CVB~~—22 in. long, 2⅜ in. cutter, w't each 7 lbs. ..... each **$9.90**

ALL ABOVE ARE ONE IN AN ATTRACTIVE BOX

SELF-SETTING PLANE ASSORTMENTS



No. E8 —Assortment consisting of 7 smooth bottom iron planes and one wood plane assorted as follows:

Qt.	No.		Retail Prices.
1	803	@	$4.50 $ 4.50
2	804	@	4.95 9.90
3	805	@	5.65 16.95
1	806	@	7.20 7.20
1	835	@	4.50 4.50
8			Total $43.05

W't per asst. 48 lbs., per assortment $52.00

No. E12 —Assortment consisting of 11 smooth bottom iron planes and one wood plane assorted as follows:

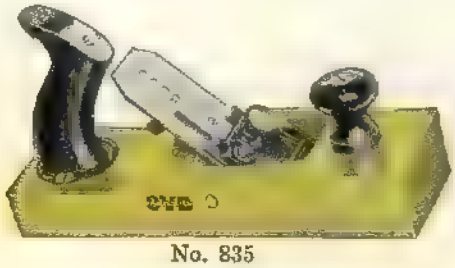
Qt.	No.		Retail Prices.
1	803	@	$4.50 $ 4.50
3	804	@	4.95 14.85
5	805	@	5.65 28.25
1	806	@	7.20 7.20
1	807	@	8.10 8.10
1	835	@	4.50 4.50
12			Total $67.40

W't per asst. 70 lbs., per assortment $81.50

No. E8C —Assortment consisting of 7 corrugated bottom iron planes and one wood plane assorted as follows:

Qt.	No.		Retail Prices.
1	803C	@	$4.75 $ 4.75
2	804C	@	5.25 10.50
3	805C	@	5.95 17.85
1	806C	@	7.60 7.60
1	835	@	4.50 4.50
8			Total $45.20

W't per asst. 48 lbs., per assortment $54.00



No. 835

No. E12C —Assortment consisting of 11 corrugated bottom iron planes and one wood plane assorted as follows:

Qt.	No.		Retail Prices.
1	803C	@	$4.75 $ 4.75
3	804C	@	5.25 15.75
5	805C	@	5.95 29.75
1	806C	@	7.60 7.60
1	807C	@	8.10 8.10
1	835	@	4.50 4.50
12			Total $70.45

W't per asst. 70 lbs. ..... per assortment $85.20

SELF-SETTING WOOD PLANES

Wood planes are preferred by many because of being lighter in weight than the iron planes.

Wood Planes are made of specially selected beechwood, thoroughly seasoned and dried.

The iron frog with adjustable throat will lengthen greatly the life of these wood planes, as this frog and throat can be moved up to permit the bottom of the plane to be trued up when worn.

The cutter iron can also be adjusted sidewise by loosening the small screw that holds the binder plate to cutter.

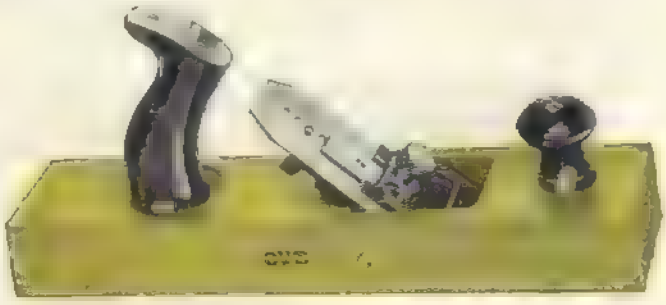
Keep cutter iron sharp and properly adjusted, and you will have a plane that is easy to push and will give the greatest satisfaction. In sharpening, care should be taken to keep the cutting edge straight and square with the edge of the cutter iron. Cutting iron can be adjusted sidewise by loosening the set screw that holds binder plate to top of cutting iron.

SMOOTH

No. 835—10 in. long, 2 in. cutter, w't each 2¾ lbs., each $6.70

No. 822—10 in. long, 1¾ in. cutter, w't each 2¼ lbs., each $6.30

JACK



No. 826—14 in. long, 2 in. cutter, w't each 4 lbs. ..... each $7.30

FORE

No. 828—18 in. long, 2¼ in. cutter, w't each 5½ lbs. ..... each $8.30

JOINTER

No. 830—22 in. long, 2⅜ in. cutter, w't 6½ lbs. ..... each $8.90

ALL ABOVE ARE ONE IN AN ATTRACTIVE BOX

SELF-SETTING IRON PLANES

CORRUGATED BOTTOM

Corrugated bottom planes are preferred by many users, because of there being less friction from the bottom, runs a little lighter. They have the self setting cutter iron made from special high grade steel.

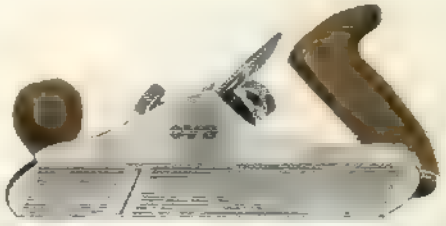
The malleable Frog and Steel Cap reduce greatly the liability of breakage.

The Handle and Knob are made of highly finished, thoroughly seasoned rosewood. These are securely fastened to plane with steel rods that have brass screw heads. Trimmings are nickel plated and japanned. Plane is finely finished throughout

The self-cutting feature lies in the construction of the plane iron. If taken out to be honed or sharpened, goes back in same position as before removal. The plane cannot chatter because the cutter iron is held rigid at the point by the cap; at the same time the cap screw used for tightening the cap is pressing against the binder plate on top of the cutter iron. This pressure against the binder plate holds the cutter firm its entire length.

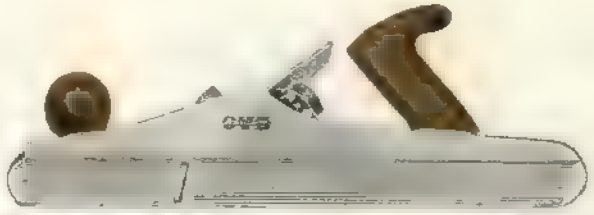
SMOOTH

No. 803C—8¾ in. long, 1¾ in. cutter, w't each 3 lbs., each $5.65



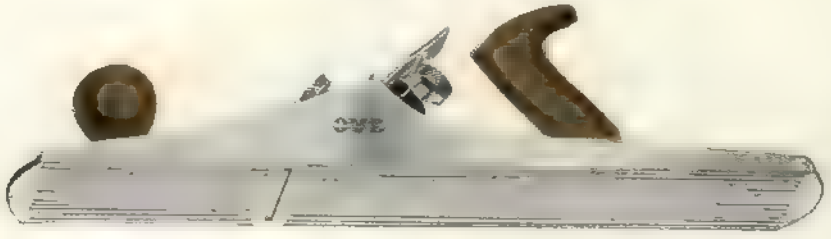
No. 804C—9 in. long, 2 in. cutter, w't each 3¼ lbs., each $6.20

JACK



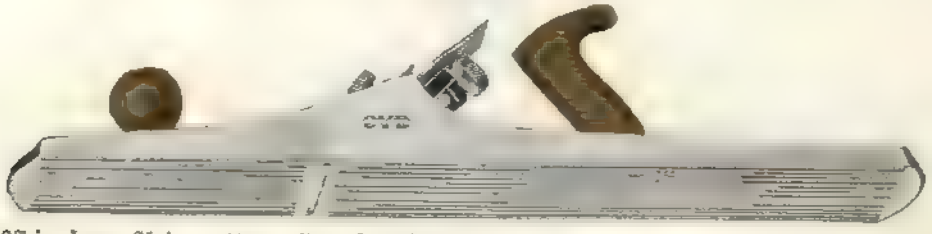
No. 805C—14 in. long, 2 in. cutter, w't each 4¾ lbs. ..... each $7.10

FORE



No. 806C—18 in. long, 2¼ in. cutter, w't each 5½ lbs. ..... each $9.10

JOINTER



No. 807C—22 in. long, 2¼ in. cutter, w't each 7 lbs. ..... each $10.40

ALL ABOVE ARE ONE IN AN ATTRACTIVE BOX

COLD CHISELS

[illegible], high grade octagon tool steel, extra quality and finish, half polished.

Inches	1-4	3-8	1-2	5-8
Point, in.	7/16	7/16	1/2	1/2
Length, in.	5	5½	6½	6½
W't, doz., lbs.	1½	2½	4½	7
Per dozen	$4.60	5.00	5.60	7.00

Inches	3-4	7-8	1
Point, in.	5/8	1	1½
Length, in.	7½	7½	7½
W't per doz., lbs.	11	14½	19
Per dozen	$9.60	13.40	16.00

¼ AND ⅜ IN., ONE DOZEN; BALANCE HALF DOZEN IN A BOX

[illegible], octagon, tool steel, extra quality, oil finished stock, polished blades.

Size, in.	1-4	3-8	1-2	5-8
Point, in.	7/16	7/16	1/2	1/2
Length, in.	5½	5½	6	7
W't, doz., lbs.	1½	2½	4½	7
Per dozen	$4.20	4.70	5.20	6.30

Size, in.	3-4	7-8	1
Point, in.	5/8	1	1½
Length, in.	7½	8	8
W't per doz., lbs.	11	14	20
Per dozen	$9.00	12.50	15.00

¼ AND ⅜ IN., ONE DOZEN; BALANCE HALF DOZEN IN A BOX

Hexagon, Cast Steel, Natural Finish.

No. 4—

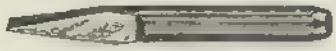
Inches	1-4	3-8	1-2	5-8
Point, in.	¼	¼	⅜	⅜
Length, in.	5½	5½	6½	7
W't, doz., lbs.	1½	2½	4½	7
Per dozen	$2.00	2.40	2.80	4.00

No. 4—

Inches	3-4	7-8	1
Point, in.	1	1	1½
Length, in.	7½	7½	8
W't per doz., lbs.	11	15	20
Per dozen	$5.00	8.00	11.20

¼ AND ⅜ IN., ONE DOZEN; BALANCE HALF DOZEN IN A BOX

CAPE CHISELS



Octagon, Tool Steel, Oil Tempered.

Size at point, in.	1-4	5-16	3-8	1-2
Diam., in.	5/8	5/8	5/8	5/8
Length, in.	7	7	7	7½
W't, doz., lbs.	6	6½	6½	9½
Per dozen	$6.20	6.40	6.70	8.80

HALF DOZEN IN A BOX

LONG BRICK CHISELS

Inches	1-2	5-8	3-4
Length, in.	12	16	18
W't doz., lbs.	8	17	18
Per dozen	$6.00	8.40	12.00

HALF DOZEN IN A PACKAGE

DIAMOND POINT CHISELS

Octagon, Tool Steel, Oil Tempered.

Size at point, in.	1-4	5-16	3-8	1-2
Diam., in.	5/8	5/8	5/8	5/8
Length, in.	7½	7½	7½	7½
W't, doz., lbs.	7	7	7½	15
Per dozen	$6.90	7.00	8.80	11.40

HALF DOZEN IN A BOX

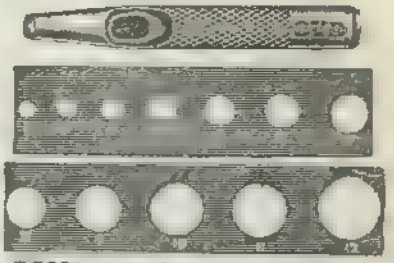
ROUND NOSE CHISELS

Octagon, Tool Steel, Oil Tempered.

Size at point, in.	1-4	5-16	3-8	1-2
Diam., in.	5/8	5/8	5/8	5/8
Length, in.	6½	7	7	7½
W't, doz., lbs.	5½	6	6	9½
Per dozen	$6.20	6.40	6.70	8.80

HALF DOZEN IN A BOX

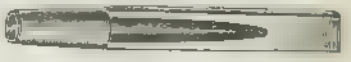
SADDLERS' OR BELT PUNCHES



[illegible], length 4 in., forged from fine tool steel, polished handle, blued barrel, evenly tempered, carefully milled, reamed to allow easy clearance in punching.

[illegible], sizes 1, 2 and 3, w't doz. 1½ lbs. .....per dozen $5.60
[illegible], sizes 4 and 5, w't, doz. 1¾ lbs., per dozen $6.40
[illegible], sizes 6 and 7, w't, doz. 2½ lbs., per dozen $6.80
[illegible], sizes 8 and 9, w't, doz. 3 lbs., per dozen $8.00
[illegible], sizes 10 and 12, w't, doz. 4 lbs., per dozen $9.00

ONE DOZEN IN A BOX



Cast steel, polished, length 3¾ in.

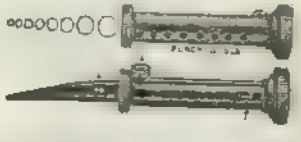
No. 50 [illegible]—Sizes 1, 2, 3, 4, 5 and 6, w't per doz. ¾ lb., per dozen $3.10
No. 50 [illegible]—Sizes 7, 8 and 9, w't doz. 1¼ lbs. .....per dozen $3.80
No. 50 [illegible]—Sizes 10 and 12, w't doz. 1½ lbs. .....per dozen $5.00

ONE DOZEN IN A BOX

Tool steel, tempered, length 3½ in.

No. 33—Sizes 1, 2, 3, 4, 5 and 6, w't doz. ⅝ lb. .....per dozen $2.50
No. 33—Sizes 7, 8 and 9, w't doz. 1¼ lbs. .....per dozen $2.80
No. 33—Size 10, w't, doz. 1¾ lbs., per dozen $3.50

ONE DOZEN IN A BOX



A handy vest pocket punch. Adjustable blade. Can cut any size hole from 1/16 to ⅜ in., easily sharpened on a stone when dull. Cutter is pushed into handle when not in use.

No. 70—Rogers, fine quality steel, length 3 in. closed, 5¼ in. when open, w't per doz. 2 lbs., per dozen $12.00

ONE DOZEN IN A BOX

DROP FORGED STEEL WRENCHES

CRESCENT, single end, forged steel ribbed handle, special steel jaws, hardened, tempered and polished, 22½ degree angle engineer's wrench.

Nos.	504	506	508
Size, in.	4	6	8
Opening, in.	½	¾	1 5/16
W't per doz., lbs.	1½	4	8
Per dozen	$12.15	12.15	15 00

Nos.	5010	5012	5015	5018
Size in.	10	12	15	18
Opening, in.	1½	1 5/16	1 11/16	2 1/16
W't, doz., lbs.	15	24	52	84
Per dozen	$18.70	28.00	42.00	60.80

STOCK REPAIRS

Jaws.

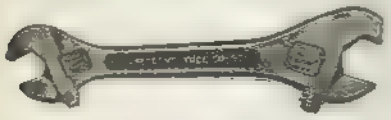
Nos.	54	56	58	510	512
Size, in.	4	6	8	10	12
Per dozen	$4.80	4.80	5.76	7.68	11.52

Thumb Knurls.

Per dozen	$1.90	1.90	2.30	2.90	4.80

Pins.

Per dozen	$0.95	.95	.95	.95	1.90



CRESCENT, double end, forged steel, ribbed handle, special steel jaws, hardened, tempered and polished, 22½ degree angle engineer's wrench.

Parts are interchangeable with Crescent single end wrenches.

Nos.	46	68	80	112
Size, in.	6	8	10	12
Opening, in.	½&¾	¾& 1½	1½& 1¾	1¾ to 1⅞
W't, doz., lbs.	5	8½	15	27
Per dozen	$20.60	23.40	28.00	37.45

ONE IN A BOX

CARLL ADJUSTABLE

Polished jaws, natural finish handles. Drop forged from high grade steel, carefully hardened and tempered, sliding jaws are reversible and can be used for either nut or pipe wrench, also on square or hexagon nuts. Knurl fitted with spiral spring for holding adjustment.

Nos.	66	88	610
Size, in.	6	8	10
Opening, in.	1	1½	1¾
W't per doz., lbs.	5	10	18
Per dozen	$15.00	18.00	23 50

ONE IN A BOX
HALF DOZEN IN A CARTON

GENERAL PURPOSE WRENCHES

Drop Forged Steel, Semi-Finished, Case Hardened.

Nos.	475T	477T	479T
Size bolts, in.	⅜ to ½	½ to ⅝	⅝ to ¾
Openings, in.	½&⅝	⅝&¾	¾&⅞
Length, in.	6½	7½	8½
W't per doz., lbs.	2	3½	6½
Per dozen	$3.50	4.30	5.50

Nos.	481T	483T
Size bolts, in.	¾ to ⅞	⅞ to 1
Openings, in.	⅞ & 1	1 & 1⅛
Length, in.	9½	10⅝
W't per doz., lbs.	9½	14
Per dozen	$7.10	9.00

Drop Forged Steel, Unfinished.

Nos.	475	477	479
Size bolts, in.	⅜ to ½	½ to ⅝	⅝ to ¾
Openings, in.	½&⅝	⅝&¾	¾&⅞
Length, in.	6½	7½	8½
W't per doz., lbs.	2	3½	6½
Per dozen	$2.30	3.00	3.75

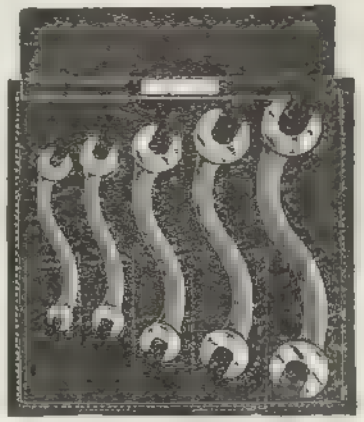
Nos.	481	483
Size bolts, in.	¾ to ⅞	⅞ to 1
Openings, in.	1 & 1⅛	1⅛ & 1¼
Length, in.	9½	10⅝
W't per doz., lbs.	9½	14
Per dozen	$4.90	6.50

HALF DOZEN IN A BOX

GENERAL PURPOSE SETS IN BUNDLES

No. 105—One each Nos. 475, 477, 479, 481 and 483, w't per set 2½ lbs., per set $1.70

GENERAL PURPOSE SETS

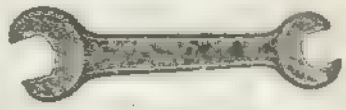


Set constits of 5 wrenches, one each Nos. 475, 477, 481 and 483. For Bolts 5/16 to ¾ in. In canvas rolls.

Nos. 110—Unfinished, drop forged, w't per set 2¾ lbs. ..... per set $1.90

No. 115—Semi-finished, case hardened. w't per set 2¾ lbs., per set $2.40

DROP FORGED STEEL WRENCHES



UNFINISHED, double head, engineers' pattern, 15 degree angle, milled for U. S. standard nuts.

Nos.	21	23	25
Size bolts, in.	¼&⅜	⅜&½	½&⅝
Openings, in.	⅜&½	½&⅝	⅝&¾
Extreme length, in.	3½	4	4⅞
W't, doz., lbs.	2	2½	2¾
Per dozen	$1.60	1.80	2.15

Nos.	27	29	31
Size bolts, in.	⅝&¾	¾&⅞	⅞&1
Openings, in.	½&⅝	⅝&¾	¾&⅞
Extreme length, in.	5⅞	6⅞	7⅞
W't, doz., lbs.	3½	4½	7
Per dozen	$2.70	3.45	3.90

Nos.	33	35	37
Size bolts, in.	½&⅝	⅝&¾	¾&⅞
Openings, in.	¾&⅞	⅞&1 1/16	1 1/16&1⅛
Extreme length, in.	8½	9½	11⅝
W't, doz., lbs.	8½	12½	18½
Per dozen	$4.80	5.90	8.50

Nos.	39	41
Size bolts, in.	¾&⅞	⅞&1
Openings, in.	1⅛&1 1/16	1 1/16&1⅛
Extreme length, in.	13½	13½
W't, doz., lbs.	24	36
Per dozen	$12.95	18.00

LOOSE

SEMI-FINISHED, double head, engineers' pattern, 15 degree angle, milled for U. S. standard nuts, case hardened.

Nos.	21T	23T	25T
Size bolts, in.	¼&⅜	⅜&½	½&⅝
Openings, in.	⅜&½	½&⅝	⅝&¾
Extreme length, in.	3½	4	4⅞
W't, doz., lbs.	2	2½	2¾
Per dozen	$2.15	3.25	3.25

Nos.	27T	29T	31T
Size bolts, in.	⅝&¾	¾&⅞	⅞&1
Openings, in.	½&⅝	⅝&¾	¾&⅞
Extreme length, in.	5⅞	6⅞	7⅞
W't, doz., lbs.	3½	4½	7
Per dozen	$4.00	4.80	5.80

Nos.	33T	35T	37T
Size bolts, in.	½&⅝	⅝&¾	¾&⅞
Openings, in.	¾&⅞	⅞&1 1/16	1 1/16&1⅛
Extreme length, in.	8½	9½	11⅝
W't, doz., lbs.	8½	12½	18½
Per dozen	$7.10	8.80	12.40

LOOSE

WRENCHES

REVONOC KNIFE HANDLE

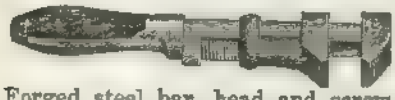
Forged steel bar through end of handle, case hardened jaws, two rivets in handle.

Nos.	146	148	1410
Length, in.	6	8	10
Opening, in.	⅞	1½	1¾
Dozen in a box	½	½	¼
W't, doz., lbs.	9	16	26
Per dozen	$15.00	18.00	22.00

Nos.	1412	1415	1418
Length, in.	12	15	18
Opening in.	2½	2 9/16	3½
Doz. in a box	½	¼	¼
W't, doz., lbs.	38	55	80
Per dozen	$28.00	38.00	48.00

HALF DOZEN IN A PACKAGE

COE'S STANDARD



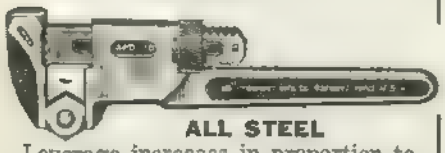
Forged steel bar, head and screw, varnished hardwood knife handle. Wearing surfaces hardened; handle scales retained at ends and in centre. Each integral part is a solid piece, no rivets in jaw, or pins in screw.

Nos.	106	108	1010	1012
Length, in.	6	8	10	12
Opening, in.	⅝	1½	1⅞	2½
Doz. in pkg.	½	½	½	½
W't doz. lbs.	8½	16	26	38
Per dozen	$15.00	18.00	22.00	28.00

Nos.	1015	1018	1015
Length, in.	15	18	21
Opening, in.	2½	3½	4
Doz. in pkg.	½	½	½
W't, doz., lbs.	56	81	108
Per dozen	$38.00	48.00	58.00

HALF DOZEN IN A PACKAGE

TRIMO MONKEY



ALL STEEL

Leverage increases in proportion to increased size of nut, as movable jaw extends forward instead of toward handle to adjust. Threads of both jaw and nut rounded rendering them practically indestructible, all steel, drop-forged, and hardened; the nut-guards keep the jaws in adjustment.

Nos.	176	178	1710	1712
Length, in.	6	8	10	12
Opening, in.	1 1/16	1 5/16	1⅝	2⅛
Doz. in box	½	½	½	½
W't dz., lbs.	10	18	33	50
Per dozen	$15.00	18.00	22.00	28.00

Nos.	1715	1718	1721
Length, in.	15	18	21
Opening, in.	2⅝	3¼	4⅛
Doz. in box	¼	¼	1/12
W't per dz., lbs.	73	102	162
Per dozen	$38.00	48.00	58.00

GIRARD AGRICULTURAL

Wrought steel bar, head and screw, oil finished hardwood handle.

Nos.	406	408	410
Length, in.	6	8	10
Opening, in.	⅞	1½	1⅝
W't, doz., lbs.	8	15	22
Per dozen	$10.00	12.00	14.00

Nos.	412	415
Length, in.	12	15
Opening, in.	2	2¾
W't per doz., lbs.	26	40
Per dozen	$18.00	24.00

HALF DOZEN IN A PACKAGE

P. S. & CO.'S SOLID HANDLE

One piece, solid steel forging, case hardened, oil finished hardwood riveted handle, warranted.

Nos.	866	868	8610	8612
Length, in.	6	8	10	12
Opening, in.	⅞	1½	1⅞	2⅛
Doz. in box	½	½	½	½
W't, dz., lbs.	9	16	26	38
Per dozen	$15.00	18.00	22.00	28.00

Nos.	8615	8618	8621
Length, in.	15	18	21
Opening, in.	2 9/16	3⅛	4
Doz. in box	½	½	1/12
W't doz., lbs.	55	80	126
Per dozen	$38.00	48.00	58.00

HALF DOZEN IN A PACKAGE

P. S. & CO.'S ALL STEEL

Head, bar and handle forged solid from one piece of steel, black.

Nos.	876	878	8710	8712
Length, in.	6	8	10	12
Opening, in.	⅞	1½	1⅞	2⅛
Doz. in box	½	½	½	½
W't, dz., lbs.	10	18	33	50
Per dozen	$15.00	18.00	22.00	28.00

Nos.	8715	8718	8721
Length, in.	15	18	21
Opening, in.	2 9/16	3⅛	4
Doz. in box	½	½	1/12
W't doz., lbs.	73	102	162
Per dozen	$38.00	48.00	58.00

ADJUSTABLE "S"

B. & C. WESTCOTT PATTERN, malleable frame, japanned, polished jaws and edges, adjustable.

Nos.	486	488	4810
Length, in.	6	8	10
Opening, in.	1	1½	1¾
W't, doz., lbs.	6	12	24
Per dozen	$8.00	10.00	12.00

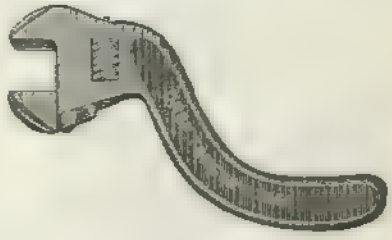
Nos.	4812	4814
Length, in.	12	14
W't per doz., lbs.	36	57
Per dozen	$18.00	24.00

HALF DOZEN IN A BOX

Adjustable wrenches, malleable frame, japanned, polished jaws and edges.

Nos.	756	758	7510
Length, in.	6	8	10
Opening, in.	1	1⅜	1¾
W't, doz., lbs.	6	12	20
Per dozen	$8.00	10.00	12.00

HALF DOZEN IN A BOX



ROBINSON

Drop forged, from high grade steel, natural finish, polished jaws.

There are two grooves on the movable jaw where it moves through the frame which adds considerably to the strength and firmness of this wrench. Jaws are also thinner than other wrenches which permits their use in places heretofore inaccessible. The opening in jaws are also wider.

Nos.	516	518	520
Length, in.	6	8	10
Opening, in.	1½	1⅜	1¾
W't doz., lbs.	7	11	22
Per dozen	$16.80	21.00	28.00

HALF DOZEN IN A BOX

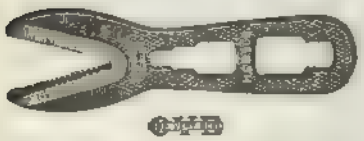
WRENCHES

ALLIGATOR PATTERN

5½ in., cast steel, open handle, polished jaws, for ⅜ to ⅝ in. pipe and ⅜ to ⅝ in. round iron.

No. 1 —Case hardened, w't per doz. 3¾ lbs. .....per dozen $2.50

ONE DOZEN IN A BOX



Drop forged steel, polished raised jaws, open handle.

Nos.	12	13
Length, in.	5½	7
For pipe, in.	⅜ to 1	⅜ to ⅝
For round iron, in.	⅜ to ⅝	⅝ to 1⅛
W't doz., lbs.	4½	9¾
Per dozen	$4.00	7.20

NO. 12, ONE DOZEN; NO. 13, HALF DOZEN IN A BOX

TWIN ALLIGATOR PATTERN

No. 130 —10 in., drop forged steel, polished raised jaws, for pipe ⅜ to ⅝ in., for round iron ⅜ to 1 in., w't per doz. 15 lbs.
per dozen $12.00

HALF DOZEN IN A BOX

BONSON

No. 204—6 in., drop forged nickel plated, carefully tempered, consists of 4 open end slotted wrenches fastened together with bolt and wing nut, wrenches fit U. S. Standard nuts on bolts from ⅜ to 7/16 in. diameter, also has ¾6 in. square opening in head of ⅜ in. wrench, w't per doz. 6 lbs. .....per dozen $14.00

ONE IN A BOX; ONE DOZEN IN A CARTON

UNIVERSAL GRIP

Drop forged, nicely finished, guaranteed first class.

No. 850 —8½ in., polished raised surfaces, grips from ⅜ to 1 in. diameters, dies for re-threading ⅝, ¾ and ⅞ in. bolts, w't per doz., 11½ lbs. $8.00

HALF DOZEN IN A PACKAGE

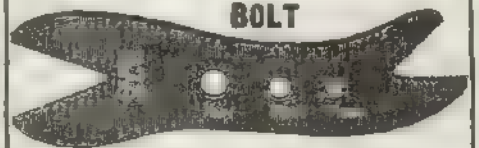
ALWAYS READY

Drop forged steel, chased body, polished raised jaws.

Nos.	101	102
Length, in.	5	7
For nuts, in.	⅜ to ⅝	⅜ to 1¼
W't doz., lbs.	6	12¾
Per dozen	$6.40	8.40

HALF DOZEN IN A BOX

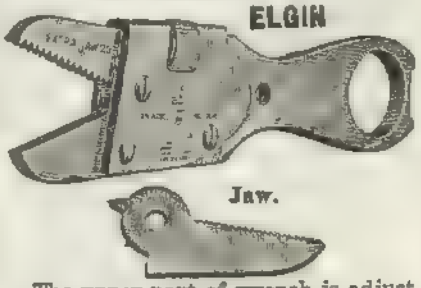
BOLT



No. 23 —6 in., black, solid, cast steel of superior quality, oil tempered, re-threads, bolts 5-16, ⅜ and ½ in., for round iron ¼ ⅞ in., w't per doz. 3¾ lbs. ....per dozen $6.00

ONE DOZEN IN A BOX

ELGIN



Jaw.

The upper part of wrench is adjustable and is held open by a spring. It can be closed by the thumb nut until both jaws meet, giving the tool a wide range of work. The extra jaws are very easily adjusted and they renew the wrench indefinitely.

No. 202—7 in., for ⅜ to ⅝ in. pipe and ¼ to ⅝ in. round iron, wrought steel, hardened jaws, nickel plated and polished, w't per doz. 7½ lbs., per dozen $24.00

Extra Toothed Jaws 6.00

ONE DOZEN IN A BOX

ORUSO WRENCH SETS

These are strong serviceable wrenches at a very attractive price.

No. 125 — Consists of five standard double end white nickel finish wrenches, made from heavy stamped steel case, hardened steel case hardened, sizes range 7/16 and ½, 9/16 and 19/32, ⅝ and 11/16, ¾ and ⅞, 15/16 and 1 in., w't per set 1¼ lbs., per set $0.85

ONE SET IN A BOX

BIT BRACE SOCKET WRENCHES

Made of malleable, hardened so as to give the greatest strength. Nicely finished, japanned body, polished head and shank. Each size is accurately drifted to United States standard nut size. A shoulder prevents the nut working far up into the wrench and the open shank prevents clogging with dirt, also enabling the user to handle dirt, also enabling use of wrench in places where brace would not go.

Square opening for U. S. standard nuts, cap screws and set screws.

Nos.	152	153	154	155
Openings, in.	⅜	7/16	½	19/32
Bolt size	5/16	...	¼	5/16
Cap screw	¼	5/16	⅜	7/16
Set screw	⅜	7/16	½	9/16
W't per doz, lbs.	1¾	1¾	2⅜	2¾
Per dozen	$4.20	4.80	5.40	6.00
Nos.	**156**	**157**	**158**	**159**
Openings, in.	⅜	25/32	⅝	1
Bolt size	⅜	7/16	½	9/16
Cap screw	½	⅜	⅝	...
Set screw	⅜	⅝	⅝	1
W't per doz., lbs	3½	4½	5½	6½
Per dozen	$7.20	8.40	9.00	9.60

Hexagon openings for U. S. standard nuts and cap screws.

Nos.	167	168	169
Openings	7/16	½	19/32
Bolt size	½	5/16	⅜
Cap screws	½	5/16	⅜
W't per doz., lbs.	1½	2	2½
Per dozen	$4.80	5.40	6.00
Nos.	**170**	**172**	**173**
Openings, in.	⅜	25/32	⅞
Bolt size	...	½	5/16
Cap screw	7/16	½	⅜
W't per doz., lbs.	2½	3½	4½
Per dozen	$7.20	8.40	9.00

ONE DOZEN IN A BOX

CHECK NUT OR THIN WRENCHES

WILLIAM'S

Semi-finished, drop forged, double head, 15 degree angle, milled for U. S. Standard nuts and cap screws.

Nos.	623	623D	626
Size Bolt, in.	5/16×1/4	1/4	1/4×5/16
Cap Screws, in.		1/4&5/16	
Openings, in.	11/32&1/4	5/16&1/4	1/4&11/32
Extreme length, in.	4 1/8	4 1/8	4 1/8
W't, doz., lbs.	1 1/2	1 1/2	1 1/2
Per dozen	$3.60	3.60	3.60

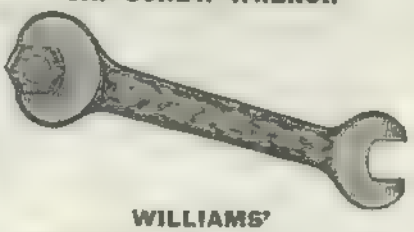
Nos.	626S	627	629
Size Bolt, in.		5/16×3/8	3/8×7/16
Cap Screws, in.	3/8×7/16		
Openings, in.	7/16&3/8	13/32&1/2	11/16&33/64
Extreme length, in.	5 1/2	5 1/2	6 1/2
W't, doz., lbs.	3	3	5
Per dozen	$4.60	4.60	5.75

Nos.	629E	631
Size Bolt, in.	1/4	7/16×1/4
Cap Screws, in.	1/4&5/16	
Openings, in.	3/8&1/4	33/64&5/16
Extreme length, in.	6 1/2	6 1/2
W't, doz., lbs.	5	5
Per dozen	$5.75	5.75

Nos.	632	632X
Size Bolt, in.	7/16×7/16	
Cap Screws, in.		3/8
Openings, in.	19/32&9/16	15/16&1
Extreme length, in.	8 1/2	8 1/2
W't, doz., lbs.	9	9
Per dozen	$8.00	8.00

PACKED LOOSE

CAP SCREW WRENCH



WILLIAMS'

Semi-finshed, drop forged, double head, 15 degree angle, for Hexagon Head Cap Screws.

Nos.	721	723	723A
Size, Screws	1/4&5/16	5/16&3/8	5/16&7/16
Openings, milled	5/16&3/8	3/8&7/16	3/8&1/2
Thickness, head	5/16	1/4	1/4
Extreme length, in.	3 1/2	4	4
W't, doz., lbs.	1	1 1/2	1 1/2
Per dozen	$2.45	3.00	3.00

Nos.	725	725A	725B
Size Screws	1/4&3/8	1/4&5/16	5/16&3/8
Openings, milled	7/16&1/2	1/2&9/16	9/16&5/8
Thickness, head	9/32	9/32	9/32
Extreme length, in.	4 1/4	4 1/4	4 1/4
W't, doz., lbs.	2 3/4	2 3/4	2 3/4
Per dozen	$3.60	3.60	3.60

Nos.	727	729
Size Screws	3/8&7/16	7/16&1/2
Openings, milled	7/16&5/8	5/8&3/4
Thickness, head	5/16	11/32
Extreme length, in.	5 1/2	6 1/2
W't per doz., lbs.	5	6
Per dozen	$4.45	5.30

Nos.	731	731A
Size Screws	1/2&5/8	1/2&3/4
Openings, milled	3/4&11/16	3/4&7/8
Thickness, head	13/32	13/32
Extreme length, in.	7 1/2	7 1/2
W't per doz., lbs.	8 1/2	8 1/2
Per dozen	$6.50	6.50

WRENCH ASSORTMENTS

GENUINE CRESCENT

No. E5—Consists of six each 4 and 10 in. and No. 68 twelve each 6 and 8 in., three each 12 in. and No. 80 one each 15 and 18 in., with handsome display board. This 26x25 in. board is made of selected quartered oak, five-ply veneered to prevent warping. It is surrounded by an ornamental molding. Upon the board is mounted a decalcomania transfer showing each wrench in its natural color and full size with the lettering in black and gold. The board is then given a high-rubbed varnish finish, in natural oak, equal to that of the finest furniture, w't each 75 lbs. .....each $76.90

WRENCH ASSORTMENTS

All Semi-finished Wrenches. Use our 021T line to fill in for these assortments.

Eighty-four 15 degree angle, double head wrenches in 14 sizes.

SIX EACH OF THE FOLLOWING NOS.

THIN WRENCHES

		Opening, in.
No. 623D		1/4 and 1/4
No. 626S		3/16 and 1/4
No. 627		9/32 and 11/16
No. 629E		1/4 and 3/8
No. 632		25/32 and 31/32
No. 632X		15/16 and 1

ENGINEERS' WRENCHES

		Opening, in.
No. 21		5/16 and 13/32
No. 23		15/32 and 1/2
No. 725		7/16 and 1/4
No. 27		19/32 and 11/16
No. 727		9/16 and 11/16
No. 731A		3/4 and 7/8
No. 32		25/32 and 31/32
No. 33C		15/16 and 1

No. 1D—Assortment on a 15x24 in. board, w't per ass't 41 lbs., per assortment $39.50

ONE ASSORTMENT IN A BOX

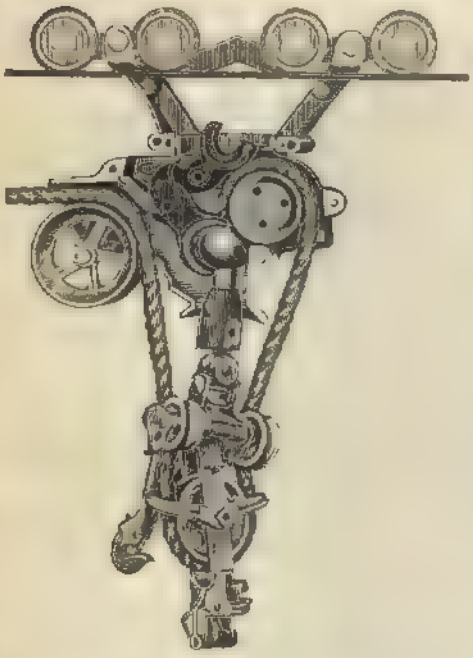
CAR WRENCHES

UNFINISHED, 22½ degree angle, milled for U. S. standard nuts.

Nos.	367	373
Size bolts, in.	3/8&1/2	5/8&3/4
Openings, in.	21/32&25/32	1 1/32&1 5/32
Length, in.	12	20
W't per doz., lbs.	18	42
Per dozen	$7.60	14.90
Nos.	**376**	**383**
Size bolts, in.	3/4&7/8	1&1 1/4
Openings, in.	1 5/16&1 1/2	1 11/16&2 5/16
Length, in.	21	24
W't per doz., lbs.	48	77
Per dozen	$18.50	30.80

LOOSE

ADVANCE HAY CARRIERS



This sectional view of the No. 1 Advance Sling Carrier illustrates the simplicity and strength, together with the ease of operation, which are very marked features of this carrier. The extra long carriage, having four trucks and eight wheels, gives long bearing on the track and distributes the weight of the load, thereby reducing the strain on the track and making the moving of the load an easy operation. Heavy steel arms and cross piece are one-piece casting, making them very rigid; while the angle at which the arms are set and the flexibility of the individual trucks upon which the wheels are mounted eliminates practically all vibration—saving much wear and reducing the danger of breakage. Swivel frame allows load to be placed in any desired position before being tripped, and saves much handling with fork. The draft rope pulls registering head directly into mouth of carrier where it is engaged by dogs on either side, this suspends the entire load direct from the carrier and relieves rope of all strain; there are no rope grips used, as they chafe and wear the rope at all times and cause great damage to the rope where they grip to hold load while the carrier is being moved. The locking device for stop lock is positive in action, and releases automatically only after the registering head has been made secure in the carrier mechanism. These features are very important, and are exclusive with the Advance Carrier. When roped triple draft (as shown in illustration) the heaviest sling loads are handled by the No. 1 Advance Carrier with great ease.

TO ROPE ADVANCE CARRIERS AND PULLEYS

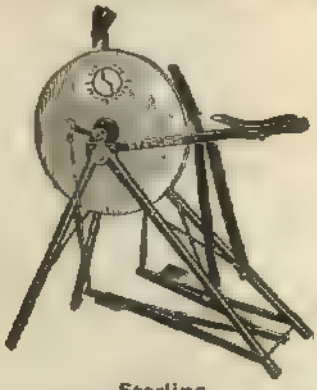
The above illustration shows how the Advance Carrier can be roped either double or triple draft with the equipment furnished with each carrier and no extra parts required in either case.

Fig. A—Shows triple draft arrangement commonly used. Here the trip, F16, is placed in the pulley in place of Rope Swivel, F27, and to which end of the draft rope is attached.

Fig. B—Shows carrier and pulleys roped triple draft also, only in a different manner. Here the swivel, F27, is placed in the pulley to which end of the draft rope is attached. The lower part of F18 is removed that F17 may be clamped on the rope any place between the carrier and pulleys. This arrangement is very practical in certain cases, as it saves hoisting the load to the peak of the barn to carry into the mow if the building is so constructed that it will otherwise permit. While the load is thus suspended it may be put into a swinging motion before pulling the trip rope and thus save labor spreading the hay.

Fig. C—Shows double draft arrangement. Here F17 is used in the pulley as a register head and Swivel, F27 placed in the carrier, which are also made so it can be attached as indicated, and to which end of draft rope is fastened.

CLEVELAND MOUNTED GRINDSTONES

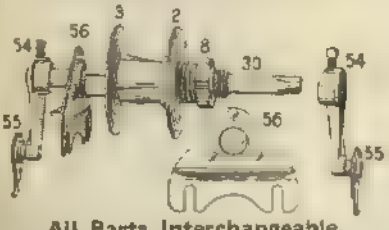


Sterling

Ball bearing; tubular steel frame; rods and bolts threaded, no center pins to loosen; large comfortable seat and clothes protector; mounted with genuine Berea stone, 19 to 22 inches diameter, 1¾ to 2¼ inches thick, weighing 50 to 60 pounds, enameled a rich vermillion. Each

No. 100 Sterling Mounted Grindstone; wgt 100 lbs.....$ 13.00

STERLING FIXTURES



All Parts Interchangeable.

No. 30	**Shaft with Nut**	Each $0 60
No. 8	**Nut for Shaft Hub complete**	Each .10
No. 2	**Flange**	Each .10
No. 3	**Flange Nipple**	Each .30
No. 54	**Crank and Set Screw**	Each .25
No. 55	**Pitman Bearing**	Each .20
No. 56	**Shaft Bearing**	Each .30
	Complete Set	Dozen 22 00

NORKA

Norka

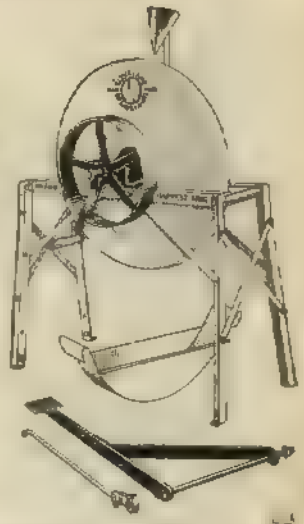
Heavy and heavy tubular steel frame, strongly braced and held at the top by two heavy steel clamps; clamps also contain anti-friction roller bearings on which axle turns; axle is steel and a special bushing is used to hold stone securely to axle; adjustable seat; genuine Berea stone 19 to 22 inches in diameter by 1¾ to 2 inches thick weight about 80 pounds Each $12.00

Norka Mounted Grindstone;

Crated. Third class freight

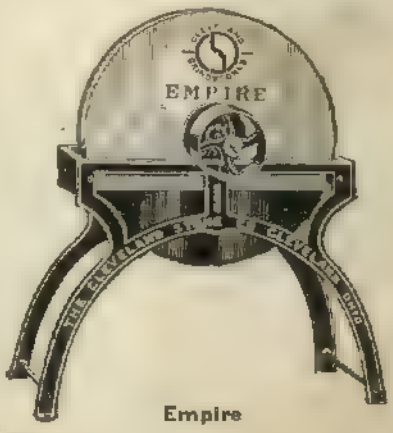
HARVEST KING

Frame of heavy angle steel 1¼x1¼x⅛ inch, strongly braced; equipped with 24x3 inch grindstone for a ⅝ inch shaft; 12x2⅜ inch pulley and heavy steel roller bearings, hand crank and drip cup; finished green and black.



No. 800—Harvest King Grindstone; complete with pulley, hand crank and drip cup..Each $15 00

No. 801—Harvest King Grindstone; complete with pulley, hand crank, drip cup, trough, treadle and pitman and bearing.....Each $18 00



Empire

Possesses strength to withstand the strenuous service of every day use, light weight and easily handled; frame and trough of cast iron, does not rust out and will last a lifetime; detachable steel shaft, 6 inch pulley and hardened steel annular ball bearings; equipped with genuine Berea stone 24 inches in diameter and 2 to 3½ inches thick.

No. 500—Empire Power Grindstone; weight about 225 pounds.....Each $24 00

POWER GRINDSTONE SHAFTS

No. 1 Power Grindstone Shaft; ⅝-inch shaft, 12 inches long, pulley 7 inches diameter 2-inch face flange 4½ inches diam.; boxings 1¾ inches wide, will take stones 24 inches diameter, 4 inches thick; weight 9 pounds . Each $3 50

No. 2—Power Grindstone Shaft; 1⅛-inch shaft, 18 inches long; pulley 8½ inches diameter, 2-inch face; flanges 6 inches diameter; boxings 3 inches wide; will take stones 36 inches diameter, 4 inches thick; weight 20 pounds .....Each 6 00

Crated. Third class freight

ADVANCE HAY CARRIERS

No. 1 ADVANCE HAY SLING CARRIER

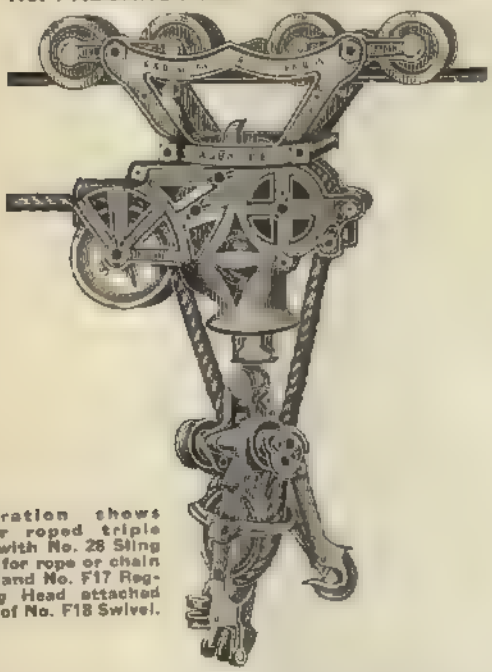


Illustration shows carrier roped triple hoist, with No. 28 Sling Pulley for rope or chain slings, and No. F17 Registering Head attached by use of No. F18 Swivel.

Swivel frame of best malleable iron; eight wheels, turned steel axles, mounted on adjustable trucks and [illegible] extra long to distribute load on track; especially designed for heavy sling work, will operate on any style steel track (when provided with proper stop lock) without use of extra parts—by placing the washers on either side of wheel arm in bifurcated frame the track wheels may be set to fit any size track from 2 to 2¾ inches wide. Has parallel pulleys, and may be roped either double or triple draft without additional parts. Draft rope takes registering head directly into mouth of carrier, where it is engaged by a positive locking device, automatically releasing carrier from stop lock, and suspending entire load direct from carrier, thus relieving draft rope from all strain; no grips to chafe or wear rope; hinge joint and swivel permits of taking load through small doors without danger of injury to equipment.

Unless otherwise ordered, No. 1 Advance Carriers are equipped complete as follows: One set No. 28 Sling Pulleys for end trip rope or chain slings, with No. 27 Swivel Rope Connection; one No. F17 Registering Head, with No. F18 Swivel; one No. 14 Stop Lock, fits Advance, Ney or Law track; and one No. 78 Safety Stop. Weight complete, 58 pounds.

No. 1—Advance Hay Sling Carriers; complete as described and illustrated above.....Each $18.40

No. 1—Advance Hay Sling Carriers; as above except with No. 20 Sling Pulley.....Each 18.00

Second class freight.

Showing in detail the adjustable feature of No. 1 Advance Hay Carrier, which permits of its use upon any width of track.

STOP LOCKS

Below is illustrated the proper Stop Lock for use with the No. 1 Advance Carrier together with the various makes of track upon which this carrier will operate.

Each
No. 14 Stop Lock [illegible] $0.65
For No. 1 Track—2 inch.
Advance, Ney, Law.

Each
No. 14L Stop Lock $0.65
For No. 6 Track 2½ inch.
Myers.

No. 18 Stop Lock $0.65
For No. 2 Track 2 inch
Porter Louden.

No. 14K Stop Lock $0.65
For No. 7 Track 2½ inch.
Janesville.

No. 15 Stop Lock [illegible] $0.65
For No 3 Track 2 inch.
Star

No. 14K Stop Lock $0.65
For No 8 Track 2½ inch.
Milwaukee

No. 14K Stop Lock $0.65
For No 4 Track 2¼ inch.
W. & B. or Diamond.

No. 14S Stop Lock $0.65
For No. 9 Track 2 inch.
Boyd or T Rail.

No. 14J Stop Lock $0.65
For No. 5 Track—2 inch
Strickler (Janesville)

No. 15 Stop Lock $0.60
For No. 10 Track 2 inch.
Star

Note—When ordering the No. 1 Advance Carrier for use on tracks other than No. 1 Advance be sure to specify number of Stop Lock wanted as above, otherwise No. 14 Stop Lock will be sent with carrier.

STOP LOCKS FOR No. 2 CARRIER ONLY

Below is illustrated the proper Stop Lock for use with the No. 2 Advance Carrier only.

Each
No 14W Stop Lock $0.65
For No. 1 Track 2 inch.
Advance Ney, Law.

Each
No. 14WS Stop Lock $0.65
For No. 9 Track 2 inch.
Boyd or T Rail.

Note.—Either of the above carriers may be used with rope, chain, center trip or slat slings, or fork; if rope or chain slings are to be used specify Sling Pulley No. 28; if center trip or slat slings specify Sling Pulley No. 20, if forks specify Fork Pulley No. 75; if slings and fork are to be used alternately specify Fork Clevis No. 41 in addition, which permits of use of fork with either No. 28 or No. 29 Sling Pulleys. This applies to all Advance Hay Carriers.

Use a pure Manila rope and not over 1⅛ inch in size, and there will be no difficulty in returning the carrier to stop lock or the pulleys to the load.

ADVANCE HAY CARRIERS

NO. 2 ADVANCE HAY SLING CARRIER

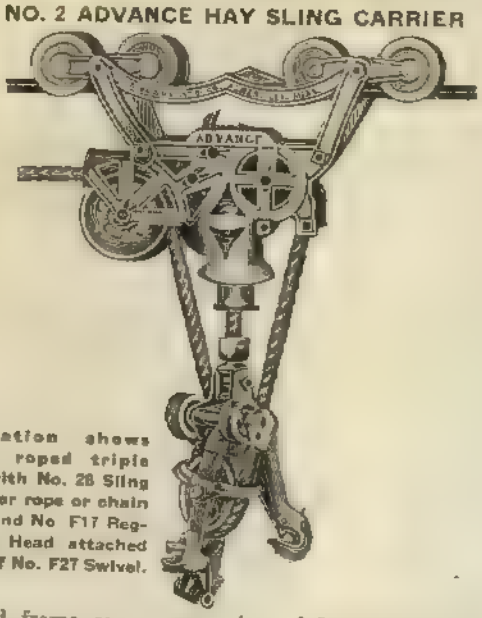


Illustration shows carrier roped triple hoist, with No. 28 Sling Pulley for rope or chain slings, and No. F17 Registering Head attached by use of No. F27 Swivel.

Solid frame one way carrier, of best malleable iron; intended for barns where hay is taken in through end door; eight wheels, turned steel axles, mounted on long trucks, operates only on No. 1 and No. 9 tracks, takes No. 14W Stop Lock for No. 1 track and No. 14Ws Stop Lock for No. 9 track. Has parallel pulleys and may be roped either double or triple draft without additional parts. Above illustration shows No. 2 Carrier roped triple draft by attaching rope to sling pulley with No. F27 Swivel and placing No. F17 Registering Head at any desired position in draft rope, in that way making it unnecessary to have extra distance to peak of barn where door room permits (see Fig. B and note on page 358). Draft rope takes registering head directly into mouth of carrier where it is engaged by a positive locking device, automatically releasing carrier from stop locks, and suspending entire load direct from carrier, thus relieving draft rope from all strain; no grips to chafe or wear rope; large joint and swivel permits of taking load through small doors without danger of injury to equipment.

Unless otherwise ordered, No. 2 Advance Carriers are equipped complete as follows: One set No. 28 Sling Pulleys, for end trip rope or chain slings, with No. 27 Swivel Rope Connection; one No. F17 Registering Head, with No. F18 Swivel; one No. 14W Stop Lock (fits Advance New or Law tracks), and one No. 75 Safety Stop. Weight complete, 54 pounds.

No. 2—Advance Hay Sling Carriers; complete as described and illustrated above. Each $16.50

No. 2 Advance Hay Sling Carriers; as above, except with No. 29 Sling Pulley. Each 16.00

Second class freight.

SAFETY STOPS

Furnished with all Advance Carriers; to be placed on under side of track about 6 inches from end to prevent carrier from leaving track. Malleable iron.

No. 78 Safety Stops
Each $0.45

ROPE SWIVEL

Furnished with all sling pulleys; used for attaching rope to pulleys or to carrier.

No. 27—Rope Swivels
weight 1½ lbs. Each $0.65

REGISTERING HEADS

When ordering registering heads always specify ox rod bar as well as by name as some makes use several different sizes of bars.

Registering Heads. Any of above patterns, average weight about 1 pound. Each $0.75

FORK PULLEY

Malleable iron frame, riveted at bottom and bolted at top; large swivel eye; 4-inch iron sheave, on 1¼-inch bearing. May be used with any make hay carrier when equipped with the proper registering head (see above). For Advance Carriers Nos. 1, 2, 3, 4 and 5 use No. F17 Registering Head, attached by use of No. 27 Swivel when roped triple draft, and No. F17 or RH26 Registering Head when roped double draft; for Advance Carrier No. 10 use No. RH55 Registering Head. **Please specify whether with or without registering head when ordering.**

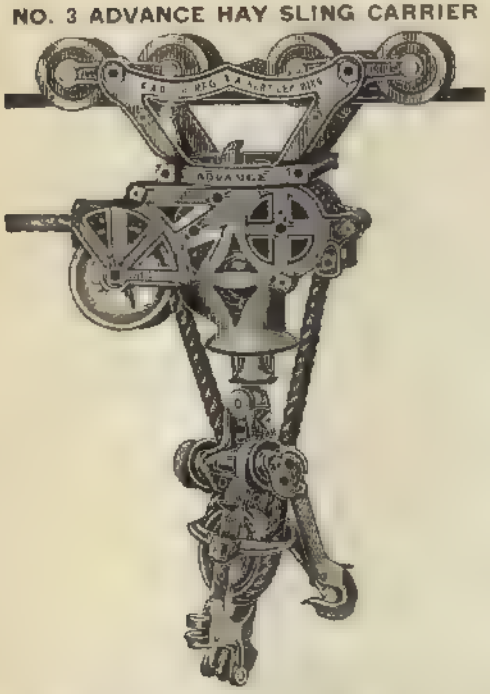
No. 75—Fork Pulleys; without registering head; weight 5 lbs. Each $1.50

No. 75 Fork Pulleys; with registering head; weight 5½ pounds. Each 2.25

No. 75.

ADVANCE HAY CARRIERS

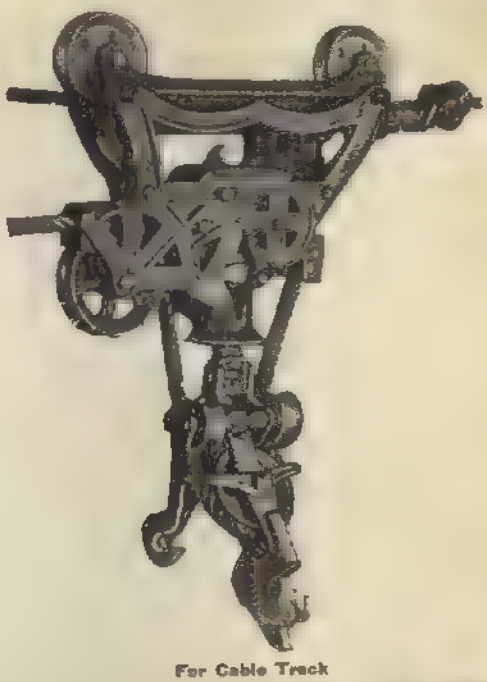
NO. 3 ADVANCE HAY SLING CARRIER



Swivel frame, same as No. 1 Advance Carrier shown on preceding page, except wheels are not adjustable for the various widths of track; it operates on 2-inch tracks Nos. 1, 2, 3 or 4, and requires same stop lock for either of these tracks as is used with No. 1 Carrier. Weight complete 38 pounds.

No. 3—Advance Hay Carrier, with No. 28 Sling pulley . . . Each $17 20
No. 3—Advance Hay Carriers, with No. 20 Sling Pulley . . . Each 16 70

NO. 4 ADVANCE HAY SLING CARRIERS

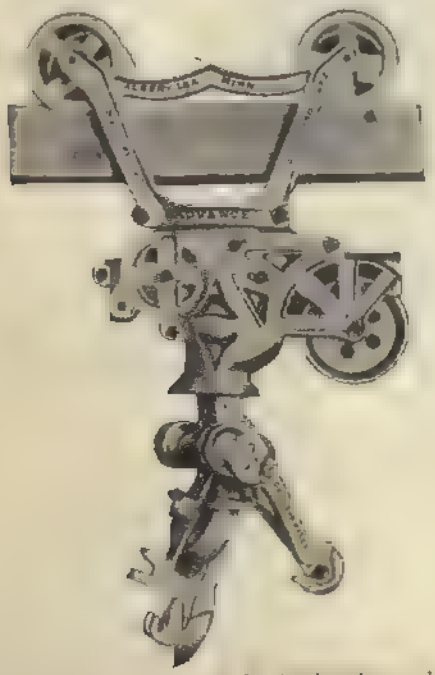


For Cable Track

Solid frame one way carrier, same as No. 2 Advance, except being fitted for ¾-inch cable track, and equipment includes No. 72 Stop Lock for use with cable. In operation, regular equipment and all of its fasteners it is identically same as the No. 2 Advance Carrier. Weight complete 34 pounds.

No. 4—Advance Hay Carriers, with No. 28 Sling Pulley . . . Each $15 50
No. 4—Advance Hay Carriers, with No. 20 Sling Pulley . . . Each 15 80
No. 4—Advance Hay Carriers; with No. 75 Fork Pulley . . . Each 14 60

NO. 5 ADVANCE HAY SLING CARRIER



No. 5—Advance Hay Carriers; with No. 28 Sling Pulley . . . Each $17 10
No. 5—Advance Hay Carriers, with No. 20 Sling Pulley . . . Each 16 70

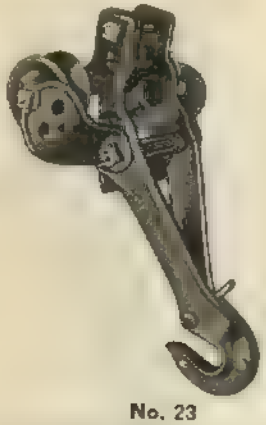
NO. 6 ADVANCE HAY SLING CARRIER

For Curved Track

Same as No. 1 Advance Carrier shown on preceding page, except provided with spring cotter to lock swivel and hold it in line with track.

No. 6—Advance Hay Carriers, with No. 28 Sling Pulley . . . Each $18 40
No. 6—Advance Hay Carriers; with No. 20 Sling Pulley . . . Each 18 00

HAYING TOOLS



No. 23

Main section used with No. 24 to make complete pulley No. 28, and with No. 25 to make complete pulley No. 29

No. 23—Main Section Advance Compression Sling Pulley; weight 6½ pounds.....Each $2.15

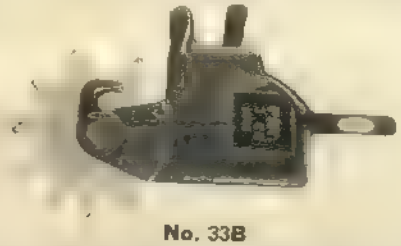
No. 29

No. 25

No. 29 Advance Compression Sling Pulley is the No. 23 main section used with No. 25 section, for center trip or slat slings. By using proper registering head listed elsewhere, the No. 29 pulley may be used with any make of sling or fork carrier.

No. 29—Advance Compression Sling Pulley; complete less registering head; weight 11 pounds. .Each $3.85

No. 25—Section Advance Compression Sling Pulley; used for center trip slings; weight 4½ pounds.....Each 1.70



No. 33B

Avoids trouble and expense of broken Sling Lock hooks, hook, when tripped, will whirl into it stop, without the sudden jolt or knock against the frame, which causes these hooks to break; now furnished in place of No. 33, also with our pulleys No. 28

No. 33B—Sling Locks; weight 2¼ pounds.....Each $1.25

No. 28

No. 24

No. 28 Advance Compression Sling Pulley is the No. 23 main section used with No. 24 section; for end trip rope or chain slings, and will handle either two or three rope sling. By using proper registering head (listed elsewhere) the No. 28 pulley may be used with any make of sling or fork carrier.

No. 28—Advance Compression Sling Pulley; complete less registering head; weight 12½ pounds. Each $4.30

No. 24—Section Advance Compression Sling Pulley; used for end trip slings; weight 6 pounds. .Each 2.55

FORK CLEVIS ATTACHMENT

No. 41

Method of Attaching

Fork Clevis used in connection with No. 28 Sling Pulleys for quick fork hitch; with this attachment forks and slings may be used alternately without change of pulleys.

No. 41—Fork Clevises; weight 3 pounds.....Each $1.00

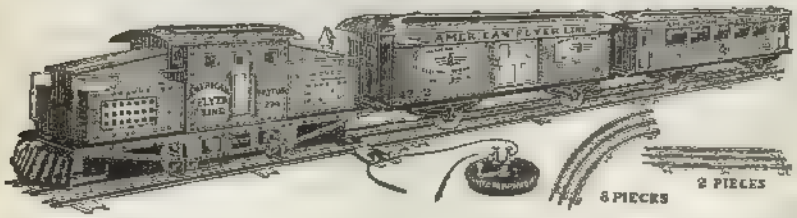
Advance Compression Sling Pulleys and Attachments illustrated and listed on this page are made in sections and the sections and parts are interchangeable. By using the various sections any of these pulleys may be arranged to serve as a trip for use with center or end trip, rope or chain slings (either two or three rope), for harpoon, drag, harpoon or grapple forks, and they will take any standard style or make of registering heads for use on the different carriers now on the market. This does away with the necessity of buying complete pulleys for use with the different slings and forks as only the sections need be purchased; and all are readily and easily changed.

Made in America
American Flyer
The Train with the Guarantee Registered U.S. Patent Office

ELECTRIC TRAINS

Made by the same careful workmen that have made our mechanical trains so famously popular. Engines are modeled from the latest type New York Central electric locomotives and are by far the best miniature electric locomotives on the market.

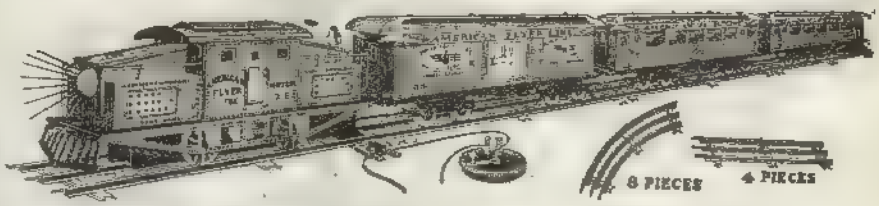
These trains can be run on 3 or 4 dry cells, or by connecting up a transformer to your electric light socket, if, it is, 110-volt, 60 cycle alternating current. Be sure to read the instructions very closely before trying to operate these trains.

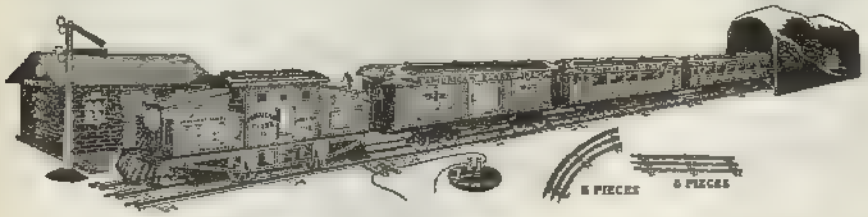


No. 1201—Length of train 24½ in. Electric locomotive, baggage car with sliding door, passenger car of largest type single truck. One improved rheostat.

Eight pieces curved and two pieces straight track, including one terminal section, w't per set 4½ lbs., per dozen sets $101.00

No. 1217—Length of train 31 in. Electric locomotive with large protected headlight, baggage car with sliding doors, two passenger cars. Cars have double trucks. Eight sections of curved and four of straight track, including one terminal section. Length of track 125 in. One improved rheostat, w't per set 6 lbs. .....per dozen sets $129 50

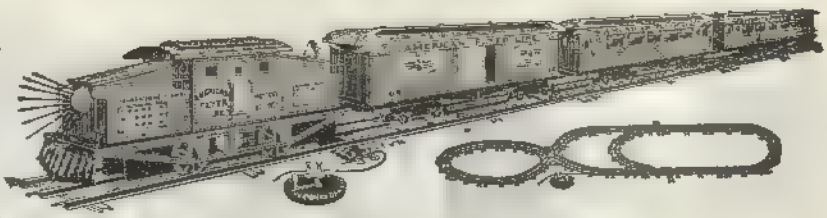




This is our most complete outfit.

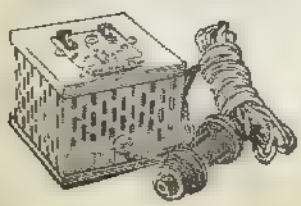
No. 122—Length over all 31 in. Electric locomotive with large protected headlight, baggage car with sliding doors, two passenger coaches, (double truck cars). Eight sections curved and six of straight track. Length of track 145 in. One terminal section, station, double arm semaphore, tunnel and improved rheostat, w't per set 8 lbs., per dozen sets $158.00

No. 1227—Length overall 31 in., consists of a locomotive with protected headlight, a large size baggage car with sliding doors, two large passenger cars. All the cars are equipped with swivel double trucks and disappearing couplers. 1 pair of switches, 1 crossover, 16 pieces of curved and two pieces of straight track, length of track 245 in., w't each 8 lbs., per dozen sets $196 00



ALL ABOVE ONE SET IN A STRONG LITHOGRAPHED BOX

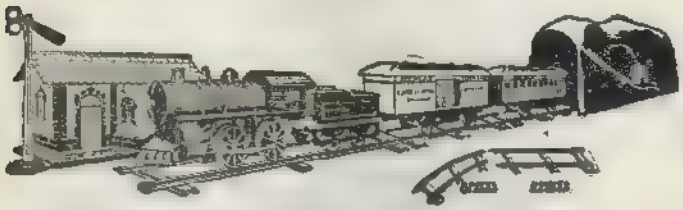
TRANSFORMERS



No. 1250—Type B, capacity 100 watts. For use of alternating current only, 110 volt, 60 cycle, primary. Secondary voltage, 4, 6, 8, 10 and 12 volt. Equipped with Fahnestock patented connection clips, 6 ft. of black cord with separable plug. Transformer is positively air cooled. Does not have any pitch to melt and burn children or ruin carpets. This transformer has twice the capacity necessary to operate American Flyer trains. Suitable for operating most any type of electrical toy. per dozen $66.00

The engines are of latest design made of highest quality cast iron and are beautifully decorated.
The cars are made of heavy sheet metal, beautifully lithographed in various colors. The cars are made up of baggage, passenger, various freight cars and caboose.
The tracks are made of heavy tin. Each section of track is 10½ inches long.

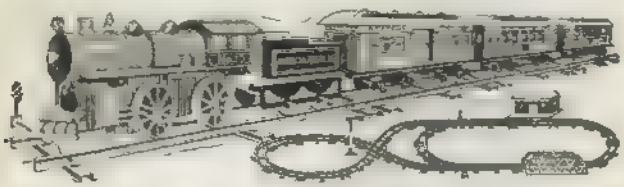
AMERICAN FLYER



The clock-works of the "American Flyer" engines are equipped with steel pinion and patented winding devices and are the strongest mechanical toy on the market. Each one carries a six months' guarantee.

This is a real set to start a big railroad system with.

No. 19—**Length over all 26½ in. Engine No. 18, speed** governed, piston rods and brake, tender, baggage car with sliding doors and passenger car. Single arm semaphore, station and tunnel. Eight pieces of curved and four pieces straight track make oval of 125 in., w't per set 7½ lbs. .....per dozen sets $72.00



This is the Twentieth Century Limited of minature trains.

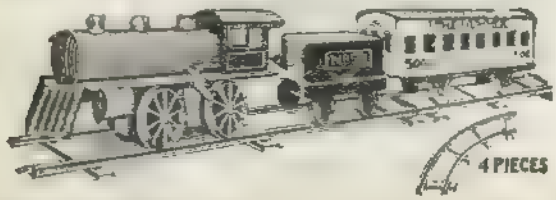
No. 21—Length over all 35 in. Large engine No. 15, speed governed, piston rods and brake and automatic brake stop, large tender, baggage car with sliding doors, two passenger cars. Cars have double trucks. Sixteen pieces of curved and fourteen pieces straight track, including automatic brake stop section, two switches and one cross over, station, single arm semaphore and construction bridge, w't per set 8 lbs.,
per dozen sets $116.00

ALL ABOVE ONE SET IN A STRONG LITHOGRAPHED BOX.

HUMMER TRAINS

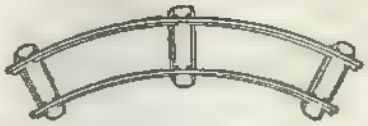
Built to meet the demand for popular priced American trains. Constructed by the same skilled workmen who make the "American Flyer" Trains.

Engines are formed from heavy sheet steel, black enameled and latest designs. Clockworks have strong steel spring which pulls "The Hummer" at a great speed.

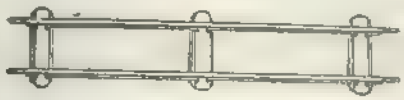


No. 53—Length over all 15 in., locomotive, tender and one car. Four pieces of curved track, each 15 in. long, w't per outfit 1½ lbs. .....per dozen $18.80

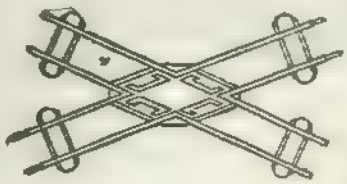
AMERICAN FLYER TRACK



No. MC—Curved track units with pins on one end only. Eight pieces make a circle, length 10½ in.,
per dozen sections $1.45

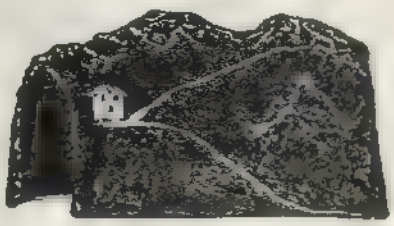


No. MS—Straight track units with pins on one end only, length 10½ in. .....per dozen sections $1.45



No. MX—Crossover .....per dozen sections $7.00

TUNNELS



Beautifully decorated with house of red on the side.

No. 82—Length 10 in., heigh 7 in., w't per dozen 6 lbs.,
each $12.00

PASSENGER STATION

No. 90—Made of heavy sheet metal, beautifully colored in red, white, gray and black. Length 6 in., height 3½ in., w't per dozen 4½ lbs. .....per dozen $7.00

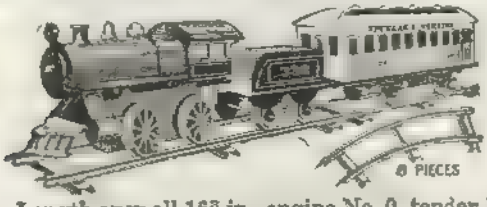
"Made in America" "American Flyer" The Train with the Guarantee Registered U.S. Patent Office

The engines are of latest design made of highest quality cast iron and are beautifully decorated.

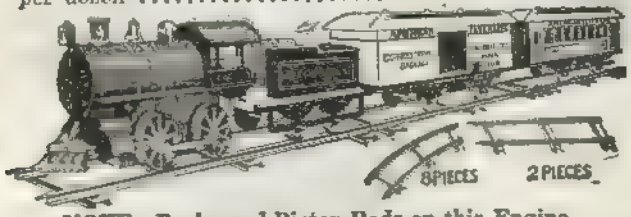
The clock-works of the "American Flyer" engines are equipped with steel pinion and patented winding devices and are the strongest mechanical toys on the market. Each one carries a six months' guarantee.

The cars are made of heavy sheet metal, beautifully lithographed in various colors. The cars are made up of baggage, passenger, various freight cars and caboose.

The tracks are made of heavy tin. Each section of track is 10¼ inches long.

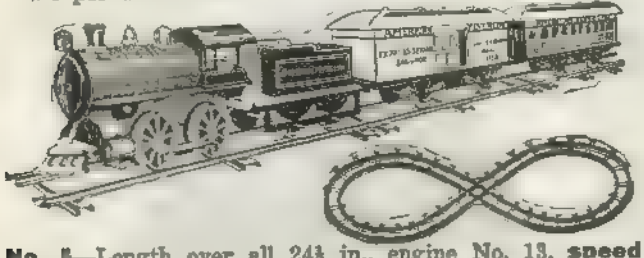


No. 0—Length over all 16¾ in., engine No. 0, tender No. 328, passenger car No. 1107, eight sections of track forming circle 82 inches in circumference, w't per outfit 3 lbs., per dozen $32.00

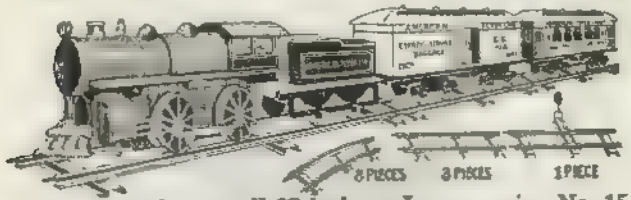


NOTE—Brake and Piston Rods on this Engine

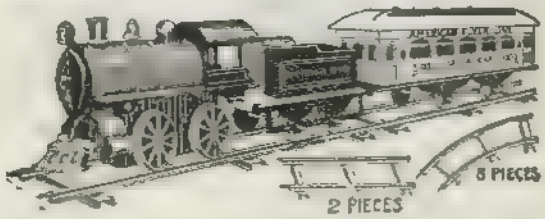
No. 2—Length over all 24½ in. Engine No. 2, **speed governed** with piston rod and brake, large tender No. 120, baggage car No. 1108, with sliding door, passenger car No. 1107, eight pieces of curved and two pieces of straight track form oval 103 inches in circumference, w't per outfit 4 lbs. .....per dozen $41.30



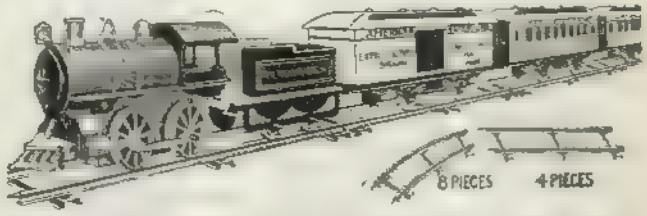
No. 5—Length over all 24½ in., engine No. 13, **speed governed,** piston rods and brake, tender No. 120, baggage car No. 1108A, with sliding door, passenger car No. 1107, fourteen pieces of curved track and crossover, forming figure eight, circumference 165 inches, w't per outfit 4½ lbs. .....per dozen $55.00



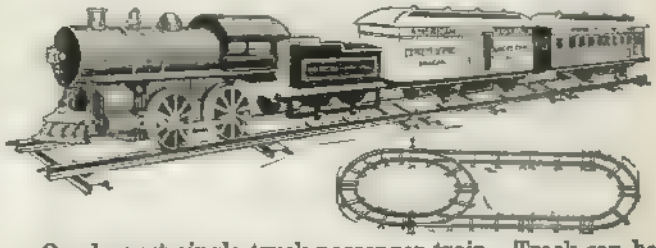
No. 15—Length over all 27 inches. Large engine No. 15, **Speed governed,** piston rods, brake and automatic brake stop, large tender No. 120, large size baggage car with sliding door No. 1105, large size passenger car No. 1106 with double trucks and disappearing couplers. Eight pieces of curved track and four pieces of straight track, including automatic brake rod stop, circumference 124 inches, w't per outfit 5 lbs...per dozen $67.70



No. 1—Length over all 18½ in., **speed governed,** Engine No. 1, tender No. 120, largest single truck car No. 1103, eight pieces of curved track and two pieces of straight track form oval 103 in. in circumference, w't per outfit 3½ lbs. .....per dozen $37.00



No. 3—Length over all 31 in., engine No. 3, **speed governed,** piston rods and brake, large tender No. 120, baggage car No. 1108, with sliding door, and two No. 1107 passenger cars. Eight pieces of curved and four pieces of straight track form oval 123 in. in circumference, w't per outfit 4½ lbs. .....per dozen $48.50



Our largest single truck passenger train. Track can be made either in an oval or square.

No. 13—Length over all 25 inches, engine No. 13, **speed governed,** piston rods and brake, tender No. 120, baggage car with sliding door No. 1108A, passenger car No. 1107. Ten pieces of curved, two pieces of straight track and two switches form oval and circle. Track length 162 inches, w't per outfit 5 lbs., per dozen $62.70

If you "go to sleep at the switch" operating this train there will be a wreck.

Train can be switched from large oval to small oval by opening or closing both switches.

EACH OUTFIT PACKED IN INDIVIDUAL CARTON BEAUTIFULLY LABELED.

LIONEL ELECTRIC TOYS

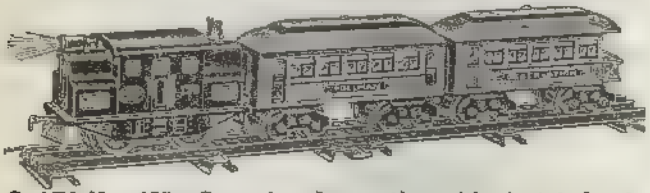
In construction, finish and general appearance Lionel Electric Toys are of the highest quality. All locomotive bodies are of sheet steel, not cast iron. They are enameled and ornamented in gold with hand rails, bells, headlights and other fittings of nickled steel. Every Lionel Electric Motor has an electric headlight except No. 159 outfit.

The motor is the most vital part of any electric train outfit. Lionel motors are built for service. All cars are hand enameled, not lithographed. They are decorated in gold, have removable roofs, seats in the interior, and imitation glass in windows and transoms. Being made of heavy gauge metal they are very durable and serviceable. Wheels are nickeled steel. Trucks are flexible, which enables cars to stay on track at high speed.

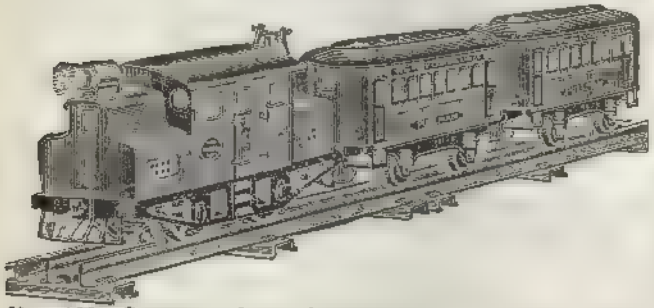
Track is very rigidly constructed . Track ties are very strong. Insulated third rail makes short circuit impossible. A Lionel Multivolt Transformer used in conjunction with Lionel Train Outfits will result in the utmost satisfaction to the user.

TRAINS

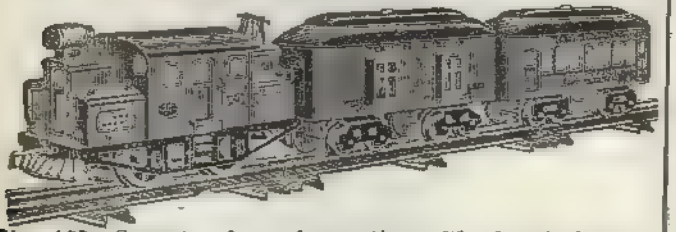
No. 159—Consists of one locomotive with dummy headlight, two gondola cars and circle of O track 1⅜ in. wide, circle of track is 30 in. in diameter, train is 20 in. long, complete with full directions for operating, w't complete 5½ lbs. .....each $9.50



Outfit No. 155—Comprises locomotive with electric headlight, one double truck Pullman Car, one double truck Observation Car, eight sections of OC curved track and four sections of OS straight track, making an oval 49×30 inches. Outfit includes one speed controlling rheostat. Length of complete train 21½ inches. Weight of complete outfit packed in box 6½ lbs., each $14.50



No. 160—Consists of one locomotive with electric headlight, two Pullman cars, eight sections OC curved track and two sections OS straight track, making an oval 39×30 in., and one controlling rheostat. Length of complete train 20 in., w't complete 5½ lbs. .....each $12.00



No. 162—Consists of one locomotive with electric headlight, one double truck Pullman car, one double truck mail car, one controlling rheostat, eight sections OC curved track and four sections of OS straight track, making an oval 49×30 in. Length of complete train 24 in., w't complete 6¾ lbs. .....each $19.90

ALL ABOVE ONE SET IN A LITHOGRAPHED STRONG BOX

MULTIVOLT TRANSFORMERS

FOR ALTERING CURRENT

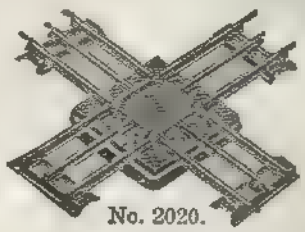
Type B—While primarily intended for operating Lionel or any other make of electrical toys, can be used to good advantage for operating various other electrical apparatus requiring the voltages within their range, such as induction coils, annunciators, bells, burglar alarms, wireless and medical apparatus and a large number of other uses. Multivolt transformers will be found more economical than dry batteries. Type B will operate any size electric train of any make with great efficiency and at low cost, size 2¾×4⅝×3⅜ in., w't each 3½ lbs. .....each $7.20

ONE IN A BOX

WHAT IS MEANT BY TOY TRANSFORMER

A toy transformer is an apparatus for reducing the 110 volt house lighting **alternating current** to the few volts necessary for operating electric toys or various other appliances. They are made of electrical sheets with various coils of magnet wire wound over them. These coils are placed in a handsomely black enameled steel case and are surrounded with a sealing wax, which makes them impervious to heat, moisture, etc. The top of the case contains various binding posts and a controlling rheostat which enables the user to either obtain permanent or variable voltages by moving the switch from one point to another. A brass index plate shows the proper posts to use. A flexible lamp cord 7 ft. long is directly connected with the transformer. The standard plug on the end of the lamp cord fits in any lamp socket. For instance, if your house lighting circuit is 110 volts **alternating current** and you require 6 volts to operate a train set or other small electrical apparatus, this voltage can be obtained by connecting the binding posts indicated on the index plate. You turn on the current and whiz, zip goes the train.

CROSSINGS



No. 2020.

No. 2020—Crossing, for use in conjunction with switches, enabling the formation of figure 8 and figure 8 loop. Size 10 in. square. Cross rails are mounted on a solid base perfect insulation which prevents short circuit, w't each lbs. .....each $1.45

THIRD RAIL TRACK

No. 20SOS—Straight track 10¾ in. long, 1⅜ in. wide, 0 gauge, w't per section ¼ lb. .....per section $0.30

No. 20COC—Curved track, for use with straight track, 11⅛ in. long, 1⅜ in. wide, 0 gauge, w't per section ¾ lb., per section $0.30

ONE IN A STRONG BOX

DANGER SIGNALS

No. 206—Beautifully decorated, green, white, blue and black, made of heavy pressed steel, height 7 in., w't per doz. 3 lbs.....per doz. **$4.00**

SEMAPHORES

No. 207—Single arm, beautifully decorated, red, white, and green, made of heavy pressed steel, height 7⅛ in., w't per doz. 3 lbs...per doz. **$4.00**

No. 208—Double arm, beautifully decorated, red, white, and yellow, made of heavy pressed steel, height 10¾ in., w't per doz. 3 lbs., per dozen **$7.00**

TELEGRAPH POLES

No. 209—Single arm, made of drawn steel tubing, beautifully enameled, height 6¾ in., w't per doz. 3 lbs., per doz. **$4.00**

ALL ABOVE, ONE DOZEN IN A BOX

ARCH LIGHTS

No. 2009—Complete with wire, track connections and 10 volt frosted bulb, made of heavy cast iron and cast brass, beautifully enameled in green, height 11 in., w't per doz. 12 lbs., per doz. **$30.00**

AMERICAN FLYER ELECTRIC TRACK

No. ES—Straight track, made of heavy rolled tin plate, length 10½ in., w't per doz. sections 1⅝ lbs., per dozen sections **$2.00**

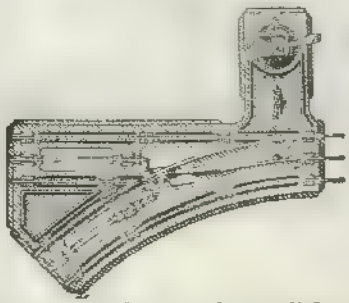
No. EC—Curved electric track made of heavy rolled tin plate, length 10¼ in., w't per doz. sections 1⅝ lbs., per dozen sections **$2.00**

CROSSOVERS

No. EX—Electric crossovers made of heavy pressed tin plate, length 10¼ in., w't per doz. 2½ lbs., per dozen **$12.50**

ALL ABOVE, ONE DOZEN IN A BOX

SWITCHES



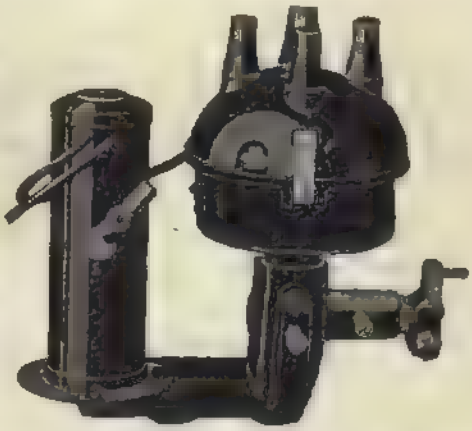
No. EF—Electric switches, entire switch made without solder, all parts are die clamped on a strong pressed steel base giving perfect electric contact all the time, whether switch is open or closed, length 10¼ in., w't per doz. pr. 1⅛ lbs. .....per dozen pair **$30.00**

ONE PAIR IN A BOX

ATWATER KENT SCIENTIFIC IGNITION
Type K-3 for the Tractor

"A simple foolproof ignition system that requires no skilled maintenance in the field—no expert to repair it."

The Simple Atwater Kent contactless distributor—no rubbing surfaces or brushes



Atwater Kent Ignition System Type K-3 for Tractors
(shown without cover)
Simple waterproof coil—no moving parts

Ignition Switch
Starting button furnishes extra hot spark for starting

Note simplicity of automatic spark advance mechanism

Furnishes the big, hot, dynamic spark required by tractor motors at all speeds from cranking to maximum.

The same big spark when cranking (no matter how slowly) as at full speed is an inherent characteristic of the system and is not obtained by adding impulse devices, vibrators or other complicated mechanism. The spark heat does not vary with the motor speed as with the magneto.

The spark is retarded when cranking, eliminating back-firing and its attending danger—yet it is automatically advanced for maximum power and economy according to the speed of the engine.

Current consumption is negligible. Current flows only during instant of spark. Six dry cells in series will give one season's unfailing operation. The system uses less current than your door bell or the tail lamp of your auto.

Impossible to exhaust cells by leaving switch "on," as interrupter contacts are always open except for the brief instant of spark—no current is used except when the motor is actually in operation.

Extreme light weight of all moving parts, together with low bearing pressures, eliminates trouble from vibration and insures long life and maximum reliability without interruption.

Contact Maker Type K-3

Every detail of the Atwater Kent Tractor Ignition outfit is the result of careful scientific development. Only the best in manufacturing methods, material, men and machinery enter into its production.

Mounted on a base of standard magneto dimensions, the system can be easily installed on any existing tractor model.

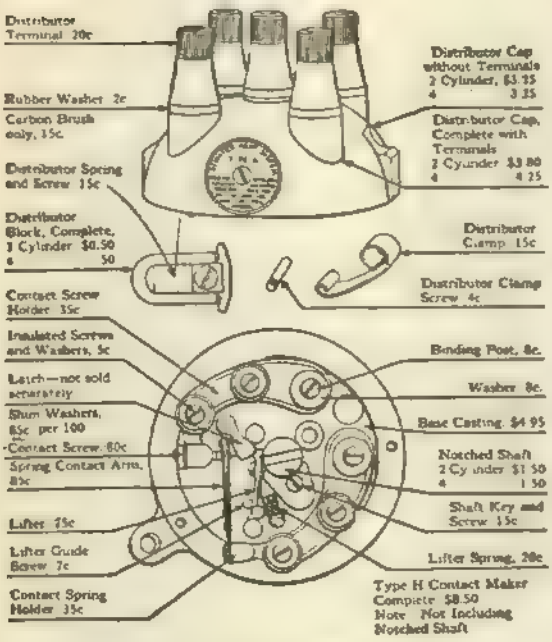
Ten tractor manufacturers have adopted it as standard equipment. Several of these have already used it for two or more seasons.

Complete Type K-3 Unisparker with Coil on Magneto Replacement Mounting. No switch.

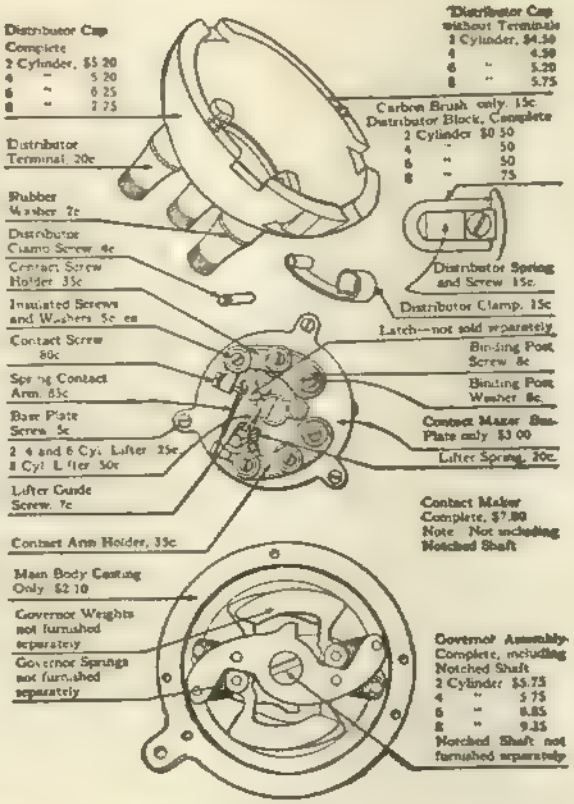
2 cyl. Specify 90° or 180°	$32.00
4 cyl.	32.00
6 cyl.	34.00
Kick Switch, complete with screws	4.00
Tractor ignition cover	1.50

ATWATER KENT SCIENTIFIC IGNITION

Parts Price List
Type H



Parts Price List
Type K-2



TYPE H AND K-2 COILS, COIL PARTS, ETC.

Under Hood Coil complete (no switch)	Each	$9.50
Plate Switch Coil complete	"	10.75
Kick Switch Coil complete	"	12.75
Coil Binding Posts, large nuts	"	.05
Coil Binding Posts, small nuts	"	.05
Secondary Terminal Insulator	"	.25
Reversing Switch complete	"	3.25
Reversing Switch Plug	"	.15
Switch Lever for Plate Switch Coil	"	.25
Starting Lever for Plate Switch Coil	"	.25
Switch Key for Kick Switch Coil	"	.15
Starting Button for Kick Switch Coil	"	.05
Starting Handle for Kick Switch Coil	"	.50

Assembled Distributors

Type K-2—2 and 4 cyl. complete	Each	$21.00
Type K-2—6 cyl. complete	"	24.00
Type K-2—8 cyl. complete	"	28.00
Type H—2 cyl. complete	"	14.25
Type H—4 cyl. complete	"	14.25
Type H—Ford System, less coil	"	17.25
Type H—Ford Unisparker, less coil, brackets and gears	"	14.25
Type K-2—Ford System, less coil	"	24.25
Type K-2—Ford Unisparker, less coil and engine cover	"	21.00

TYPE H FORD BRACKET AND GEARS

Bracket Casting		$2.20
Two Gears	@ $1.00	2.00
Advance Rod		.40

TYPE K-2 FORD GEAR COVER AND GEARS

Casting (only), no Gears	$2.50
Spiral Gears, per pair	3.00

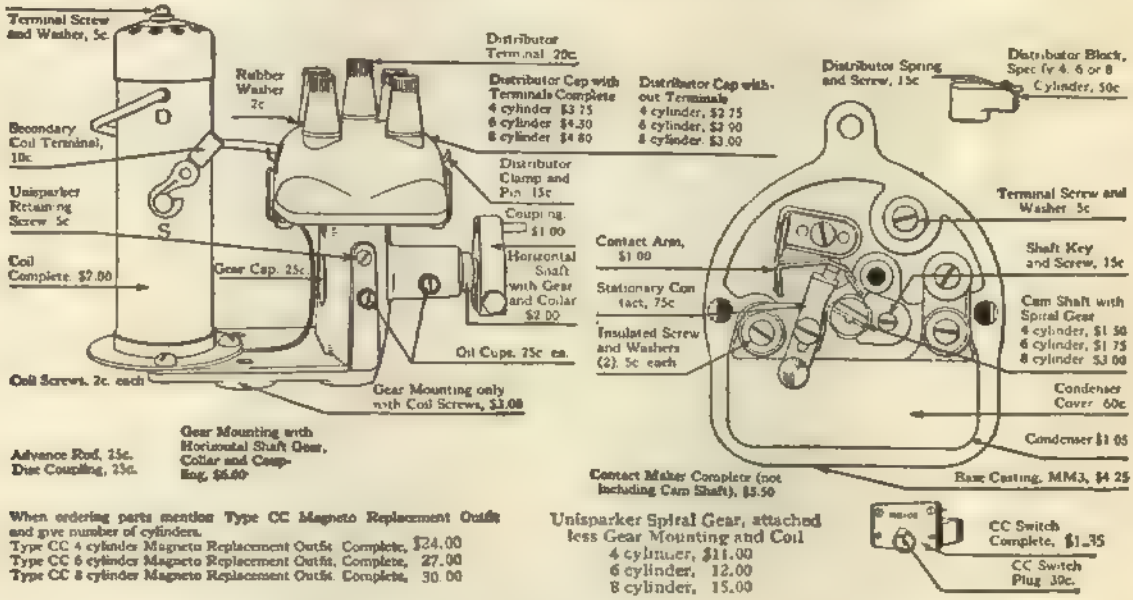
If in need of notched shaft, or any parts for governor, order complete governor. If in need of latch or driven pins for contact maker, order base plate with latch and driven pins. Return old assembly—credit will be issued according to condition.

Note—Instructions for Ordering Parts

In ordering parts of any kind, specify type of system, number of cylinders and direction distributor shaft rotates when looking down on top of the distributor and name of car.

ATWATER KENT SCIENTIFIC IGNITION

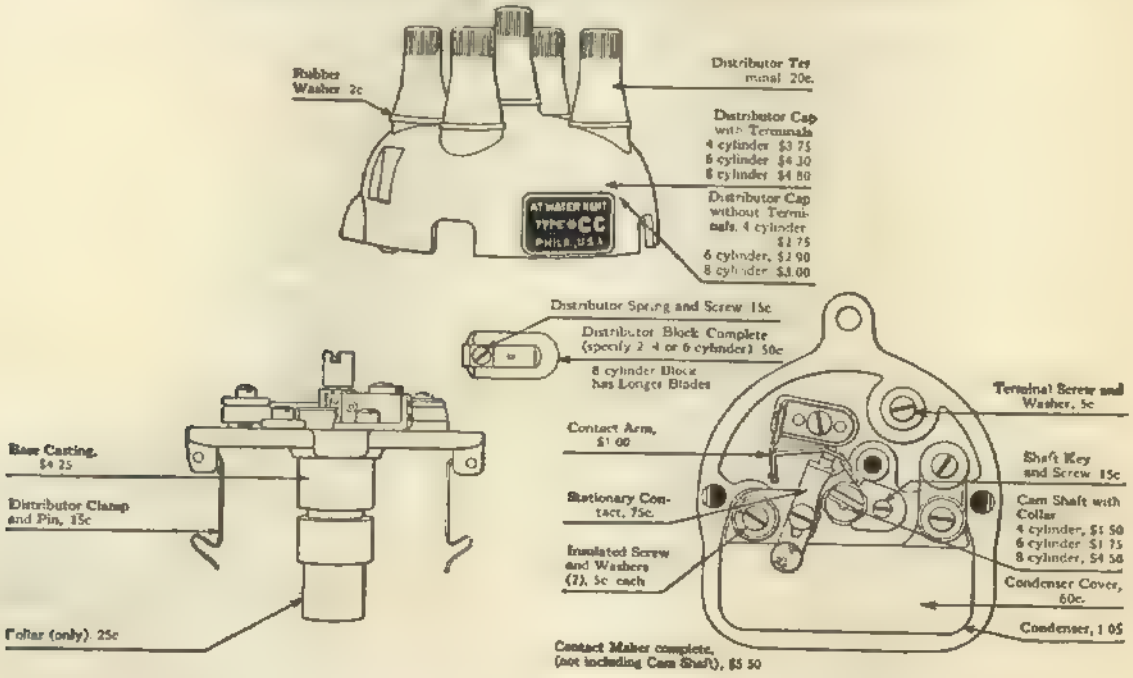
Parts Price List—Type CC Magneto Replacement System



When ordering parts mention Type CC Magneto Replacement Outfit and give number of cylinders.
Type CC 4 cylinder Magneto Replacement Outfit Complete, $24.00
Type CC 6 cylinder Magneto Replacement Outfit, Complete, 27.00
Type CC 8 cylinder Magneto Replacement Outfit, Complete, 30.00

Unisparker Spiral Gear, attached less Gear Mounting and Coil
4 cylinder, $11.00
6 cylinder, 12.00
8 cylinder, 15.00

Parts Price List—Type CC for Vertical Mounting



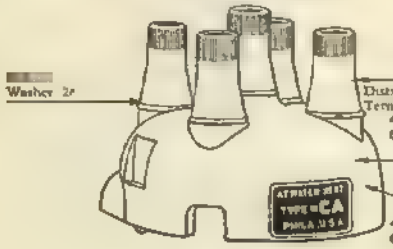
When Ordering Parts Specify Name, Year and Model of Car

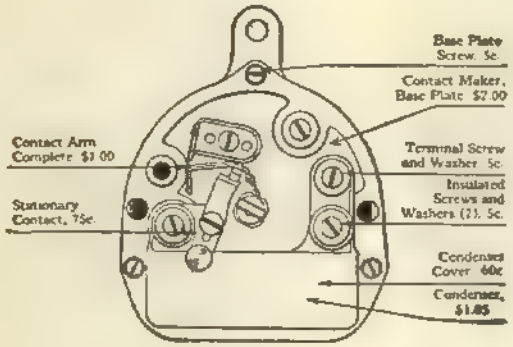
Type CC—4 cylinder Unisparker for Vertical Mounting	$11.00
Type CC—6 cylinder Unisparker for Vertical Mounting	12.00
Type CC—8 cylinder Unisparker for Vertical Mounting	15.00
Type CC— 6 volt Coil	7.00
Type CC—12 volt Coil	7.00

ATWATER KENT SCIENTIFIC IGNITION

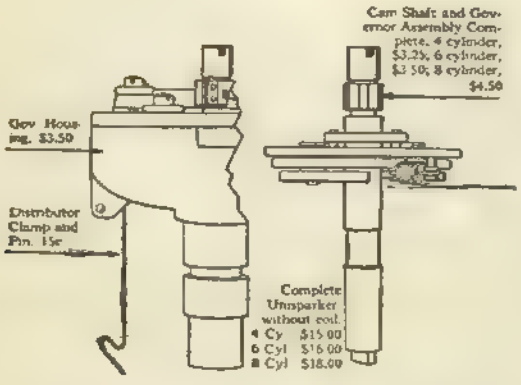
Parts Price List—Type CA

For Vertical Mounting





CONTACT MAKER COMPLETE, $5.00
(Not including cam shaft)



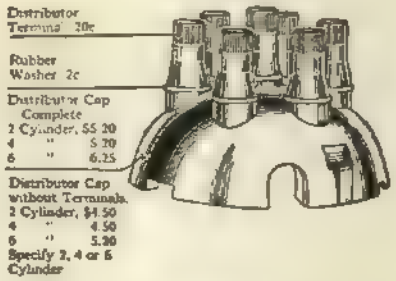
PARTS OF GOVERNOR ASSEMBLY NOT FURNISHED SEPARATELY

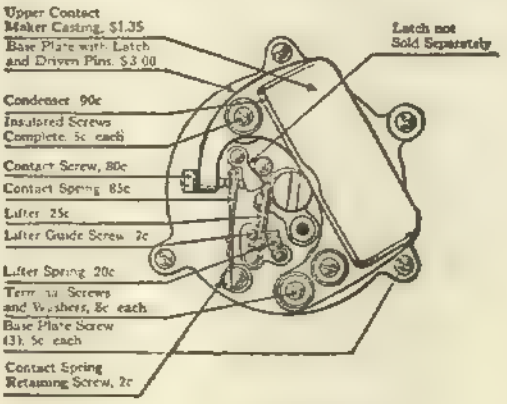
When any part of governor assembly is required, the repair station or ourselves will furnish complete governor assembly and housing. On receipt of new assembly return old assembly to nearest repair station or to us and you will receive credit for whatever parts can be used again.

In ordering new shafts or assemblies when old ones are not returned, specify make, model, and year of car.

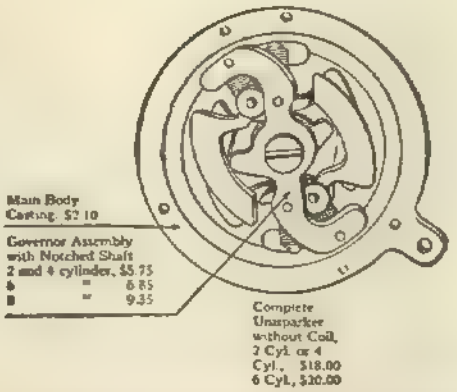
Parts Price List—Type K-3

For Vertical Mounting





Contact Maker Complete, $6.80
NOTE. Not including notched shaft.



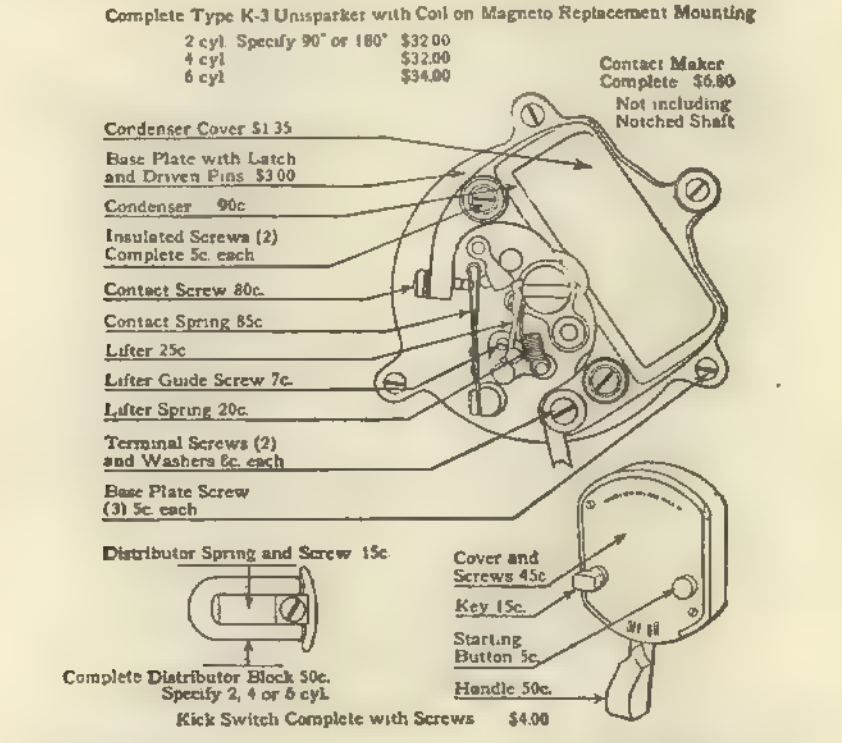
If in need of notched shaft, or any parts for governor, order complete governor. If in need of latch or driven pins for contact maker, order base plate with latch and driven pins. Return old assembly—credit will be issued according to condition.

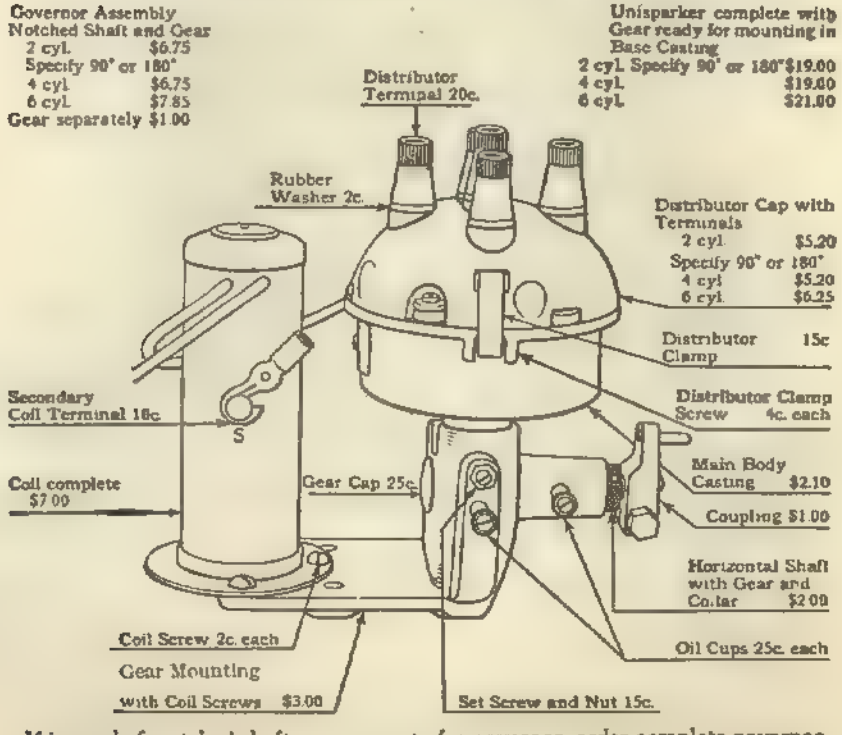
In ordering parts, specify type of Unisparker (see name plate) and number of cylinders.

Price of K-3 Coil separate, $7.00.

ATWATER KENT SCIENTIFIC IGNITION

Parts Price List Type K-3 for Tractors





If in need of notched shaft, or any parts for governor, order complete governor. If in need of latch or driven pins for contact maker, order base plate with latch and driven pins. Return old assembly—credit will be issued according to condition.

THE CHAMPION SPARK PLUG MERCHANDISER

Front View.

THE NEW AND MODERN WAY OF MERCANDISING CHAMPION SPARK PLUGS

Case with car index Chart attached, enables any clerk to select instantly the proper size and type of spark plug that is requested for any passenger car, commercial car, tractor, motorcycle, motor boat and farm and stationary engines. Adapted for use on your counter, show case or shelf; it occupies but little space compared to the complete assortment that it carries. Finely finish, an ornament to any store or counter—made of metal each compartment will hold an original package of spark plugs. By lifting protecting cover it takes but a moment to take a record of your stock on hand Conveniently arranged for quick sales. Each assortment consists of 100 Spark Plugs and 50 Cores, representing the leading types that are in constant demand.

Rear View.

SUGGESTED ASSORTMENTS

Assortment No. 5305—Contains:

10 only No. 5284—A13—½ in. Spark Plugs
30 only No. 5280—A15—½ in. X Spark Plugs
10 only No. 5295—A25—½ in. long X Spark Plugs
10 only No. 5289—A44—⅞ in. std. Spark Plugs
10 only No. 5290—A53—⅞ in. long std. Spark Plugs
10 only No. 5288—AA53—⅞ in. long reg. Spark Plugs
10 only No. 5196—B43—⅞ in. heavy Spark Plugs
10 only No. 5197—JAS43—⅞ in. reg. Spark Plugs

100 Total

10 only No. 5297—A104—Porcelains
20 only No. 5283—A105—Porcelains
10 only No. 5299—A205—Porcelains
10 only No. 5298—A503—Porcelains

50 Total

W't each 60 lbs. ..... each $119.00

Assortment No. 5306—Recommended for Ford and Fordson Tractor Agents, contains:

70 only No. 5280—A15—½ in. X Spark Plugs
30 only No. 5295—A25—½ in. long X Spark Plugs

100 Total

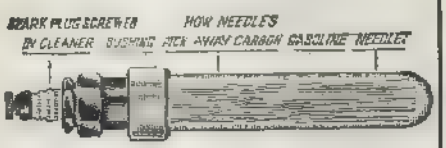
30 only No. 5283—A105—Porcelains
20 only No. 5299—A205—Porcelains

50 Total

W't each 50 lbs. ..... each $107.00

Order must specify one of the above assortment to secure Merchandiser. Only one Merchandiser allowed to a dealer.

CHAMPION SPARK PLUG CLEANERS



One of the best time and trouble savers on the market. Simply fill the tube half full of gasoline, screw the plug you want cleaned into the bushing at the end then shake. No grease, no dirt, no trouble, and you don't even have to take plugs apart.

No. 5282—W't each ¼ lb., each $0.86

ONE IN A WOODEN BOX

SPARK PLUG CLEANER DISPLAY CASE

Case contains 10 No. 5282 Cleaners size 10x8¼x7 in., very attractive case, cleaners readily accessible for sale when in this case.

No. F5308—W't each 5 lbs., each★ $8.00

PRIMING PLUG MERCHANDISING CASE

Very attractive display case, contains 20 No. 5310-A14 Spark Plugs, case 10x8¼x7 in.

No. F5309—w't, each 12 lbs., each★ $28.00

★ Items Marked Thus ★ Are Shipped From Factory Only.

CHAMPION SPARK PLUGS

FOR FORD CARS

No. 5280—A15—½ in., petticoat core, two-piece, w't per box 4 lbs., box of 10 ..$9.00

FOR FORDS AND FORDSON TRACTORS

No. 5295—A25—½ in. long, petticoat core, two-piece, w't per box 4 lbs., box of 10 ..$9.00

FOR FORD CARS

No. 5310—H14—½ in., priming plug, petticoat core, two-piece, w't per box 5 lbs., box, 10 $14.00

Recommended for use on Studebakers previous to 1920, also trucks, tractors, farm and stationary engines.

No. 5284—A13—½ in., conical core, two-piece, w't per box 4 lbs., box of 10 $10.00

Recommended for use on Overlands, also for trucks, tractors, farm and stationary engines where ½ in. plug is used.

No. 5281—A14—½ in., petticoat core, two-piece, w't per box 4 lbs., per box of 10 .....$10.60

Recommended for all Reo cars and trucks.

No. F5292—A26—½ in. long, petticoat core, two-piece, w't per box 4 lbs., box of 10★ $10.60

Recommended for Reo speed truck.

No. F5293—A34—½ in. etxra long, petticoat core, two-piece, w't per box 4 lbs., box of 10★ $8.60

Recommended for Dodge cars also cars using ⅝ in. plugs.

No. 5291—AB44—⅝ in. reg., petticoat core, two-piece, w't per box 4 lbs., box of 10 $10.60

Recommended for Oldsmobile, Oakland and Chevrolet.

No. 5290—A53—⅝ in. long std., conical core, two-piece, w't per box 4½ lbs., box, 10 $10.60

"AEROPLANE" AND MOTORCYCLE

Metric Aero.

Specially constructed for all types of aeroplanes and motorcycles. Not affected by heat or oil conditions.

No. 5200—J63—W't per box 4 lbs., per box of 10 .....$10 60

ONE IN A BOX TEN BOXES IN A CARTON

Long ball terminal furnished when specified, otherwise regular knurl nut.

Specially adapted for heavy service cars, tractors, trucks, farm and stationary engines. ⅞ in. recommended for use in Cadillac, Dorris, Kissel Kar, McFarlan Six, Overland-Six, Willys-Knight, Winton.

No. 5195—B13—½ in., heavy conical core, two-piece, w't per box 4½ lbs., per box of 10 .....$12.00

No. 5196—B43—⅝ in., heavy, conical core, two-piece, w't per box 4½ lbs., per box of 10 .....$12.00

Recommended for all Buick cars.

No. 5288—AA53—⅝ in. long, reg., conical core, two-piece, w't per box 4½ lbs., 4½ lbs., box, 10 $10.60

Recommended for use in American, Earl, Chalmers, Cole, Ferris-Six, Hal, Haynes, Jackson, King, Lincoln, Moon, Oldsmobile-8, Packard, Ranger, Revere, Roamer.

Will also fit trucks, tractors, farm and stationary engines using this size plug.

No. 5197—JAS43—⅞ in. reg., conical core, one-peice, w't per box 4½ lbs., per box of 10 .....$10.60

★ Items Marked Thus ★ Are Shipped From Factory Only.

CHAMPION SPARK PLUGS AND CORES

PLUGS

Recommended for use in Allen, Elcar, Elgin, Grant, Lexington, Packard, Paige, Studebaker-1920. Will also fit trucks, tractors, farm and stationary engines requiring ⅞ in. plug.

No. 5285—A43—⅞ in. std., conical core, two-piece, w't per box 4 lbs., box of 10 $10.60

Recommended for use in Essex, Hudson-1921 Rolls Royce, and White trucks, also motorcycles, farm and stationary engines using this size plug.

No. 5286—A63—Metric, petticoat core, two-piece, w't per box 4 lbs., per box of 10 .....$10.60

Recommended for use in Gardner, Highlander, Maxwell, Regal, Skelton, States, Willys-Six. Will also fit trucks, tractors, farm and stationary engines using this size plug.

No. 5289—A44—⅞ in. std., petticoat core, two-piece, w't per box 4 lbs., per box of 10 .....$10.60

Recommended for use in Apperson, Crow, Elcar, Holmes, Marmon, Mercer, Monroe, Premier, Pilot, Stearns, Knight, Stutz, Templar. Will also fit trucks, tractors, farm and stationary engines using this size plug.

No. 5198—J43—⅞ in., S. A. E., conical core, one-piece, w't per box 4 lbs., box of 10 $10.60

Recommended for use in Franklin and Nash cars. Will also fit trucks, tractors, farm and stationary engines using this size plug.

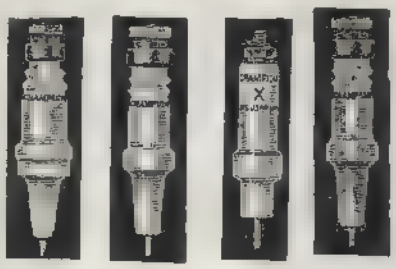
No. 5199—J53—⅞ in. long, S. A. E., one-piece, conical core, w't per box 4 lbs. .....per box of 10 $10.60

PLUGS

Recommended for use in Auburn, Austin, Case, Chandler, Daniels, Forster, Locomobile, Mitchell, Paige, Peerless, Pierce-Arrow, Stevens, Duryea, Velie, Westcott, White. Will also fit trucks, tractors and farm and stationary engines using this size plug.

No. 5294—JB43—⅞ in. long body reg., conical core, one-piece, w't per box 4 lbs. .....per box of 10 $10.60

CORES



A103 Conical — A104 Petticoat — A105 "X" — B103 Conical

Gaskets furnished with all cores, w't per box 1 lb.

No. 5287—A103—To fit plugs A13, A43, A63 .....per box of 10 $5.40

No. 5297—A104—To fit plugs A14, A44, A64 .....per box of 10 $5.40

No. 5283—A105—To fit plugs A15, per box of 10 .....$5.40

No. 5299—A205—To fit plugs A25, per box of 10 .....$4.40

No. 5298—A503—To fit plugs A53, AA53 .....per box of 10 $5.40

No. 5296—B103—To fit plugs B13, B43, B53, B73 ..per box of 10 $6.00

SPARK PLUG SIZES PASSENGER CARS

Allen	⅞ in.
American	⅞ in.
Anderson	⅞ in.
Apperson	⅞ in.
Auburn	⅞ in.
Austin	⅞ in.
Beggs	⅞ in.
Bell	⅞ in.
Biddle	⅞ in.
Briscoe	⅞ in.
Buick .....Long	⅞ in.
Cadillac	⅞ in.
Case	⅞ in.
Chalmers	⅞ in.
Chandler	⅞ in.
Chevrolet .....Long	⅞ in.
Cleveland	⅞ in.
Climber	⅞ in.
Cole	⅞ in.
Columbia	⅞ in.
Crawford	⅞ in.
Crow-Elkhart	⅞ in.
Cunningham	⅞ in.
Daniels	⅞ in.
Davis	⅞ in.
Detroiter	⅞ in.
Dixie-Flyer	⅞ in.
Dodge	⅞ in.
Dorris	⅞ in.
Dorris .....Long	⅞ in.
Dort	⅞ in.
Douglas	⅞ in.
Elcar	⅞ in.
Elgin	⅞ in.
Empire	⅞ in.
Essex	Metric
Ferris Six	⅞ in.
Fiat	⅞ in.
Ford	⅛ in.
Forster	⅞ in.
Franklin .....Long	⅞ in.
Gardner	⅞ in.
Geronimo	⅞ in.
Glide	⅞ in.
Grant	⅞ in.
Gray-Dort (Canada)	⅞ in.
H. A. L.	⅞ in.
Handley Knight	⅞ in.
Hanson	⅞ in.
Harroun	⅞ in.
Haynes	⅞ in.
Highlander	⅞ in.
Hollier	⅞ in.
Holmes	⅞ in.
Hudson	⅞ in.
Huffman	⅞ in.
Hupmobile	⅞ in.
Interstate	⅞ in.
Jackson	⅞ in.
Jones	⅞ in.
Jordan .....Long	⅞ in.
King	⅞ in.
Kissel-Kar .....Long	⅞ in.
Kline Kar	⅞ in.
Lafayette	⅞ in.
Lexington	⅞ in.
Liberty	⅞ in.
Lincoln	⅞ in.
Little	⅛ in.
Locomobile	⅞ in.
Madison	⅞ in.
Maibohm	⅞ in.

SPARK PLUG SIZES

PASSENGER CARS

Marion	⅞ in.	Norwalk	⅞ in.	Pilot	⅞ in.	Skelton	⅞ in.
Marion-Hanley	⅞ in.	Oakland Long	⅝ in.	Premier	⅞ in.	Standard	⅞ in.
Marmon	⅞ in.	Oldsmobile 6 Long	⅝ in.	Pullman	⅞ in.	States	⅞ in.
Maxwell	⅞ in.	Oldsmobile 8	⅝ in.	Ranger	⅞ in.	Stearns-Knight	⅞ in.
McFarlan Six	⅞ in.	Olympian	⅝ in.	Regal	⅞ in.	Stephens Long	⅞ in.
McLaughlin (Canada) Long	⅞ in.	Overland	½ in.	Reo Long	½ in.	Stevens-Duryea	⅞ in.
Mercer	⅞ in.	Overland Six	⅝ in.	Re Vere	⅞ in.	Studebaker	⅞ in.
Metz	⅞ in.	Owen Magnetic	⅞ in.	Roamer	⅞ in.	Stutz	⅞ in.
Mitchell	⅞ in.	Packard	⅞ in.	Rolls-Royce Metric		Templar	⅞ in.
Moline-Knight	⅞ in.	Paige Detroit	⅞ in.	Ross	⅞ in.	Tulsa	⅞ in.
Monitor	⅞ in.	Pathfinder	⅞ in.	R. & V. Knight	⅞ in.	Velie	⅞ in.
Monroe	⅞ in.	Patterson	⅞ in.	Saxon	⅞ in.	Westcott	⅞ in.
Moon	⅞ in.	Peerless	⅞ in.	Sayers	⅞ in.	White	⅞ in.
Moore	⅞ in.	Pennsy	⅞ in.	Scripps-Booth L'g	⅞ in.	Willys-Knight	⅞ in.
Murray	⅞ in.	Phoenix, England Metric		Seneca	⅞ in.	Willys-Six	⅞ in.
Nash Long	⅞ in.	Piedmont	⅞ in.	Severin	⅞ in.	Winton	⅞ in.
National Long	⅞ in.	Pierce Arrow	⅞ in.	Sheridan	⅞ in.	Woods Mobilette	⅞ in.
Nelson	⅞ in.						

COMMERCIAL CARS

Acason	⅞ in.	Fageol	⅞ in.	Mack	⅞ in.	Schwartz	⅞ in.
Acme	⅞ in.	Famous	⅞ in.	Maple leaf (Canada)	⅞ in.	Seagrave	⅞ in.
Akron Long	⅞ in.	Federal	⅞ in.	Marwin	⅞ in.	Seagrave Long	⅞ in.
All American	⅞ in.	Ford	⅞ in.	Master	⅞ in.	Seagrave (Canada)	⅞ in.
American	⅞ in.	Foreschler	⅞ in.	Maxwell	⅞ in.	Seagrave (Canada)	⅞ in.
Amer. LaFrance	⅞ in.	Four Wheel Drive	⅞ in.	Menard	⅞ in.	Seibert	⅞ in.
Apex Long	⅞ in.	Fulton	⅞ in.	Menominee	⅞ in.	Seldon	⅞ in.
Armleder	⅞ in.	Gabriel	⅞ in.	Mercury	⅞ in.	Seneca	⅞ in.
Atlas	⅞ in.	Garford	⅞ in.	Meteor	⅞ in.	Service	⅞ in.
Atterbury	⅞ in.	Gary	⅞ in.	Miller	⅞ in.	Shelby	⅞ in.
Auglaize	⅞ in.	Gersix	⅞ in.	Monarch	⅞ in.	Shelby Long	⅞ in.
Autocar	⅞ in.	Grant	⅞ in.	Moreland	⅞ in.	Signal	⅞ in.
Available	⅞ in.	G. M. C.	⅞ in.	Muskegon	⅞ in.	Sinclair	⅞ in.
Avery	⅞ in.	Graham	⅞ in.	Mutual	⅞ in.	Southern	⅞ in.
Beaver (Canada)	⅞ in.	Gramm-Bernstein	⅞ in.	Napoleon	⅞ in.	S. & S.	⅞ in.
Beck	⅞ in.	Grant	⅞ in.	Nash	⅞ in.	Standard	⅞ in.
Beggs	⅞ in.	Hall	⅞ in.	National (Canada)	⅞ in.	Stegeman	⅞ in.
Bessemer	⅞ in.	Hewitt-Ludlow	⅞ in.	Nelson & LeMoon	⅞ in.	Sterling	⅞ in.
Bethlehem	⅞ in.	H. R. L.	⅞ in.	New York	⅞ in.	Stewart	⅞ in.
Betz	⅞ in.	Huffman	⅞ in.	Niles	⅞ in.	Stuebaker	⅞ in.
Bolte	⅞ in.	Independent	⅞ in.	Northwestern	⅞ in.	Superior	⅞ in.
Bourne-Magnetic	⅞ in.	Indiana	⅞ in.	Norwalk	⅞ in.	Taylor	⅞ in.
Brinton	⅞ in.	International Harvester	⅞ in.	O. K.	⅞ in.	Tiffin	⅞ in.
Briscoe	⅞ in.	Jackson	⅞ in.	Old Hickory	⅞ in.	Traffic	⅞ in.
Brockway	⅞ in.	Jones	⅞ in.	Old Reliable	⅞ in.	Transport	⅞ in.
Clysedale	⅞ in.	Jumbo	⅞ in.	Oldsmobile Econ'y	⅞ in.	Traylor	⅞ in.
Collier	⅞ in.	Kalamazoo	⅞ in.	Oneida	⅞ in.	Triangle	⅞ in.
Columbia	⅞ in.	Kankakee	⅞ in.	Orleans	⅞ in.	Triumph	⅞ in.
Commerce	⅞ in.	Kardell	⅞ in.	Oshkosh Long	⅞ in.	Triumph (Buffalo)	⅞ in.
Concord	⅞ in.	Kelson	⅞ in.	Overland	⅞ in.	Trojan	⅞ in.
Cook	⅞ in.	Kelly-Springfield	⅞ in.	Packard	⅞ in.	Twin City	⅞ in.
Corbitt	⅞ in.	Keystone	⅞ in.	Paige	⅞ in.	Ultimate Long	⅞ in.
Cunningham	⅞ in.	Keystone	⅞ in.	Parker	⅞ in.	Union	⅞ in.
Cyclone Long	⅞ in.	King	⅞ in.	Piedmont	⅞ in.	United	⅞ in.
Dart	⅞ in.	Kissel	⅞ in.	Pierce Arrow	⅞ in.	Universal	⅞ in.
Day-Elder	⅞ in.	Klyeiber	⅞ in.	Rainier	⅞ in.	U. S.	⅞ in.
Dearborn	⅞ in.	Koehler	⅞ in.	Ranger	⅞ in.	Velie	⅞ in.
Defiance	⅞ in.	LaFrance	⅞ in.	Rapid	⅞ in.	Veteran (Canada)	⅞ in.
DeKalb	⅞ in.	Lambert	⅞ in.	Reliance	⅞ in.	Vim	⅞ in.
Denby	⅞ in.	Lamson	⅞ in.	Reo Long	⅞ in.	Walker Johnson	⅞ in.
Dependable	⅞ in.	Landshaft	⅞ in.	Republic	⅞ in.	Ward LaFrance	⅞ in.
Detroit	⅞ in.	Lane	⅞ in.	Riddle	⅞ in.	White Metric	
Diamond T	⅞ in.	Lange Long	⅞ in.	Riker	⅞ in.	White	⅞ in.
Dispatch	⅞ in.	Larrabee-Deyo	⅞ in.	Robinson	⅞ in.	Wichita	⅞ in.
Dodge	⅞ in.	Lincoln	⅞ in.	Rowe	⅞ in.	Wilcox-Trux	⅞ in.
Dorris	⅞ in.	Lippard-Stewart	⅞ in.	Rush	⅞ in.	Wilson	⅞ in.
Dorris Long	⅞ in.	Little Giant	⅞ in.	Schacht	⅞ in.	Winther	⅞ in.
Douglas	⅞ in.	Luedinhaus	⅞ in.			Wolverine	⅞ in.
Duplex Long	⅞ in.	Luverne	⅞ in.				
		Maccar	⅞ in.				

SPARK PLUG SIZES

MOTORCYCLES

Ace	Metric	Excelsior	Metric	Indian	⅞ in.	Schickel	⅞ in.
Cleveland	Metric	Harley-Davidson	⅞ in.	Johnston Motor Wheel	⅞ in.	Thor	Metric
Cyclemotor	Metric	Henderson	Metric	Rolloway	Metric	Yankee	Metric

TRACTORS

Albaugh-Dover	L. ⅞ in.	Common Sense	⅞ in.	Illinois	⅞ in.	Reliable Ex.	Long ½ in.
Alligator	Long ½ in.	Dauch	⅞ in.	Indiana	⅞ in.	R. & P.	⅞ in.
Allis-Chalmers	⅞ in.	Dill	⅞ in.	Kardell	⅞ in.	Rumely Oil Pull	⅞ in.
All Work	⅞ in.	Dill	½ in.	Keck-Gonnerman	½ in.	Russell	⅞ in.
American	⅞ in.	Eagle	½ in.	Lauson	⅞ in.	Sandusky	⅞ in.
Appleton	⅞ in.	Elgin	Long ⅞ in.	Lightfoot (Monarch)	Long ⅞ in.	Shelby	⅞ in.
Aultman-Taylor	L. ½ in.	Elgin	⅞ in.	Linn	½ in.	Shelby	Long ⅞ in.
Aultman-Taylor	⅝ in.	Emerson Brantingham	½ in.	Massey-Harris (Canada)	L. ½ in.	Spaulding	⅞ in.
Austin	½ in.	Fageol	⅞ in.	Merry Garden	⅞ in.	Square Turn	Long ⅞ in.
Autohorse	⅞ in.	Fair Mor	in.	Midwest	⅞ in.	Star	⅞ in.
Automotive	⅞ in.	Farm Horse	⅞ in.	Minneapolis	½ in.	Stearns	⅞ in.
Avery	½ in.	Fitch	⅞ in.	Moline Universal	⅞ in.	Topp Stewart	⅞ in.
Avery	Long ½ in.	Flour City	Long ½ in.	Municipal	½ in.	Toro	⅞ in.
Avery	⅝ in.	Fordson	Long ½ in.	Municipal	⅞ in.	Tracklayer	½ in.
Bailor	½ in	Fox	½ in.	Neverslip (Monarch)	Long ⅞ in.	Traylor	⅞ in.
Bailor	⅞ in	Frick	Long ⅞ in.	Nicholas & Shepard	⅞ in.	Triumph	⅞ in.
Bates	Long ⅞ in.	GO (National)	⅞ in.	Nilson	⅞ in.	Triumph	Long ⅞ in.
Bates Stl Mule	L. ⅞ in.	Grain Belt	⅞ in.	Parrett	⅞ in.	Turner Simplicity	⅞ in.
Beeman Garden	½ in.	Gray	⅞ in.	Pawling & Harmisfeger	⅞ in.	Twin City	⅞ in.
Bethlehem	⅝ in.	Happy Farmer	⅝ in.	Peoria	⅞ in.	Uncle Sam	⅞ in.
Big Bull	½ in.	Harrington Ex.	L. ½ in.	Piedmont	⅞ in.	Utilitor	⅞ in.
Boltz	⅞ in.	Harrington	⅞ in.	Pioneer	⅝ in.	Velie Biltwell	⅞ in.
Bull	⅞ in.	Hart Parr	Long ½ in.	Plowman	⅞ in.	Wallis Cub	⅞ in.
Canadian (Canada) Ex.	L. ½ in.	Heider	⅝ in.	Ranger	½ in.	Waterloo Boy	L. ½ in.
Case	Long ⅞ in.	Holt	⅞ in.	Reliable Ex.	Long ½ in.	Wisconsin	⅞ in.
Chase (Canada)	⅝ in.	Huber	⅞ in.	R. & P.	⅞ in.		
Cletrac	⅝ in.	I. H. C.	Long ⅝ in.	Rumely Oil Pull	⅞ in.		

FARM, STATIONARY, MARINE AND LIGHTING ENGINES

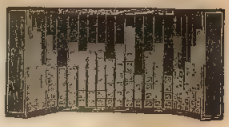
Acadia (Canada)	½ in.	Fairbanks Morse	½ in.	Kohler	Metric	Ronning	⅝ in.
Aerothrust	⅞ in.	Fairfield	Long ½ in.	Lake	Metric	Root & Vandervoort	⅝ in.
Arrow	½ in.	Falls	⅞ in.	Lake	⅞ in.	Rutenber	⅝ in.
Automatic	½ in.	Fate	⅞ in.	Lalley-Light	⅞ in.	Sanderson	Ex. L. ½ in.
Baker	½ in.	Fay & Bowen	⅝ in.	Langstadt-Meyer	⅞ in.	Schramm	⅞ in.
Beaver	⅝ in.	Fisherman	Long ⅞ in.	Latrop	Long ⅝ in.	Standard Separator	½ in.
Brennan	Metric	Florida	½ in.	Le Roi	⅞ in.	Stanley	Long ½ in.
Buda	⅝ in.	Foos	⅞ in.	London (Canada)	½ in.	Stearns	⅞ in.
Buffalo	⅝ in.	Friend	Long ½ in.	Lycoming	⅞ in.	Sterling	⅞ in.
Buffalo	½ in.	Fuller & Johnson	⅝ in.	Macheck	Long ⅞ in.	Stover	½ in.
Burnett-Larsh	½ in.	Fuller & Johnson	½ in.	Massey-Harris (Canada)	L ½ in.	Stover	Long ½ in.
Caille	½ in.	Fulton	Long ½ in.	Matthews	⅞ in.	Supreme	⅝ in.
Challenge	½ in.	Gade	½ in.	Middletown	½ in	Sypher	⅞ in.
C. H. & E.	Long ⅞ in.	Gibbs	½ in.	Midwest	⅞ in.	Termaat & Monchan	½ in.
Climax	⅝ in.	Gierholtt	½ in.	Miller	½ in.	Turner & Moore	⅞ in.
Continental	⅝ in.	Golden Belknap & Swartz	⅞ in.	Miller	⅝ in.	Twin City	⅝ in.
Cook	Long ½ in.	Hawley	⅝ in.	Miller Improved	½ in.	Unilectric	Long ⅞ in.
Cushman	½ in.	Hercules	⅞ in.	Model	⅝ in.	Universal	½ in.
Delco-Light	⅝ in.	Herschell Spillm'n	⅞ in.	Murray-Tregurtha	Metric	Van Berck	⅞ in.
Dis-Pro (Canada)	Long ½ in.	Hess	Long ½ in.	New Way	½ in.	Walker	⅝ in.
Doman	½ in.	Hettinger	½ in.	New Way	Long ½ in.	Waterloo Boy	L ½ in.
Domestic	Long ⅞ in.	Hinckly	⅞ in.	Niagara	⅝ in.	Waukesha	⅝ in.
Dominion (Canada	⅝ in.	Holland	½ in.	Northway	⅞ in.	Weidely Bulldog	⅝ in.
Duro	½ in.	Holt	⅞ in.	Northwestern	½ in.	Western	⅝ in.
Easthops (Canada)	½ in.	Ideal	Long ½ in.	Novo	½ in.	Westman	⅝ in.
Economy	½ in.	Imperial (Canada)	Long ½ in.	Owen	⅞ in.	Westman	½ in.
Elco	⅞ in.	Kermath	⅞ in.	Peninsular	⅞ in.	Willys-Light	⅝ in.
Elgin Gas	⅝ in.	Kewanee	½ in.	Perfection	½ in.	Winton	Long ⅝ in.
Erd	Long ⅝ in.	Koban	⅝ in	Phelps	½ in.	Wisconsin	⅝ in.
Evinrude	⅞ in.			Pierson	½ in.	Witte	½ in.
				Red Wing	⅝ in.	Wolverine	Ex. L ½ in.
				Reliance	Long ½ in.		
				Rochester Usenberg	⅝ in.		

THE CHAMPION SPARK PLUG MERCHANDISER

Front View.

THE NEW AND MODERN WAY OF MERCANDISING CHAMPION SPARK PLUGS

Case with car index Chart attached, enables any clerk to select instantly the proper size and type of spark plug that is requested for any passenger car, commercial car, tractor, motorcycle, motor boat and farm and stationary engines. Adapted for use on your counter, show case or shelf; it occupies but little space compared to the complete assortment that it carries. Finely finish, an ornament to any store or counter—made of metal each compartment will hold an original package of spark plugs. By lifting protecting cover it takes but a moment to take a record of your stock on hand. Conveniently arranged for quick sales Each assortment consists of 100 Spark Plugs and 50 Cores, representing the leading types that are in constant demand.



Rear View.

SUGGESTED ASSORTMENTS

Assortment No. 5305—Contains:

10 only No. 5284—A18—½ in. Spark Plugs	10 only No. 5297—A104—Porcelains
30 only No. 5280—A15—½ in. X Spark Plugs	20 only No. 5283—A105—Porcelains
10 only No. 5295—A25—½ in. long X Spark Plugs	10 only No. 5299—A205—Porcelains
10 only No. 5289—A44—½ in. std. Spark Plugs	10 only No. 5298—A503—Porcelains
10 only No. 5290—A53—½ in. long std. Spark Plugs	
10 only No. 5282—AA53—½ in. long reg. Spark Plugs	
10 only No. 5196—B43—½ in. heavy Spark Plugs	
10 only No. 5197—JAS43—½ in. reg. Spark Plugs	
100 Total	50 Total

W't each 50 lbs. ..... each $119.00

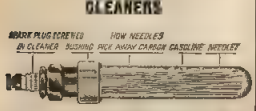
Assortment No. 5306—Recommended for Ford and Fordson Tractor Agents, contains:

70 only No. 5280—A15—½ in. X Spark Plugs	30 only No. 5283—A105—Porcelains
30 only No. 5295—A25—½ in. long X Spark Plugs	20 only No. 5299—A205—Porcelains
100 Total	50 Total

W't each 50 lbs. ..... each $107.00

Order must specify one of the above assortment to secure Merchandiser. Only one Merchandiser allowed to a dealer.

CHAMPION SPARK PLUG CLEANERS



One of the best time and trouble savers on the market. Simply fill the tube half full of gasoline, screw the plug you want cleaned into the bushing at the end then shake. No grease, no dirt, no trouble, and you don't even have to take plugs apart

No. 5282—W't each ½ lb., each $0.86

ONE IN A WOODEN BOX

SPARK PLUG CLEANER DISPLAY CASE

Case contains 10 No. 5282 Cleaners size 10x8¼x7 in., very attractive case, cleaners readily accessible for sale when in this case.

No. F5308—W't each 5 lbs., each★ $8.00

PRIMING PLUG MERCHANDISING CASE

Very attractive display case, contains 20 No. 5310-A14 Spark Plugs, case 10x8¼x7 in.

No. F5309—w't, each 12 lbs., each★ $28.08

★ Items Marked Thus ★ Are Shipped From Factory Only.

CHAMPION SPARK PLUGS

FOR FORD CARS

No. 5280—A15—⅜ in., petticoat core, two-piece, w't per box 4 lbs., box of 10 ..$9.00

FOR FORDS AND FORDSON TRACTORS

No. 5295—A25—⅜ in. long, petticoat core, two-piece, w't per box 4 lbs., box of 10 ..$9.00

FOR FORD CARS

No. 5310—H14—½ in., priming plug, petticoat core, two-piece, w't per box 5 lbs., box, 10 $14 00

Recommended for use on Studebakers previous to 1920, also trucks, tractors, farm and stationary engines.

No. 5284—A13—⅜ in., conical core, two-piece, w't per box 4 lbs., box of 10 $10.00

Recommended for use on Overlands, also for trucks, tractors, farm and stationary engines where ½ in. plug is used.

No. 5281—A14—½ in., petticoat core, two-piece, w't per box 4 lbs., per box of 10 .....$10 60

Recommended for all Reo cars and trucks.

No. F5292—A26—⅜ in. long, petticoat core, two-piece, w't per box 4 lbs., box of 10★ $10.60

Recommended for Reo speed truck.

No. F5293—A34—⅜ in. etxra long, petticoat core, two-piece, w't per box 4 lbs., box of 10★ $8.60

Recommended for Dodge cars also cars using ⅜ in. plugs.

No. 5291—AB44—⅜ in. reg., petticoat core, two-piece, w't per box 4 lbs., box of 10 $10 60

Recommended for Oldsmobile, Oakland and Chevrolet.

No. 5290—A53—⅜ in. long std., conical core, two-piece, w't per box 4½ lbs., box, 10 $10.60

"AEROPLANE" AND MOTORCYCLE

Metric Aero.

Specially constructed for all types of aeroplanes and motorcycles. Not affected by heat of oil conditions.

No. 5200—J63—W't per box 4 lbs. per box of 10 ..... $10.60
ONE IN A BOX, TEN BOXES IN A CARTON

Long ball terminal furnished when specified, otherwise regular knarl nut.

Specially adapted for heavy service cars, tractors, trucks, farm and stationary engines. ⅞ in. recommended for use in Cadillac, Dorris, Kissel Kar, McFarlan Six, Overland-Six, Willys-Knight, Winton.

No. 5195—B13—⅞ in., heavy conical core, two-piece, w't per box 4½ lbs., per box of 10 .....$12.00

No. 5196—B43—⅞ in., heavy, conical core, two-piece, w't per box 4½ lbs., per box of 10 .....$12.00

Recommended for all Buick cars.

No. 5288—AA53—⅞ in. long, reg., conical core, two-piece, w't per box 4½ lbs., 4½ lbs., box, 10 $10.60

Recommended for use in American, Earl, Chalmers, Cole, Ferris-Six, Hal, Haynes, Jackson, King, Lincoln, Moon, Oldsmobile-8, Packard, Ranger, Revere, Roamer.

Will also fit trucks, tractors, farm and stationary engines using this size plug.

No. 5197—JAS43—⅞ in. reg., conical core, one-peice, w't per box 4½ lbs., per box of 10 .....$10.60

★ Items Marked Thus ★ Are Shipped From Factory Only.

CHAMPION SPARK PLUGS AND CORES

PLUGS

Recommended for use in Allen, Elcar, Elgin, Grant, Lexington, Packard, Paige, Studebaker-1920. Will also fit trucks, tractors, farm and stationary engines requiring ⅞ in. plug.

No. 5286 — A43 — ⅞ in. std., conical core, two-piece, w't per box 4 lbs., box of 10 $10.60

Recommended for use in Essex, Hudson-1921 Rolls Royce, and White trucks, also motorcycles, farm and stationary engines using this size plug.

No. 5286 — A63 — Metric, petticoat core, two-piece, w't per box 4 lbs., per box of 10 .....$10.60

Recommended for use in Gardner, Highlander, Maxwell, Regal, Skelton, States, Willys-Six. Will also fit trucks, tractors, farm and stationary engines using this size plug.

No. 5289—A44—⅞ in. std., petticoat core, two-piece, w't per box 4 lbs., per box of 10 .....$10.60

Recommended for use in Apperson, Crow, Elcar, Holmes, Marmon, Mercer, Monroe, Premier, Pilot, Stearns, Knight, Stutz, Templar. Will also fit trucks, tractors, farm and stationary engines using this size plug.

No. 5198 — J43 — ⅞ in, S. A. E., conical core, one-piece, w't per box 4 lbs., box of 10 $10.60

Recommended for use in Franklin and Nash cars. Will also fit trucks, tractors, farm and stationary engines using this size plug.

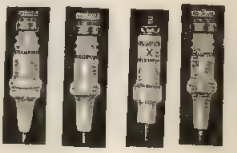
No. 5199—J52—⅞ in. long, S. A. E., one-piece, conical core, w't per box 4 lbs. .....per box of 10 $10.60

PLUGS

Recommended for use in Auburn, Austin, Case, Chandler, Daniels, Forster, Locomobile, Mitchell, Paige, Peerless, Pierce-Arrow, Stevens, Duryea, Velie, Westcott, White. Will also fit trucks, tractors and farm and stationary engines using this size plug.

No. 5294—JB43—⅞ in. long body reg., conical core, one-piece, w't per box 4 lbs. .....per box of 10 $10.60

CORES



A103 A104 A105 B103
Conical Petticoat "X" Conical

Gaskets furnished with all cores, w't per box 1 lb.

No. 5287—A103—To fit plugs A18, A43, A63 .....per box of 10 $5.40

No. 5297—A104—To fit plugs A14, A44, A64 .....per box of 10 $5.40

No. 5293—A105—To fit plugs A15, per box of 10 .....$5.40

No. 5299—A205—To fit plugs A25, per box of 10 .....$4.40

No. 5298—A503—To fit plugs A53, AA53 .....per box of 10 $5.40

No. 5296—B103—To fit plugs B13, B43, B53, B73 ..per box of 10 $6.00

SPARK PLUG SIZES PASSENGER CARS

Allen	⅞ in.
American	⅞ in.
Anderson	⅞ in.
Apperson	⅞ in.
Auburn	⅞ in.
Austin	⅞ in.
Beggs	⅞ in.
Bell	⅞ in.
Biddle	⅞ in.
Briscoe	⅞ in.
Buick	⅞ in.
Buick Long	⅞ in.
Cadillac	⅞ in.
Case	⅞ in.
Chalmers	⅞ in.
Chandler	⅞ in.
Chevrolet	⅞ in.
Chevrolet Long	⅞ in.
Cleveland	⅞ in.
Climber	⅞ in.
Cole	⅞ in.
Columbia	⅞ in.
Crawford	⅞ in.
Crow-Elkhart	⅞ in.
Cunningham	⅞ in.
Daniels	⅞ in.
Davis	⅞ in.
Detroiter	⅞ in.
Dixie-Flyer	⅞ in.
Dodge	⅞ in.
Dorris	⅞ in.
Dorris Long	⅞ in.
Dort	⅞ in.
Douglas	⅞ in.
Elcar	⅞ in.
Elgin	⅞ in.
Empire	⅞ in.
Essex	Metric
Ferris Six	⅞ in.
Fiat	⅞ in.
Ford	⅞ in.
Forster	⅞ in.
Franklin	⅞ in.
Franklin Long	⅞ in.
Gardner	⅞ in.
Geronimo	⅞ in.
Glide	⅞ in.
Grant	⅞ in.
Gray-Dort (Canada)	⅞ in.
H. A. L.	⅞ in.
Handley Knight	⅞ in.
Hanson	⅞ in.
Harroun	⅞ in.
Haynes	⅞ in.
Highlander	⅞ in.
Hollier	⅞ in.
Holmes	⅞ in.
Hudson	⅞ in.
Huffman	⅞ in.
Hupmobile	⅞ in.
Interstate	⅞ in.
Jackson	⅞ in.
Jones	⅞ in.
Jordan	⅞ in.
Jordan Long	⅞ in.
King	⅞ in.
Kissel Kar	⅞ in.
Kissel Kar Long	⅞ in.
Kline Kar	⅞ in.
Lafayette	⅞ in.
Lexington	⅞ in.
Liberty	⅞ in.
Lincoln	⅞ in.
Little	⅞ in.
Locomobile	⅞ in.
Madison	⅞ in.
Maibohm	⅞ in.

SPARK PLUG SIZES

PASSENGER CARS

Marion	⅞ in.	Norwalk	⅞ in.	Pilot	⅞ in.	Skelton	⅞ in.
Marion-Hanley	⅞ in.	Oakland Long	⅞ in.	Premier	⅞ in.	Standard	⅞ in.
Marmon	⅞ in.	Oldsmobile 6 Long	⅞ in.	Pullman	⅞ in.	States	⅞ in.
Maxwell	⅞ in.	Olsmobile 8	⅞ in.	Ranger	⅞ in.	Stearns-Knight	⅞ in.
McFarlan Six	⅞ in.	Olympian	⅞ in.	Regal	⅞ in.	Stephens Long	⅞ in.
McLaughlin (Canada) Long	⅞ in.	Overland	⅞ in.	Reo Long	⅞ in.	Stevens-Duryea	⅞ in.
Mercer	⅞ in.	Overland Six	⅞ in.	Re Vere	⅞ in.	Studebaker	⅞ in.
Metz	⅞ in.	Owen Magnetic	⅞ in.	Roamer	⅞ in.	Stutz	⅞ in.
Mitchell	⅞ in.	Packard	⅞ in.	Rolls-Royce Metric		Templar	⅞ in.
Moline-Knight	⅞ in.	Paige Detroit	⅞ in.	Ross	⅞ in.	Tulsa	⅞ in.
Monitor	⅞ in.	Pathfinder	⅞ in.	R. & V. Knight	⅞ in.	Velie	⅞ in.
Monroe	⅞ in.	Patterson	⅞ in.	Saxon	⅞ in.	Westcott	⅞ in.
Moon	⅞ in.	Peerless	⅞ in.	Sayers	⅞ in.	White	⅞ in.
Moore	⅞ in.	Pennsy	⅞ in.	Scripps-Booth L'g	⅞ in.	Willys-Knight	⅞ in.
Murray	⅞ in.	Phoenix, England Metric		Seneca	⅞ in.	Willys-Six	⅞ in.
Nash Long	⅞ in.	Piedmont	⅞ in.	Severin	⅞ in.	Winton	⅞ in.
National Long	⅞ in.	Pierce Arrow	⅞ in.	Sheridan	⅞ in.	Woods Mobilette	⅞ in.
Nelson	⅞ in.						

COMMERCIAL CARS

Acason	⅞ in.	Fageol	⅞ in.	Mack	⅞ in.	Schwartz	⅞ in.
Acme	⅞ in.	Famous	⅞ in.	Mapleleaf (Canada)	⅞ in.	Seagrave	⅞ in.
Akron Long	⅞ in.	Federal	⅞ in.	Marwin	⅞ in.	Seagrave Long	⅞ in.
All American	⅞ in.	Ford	⅞ in.	Master	⅞ in.	Seagrave (Canada)	⅞ in.
American	⅞ in.	Foreschler	⅞ in.	Maxwell	⅞ in.	Seagrave (Canada)	⅞ in.
Amer. LaFrance	⅞ in.	Four Wheel Drive	⅞ in.	Menard	⅞ in.	Seibert	⅞ in.
Apex Long	⅞ in.	Fulton	⅞ in.	Menominee	⅞ in.	Seldon	⅞ in.
Armleder	⅞ in.	Gabriel	⅞ in.	Mercury	⅞ in.	Seneca	⅞ in.
Atlas	⅞ in.	Garford	⅞ in.	Meteor	⅞ in.	Service	⅞ in.
Atterbury	⅞ in.	Gary	⅞ in.	Miller	⅞ in.	Shelby	⅞ in.
Auglaize	⅞ in.	Gersix	⅞ in.	Monarch	⅞ in.	Shelby Long	⅞ in.
Autocar	⅞ in.	Giant	⅞ in.	Morcland	⅞ in.	Signal	⅞ in.
Available	⅞ in.	G. M. C.	⅞ in.	Muskegon	⅞ in.	Sinclair	⅞ in.
Avery	⅞ in.	Graham	⅞ in.	Mutual	⅞ in.	Southern	⅞ in.
Beaver (Canada)	⅞ in.	Gramm-Bernstein	⅞ in.	Napoleon	⅞ in.	S. & S.	⅞ in.
Beck	⅞ in.	Grant	⅞ in.	Nash	⅞ in.	Standard	⅞ in.
Beggs	⅞ in.	Hall	⅞ in.	National (Canada)	⅞ in.	Stegeman	⅞ in.
Bessemer	⅞ in.	Hewitt-Ludlow	⅞ in.	Nelson & LeMoon	⅞ in.	Sterling	⅞ in.
Bethlehem	⅞ in.	H. R. L.	⅞ in.	New York	⅞ in.	Stewart	⅞ in.
Betz	⅞ in.	Huffman	⅞ in.	Niles	⅞ in.	Stuebaker	⅞ in.
Bolte	⅞ in.	Independent	⅞ in.	Northwestern	⅞ in.	Superior	⅞ in.
Bourne-Magnetic	⅞ in.	Indiana	⅞ in.	Norwalk	⅞ in.	Taylor	⅞ in.
Brinton	⅞ in.	International Harvester	⅞ in.	O. K.	⅞ in.	Tiffin	⅞ in.
Briscoe	⅞ in.	Jackson	⅞ in.	Old Hickory	⅞ in.	Traffic	⅞ in.
Brockway	⅞ in.	Jones	⅞ in.	Old Reliable	⅞ in.	Transport	⅞ in.
Clysedale	⅞ in.	Jumbo	⅞ in.	Oldsmobile Econ'y	⅞ in.	Traylor	⅞ in.
Collier	⅞ in.	Kalamazoo	⅞ in.	Oneida	⅞ in.	Triangle	⅞ in.
Columbia	⅞ in.	Kankakee	⅞ in.	Orleans	⅞ in.	Triumph	⅞ in.
Commerce	⅞ in.	Kardell	⅞ in.	Oshkosh Long	⅞ in.	Triumph (Buffalo)	⅞ in.
Concord	⅞ in.	Keldon	⅞ in.	Overland	⅞ in.	Trojan	⅞ in.
Cook	⅞ in.	Kelly-Springfield	⅞ in.	Packard	⅞ in.	Twin City	⅞ in.
Corbitt	⅞ in.	Keystone	⅞ in.	Paige	⅞ in.	Ultimate Long	⅞ in.
Cunningham	⅞ in.	Keystone	⅞ in.	Parker	⅞ in.	Union	⅞ in.
Cyclone Long	⅞ in.	King	⅞ in.	Piedmont	⅞ in.	United	⅞ in.
Dart	⅞ in.	Kissel	⅞ in.	Pierce Arrow	⅞ in.	Universal	⅞ in.
Day Elder	⅞ in.	Klyether	⅞ in.	Rainier	⅞ in.	U. S.	⅞ in.
Dearborn	⅞ in.	Koehler	⅞ in.	Ranger	⅞ in.	Velie	⅞ in.
Defiance	⅞ in.	LaFrance	⅞ in.	Rapid	⅞ in.	Veteran (Canada)	⅞ in.
DeKalb	⅞ in.	Lambert	⅞ in.	Reliance	⅞ in.	Vim	⅞ in.
Denby	⅞ in.	Lamson	⅞ in.	Reo Long	⅞ in.	Walker Johnson	⅞ in.
Dependable	⅞ in.	Landshaft	⅞ in.	Republic	⅞ in.	Ward LaFrance	⅞ in.
Detroit	⅞ in.	Lane	⅞ in.	Riddle	⅞ in.	White Metric	
Diamond T	⅞ in.	Lange Long	⅞ in.	Riker	⅞ in.	White	⅞ in.
Dispatch	⅞ in.	Larrabee-Deyo	⅞ in.	Robinson	⅞ in.	Wichita	⅞ in.
Dodge	⅞ in.	Lincoln	⅞ in.	Rowe	⅞ in.	Wilcox-Trux	⅞ in.
Dorris	⅞ in.	Lippard-Stewart	⅞ in.	Rush	⅞ in.	Wilson	⅞ in.
Dorris Long	⅞ in.	Little Giant	⅞ in.	Schacht	⅞ in.	Winther	⅞ in.
Douglas	⅞ in.	Luedinhaus	⅞ in.			Wolverine	⅞ in.
Duplex Long	⅞ in.	Luverne	⅞ in.				
		Maccar	⅞ in.				

SPARK PLUG SIZES

MOTORCYCLES

Ace	Metric	Excelsior	Metric	Indian	⅞ in.
Cleveland	Metric	Harley-Davidson	⅞ in.	Johnston Motor Wheel	⅞ in.
Cyclemotor	Metric	Henderson	Metric	Rollaway	Metric
Schickel	⅞ in.				
Thor	Metric				
Yankee	Metric				

TRACTORS

Albaugh-Dover	L. ⅝ in.	Common Sense	⅝ in.	Illinois	⅝ in.
Alligator	Long ⅝ in.	Dauch	⅝ in.	Indiana	⅝ in.
Allis-Chalmers	⅝ in.	Dill	⅝ in.	Kardell	⅝ in.
All Work	⅝ in.	Dill	⅝ in.	Keck-Gonnerman	⅝ in.
American	⅝ in.	Eagle	⅝ in.	Lauson	⅝ in.
Appleton	⅝ in.	Elgin	Long ⅝ in.	Lightfoot (Monarch)	Long ⅝ in.
Aultman-Taylor	L. ⅝ in.	Elgin	⅝ in.	Linn	⅝ in.
Aultman-Taylor	⅝ in.	Emerson Brantingham	⅝ in.	Massey-Harris (Canadr)	L. ⅝ in.
Austin	⅝ in.	Fageol	⅝ in.	Merry Garden	⅝ in.
Autohorse	⅝ in.	Fair Mor	⅝ in.	Midwest	⅝ in.
Automotive	⅝ in.	Farm Horse	⅝ in.	Minneapolis	⅝ in.
Avery	⅝ in.	Fitch	⅝ in.	Moline Universal	⅝ in.
Avery	Long ⅝ in.	Flour City	Long ⅝ in.	Municipal	⅝ in.
Bailor	⅝ in	Fordson	Long ⅝ in.	Municipal	⅝ in.
Bailor	⅝ in	Fox	⅝ in.	Neversliip (Monarch)	Long ⅝ in.
Bates	Long ⅝ in.	Frick	Long ⅝ in.	Nicholas & Shepard	⅝ in.
Bates Stl Mule	L. ⅝ in.	GO (National)	⅝ in.	Nilson	⅝ in.
Beeman Garden	⅝ in.	Grain Belt	⅝ in.	Parrett	⅝ in.
Bethlhem	⅝ in.	Gray	⅝ in.	Pawling & Harnisfeger	⅝ in.
Big Bull	⅝ in.	Happy Farmer	⅝ in.	Peoria	⅝ in.
Bolte	⅝ in.	Harrington Ex.	L. ⅝ in.	Piedmont	⅝ in.
Bull	⅝ in.	Harrington	⅝ in.	Pioneer	⅝ in.
Canadian (Canada) Ex.	L. ⅝ in.	Hart Parr	Long ⅝ in.	Plowman	⅝ in.
Case	Long ⅝ in.	Heider	⅝ in.	Ranger	⅝ in.
Chase (Canada)	⅝ in.	Holt	⅝ in.	Reliable Ex.	Long ⅝ in.
Cletrac	⅝ in.	Huber	⅝ in.	R. & P.	⅝ in.
		I. H. C.	Long ⅝ in.	Rumely Oil Pull	⅝ in.
				Russell	⅝ in.
				Sandusky	⅝ in.
				Shelby	⅝ in.
				Shelby	Long ⅝ in.
				Spaulding	⅝ in.
				Square Turn	Long ⅝ in.
				Star	⅝ in.
				Stearns	⅝ in.
				Topp Stewart	⅝ in.
				Toro	⅝ in.
				Tracklayer	⅝ in.
				Traylor	⅝ in.
				Triumph	⅝ in.
				Triumph	Long ⅝ in.
				Turner Simplicity	⅝ in.
				Twin City	⅝ in.
				Uncle Sam	⅝ in.
				Utilitor	⅝ in.
				Velie Biltwell	⅝ in.
				Wallis Cub	⅝ in.
				Waterloo Boy	L. ⅝ in.
				Wisconsin	⅝ in.

FARM, STATIONARY, MARINE AND LIGHTING ENGINES

Acadia (Canada)	½ in.	Fairbanks Morse	½ in.	Kohler	Metric
Aerothrust	½ in.	Fairfield	Long ½ in.	Lake	Metric
Arrow	½ in.	Falls	½ in.	Lake	½ in.
Automatic	½ in.	Fate	½ in.	Lalley-Light	½ in.
Baker	½ in.	Fay & Bowen	½ in.	Langstadt-Meyer	½ in.
Beaver	½ in.	Fisherman	Long ½ in.	Latrop	Long ½ in.
Brennan	Metric	Florida	½ in.	Le Roi	½ in.
Buda	½ in.	Foos	½ in.	London (Canada)	½ in.
Buffalo	½ in.	Friend	Long ½ in.	Lycoming	½ in.
Buffalo	½ in.	Fuller & Johnson	½ in.	Macheck	Long ½ in.
Burnett-Larsh	½ in.	Fuller & Johnson	½ in.	Massey-Harris (Canada)	L. ½ in.
Caille	½ in.	Fulton	Long ½ in.	Matthews	½ in.
Challenge	½ in.	Gade	½ in.	Middletown	½ in.
C. H. & E.	Long ½ in.	Gibbs	½ in.	Midwest	½ in.
Climax	½ in.	Gierhoitt	½ in.	Miller	½ in.
Continental	½ in.	Golden Belknap & Swartz	½ in.	Miller	½ in.
Cook	Long ½ in.	Hawley	½ in.	Miller Improved	½ in.
Cushman	½ in.	Hercules	½ in.	Model	½ in.
Delco-Light	½ in.	Herschell Spillm'n	½ in.	Murray-Tregurtha	Metric
Dis-Pro (Canada)	Long ½ in.	Hess	Long ½ in.	New Way	½ in.
Doman	½ in.	Hettinger	½ in.	New Way	Long ½ in.
Domestic	Long ½ in.	Hinckly	½ in.	Niagara	½ in.
Dominion (Canada	½ in.	Holland	½ in.	Northway	½ in.
Duro	½ in.	Holt	½ in.	Northwestern	½ in.
Easthops (Canada)	½ in.	Ideal	Long ½ in.	Novo	½ in.
Economy	½ in.	Imperial (Canada)	Long ½ in.	Owen	½ in.
Elco	½ in.	Kermath	½ in.	Peninsular	½ in.
Elgin Gas	½ in.	Kewanee	½ in.	Perfection	½ in.
Erd	Long ½ in.	Koban	½ in.	Phelps	½ in.
Evinrude	½ in.			Pierson	½ in.
				Red Wing	½ in.
				Reliance	Long ½ in.
				Rochester Usenberg	½ in.
				Ronning	½ in.
				Root & Vandervoort	½ in.
				Rutenber	½ in.
				Sanderson	Ex. L. ½ in.
				Schramm	½ in.
				Standard Separator	½ in.
				Stanley	Long ½ in.
				Stearns	½ in.
				Sterling	½ in.
				Stover	½ in.
				Stover	Long ½ in.
				Supreme	½ in.
				Sypher	½ in.
				Termaat & Monchan	½ in.
				Turner & Moore	½ in.
				Twin City	½ in.
				Unilectric	Long ½ in.
				Universal	½ in.
				Van Berck	½ in.
				Walker	½ in.
				Waterloo Boy	L. ½ in.
				Waukesha	½ in.
				Weidely Bulldog	½ in.
				Western	½ in.
				Westman	½ in.
				Westman	½ in.
				Willys-Light	½ in.
				Winton	Long ½ in.
				Wisconsin	½ in.
				Witte	½ in.
				Wolverine	Ex. L ½ in.

COAL PICKS

—PINE KNOT—

Solid steel body and points, natural finish, oiled, large full eyes.

A Pattern Cutting used largely in Indiana and Illinois.

Nos.	1½ PKA	2PKA	2½ PKA	3PKA
Weight, each lbs	1½	2	2½	3
Length over all, in.	12	14	14½	16
Weight doz. lbs	18	24	30	36
Per Dozen	$13 50	13 50	15 00	16 05

Three dozen in a wood box.

—PINE KNOT—

B Pattern Cutting used largely in Ohio, Indiana, Kentucky, West Virginia and parts of Illinois.

Nos.	1½ PKBC	2PKBC	2½ PKBC	3PKBC
Weight each, lbs	1⅝	2	2⅜	3
Length over all, in.	12½	13	14	15
Weight per dozen, lbs	18	24	30	36
Per Dozen	$13 50	13 50	15 00	16 05

Nos.	3½ PKBC	4PKBC	4½ PKBC
Weight each, lbs	3½	4	4½
Length over all, in.	16	17	17½
Weight per dozen, lbs	42	48	54
Per Dozen	$17 25	18 00	18 75

Three dozen in a wood box.

—PINE KNOT—

Brennan Pattern Mining used largely in West Virginia and other sections of the country.

Nos.	1½ PKBM	2PKBM	2½ PKBM	3½ PKBM
Weight each, lbs.	1½	2	2½	2½
Length over all, in	13½	15	15	15½
Weight dozen, lbs.	18	24	27	30
Per Dozen	$13 50	13 50	14 40	15 00

Nos.	2¾ PKBM	3PKBM	3½ PKBM	4PKBM
Weight, each, lbs	2¾	3	3½	4
Length over all, in	16	17	18	19
Weight dozen, lbs	36	36	42	48
Per Dozen	$15 75	16 05	17 25	18 00

Three dozen in a wood box.

—PINE KNOT—

L Long Pattern Mining used largely in Indiana and Illinois.

Nos.	1½ PKL	2PKL	2½ PKL	3PKL
Weight each, lbs.	1½	2	2½	3
Length over all, in.	12	13½	15	17
Weight per dozen, lbs.	18	24	30	36
Per Dozen	♣$13 50	13 50	15 00	16 05

Three dozen in a wood box.

♣F. O. B. West Virginia Factory Only.

COAL MINERS' TOOLS

For Blasting Purposes.

TAMPING DRILLS

⅞ in. round iron; length over all 6 ft.; best tool steel bit, 6 in. long, 2½ in. wide; natural finish.

Per Dozen

No. 1TD—Iron Tamping Head; weight dozen 90 lbs. $33 00
No. 2TD—Copper Tamping Head; wt. doz. 100 lbs. 60 75

Packed loose.

DOUBLE END SCRAPERS

Length 6 ft.; tamping head length, 6 inches; black finish.

Per Dozen

No. 5S—Made of ⅝ inch round steel $12 00
No. 5CS—Made of ⅝ inch round steel, copper head 27 75

Packed loose; weight per dozen 20 lbs.

COMBINED TAMPERS AND SCRAPERS

Length 6 feet; tamping head, length, 6 inches; black finish.

Per Dozen

No. 6TS—Iron tamping head; made of ⅞ in. round iron; 1 inch head $21 75
No. 6OTS—Copper tamping head; made of ¾ in. round iron; 1½ inch head 42 00

Packed loose; weight per dozen 32 lbs.

NEEDLES

Length over all 6 feet, tapers to sharp point; will not bend.

Per Dozen

No. 2N—Best tool steel, one piece, polished; tapers from ⅜ inch; open handle; 6 feet long $18 00
No. 4N—Malleable handle riveted to copper needle. Drawn from ¼ hard copper rods to an exact taper, 6 ft. long. Ground, highly polished and lacquered to prevent corrosion 55 50

One dozen in bundle; weight per dozen 30 lbs.

MINERS' DRILLS

NOTCHED STEEL POST "L"

Made in end gear or direct motion only. Has flat augers. Socket is on the feed bar. Has no boot on the post. Patent adjustable take-up boxing.

Special carbon steel thread bar, steel journals and post; special steel augers.

With 3 augers, one each, 2, 4 and 6 feet long; diameters 1½ inches; length feed bar 3 feet; diameter feed bar 1⅞ inches, 8 threads to inch. Adjustable in height from 3½ to 6 feet.

Each

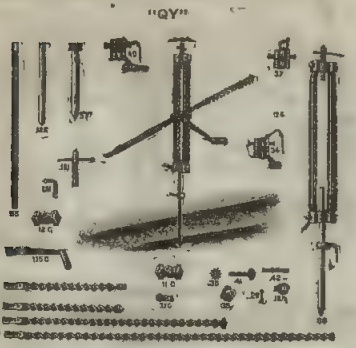
No. 3L—End gear, weight each 40 lbs. $27 75

Packed loose.

MINERS' DRILLS

NOTCHED STEEL POST

"QY"



Steel post and journals; special steel thread bar and augers.

For all kinds of coal; with 3 augers, one each 2, 4 and 6 feet long; diameter augers 1½ inches; length feed bar 3¼ feet; diameter feed bar 1¼ inch; 9 threads to inch. Length of frames 3½ ft.

		Each
No. QYSEG	—Side and end gear; weight each 75 lbs	$43 25
No. QYEG	—End gear only; weight each 65 lbs	35 25

Packed loose.

EXTRA PARTS FOR "QY" NOTCHED DRILLS

In ordering augers, specify whether same are wanted with square or feather edge. When ordering drills or posts, state thickness of the vein of coal in which they are to be used.

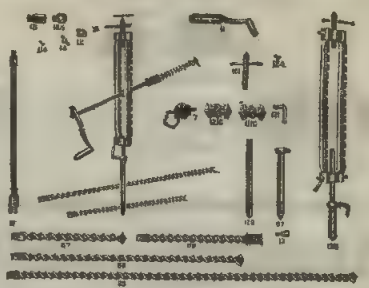
Always give number and name of part wantad.

Nos.		Each
34	Thread Box (Alloy Metal)	$6 00
40	Thread Box, complete with No. 42 Shaft and No. 36 Small Pinion	✦ 7 50
55	Thread Bar	7 50
110	Casting for Post (Jack Screw No. 101 fits in)	✦ 3 60
120	Casting for Post (No. 129 fits in)	✦ 3 60
161½	Ring for 1¼ inch Boot	✦ 75
29	Small Spring Key for Shaft	✦ 39
35	Large Gear Wheel	✦ 1 95
36	Small Gear Wheel	✦ 1 65
37	End Gear Thread Box	✦ 2 70
37C	Square Socket for Augers	✦ 1 05
41	Journal and Cog	✦ 2 70
57	Small Boot, 1¼ inch in diameter	✦ 2 40
90	Long, or 6 foot Auger	✦ 7 50
91	Medium, or 4 foot Auger	✦ 5 85
92	Short, or 2 foot Auger	✦ 3 30
93	Auger Extension, 2 feet long	✦ 3 30
101	Jack Screw	✦ 2 10
121	Tail Set Screw	✦ 90
124	Set Screw for No. 11C and No. 12C	✦ 60
129	Small Size Stem that fits in No. 57	✦ 2 10
135C	Crank	✦ 3 30
138	Post complete, as shown in cut	✦19 50

✦F. O. B. West Virginia Factory Only.

MINERS' DRILLS

BIRMINGHAM—NOTCHED



Steel post journals, special steel thread bar and augers.

For all kinds of coal; with 3 augers, one each 2, 4 and 6 feet long; diameter augers 1½ in., length feed bar 2¾ ft.; diameter feed bar 1 in.; 9 threads to inch. When ordering always give length of frame or height of coal.

		Each
No. 15BN	—End gear; weight each 65 lbs	$39 00

Packed loose.

EXTRA PARTS

For Birmingham Notched Miners' Drills.

In ordering augers, specify whether same are wanted with square or feather edge. When ordering drills or posts, state thickness of the vein of coal in which they are to be used.

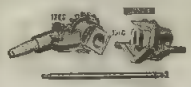
Always give number and name of part wanted.

Nos.		Each
7	Thread Box (Alloy Metal)	✦$2 85
11	Crank	✦ 3 15
11C	Casting for Post that Jack Screw No. 110 fits in	✦ 3 45
12	Clamp	✦ 60
12C	Casting for Post that No. 129 fits in	✦ 3 45
14T	Square Thread Bar Socket	✦ 1 26
14T	Thumb Nut	✦ 60
15	Auger Socket	✦ 1 50
16½	Ring for 1¼ inch Boot	✦ 90
17	Small Boot 1¼ inches in diameter	✦ 3 00
13	Thread Bar	✦ 7 20
85	Long Auger, 6 feet long	✦ 7 80
86	Medium Auger, 4 feet long	✦ 5 55
87	Small Auger, 2 feet long	✦ 2 85
88	Two foot Auger Extension	✦ 3 15
101	Jack Screw	✦ 2 10
114	Set Screw for Auger Socket	✦ 42
121	Tail Set Screw	✦ 96
124	Set Screw for No. 11C and 12C	✦ 48
129	Small Size Stem that fits in No. 57	✦ 2 85
138	Post complete as shown in cut	✦19 50

✦F. O. B. West Virginia Factory Only.

MINERS' DRILL PARTS

DRILL PARTS FOR NOTCHED STEEL POST DRILLS



	Each
No. 557B—Thread bar	$7 05
No. 131C—Hinged or open boxing	2 85
No. 134C—Gearing only for drill	7 80

Packed loose.

DRILL AUGERS FOR NOTCHED STEEL POST DRILLS

	Each
No. 6A—Long or 6 foot auger	$7 95
No. 4A—Medium or 4 foot auger	5 70
No. 2A—Short or 2 foot auger	2 85

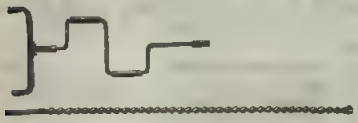
Packed loose.

DRILL PARTS FOR "A" DRILLS

	Each
No. 7BA—Boxing for end gear only	$2 85

Packed loose.

MINERS' BREAST AUGERS



Double Crank.

Open Hearth Steel Twist.

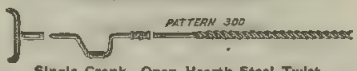
Steel breast strap, bent bar and socket; black finish. New style patent joint makes auger as rigid as though it were welded together; quickly removed; ferrule or crank has key which holds breast plate to auger and prevents it from slipping or falling off. For use in soft coal.

Nos.	36D	48D	60½D
Length twist, in.	36	48	60
Diameter, inches	1¾	1¾	1½
Weight each, lbs.	20	20	24
Per Dozen	$84 00	91 50	87 75

Nos.	60D	72D	72½D
Length twist, in.	60	72	72
Diameter, inches	1¾	1¾	1½
Weight each, lbs.	25	27	26
Per Dozen	✦$101 25	✦$96 00	89 25

✦F. O. B. West Virginia Factory Only.

MINERS' BREAST AUGERS



Single Crank—Open Hearth Steel Twist.

Steel breast strap, bent bar and socket; black finish.

New style patent joint which from its novel construction; makes an auger as rigid as though it were welded together, quickly removed; ferrule or crank has key which holds breast plate to auger and prevents it from slipping or falling off.

Nos.	36½	48½	36	48
Lgth. twist, in.	36	48	36	48
Diameter, in.	1½	1½	1¾	1¾
Wt. each, lbs.	14	16½	14½	17
Per Dozen	✦$70 50	✦72 00	✦75 75	✦78 00

Nos.	60½	60	72½	72
Lgth. twist, in.	60	60	72	72
Diameter, in.	1½	1¾	1½	1¾
Wt. each, lbs.	19	20	21	22
Per Dozen	$80 25	✦91 50	✦80 25	✦90 00

Packed loose.

EXTRA PARTS

	Per Dozen
No. 5BP—Breast plate for miners breast augers	$15 75
No. 10C—Couplings for miners breast augers	4 80

Packed loose.

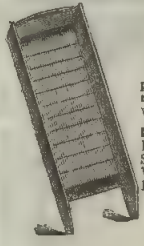
MINERS' SQUIBS

GENUINE POWELL

For firing blasts in coal mining. Length 6 inches. Burns with a flame.

No.	1PS
Per 1000	$ 7 50
Single Case Lots, Per Case	58 50
5 Case Lots, Per Case	57 00
10 Case Lots, Per Case	55 50

100 in a box, 10,000 in a wood case, wt. per case 25 lbs.



SAND SCREENS

Heavy wood frame, painted red.

Steel wire bottom; mesh wires held in place by being locked in heavy sheet metal turned into a tubular shape. Size wire bottom 17½x46 inches.

Nos.	4WSS	5WSS	6WSS
Mesh to inch	4	5	6
Size, inches	24x66	24x66	24x66
Weight each, lbs.	22	28	24
Each	$27 00	27 00	27 00

Packed loose.

MINERS' HATS

BEACON

Black—best quality material; stiff crown and brim; lined with white canton flannel ear pieces of same material. With tin holder attachment firmly riveted to front of hat, for holding a miner's lamp, the lamp easily attached.

No. 866—Sizes 6¾ to 7½.

(For Prices See Department 9.)

Packed loose; weight per dozen 5 lbs.

✦F. O. B. West Virginia Factory Only.

MINERS' CAPS

BLACK DIAMOND

Light weight white duck, lock stitched, black enameled cloth visor; with fibre and tin lamp attachment.

Per Dozen

No. 222-3—Assorted sizes 6¾ to 7⅝; wt. doz., 3½ lbs. . . . $6 00

One dozen in a cardboard box.

Heavy weight brown duck, strong, lock stitched; plain white cloth visor; tin and fibre lamp attachment.

Per Dozen

No. 200-1—Assorted sizes 6¾ to 7⅝; weight dozen 3¼ lbs. . . . $6 75

One dozen in a cardboard box.

Corduroy, with ear lugs; red flannel lining; black enameled cloth visor, tin and fibre lamp attachment, for winter use.

Per Dozen

No. 225—Assorted sizes, 6¾ to 7⅝; weight per dozen 3¾ lbs. . . . $12 80

One dozen in a cardboard box.

BLACK DIAMOND

Light weight brown duck; black enameled cloth visor; with tin and fibre lamp attachment, will not absorb water or oil.

Per Dozen

No. 204-3—Assorted sizes, 6¾ to 7⅝; wt. doz., 3½ lbs. . . . $6 00

One dozen in a cardboard box.

Heavy weight white duck, strong, lock-stitched; plain white cloth visor, tin and fibre lamp attachment.

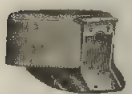
Per Dozen

No. 200-9—Assorted sizes; 6¾ to 7¾; weight dozen 3¼ lbs . . . $7 20

One dozen in a cardboard box.

Note—No. 200-9 caps can also be furnished from stock, straight sizes, 6⅞, 7, 7⅛ and 7¼.

BLACK DIAMOND



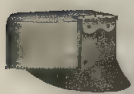
Heavy weight brown duck, strong, lock stitched; black enameled cloth visor; tin and fibre lamp attachment.

Per Dozen

No. 201-9—Assorted sizes, 6¾ to 7⅝, wt. doz., 3¼ lbs. . . . $7 20

One dozen in a cardboard box.

BLACK DIAMOND



Heavy weight white duck, sole leather visor, sole leather lamp attachment with metal top.

Per Dozen

No. 211-2—Assorted sizes, 6¾ to 7⅝; wt. per doz., 3½ lbs. . . . $10 50

One dozen in a cardboard box.

BLACK DIAMOND

Heavy weight "special shrunk" white duck; flannel lined; visor is of specially treated vulcanized fibre, which is non-breakable; lamp holder is of hard specially treated vulcanized fibre, and made to carry perfectly any acetylene or oil lamp.

Per Dozen

No. 75—Assorted sizes 6¾ to 7⅝; wt. per dozen 4 lbs . . . $10 50

One dozen in a cardboard box.

MINERS' CARBIDE LAMPS

JUSTRITE

With Matchless Reflector.

Drawn from seamless brass.

A new principle in water feed—a valve enclosed in a ¼ inch tube, so constructed that it increases or decreases the supply of water, enabling the user to burn the flame at any size desired.

The hook is riveted and soldered; fits all caps.

The clasp is made of spring brass, holds lamp secure to cap; will fit all standard cap shields.

The burner tip is made of imported lava, with 4 air holes, which prevents carbonizing. Will not clog and does not require agitation in order to obtain water as needed.

JUSTRITE—Lever Feed, With Sparker.

Valve is operated by a lever sliding back and forth over notches, and held firmly in place by a small spring. The sparkler on reflector completely eliminates the use of matches.

Height 4¼ inches; diameter reflector 2½ inches; 13½ candle power. Furnished with one No. J77 carbide container.

Per Dozen

No. 85—Lamp only; polished . . . $31 50

One in a cardboard box; weight each 6 ozs.

JUSTRITE—Polygon Feed, With Sparker.

Valve Control—Lighter Attachment.

The sparker or igniter on reflector completely eliminates the use of matches.

Height 4¼ inches; diameter reflector 2⅝ inches; 15½ candle power.

Per Dozen

No. 707—Lamp only; polished brass . . . $27 75

One in a cardboard box; weight each 8 ozs.

JUSTRITE—Liberty Feed, With Sparker.

Drawn from seamless brass; polygon. Valve is square threaded and soldered on the valve stem. It is set rigid and cannot get out of alignment, therefore it is a positive water shut off and will not leak. The sharp corners of the button breaks, also rips away the caked carbide, always insuring a sturdy free water flow. Diameter of reflector 3 ins.

Per Dozen

No. 767 Lamp only, polished brass $30 00
No. 769 Lamp only; nickel plated 33 75

One in a cardboard box; weight each 8 ozs.

VICTOR—Regulating Value Water Feed, Detachable Reflector and Brace With Sparker.

The water feed is a dependable regulating valve which can be adjustable to permit the water to flow freely. Reflector is polished brass, with wire edge that fits snug to the reflector brace; fastened to lamp with a knurled nut. Height 3¾ inches; detachable reflector 2¾ inches in diameter; 16 candle power. Polished brass.

Lamp Only.

No. . . . 660

Per Dozen . . . $27 75

One in a cardboard box; weight each 4½ ozs.

MINERS' CARBIDE LAMPS

GUYS DROPPER

Drawn from seamless brass. Has 2½ inch deep brass polished reflector intended for miners working in wet places or where the roof is low. Fitted with Guys patented water dropper and valve cleaner. Height 4 ins.; diameter of reflector 2½ inches.

No. 28SL
Per Dozen $27 00
One in a cardboard box; weight each 6 ozs.

HUNTERS' HEAD LAMPS

JUSTRITE

For Carbide.

Head light made of brass, nickel plated, held firmly to cap shield by hook and clasp; strong lens 2½ in diameter, ⅛ inch thick, set in hinged frame, fastened with spring; equipped with a ¾ foot imported fish tail lava tip and self-lighting attachment. Nickel silver reflector projects a strong light 100 feet.

Generator—consists of two parts, water tank and carbide container, made of No. 20 gauge lead-coated steel; non corrosive and non-rusting lock seamed and soldered 4½ inches high, 4½ inches long and 1¾ inches wide. Water feed is controlled by a notch lever valve; can be shut off when desired. Finished in black enamel. High grade rubber tube, covered with fabric, soft and pliable.

Complete with generator, headlight, rubber tube, belt and pins.

Burns 10 Hours on one Charge.

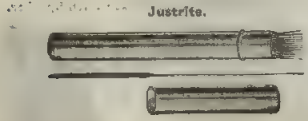
Per Dozen
No. J44—Complete, less cap (**For prices see Dept. 9**). $
One in a cardboard box; wt. 2 lbs.

EXTRAS FOR JUSTRITE LAMPS

	Per Dozen
No. J2—Rubber gaskets	$0 45
No. J3—Felt holders	1 05
No. J4—Valve stems	6 00
No. J5—Felt packing	45
No. J6—Lava burner tips	45
No. J28—Metal shell, lava insert, burner tips	90

TIP REAMERS

Justrite.



Made of hard rust-proof wire designed especially for use on carbide lamp tips.

Per Dozen
No. J-145—Weight per tube 2 ozs $1 05
One dozen in a metal tube.

CARBIDE FLASK

JUSTRITE

Made of extra heavy tin, seamed and soldered; 1⅛ inch screw top.

Per Dozen
No. J24—Capacity 1 pound, height 6¾ inches; width 2⅞ inches $6 00
One dozen in a carton; weight per dozen 4 lbs.

POCKET CARBIDE CONTAINERS

JUSTRITE

Made of heavy tin, concaved with slide cover and round corners. Fits hip pocket.

Per Dozen
No. J77—Capacity 10 ounces; size 3½x4 inches $3 75
One dozen in a carton, weight per doz. 2 lbs.

JUSTRITE ATTACHMENTS

LARGE REFLECTORS FOR JUSTRITE LAMPS

Large reflector; 3 inches in diameter; made of aluminum; highly polished; weight ½ ounce; suitable for drivers.

Increases the light to 16¾ candle power.

No. J1—Fits any Justrite Miners' Lamp. Per Dozen
Packed loose; weight per dozen 6 ounces. ✱$6 00

MATCHLESS REFLECTORS

For Justrite or Baldwin Lamps.

Made of polished brass. Held firmly around tip holder by means of tightening screw in collar. Will fit Justrite and Baldwin Miners' Lamps. The sparker or igniter on reflector makes matches unnecessary as sparks are produced by simply turning wheel.

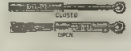
Per Dozen
No. J26—Diameter 2½ inches $6 75
Packed loose; weight per dozen 12 ounces.

EXTRA FLINTS, For Matchless Reflectors.

Per Carton
No. J27—Carton contains 12 envelopes, each holding 1 flint $0 75

TIP CLEANERS

OPEN



Steel wire brush; brass case. The brush is protected when not in use.

Per Dozen
No. J37—Length 2¼ ins $2 25
Packed loose; weight per dozen ½ lb.

JUSTRITE REPAIR OUTFITS

Contents.

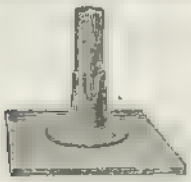
6 doz. rubber gaskets.
3 doz. felt packing.
6 doz. burner tips.
1 doz. cleaning wires.
1 doz. felt holders.
½ doz. valve stems.

Each
No. J20 Wt. each 2 lbs. $12 00

✱F. O. B. Illinois Factory Only.

CONCRETE TOOLS

SIDEWALK TAMPERS

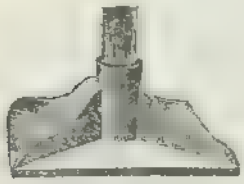


Steel plate, malleable riveted socket, 4 foot, squared plain end, wood handle.

Nos.	N4	N5
Size, in.	8x8	10x10
W't each, lbs.	15	18
Per dozen	$43.20	48.00

No. N45—Extra Handles, per dozen $5.60

LOOSE



One-piece, reinforced cast plate and socket, 4 foot round slotted end, wood handle.

Nos.	N30	N40
Size, in.	6x6	8x8
W't each, lbs.	10	16
Per dozen	$24.30	32.00

No. N34—Extra Handles, per dozen $5.60

PACKED LOOSE

BEADING TOOLS

Polished cold drawn steel, milled true to gauge, length 8½ in., one end concave and the other convex.

Nos.	140	130	120
Size, in.	¼	⅜	5/16
W't per doz., lbs.	4½	3	2⅝
Per dozen	$9.00	9.00	9.00

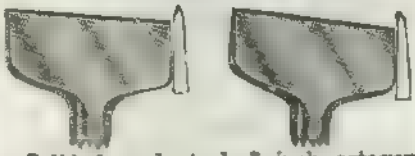
HALF DOZEN IN A BOX

POINTING TOOLS

No. 402—8 in. long, one end round for concave mortar joints, one end square for diamond joints tool steel, polished and tempered, w't per doz. 3½ lbs. ..... per dozen $9.00

HALF DOZEN IN A BOX

BRICK CHISELS AND SETS



Solid forged steel, ⅞ inch octagon shank, polished head and blade, length over all about 7 inches.

No. 75—Chisels, double bevel, 4 in. blade, w't per doz. 13½ lbs., per dozen $17.00

No. 55—Sets, single bevel, 4 in blade, w't per doz. 18½ lbs., per dozen $17 00

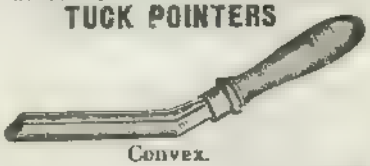
HALF DOZEN IN A BOX

REV-O-NOC STAR DRILLS

Made of tough high carbon octagon steel, hand forged, ground to size, tempered in oil and slightly drawn to color, polished wings and head.

Nos.	412	418	512	518
Size, in.	¼	¼	5/16	5/16
Length, in.	12	18	12	18
W't, doz., lbs.	2½	3	3½	3½
Per dozen	$6 30	8.30	6 50	8.60
Nos.	**612**	**618**	**812**	**818**
Size, in.	⅜	⅜	½	½
Length, in.	12	18	12	18
W't, doz., lbs	3½	4	5	7½
Per dozen	$6.70	8 90	8.00	9.80
Nos.	**1012**	**1018**	**1212**	**1218**
Size, in.	⅝	⅝	¾	¾
Length, in.	12	18	12	18
W't, doz., lbs.	8½	9½	13	13½
Per dozen	$10.00	13.00	11.60	15.00
Nos.	**1412**	**1418**	**1612**	**1618**
Size, in.	⅞	⅞	1	1
Length, in.	12	18	12	18
W't, doz., lbs.	19	19½	20	26
Per dozen	$14.30	18.00	17.30	21.00

TUCK POINTERS



Convex.

Concave.

Forged steel, 4½ inch hardwood polished handle with ferrule, length of pointing surface 5 inches.

Concave.

Nos.	2	3
Width, in.	⅜	½
W't per doz., lbs.	3½	7
Per dozen	$14.40	14.40

HALF DOZEN IN A BOX

Convex.

Nos.	112	113
Width, in.	⅜	½
W't per doz., lbs.	4	7
Per dozen	$14.40	14.40

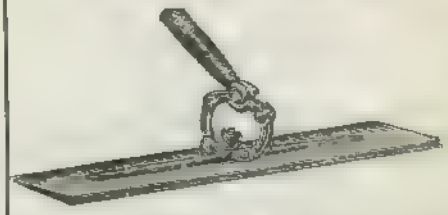
HALF DOZEN IN A BOX

ABRAMS JOINTERS

No. 20—Nickeled iron, 10x3½ in., double action, cuts groove ⅜ in. deep by ⅜ in. wide at surface, 6 ft. handle, w't each 6 lbs. ..... each $10.00

LOOSE

FINISHING TROWELS



No. 1—Silver steel, 24x5 in., double action, 6 ft. handle, w't each 6 lbs., each $15.00

No. 2—Silver steel, 16x5 in., double action, 6 ft. handle, w't each 6 lbs., each $12.60

LOOSE

EDGERS

No. 30—Nickeled iron 10x3½ in., double action ⅜ in. form face, about ½ in. radius 6 ft. handle, w't each 6 lbs. ..... each $10 00

LOOSE

H.S.B. & CO. REV-O-NOC

We Stand Behind the Brand.

CEMENT AND SIDEWALK TOOLS

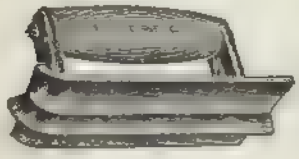
Made of Close Grained Cast Iron, Well Polished, with Waxed Maple Handles.

JOINTERS

These jointers are for grooving between the sections of a concrete walk, cutting a groove ½ in. deep, ⅜ in. wide.

No. 10—Iron, 6x2¾ in., both ends curved, w't per doz. 11½ lbs., per dozen $7.60

SIXTH DOZEN IN A CASE



These jointers are for grooving between the sections fo a concrete walk, cutting a groove ½ in. deep, ⅜ in. wide.

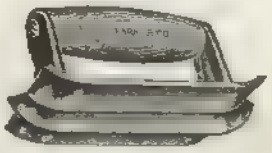
No. 12—Iron, 6x3 in., one end straight, w't per doz. 14 lbs., per dozen $7.60

SIXTH DOZEN IN A CASE

No. 10N—Iron, 8x1¾ in., both ends curved, w't per doz. 16 lbs., per dozen $7.60

SIXTH DOZEN IN A CASE

SIDEWALK GROOVERS



No. 13—Iron, 6x3 in., both ends curved, w't per doz. 15 lbs., per dozen $7.60

SIXTH DOZEN IN A CASE

Groovers make a cut ½ in. deep and ½ in. wide. Used for drainage grooves or to prevent slipping.

No. 14—Iron, 6x3 in., one end straight, w't per doz. 14 lbs., per dozen $7.60

SIXTH DOZEN IN A CASE

CURBING EDGERS

For finishing curbs, copings, etc., giving a full rounded edge.

No. 22—Iron, 6 1/16x3⅝ in., radius 1 in., depth 1½ in., w't per doz. 22 lbs., per dozen $16.70

SIXTH DOZEN IN A CASE

SIDEWALK EDGERS

Nos.	01	02
Size, in.	6x2¾	6x2¼
Radius, in.	⅜	¾
Depth, in.	⅝	⅞
W't per doz., lbs.	16	17
Per dozen	$7.60	8.70

SIXTH DOZEN IN A CASE

Edgers are used for finishing and slightly rounding the edges of cement walks, to prevent slipping.

No. 01N—Iron, 8x1¾ in., radius ⅜ in., depth ⅝ in., w't per doz. 13½ lbs., per dozen $8.70

SIXTH DOZEN IN A CASE

SQUARE EDGERS

For finishing steps and all right angled corners.

No. 21—Iron, 6x3 in., radius 1/16 in., depth 1 in., w't per doz. 17 lbs., per dozen $12.00

SIXTH DOZEN IN A CASE

BRICK TROWELS

WIDE HEEL, forged from high grade trowel steel, tempered, ground and polished; leather wound handle.

Nos.	3010	3010½
Blade, in.	10	10½
Width at heel, in.	5⅛	6
W't per doz., lbs.	14½	15
Per dozen	$30.00	30 00
Nos.	**3011**	**3011½**
Blade, in.	11	11½
Width at heel, in.	6	6½
W't per doz., lbs.	15½	16½
Per dozen	$30.00	30.00

HALF DOZEN IN A BOX

POINTING TROWELS

PHILADELPHIA PATTERN, forged from high grade trowel steel, tempered, ground and polished; leather wound handle.

Nos.	3110	3111
Blade, in.	10	11
Width at heel, in.	5	5½
W't per doz., lbs.	11½	12
Per dozen	$28 00	28.00
Nos.	**3111½**	**3112**
Blade, in.	11½	12
Width at heel, in.	5⅞	6
Per dozen	$28.00	28.00

HALF DOZEN IN A BOX

CHICAGO PATTERN forged from high grade trowel steel, tempered, ground and polished; leather wound handle.

Nos.	3210	3210½
Blade, in.	10	10½
Width at heel, in.	6	6½
W't per doz., lbs.	14	14½
Per dozen	$30.00	30.00
Nos.	**3211**	**3211½**
Blade, in.	11	11½
Width at heel, in.	6⅛	6⅛
W't per doz., lbs.	15	15½
Per dozen	$30.00	30.00

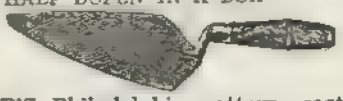
HALF DOZEN IN A BOX

BRICK TROWELS

PHILADELPHIA PATTERN, forged from high grade steel, tempered, ground and polished; hardwood handle.

Nos.	2910	2910½
Blade, in.	10	10½
Width at heel, in.	5	5½
W't per doz., lbs.	11½	12
Per dozen	$24 00	24.00
Nos.	**2911**	**2911½**
Blade, in.	11	11½
Width at heel, in.	5½	5⅝
W't per doz., lbs.	12½	13
Per dozen	$24 00	24.00

HALF DOZEN IN A BOX



ROSE'S Philadelphia pattern, cast steel blade, solid shank, steel ferrule, maple handle.

Nos.	3410	3410½	3411
Blade, in.	10	10½	11
Width at heel, in.	4⅝	5½	5½
W't, doz., lbs.	12	13	13½
Per dozen	$33.00	34 00	35 00
Nos.	**3411½**	**3412**	**3413**
Blade, in.	11½	12	13
Width at heel, in.	5½	5⅝	6
W't, doz., lbs.	14	15	16½
Per dozen	$36.00	37.00	39.00

HALF DOZEN IN A BOX

Rose's wide heel pattern, cast steel blade, solid shank, steel ferrule, maple handle.

Nos.	3510½	3511	3511½
Blade, in.	10½	11	11½
Width at heel, in.	6	6½	6½
W't, doz., lbs.	13½	14	15
Per dozen	$35.20	36.20	37.20

HALF DOZEN IN A BOX

No. 3610—Farmers,' 10 in. width at heel 4⅛ in. polished cast steel blade, riveted shank, beech-wood handle, w't per doz. 8 lbs. ....per dozen $8.30

ONE DOZEN IN A BOX

DISSTON'S cast steel polished blade, steel ferrule, gum-wood handle.

Nos.	5010	5011
Blade, in.	10	11
Width at heel, in.	4½	4⅝
W't per doz., lbs.	11	12
Per dozen	$27.40	30.20
Nos.	**5011½**	**5012**
Blade, in.	11½	12
Width at heel, in.	5	5
W't per doz., lbs.	12½	13½
Per dozen	$31.00	32.00

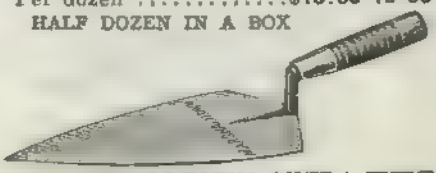
HALF DOZEN IN A BOX

BRICK TROWELS

CRUSO, Philadelphia pattern, forged from special steel, tempered, ground and polished; hard wood handle.

Nos.	379	3710	3711
Blade, in.	9	10	11
Width at heel, in.	4⅜	4⅜	5
W't per doz., lbs.	8	10	10½
Per dozen	$16.00	16.00	16.00
Nos.		**3711½**	**3712**
Blade, in.		11½	12
Width at heel, in.		5½	5½
W't per doz., lbs.		11½	12
Per dozen		$16.00	16 00

HALF DOZEN IN A BOX



MARSHALLTOWN EXTRA WIDE HEEL; forged from highest grade trowel steel, carefully tempered, taper ground and full polished; hand smithed; leather wound handle, with polished ferrule.

Nos.	1710	1710½	1711	1711½
Length, in.	10	10½	11	11½
Width, in.	6	6⅛	6⅜	6½
W't doz., lbs.	14	14½	15	15½
Per dozen	$32.00	32 00	32.00	32.00

HALF DOZEN IN A BOX

POINTING TROWELS

Forged from high grade steel, tempered, ground and polished; hard wood handle.

Nos.	424½	425	425½	426
Blade, in.	4⅛	5	5⅛	6
Width at heel, in.	2⅛	2⅝	2⅛	2 3/16
W't per doz., lbs.	2½	2⅝	3⅛	3⅜
Per dozen	$10.00	10.00	10.00	10.00

CRUSO, cast steel, polished, solid shank, steel ferrule, beech handle.

Nos.	434	434½	435	436
Blade, in.	4	4½	5	6
Width heel, in.	2 1/16	2 3/16	2 5/16	2 1/16
W't doz., lbs.	2½	2½	3⅜	3
Per dozen	$8 00	8.00	8.00	8.00

HALF DOZEN IN A BOX

Forged from special steel, tempered, ground and polished, hardwood handle.

No. 215½—Blade 5½ in., width at heel 2⅛ in., w't per doz. 8½ lbs. per dozen $1.80

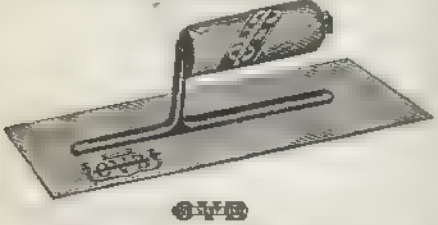
ONE DOZEN IN A BOX

PLASTERING TROWLES

MARSHALLTOWN PATTERN, full polished crucible spring steel blade, carefully ground and tempered, straight edges; long full polished mounting, mahogany finished handle.

Nos.	1211	1211½	1212
Sizes, in.	4½×11	4½×11½	4½×12
No. of rivets	10	10	10
W't, doz., lbs.	12½	13	14½
Per dozen	$42.00	42.00	42.00
Nos.	12511½		12512
Sizes, in.	5×11½		5×12
No. of rivets	10		10
W't per doz., lbs.	14½		15
Per dozen	$42.00		42.00
Nos.	12514		12516
Sizes, in.	5×14		6×16
No. of rivets	12		14
W't per doz., lbs.	14½		15
Per dozen	$42.00		42.00

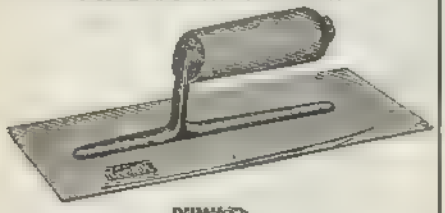
6x16 IN., QUARTER DOZEN; BALANCE, THIRD DOZEN IN A BOX



CINCINNATI PATTERN, full polished blade and mounting, stained handle, five rivets.

Nos.	1510½	1511
Length, in.	10½×4½	11×4½
No. of rivets	5	5
W't per doz., lbs.	13	13
Per dozen	$28 50	28.50
Nos.	1511½	1512
Length, in.	11½×4½	12×4½
No. of rivets	5	5
W't per doz., lbs.	13½	14½
Per dozen	$28.50	28.50

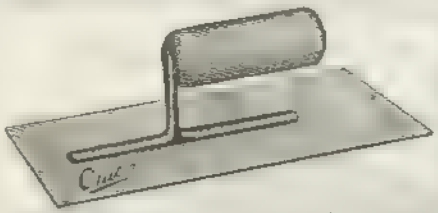
THIRD DOZEN IN A BOX



CINCINNATI PATTERN, polished blade and mounting, plain handle; five rivets.

Nos.	2810½	2811	2811½	2812
Lgth., in.	10½×4½	11×4½	11½×4½	12×4½
No. rivets	5	5	5	5
W't dz., lbs.	13	13	13½	14½
Per dozen	$24.80	24.80	24.80	24.80

HALF DOZEN IN A BOX



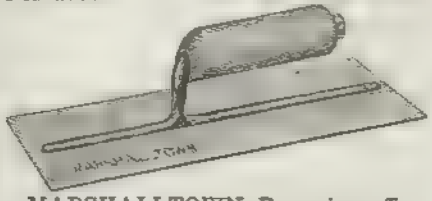
CRUSO, polished blade and mounting, plain handle; four rivets.

Nos.	1910	1911	1911½	1912
Inches	10×4½	11×4½	11½×4½	12×4½
W't doz., lbs.	11	12	13	14
Per dozen	$16.50	16.50	16.50	16.50

HALF DOZEN IN A BOX

MARSHALLTOWN finishing, finest crucible spring steel blades carefully tempered, ground and full polished, light stiff mountings, full polished and fastened with ten steel rivets; smooth turned natural finish handles.

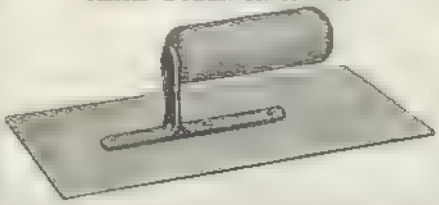
Nos.	411½	4011	4011½
Sizes, in.	4½×11½	4½×11	4½×11½
W't, doz., lbs.	13	13½	14
Per dozen	$45.00	45 00	45.00
Nos.	4012	4511½	4512
Sizes, in.	4½×12	5×11½	5×12
W't, doz., lbs.	14½	14½	15
Per dozen	$45.00	45 00	45.00



MARSHALLTOWN Browning, finest crucible spring steel blades, carefully tempered, ground and full polished; extra long mountings full polished and fastened with twelve steel rivets; smooth turned natural finish handles.

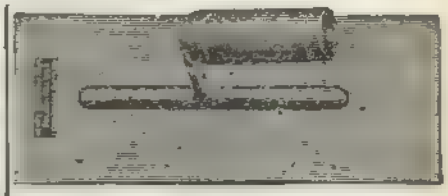
Nos.	5011	5011½	5012
Sizes, in.	4½×11	4½×11½	4½×12
W't, doz., lbs.	14	14½	14½
Per dozen	$45.00	45 00	45 00
Nos.		5511½	5512
Sizes, in.		5×11½	5×12
W't per doz., lbs.		15	15½
Per dozen		$45 00	45.00

THIRD DOZEN IN A BOX



No. 1610—Farmers, 10×4½ in., polished steel blade, three rivets in shank, w't per doz. 10 lbs.,
Per dozen $5.50

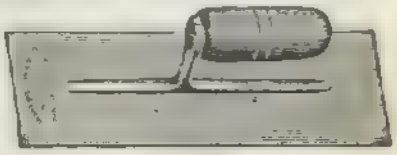
ALL ABOVE HALF DOZEN IN A BOX



DISSTON'S, "Sure Grip," cast steel polished blade, high mounted, drive shank, basswood handle, rubber grip.

Nos.	310½	311	311½	312
Inches	10½×4½	11×4½	11½×4½	12×5
W't doz., lbs.	14	14½	15½	16½
Per dozen	$33.40	35.40	36.90	38.40

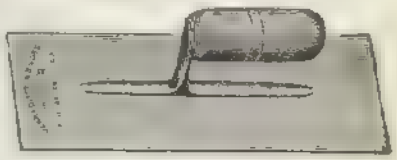
HALF DOZEN IN A BOX



DISSTON'S, extra cast steel, polished blade, improved screw shank, with shoulder, bass wood handle.

Nos.	110	111
Inches	10×4½	11×4½
W't per doz., lbs.	12	12½
Per dozen	$34.90	36.90
Nos.	111½	112
Inches	11½×4½	12×5
W't per doz., lbs.	14½	15
Per dozen	$38.05	39.90

HALF DOZEN IN A BOX



DISSTON'S, extra cast steel blade, drive shank.

Nos.	210	211	211½	212
Inches	10-4½	11×4½	11½×4½	12×5
W't doz., lbs.	11½	12	13	14
Per dozen	$28.60	30.60	32.10	33 60

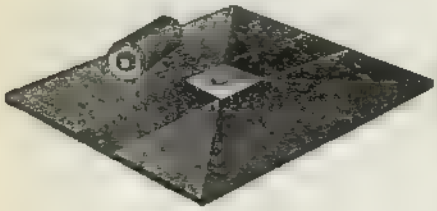
WOODROUGH & McPARLIN'S Cincinnati, cast steel, polished, high mounted, drive shank, poplar handle.

Nos.	1810½	1811
Inches	10½×4½	11×4½
W't per doz., lbs.	12½	13
Per dozen	$30.40	32.40
Nos.	1811½	1812
Inches	11½×4½	12×5
W't per doz., lbs.	13½	14
Per dozen	$33 90	35.40

HALF DOZEN IN A BOX

MISCELLANEOUS PLASTERING TOOLS

PLASTERER'S HAWKS



Wood.

Made of one piece clear seasoned redwood, fitted with dovetailed cross brace to prevent warping; brass flange fastened under cross brace and tapped for handle which is detachable.

No. 11—Marshalltown, 13½x13½ in., w't per doz. 25 lbs., per dozen $21.00

THIRD DOZEN IN A BOX

Marshalltown Aluminum.

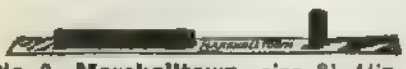
Made from hard rolled aluminum, 12 gauge with smooth straight edges; aluminum flange with brass nut tapped for handle which is detachable.

Equipped with rubber cushions the purpose of this is to protect the operator from callouses.

Nos.	21	22	23
Sizes in.	13x13	13½x13½	14x14
W't, doz., lbs.	20	22	24
Per dozen	$52.80	54.40	56.00

QUARTER DOZEN IN A BOX

DARBIES



No 2—Marshalltown, size 3½x44in., made from 8 gauge aluminum; equipped with one handle and 18 in. rib, w't per doz. 30 lbs., per dozen $57.60

HALF DOZEN IN A CASE

No. 4—Size 3½x44 in., made from clear redwood; equipped with one handle and 18 in. rib, w't per doz. 13 lbs., per dozen $12.00

HALF DOZEN IN A CASE

PLASTERER'S FLOATING CORKS

Made from one thickness of cork, carefully smoothed on both sides.

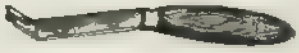
Nos.	5	6
Size, in.	12x5x1½	12x6x1½
W't per doz., lbs.	6	7
Per dozen	$15.00	16.00

LOOSE

No. 7—Size 5x12 in., made from one thickness of cork, carefully smoothed and cemented on wood block with handle, w't per doz. 18 lbs., per dozen $19.60

ONE IN A BOX, ONE DOZEN IN A CASE

IMITATION TILE AND BRICK MARKERS



The groove on this marker is gauged to the proper depth, cuts both ways so as to cut into corners.

No. 1—Spring steel, polished; hardwood handle ..... per dozen $8.30

1½ LB. A DOZEN

HALF DOZEN IN A BOX

CORNER TROWELS

No. 70 —6 in., made of special steel, full polished; 88 degree angle, with sharp corner; bronzed mountings and cherry finished handle, w't per doz. 10½ lbs... per dozen $18 50

HALF DOZEN IN A BOX

TOOL BAGS

For masons or plasterers, steel frame, with lock and key, leather handles, billets and buckle pieces riveted to frame, large inside pocket.

24 oz. duck sewed on lock stitch machine.

Nos.	1918	1920
Inches	18	20
W't per doz., lbs.	31	36
Per dozen	$76.80	80.00

ONE DOZEN IN A PACKAGE

Nos.	1922	1924
Inches	22	24
W't per doz., lbs.	42	44
Per dozen	$83.30	88.80

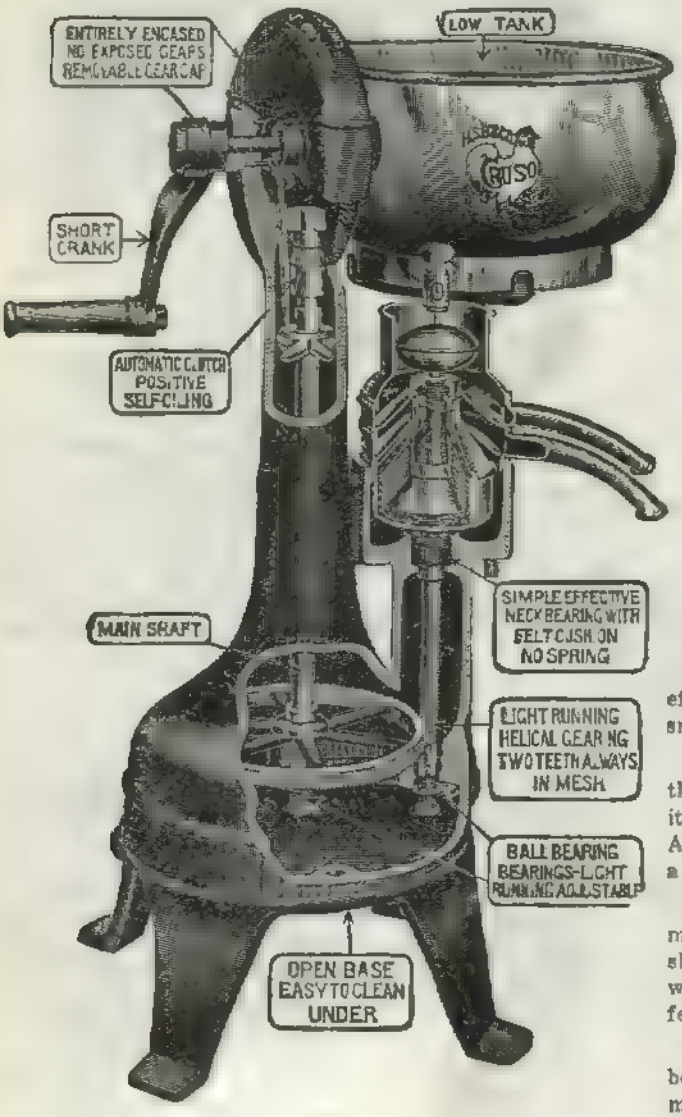
ONE DOZEN IN A PACKAGE

Leather bottom, with leather extending 3 in. up the sides.

Nos.	2316	2320
Inches	16	20
W't per doz., lbs.	33	42
Per dozen	$110.40	134.40

ONE DOZEN IN A PACKAGE

CRUSO CENTRIFUGAL CREAM SEPARATORS



Cutaway Illustration Showing Internal Mechanism.

H.S.B.&CO. CRUSO

MR. DEALER—

This is Your Proposition to Your Customers

ORDER AT HOME

SAVE FREIGHT, TIME AND MONEY

Call at our store for a practical demonstration of this efficient machine. See for yourself what a finely made, smooth-working separator the Cruso is.

Turn the crank—you will be surprised at the lightness of the action. Let us explain to you why the Cruso is noted for its thoroughness—why it is the easiest separator to clean. And let us show you what a high grade separator you get at a rock-bottom price.

The Cruso is easy running and easily cleaned. A Babcock milk test will convince you that the Cruso is the cleanest skimmer you ever saw. Gets all the butter fat with less work. You can take down a Cruso bowl in a jiffy—a big feature in the daily cleaning.

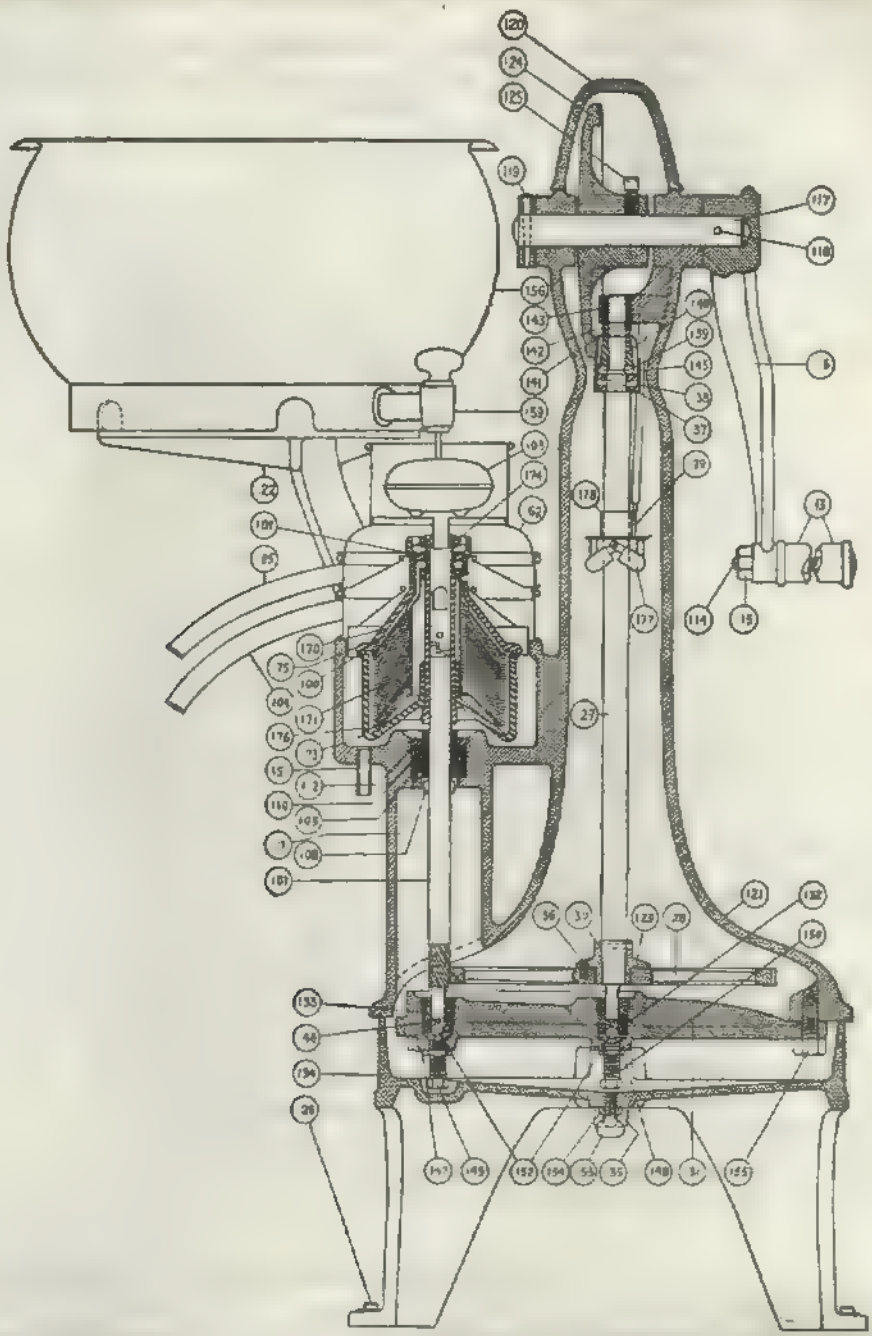
The Cruso has a speedometer, sanitary disked bowl, ball-bearing lower bearings, and sanitary base. The short crank makes easy work. Cruso saving in butter fat is money for you.

EVERY CRUSO IS GUARANTEED

Hibbard, Spencer, Bartlett & Company, the big Chicago wholesale house, are back of us in making an ironclad guarantee on the Cruso. When you buy a Cruso your investment is protected while paying handsome dividends in the form of butter-fat saving. Come in and let us show you the Cruso.

	To Retail F. O. B. Chicago. Each.
No. T375—Cruso, 360 to 375 lbs. (approx. 200 qts.) cap. per hr., without speed indicator, shipping w't each 165 lbs.	$60 00
No. T550—Cruso, 500 to 550 lbs. (approx. 300 qts.) cap. per hr., with speed indicator, shipping w't each 180 lbs...	70 00
No. T675—Cruso, 650 to 700 lbs. (approx. 350 qts.) cap. per hr., with speed indicator, shipping w't each 185 lbs...	85 00
No. T825—Cruso, 800 to 825 lbs. (approx. 420 qts.) cap. per hr., with speed indicator, shipping w't each 200 lbs...	100.00

Boxed complete in substantial shipping cases. For Details See Book of Instruction with Each Separator.



MASTER CLUTCH PULLEYS FOR CRUSO SEPARATORS

Operate by tightening the hand wheel to start and loosening same to stop. Only four parts to the outfit. Can be driven by flat or round belt. In order to arrive at size of connecting pulley for Cruso Separator multiply the diameter of the pulley 14 in. by the speed 60 turns per minute. Divide the product by the speed of the line shaft and the answer is the diameter of the connecting pulley.

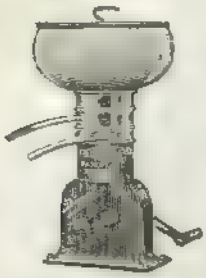
Diameter of wheel 14 in., width of face 2¼ in., w't each 15 lbs,

No. 37—Plain face for flat belt ..... each **$10.00**
No. 55—Flat and round belt ..... each **$10.50**

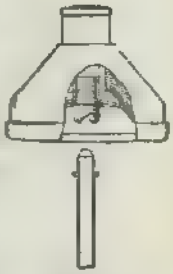
LOOSE

IMPROVED DOMO CREAM SEPARATORS

AN UNEXCELLED SKIMMER, PERFECTLY CLEANABLE, POPULAR PRICED



Nos. TAX and TBX.



No. 2.

The small "AX" and "BX" sizes, 10x13 in. base and 16 in. tall—for Domestic use only—not more than two cows, have an open solid one-piece bowl convenient to operate and as readily cleaned as a milk bottle. These "AX" and "BX" sizes will get more cream than is possible by setting the milk, skimming a single cow's milk, 8 to 12 quarts in 10 to 15 minutes. The "AX" and "BX" sizes are usually sold without stand, but the solid stand for No 10 also mounts the "AX" and "BX".

The Nos. 10, 11, 12 and 12C are equipped with the most efficient disced bowl, described below. They may be mounted on a table or bench to operate successfully, but must stand solid to skim perfectly and not wiggle or vibrate in operation. Any vibration hinders skimming the same as does shaking or stirring milk on which cream is rising.

Nos. T10, T11 and T12. Without Stand.

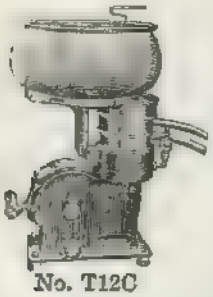
DOMO'S loose, overhung self-balancing, small, all pressed steel bowl, with gears running in a constant oil bath and with bronze brushed bearings insures the smoothest, easiest running.

DOMO'S bowl is most simple and compact as made of fewest parts possible to cleanest skimming, is quickly and completely taken apart to clean as perfectly as a china plate and as readily re-assembled, features of the utmost importance in its daily use.

DOMO'S unexcelled skimming which is of first importance, combined with its superior construction, accounts for its most satisfactory service and the success it enjoys.

DOMO'S bowl discs are mixable, but best skimming results from keeping the discs in the same order after it is put into service. It will also skim cool milk, which however, is discouraged as a wasteful practice.

Kept in condition and handled according to DIRECTIONS, DOMO pays for itself in a short time in the extra cream it takes out of the milk, skimming so perfectly that less than 2-100ths of 1% of fat remains in the skimmed milk, an amount imperceptible except by Babcock test.



No. T12C

DOMO is most handy in consequence of its compactness and simplicity, yet it has the capacity of larger, heavier separators, and excepting the small "AX" and "BX" sizes, has oil bathed gears as illustrated Fig 1, and with its small, light, highly efficient, loose overhung self-balancing bowl—Fig. 2—and bronze bushed bearings is easiest running.

No. TAX—Domo—Capacity 90 lbs. or 9 gals. per hour, w't boxed 35 lbs., without stand, each $27.50

No. TBX—Domo—Capacity 120 lbs. or 12 gals. per hour, w't boxed 40 lbs., without stand, each $30.00

No. T10—Domo—Capacity 180 lbs. or 18 gals. per hour, w't boxed 50 lbs., without stand, each $42.00

No. T11—Domo—Capacity 220 lbs. or 22 gals. per hour, w't boxed 55 lbs., without stand, each $46.00

No. T12—Domo—Capacity 300 lbs. or 30 gals. per hour, w't boxed 70 lbs., without stand, each $50.00

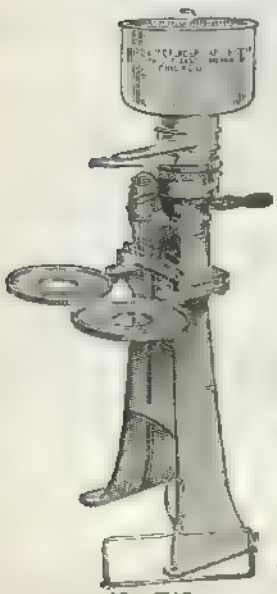
No. T12C—Domo—Capacity 340 lbs. or 34 gals. per hour, w't boxed 80 lbs., without stand, with tank bracket ..... each $60.00

EXTRA STANDS

No. T1—For Nos. AX, BX, 10 and 11 Domos, w't each 45 lbs., loose, extra ..... each $7.50

No. T2—For Nos. 12 and 12C Domos, w't each 50 lbs., loose, extra ..... each $7.50

For list of separate parts and details of operation, see DOMO DIRECTIONS with every separator.



No. T12, With Stand.

ASK FOR DOMO PRINTED MATTER FOR DISTRIBUTION

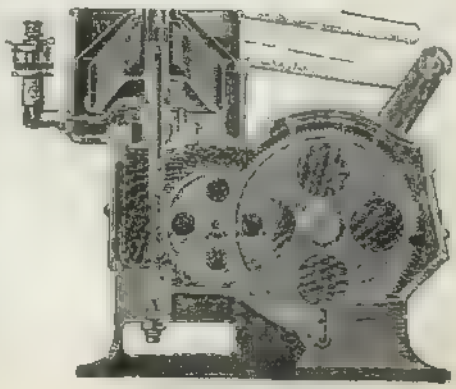
For Domo Repairs see Page 934B.

IMPORTANT

Every DOMO, when carefully set up so it runs smooth will skim perfectly if operated according to DIRECTIONS, kept in nice running condition and the bowl kept bright and sweet.

See description of DOMO'S details in DIRECTIONS packed with every separator.

Always URGE the purchase of a separator somewhat larger than is needed, as a larger size skims small lots of milk equally clean or when required, the milk of more cows, or the increased quantity of milk when cows are fresh.



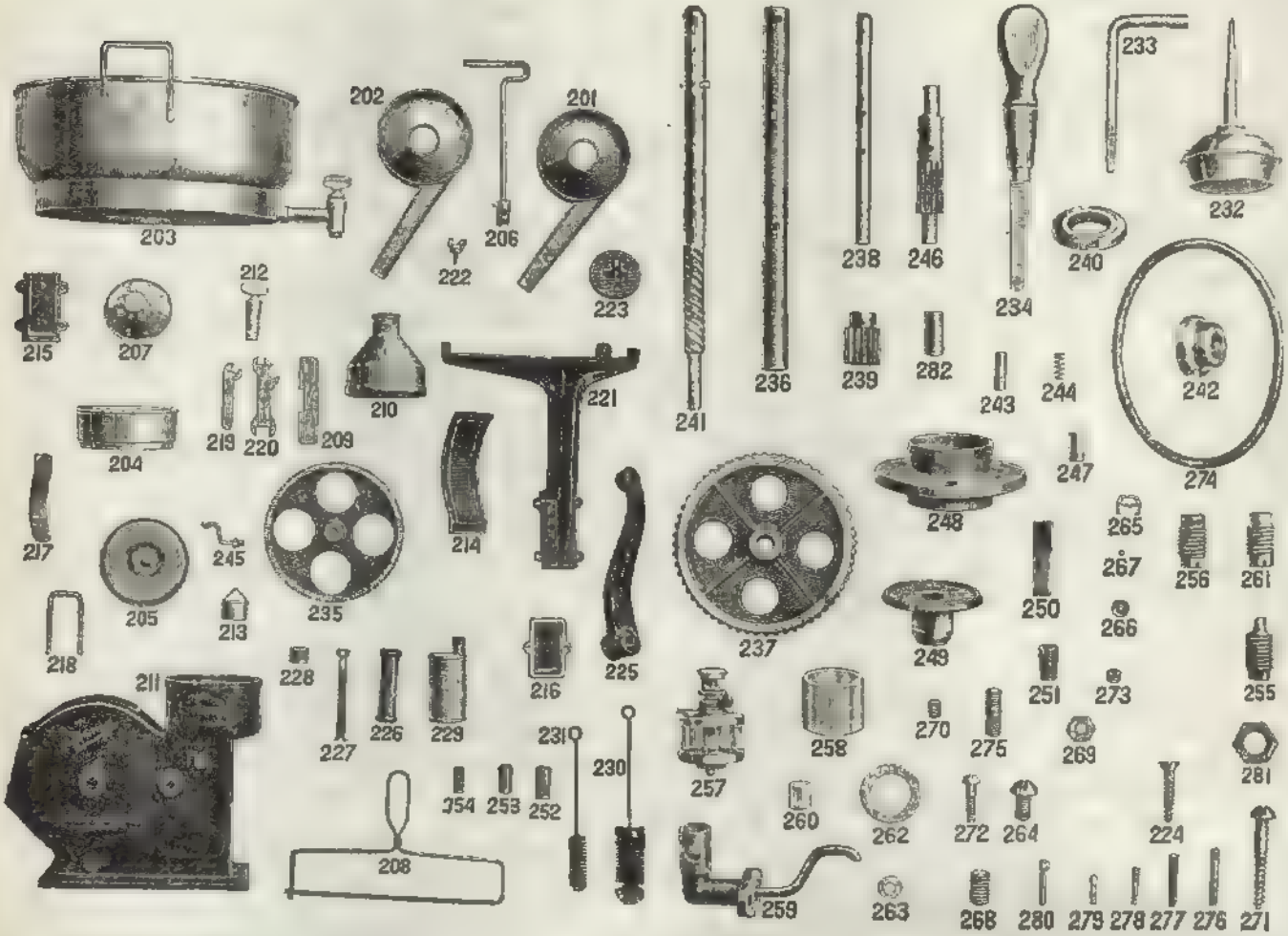
No. 1.

ILLUSTRATIONS OF REPAIRS FOR DOMO SEPARATORS

Nos. 11, 12, 13, 23, 24, 25 and AX

In ordering always specify the number and name of the part and the size of the separtor.

Thus: 1 — No. 274 Ring for No. 12 DOMO



FOR LOW MODEL EXCLUSIVELY

REPAIRS FOR CRUSO SEPARATORS

Always state the name and number of the parts wanted, as well as the capacity and serial number of your separator.

No.	Name of Part	List Price	Shipping Weight lbs.	oz.
143	Thrust Bearing	$0.30	0	2
144	Gear Cap Pin	.15	0	2
145	Ratchet Hub Shell	.20	0	2
146	Toe Bearing Pin	.15	0	2
147	Lock Nut Spindle Bearing	.10	0	4
148	Lock Nut Main Shaft Bearing	.10	0	4
149	Adjusting Screw for Spindle	.30	0	3
150	Adjusting Screw for Main Shaft.	.30	0	3
151	Bowl Casing Drip Tube	.10	0	2
152	Ball, Main Shaft Bearing	.10	0	1
152	Ball, Spindle Bearing	.10	0	1
153	Thumb Screw	.10	0	1
154	Thumb Screw Gasket	.10	0	1
155	Spider Bolts, 3, each	.25	0	4
156	Milk Tank, without Faucet	6.50	9	0
157	Milk Tank, Complete with Faucet, 375, 550, 675	8.70	9	8
158	Milk Tank with Faucet, 825	9.00	9	8
159	Faucet for 375, 550 and 675	1.75	0	8
160	Faucet for 825-lb. capacity	2.00	0	8
161	Disc Cleaner	1.25	1	4
162	Float Cup	2.50	1	8
163	Bowl Wrench	.35	0	6
164	Screw Driver	.20	0	3
165	Wire Handle Spout Brush	10	0	6
166	Wood Handle Bowl Brush	.40	0	6
167	Separator Oil	...	0	0
168	Oil Can	.30	0	6
169	Power Pulley Complete	10.00	19	0
170	Bowl Top	4.00	1	8
171	Skimming Discs, Plain	.40	0	6
172	Skimming Discs, Cleated	.50	0	6
173	Disc Holder	2.50	1	0
174	Bowl Nut	1.00	0	8
175	Cream Cone	2.50	0	12
176	Bowl Shell	10.00	4	0
177	Governor Weights and Pin	1.50	0	6
178	Speedometer Collar	45	0	2
179	Speedometer Lift Rod	.40	0	2
180	Speedometer Dial	.75	0	3
181	Speedometer Weight Lever	.40	0	2

No.	Name of Part	List Price	Shipping Weight lbs.	oz.
100	Rubber Ring	$0.20	0	1
101	Cream Screw, 375, 550, 675-lb. capacity	.20	0	1
102	Cream Screw, 825-lb. capacity	.20	0	1
103	Float	1.00	0	8
104	Milk Cover	2.50	1	8
105	Cream Cover, 375, 550, 675	2.50	1	8
106	Cream Cover, 825-lb.	2.50	1	8
107	Bowl Spindle	3.50	1	4
108	Bowl Spindle Collar	10	0	2
109	Neck Bearing	1.25	0	4
110	Neck Bearing Cushion	15	0	1
111	Neck Bearing Anchor Pin	.10	0	1
112	Pressure Screw for Neck Bearing	.25	0	2
113	Handle Wood	.20	0	4
114	Handle Bolt	.30	1	0
115	Handle Bolt Nut	.10	0	4
116	Crank	1.00	3	0
117	Crank Shaft	.75	2	0
118	Crank Pin	.10	0	2
119	Crank Shaft Collar Pin	.10	0	2
120	Gear Cap	1.00	3	0
121	Main Frame	15.00	60	0
122	Tank Bracket	1.50	6	8
123	Bracket Screws, 2, each	15	0	3
124	Bevel Gear	3.00	7	0
125	Bevel Gear Set Screw	.10	0	2
126	Leg Screws, 4, each	.10	0	3
127	Main Shaft, Hub and Pin	4.50	3	8
128	Helical Gear	3.50	4	8
129	Helical Gear Hub Pin	.15	0	2
130	Main Shaft Hub Pin	.10	0	2
131	Spider	2.00	5	0
132	Lower Main Shaft Bearing	.60	0	3
133	Lower Spindle Bearing	.60	0	3
134	Base	9.00	45	0
135	Base Bolts, 2, each	.15	0	6
136	Screw for Helical Gear, each	.10	0	2
137	Ratchet Hub	.35	0	6
138	Ratchet Hub Pin	.10	0	2
139	Ratchet Ball, 2, each	.10	0	1
140	Bevel Pinion	2.00	0	4
141	Retainer	.10	0	2
142	Retainer Pin	.10	0	2

Cut Glass

Bowls

N20063—BOWL—2-footed 7½ inches in diameter, 4¾ inches deep. Cut with three flowers around and one flower in bottom, three panels of stars and silver diamond. This is a semi-cut pattern, the leaves being pressed ..... Each

N20043—ROUND 8-INCH BOWL—Diameter, 8¼ inches; height, 3½ inches, with 1-inch band of deep chair bottom at the top, two mat finish flowers and four mat finish buds, 2¼-inch chair bottom..... Each 7.50

N20005—BOWL—8 nut-sa Scalloped top 1½in chair bottom and hob star cutting ..... Each 9.60

N20066—BOWL—9 inches in diameter, 4½ inches deep. Gothic pattern. Border of three panels of three flowers each with bright diamond centers interwining with ferns. Bottom has three panels of one flower and fern each, and one flower and three ferns in bottom. Scalloped and notched edge... Each 12 50

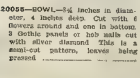
N20064—BOWL—8¼ inches in diameter, 4 inches deep. Cut with six flowers around with bright diamond center, 6 panels of two rows of chair bottom, 1 band of two rows of chair bottom and large flower and foliage in bottom. Arched and notched scallop..... Each 3 00

N20007—BOWL—8 inches Sca lop top. Deep miter cuts with rich strawberry flo ing... Each 6.40

N20009—BOWL—8 inches Scalloped top. Mat bottom bowl. Entirely covered with deep hob stars, bottom richly finished ..... Each 11.20

Oval Bowls

N20057 OVAL BOWL—9½ inches long, 7 inches wide and 3¾ inches deep. Cut with four mat daisies with bright centers and 4 polished ferns. Band of three rows of chair bottom arched scallop... Each 7.00



N20038—BOWL—8 inches in diameter. Engraved with roses and wide gray bands..... Each 4 20

ICE CREAM TRAY

N20061—ICE CREAM TRAY—14 inches long, 7½ inches wide, 2 inches deep at ends. Cut with 4 mat daisies with bright centers, 4 panels of chair bottom, arched and notched scallop... Each 9.60

N20058—OVAL BOWL 10½ inches long, 6¾ inches wide and 3¼ inches high. Cut with 4 mat daisies with bright centers, polished foliage, 4 medallions of hob nail. Border of 4 rows of chair bottom, arched scallop ..... Each 7 50

CELERY TRAYS

N20059—CELERY TRAY—12 inches long, 4¼ inches wide, 1¾ inches deep. Cut with two mat roses with bright centers sides cut with 2 rows of chair bottom. Arched scallop ..... Each 4.80

N20051—CELERY TRAY - Length, 11¼ inches, width, 4¼ inches, gravetched floral cutting, bright foliage ½-inch band of star bottom on sides, scalloped edge..... Each 7.00

N20060—CELERY TRAY—12 inches long, 4¼ inches wide, 2¼ inches deep. Cut with 3 flowers with bright and mat petals, feathered edge, bright centers, polished foliage; band of Russian, arched scallop ..... Each 8.00

N20018—CELERY DISH—Length, 11¼ inches, width, 4¼ inches. Entirely covered with deep hob stars; bottom robb finished ..... Each 8.40

N20014—CELERY DISH Scalloped top. Length, 12 inches, width, 4½ inches. Four polished flowers with rich filling of hob stars and silver diamond ..... Each 6.80

N20015—CELERY DISH Length, 11¾ inches, width, 5 inches. Scalloped top. Floral decorations with rich filling of hob stars and silver diamond checkering ..... Each 7.20

N20080—CELERY TRAY—Length, 12 inches, height, 4¼ inches; depth, 1½ inches, scalloped edges 1-inch band of mitre work at top, bottom is well filled with flowers, leaves and small mat finish mitre work... Each 8.00

N20017—CELERY DISH—Length, 13 inches, width, 4¾ inches. Rich chair bottom and hob star cutting Each 3 80

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Cut Glass

Bon Bon Dishes

N20003—TWO-HANDLED BON BON —Hexagon shape, width 6½ inches, floral pattern with solid star bottom ..... Each 2.84

N20005—BON BON DISH—Length 7½ inches, width 5 inches. Rich chair bottom and hob star cutting. Each 3.00

N20004—SPOON TRAY—8½x4 inches. Rich chair bottom and hob star cutting ..... Each 3.00

N20006—BON BON DISH Length 8 inches, width 5 inches. Entirely covered with deep hob stars, bottom richly finished ..... Each 4.50

Nut Bowl

N20062—NUT BOWL—Length 6½ inches, width 5 inches, height 2⅜ inches 1-inch band of mitre cutting around sides with mat finish flowers with bright centers; mat finish leaves ..... Each 5.50

Sandwich Trays

N20079—HANDLED BOWL—9 inches in diameter, cut with 3 flowers and mat foliage ..... Each 2.50

MAYONNAISE BOWLS

N20063—MAYONNAISE SET—Consisting of bowl and plate, plate 6 inches in diameter, 1¼ inches deep, cut with 3 mat flowers, polished centers, 3 Gothic arches of chair bottom, 3 fans combination bright and mat notched and arched scallop with milled edge, bowl 4¾ inches in diameter, 2 inches high cut with 3 flowers with bright centers, one large flower in bottom, 3 Gothic arches of chair bottom, 3 fans combinat on bright and mat, notched and arched scallop with milled edge ..... Each 3.50

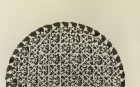
N20019—MAYONNAISE SET—Width of plate 6 inches, diameter of bowl 5 inches. Rich chair bottom and hob star fitting ..... Each 6.00

JELLY AND PICKLE DISHES

N20092—HANDLED JELLY—Diameter 5 inches, cut with 3 Victory flowers, flatted and polished bottom with mat star, scalloped top with beaded edge ..... Each 2.50

N20091—ROUND NAPPY—6 inches. Scalloped edge. Rich chair bottom and hob star cutting ..... Each 3.60

N20090—NAPPY—6 inches. Scalloped edge. Pin wheel cutting with fan fitting ..... Each 2.84



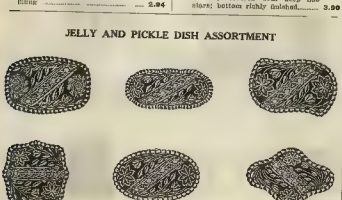
N20092—ROUND NAPPY—6 inches. Entirely covered with deep hob stars; bottom richly finished ..... Each 3.50

COMPOTES

N20064—COMPOTE—5 inches high, bowl 4½ inches in diameter, cut with 3 flowers with bright centers and mat petals, 3 panels of chair bottom, notched leaves, flute and scalloped stem to foot ..... Each 4.00

N20018—COMPOTE Cut and fluted stem, scalloped top Height 5 inches width of bowl 7 inches hob star fitting ..... Each 11.20

JELLY AND PICKLE DISH ASSORTMENT



N20062—ASSORTMENT—Consisting of six pieces Bon Bons, Jellies, Spoons Pickles and Honey Trays. Cut with fancy flower, gray petals relieved by bright cutting diamond star center with band of mitre cutting ..... Per box of 6 pieces We do not break boxes 18.00

N20065—TALL COMPOTE—10½ inches high, bowl 7 inches in diameter, Hobs star body with band of rich hob stars and 4 mitre bands, notched and scalloped. Fluted stem notched and beaded. Foot cut with hobs star and scalloped ..... Each 10.00

N20066—TALL COMPOTE—11 inches high, bowl 8 inches in diameter, cut with 3 flowers with mat petals and bright centers, 3 panels of chair bottom, arched and notched scallop, fluted stem notched and beaded, star bottom ..... Each 12.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Cut Glass

Candy Jar

N20037—BON BON JAR—Capacity about one pound. Diameter 4½ inches, height 10 inches. Gray etched floral design, band on jar and cover. Band design on base.... Each 4.20

Clock

N20045—CLOCK. American one day movement, cut glass base, bevel, 7½ inches, base is 2¾x3 inches ..... Each 12.00

Ice Tub

N20067—ICE TUB—4½ inches high to top of handle, 6 inches in diameter. Cut with 4 flowers, mat cores, bright centers two panels of two cut octagon, 6 mat and bright stars, 4 mat fans. Top with mitred and notched scallop, bottom cut with one flower and foliage..... Each 8.00

Cologne Bottles

N20076 N20075

N20077—COLOGNE—Ice-lipped, one stopper height, 3½ inches, diameter 2¾ inches, grey etched floral and foliage ..... Each 4.50

N20075—COLOGNE—4¼ inches high to top of stopper, diameter 2 inches. Cut with 3 flowers, mat petals divided by bright cuttings, foliage, polished star bottom, lapidary stopper, polished mouth ..... Each 3.20

N 20078—CYLINDER COLOGNE—8½ inches high to top of stopper, diameter 4 inches. Cut with rich band of flower and bright leaves, feathered edge, bright diamond center, polished collar, star bottom, lapidary stopper polished mouth ..... Each 6.00

Water Sets

N20020—WATER SET—Jug and six Tumblers, thin glass, large flower decoration with rich leaf filling ..... Per set 4.20

Beverage Set

N20036—RAINBOW BEVERAGE SET—25 pieces of crystal and optic glassware of delicate workmanship in orange and black. Consists of a 50-ounce crystal jug, with orange and black cover and black stand. Six narrow optic handled tumblers, with canary stripes, crystal lemon reamer and cup. Crystal lemon dish with mixer and fork to match ..... Per set 12.00

Water Pitchers and Glasses

N20041 WATER PITCHER—Capacity about 4 pints, height 8½ inches, diameter at top about 4¼ inches, handsome design of gray etched flowers and foliage, cut bottom filling, notched edge, 3 spout lip cut handle and star cut bottom ..... Each 15.00

N20042—TUMBLER—Cut to match N20041, height 4 inches, diameter about 3 inches, capacity about ½ pint ..... Per doz. 3.30

Water Set

N20022—WATER SET—Consisting of 4-pint jug and 6 tumblers. Leaf cutting at top with wide rich band at the bottom, consisting of deep lobe and rich silver diamond checkering. Tumbler to match ..... Per set 20.80

Water Pitcher and Glasses

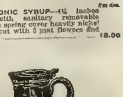
N20039 N20035

N20039—WATER PITCHER—Capacity about 4 pints, height 10¾ inches, diameter at top about 4¼ inches, gray etched flower and punched foliage and chain bottom cutting, mitred edge cut base dia. star cut bottom ..... Each 12.00

N20040—TUMBLER—Cut to match N20035, height about 4 inches, diameter 3 inches, capacity about ½ pint ..... Per doz. 2.00

Syrup Jar

N20080—CONIC SYRUP—4½ inches high, with sanitary removable cap with spring cover heavily nickel plated; cut with 3 mat flowers and foliage ..... Per doz. 18.00



N20081—CONIC SYRUP—5¼ inches high, with sanitary removable cap with spring cover heavily nickel plated, cut with 3 flowers, mat petals, bright punted center, mat foliage ..... Per doz. 19.20

Water Sets

N20021—WATER SET—Consisting of 4-pint jug and six tumblers. Cut No. 170, wheel cutting with rich fan filling. Tumbler to match ..... Per set 19.20

Our central location in the greatest railroad center of the United States enables us to make shipments to all parts of the country with the least delay. Our large stocks insure prompt filling of your orders.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Cut Glass

N20010—SUGAR AND CREAM—Sculloped top. Punched handles. Hob stars with rich filling. Per doz. 6.50

N20012—SUGAR AND CREAM—Beautifully cut and polished flower in center with rich silver diamond filling. Each 9.40

N20013—SUGAR AND CREAM—Sculloped top, punched handles. Hob chain bottom and hob star cutting. Each 9.60

N20008—SUGAR AND CREAM—4¾ inches high at top of spout, 3¾ inches in diameter, panelle pattern. Cut with 3 flowers, centers, ovals and bright diamond center, mat form, 6 panels of two cut octagons, large flower in bottom, scalloped and notched edge, cut handle.... Per pair ..... $ 3.00

N20011—SUGAR AND CREAM—Punched handles. Floral design with rich strawberry filling. Each 7.20

Vases

N20047-49 N20033 N20024 N20026

N20046—THIN BLOWN VASE—With crimped top, plain bottom, floral design in mat finish, height 6 inches Per doz. 16.00

N20047—Same as N20046, height 8¾ inches Each 2.00

N20048—Same as N20044, height 10 inches 2.90

N20049—Same as N20044, height 12 inches 4.00

N20023—BUD VASE—Beautifully engraved with floral decoration, height 10 inches..... 2.00

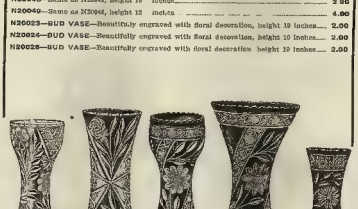
N20024—BUD VASE—Beautifully engraved with floral decoration, height 10 inches..... 2.00

N20025—BUD VASE—Beautifully engraved with floral decoration height 10 inches..... 2.00

N20044—SUGAR AND CREAM SET—Creamer is 4¾ inches w.de over handles, 3¾ inches high; sugar is 4¾ inches wide over handles, 3 inches high; consistative pattern of mat flowers and wide mitre band at top; bob star bottom. Per pair 12.00

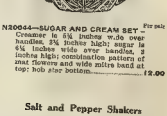
Candlesticks

N20039—CANDLESTICK—Height, 8 inches hexagon base, 5x4¾ in e hes; gray etched floral cutting 13.00 Per doz.



N20069-70 N20072 N20071 N20073 N20074

Salt and Pepper Shakers



N20082 N20084

N20069—CORSET VASE—5 inches high, cut with 2 flowers, mat petals and bright center, 4 panels, chain bottom cut, star bottom, notched and beaded top. Each 3.00

N20070—CORSET VASE—Same as N20069, 10 inches high. 6.50

N20072—CONIC VASE—10 inches high, diameter of top, 4¼ inches. Cut with two rows, two buds, polished foliage, 2 bands of 5 hob stars, star cut bottom, top arched, notched and sculloped 11.00

N20071—CORSET VASE—10 inches high, diameter of top, 4¼ inches. Cut with 2 flowers, mat and bright petals, bright center, 4 buds, polished foliage, 4 bands of chain bottom, sculloped top, star cut bottom 9.60

N20075—BELL TOP VASE—Height 10 inches, diameter of top, 4¼ inches. Cut with two flowers, mat petals, bright centers and foliage, chain bottom filling notched top, star cut bottom 10.00

N20073—BELL TOP 12-INCH VASE—Top 7 inches in diameter, bottom 6 inches. Cut with 2 flowers, mat petals and bright center, 4 buds, polished foliage, 2 curving bands of chain bottom, 2 bands of chain bottom notched and scalloped bottom, star cut bottom 12.40

N20074—CONIC VASE—Height 12 inches, diameter of top, 6 inches. Cut with two large flowers, bright diamond center, polished foliage, band of rich hob star at top and bottom, arched and sculloped top, star cut bottom 15.00

N20063—SALT AND PEPPER SET—Height, 3 inches, diameter of bottom, 1¾ inches, silver plated cap with pearl top, cross star cutting, notched sides. Per doz. sets ..... $ 1.80

N20084—SALT AND PEPPER SET—Height, 3 inches, diameter of bottom, 1¾ inches, silver plated cap with pearl top, cross star cutting, notched sides 30.00

Vase Assortment

N20027—BUD VASE ASSORTMENT—Beautifully engraved with floral decoration. Height 10 inches, ½ dozen in package, not broken..... Per doz. 18.00

Pearl Tops

N20085—SALT AND PEPPER SET—Pearl top; light floral cutting; ½ dozen in package, not broken..... Per doz. sets 12.00

N20086—SALT AND PEPPER SET—Pearl top; floral cutting; ½ dozen in box, not broken 18.00

N20086—SALT AND PEPPER SET—Height, 3 inches; octagon shape; floral cutting; silver plated cap with pearl top 16.00

N20087—SALT AND PEPPER SET—Pearl top; combination floral and mitre cutting; ½ dozen in box, not broken 18.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Decorated Glassware

GOLD ENCRUSTED GLASSWARE

N20032—BUD VASE ASSORTMENT OF 6 PIECES—Size 3½ inches. Three different shapes with 24-carat gold encrustation. Optic blanks ..... Per asst. of 6 pieces 16.00

N20034—COMPOSTE—Low footed. Can also be used as nasturtium bowl. 24-carat gold encrustation with rock crystal engraving..... Each 7.20

N20028—SWEET PEA VASE—24-carat gold encrustation with rich rock crystal engraving..... Each 8.60

N20033—COMPOTE 6 inch bowl height 8 inches. Beautiful 24-carat solid gold encrustation with rich rock crystal engraving..... Each 8.00

COLORED GLASSWARE—MOTHER OF PEARL

N20028—GOBLET—Narrow optic, lead blanks with Mother of Pearl colors radiating different shades. This color will not come off ..... Per doz. 12.00

N20029—CHAMPAGNE—Narrow optic, lead blanks with Mother of Pearl colors radiating different shades. This color will not come off ..... Per doz. 12.00

N20030—SHERBET—Narrow optic, lead blanks with Mother of Pearl colors radiating different shades. This color will not come off..... Per doz. 12.00

N20031—PARFAIT—Narrow optic, lead blanks with Mother of Pearl colors radiating different shades. This color will not come off..... Per doz. 12.00

DECORATED GLASSWARE

N20357 N20356

N20356—BEVERAGE JUG Optic glass. Floral effect floral design. 5 inches high, 4 inches in diameter. Each 3.50

N20357—TUMBLER—To match N20356. 4 inches high ..... Per doz. 9.00

N20355—FLARED BOWL—Clear optic glass. Multiple star bottom, floral design in colors, 3½ inches across top, 2¼ inches high..... Each 3.30

N20389—MAYONNAISE SET—Bowl and plate 4 inches in diameter, bowl 4½ inches, floral design in colors on flared optic glass blank ..... Per set 2.24

N20360—NUT BOWL WITH COVER 3 inches high, 3 colors on flared optic glass background ..... Each 3.00

N20361—CANDY JAR—Two handles and cover 6 inches high. Subtle floral design on background of flared optic glass..... Each 3.30

N20363—BON BON DISH—5½ inches two-handled optic glass, flared floral design in colors..... Per doz. 19.20

N20362—SUGAR AND CREAMER—Two-piece set. Floral design in colors on flared optic glass 5¾ inches high. Tinted by natural reflections ..... Per set 2.85

N20364—PLATE—8½ inches. Multiple star bottom. Flared optic glass, tinted by natural reflections. Floral design in colors..... Per doz. 19.20

This line of decorated glassware represents the latest in tableware and is sure to be a popular seller to the Holiday Trade.

COLORED GLASSWARE

N20350

N20350—COMPOTE, 8¾ inches. Flared glass, luminous orange color ..... Per doz. 16.00

N20351—COMPOTE—8¾ inches. Flared glass, delft blue, luminous 16.00

N20352

N20354-5

N20352—CANDLESTICK—8 inches high, 4-inch bottom. Twisted pillar design, rich orange color, luminous ..... Per doz. 14.40

N20353—CANDLESTICK 8 inches high, 4-inch bottom. Twisted pillar design, luminous delft blue..... 14.40

N20354—VASE—9¾ inches high. Hexagon design, luminous orange color 12.00

N20355—VASE—9¾ inches high. Hexagon design, luminous delft blue 12.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

HALLOWE'EN NOVELTIES

A number of carefully selected extra good values that sell fast in your store, with nice profits in return; just make a window display, that's all that will be necessary to get the business

DOMESTIC ILLUMINATED PUMPKIN HEADS

Nicely painted in bright yellow with transparent eyes, nose and mouth, made of extra good quality paper mache

T5588—Pumpkin head, wire handle and candle holder, leaf bottom; diameter 8 ins.; 8 inches high, circumference 9¾ ins.; 1 doz. in box. Dozen ..... .45

T5589—Same, diameter 4 ins.; 4 ins high, circumference 11 ins 1 doz in box Dozen .92

EXTRA LARGE HEADS

T5598—Same diameter 9½ ins 8 ins. high, circumference 29 ins. 1/2 doz. in box. Dozen.. ....4.00

IMPORTED ILLUMINATED PUMPKIN HEADS

Extra well shaped and made pumpkin color transparent eyes nose and mouth.

T5581— Pumpkin head wire bale, wood candle holder, diameter 3 ins., 2¾ in high, circumference 10¼ ins., 1 dozen in box Dozen..... .48

T5582—Same, diameter 4½ ins., 3½ ins. high, circumferences 14½ ins.; 1 dozen in box. Dozen..... .88

T5583—Same, diameter 5½ ins., 4½ ins. high, circumference 16½ ins.; 1 dozen in box. Dozen..1.15

T5584—Same, diameter 6 ins., 5¼ ins. high, circumference 19½ ins.; 1 dozen in box. Dozen 1.65

T5585—Same, diameter 8 ins., 6½ ins. high; circumference 23½ ins.; ½ dozen in box. Dozen..... 2.10

NOVELTY LANTERNS

T5596—Assorted 3 kinds, Owl, Black Cat and Devil; heavy papier mache, nicely colored; transparent eyes, nose and mouth, wire bale; wood candle holder; diameter 2½ ins., 2½ ins. high, circumference 8¼ ins 1 dozen in box Doz. .45

T5597 Same, larger diameter 3½ ins., 4 ins high, circumference 11½ ins.; 1 dozen in box. Doz. .86

T5686—Composition black cat head, painted nose, transparent eyes and mouth, circumference 7 ins.; 2 ins. high; 1 doz. in box. Dozen .. .44

T5687—Same, papier mache, larger, circumference 10½ ins., 4 ins. high; 1 dozen in box. Doz... .88

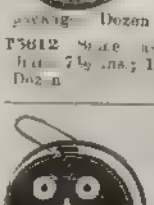
T5580 - Pumpkin color papier mache head, transparent eyes, nose and mouth, green base with nose, wire bale; circumference 11¼ ins., 1 dozen in box Dozen.....2.00

T5607 — Pumpkin head 3x3 in transparent eyes nose and mouth, paper candle holder mounted on 10 in. imitation figure paper covered tube, length over all 13 ins., 1 dozen in box. Dozen 1.85

T5605 - Bucket lantern papier mache pumpkin color head with protruding ears transparent eyes nose and mouth; with legs; circumference head 18 ins., length over all, 18 ins.; ½ dozen in box Dozen 2.25

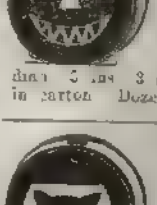
T5623 — Papier mache pumpkin color head, transparent eyes, nose and mouth with black hat, circumference of head 13 ins.; height 6 ins.; 1 dozen in box. Dozen 2.25

T5626 — Pumpkin color papier mache head; transparent eyes, mouth and nose green leaf base; cloth dress, arms and hands on round wood base; circumference of head 10¼ ins.; height 6 ins., 1 doz. in box Dozen 2.15

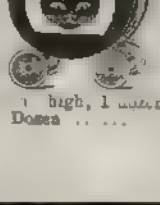


T5611 — Yellow crimped paper lantern, black stem, decorated, wire bale; tin candle holder, 10 ins.; 1 dozen in packing Dozen .45

T5612 Same as T5611 larger 7½ ins.; 1 dozen in package Dozen .75



T5628 — Round cardboard lantern, yellow and black; transparent eyes, nose pumpkin head and black cat front and back, wire bale; diam 5 ins 3 in wide, 1 dozen in carton Dozen.. 86



T5629 — Round cardboard lantern pulp, transparent front and back with 4 1¾-inch metal wheels; diam 6 in 3 in wide, 6½ high, 1 dozen in carton. Dozen 1.25

SPIDERS

T2554 Black tarantula spider, weird shaped and striped in yellow and red, long spiral wire legs and horns, length of body 1½ in., 1 gross in a box Gross 1.00

T2555—Same larger length 2¼ ins., 1 dozen in box Dozen. .12

WAG TAIL CATS

T2566 — Black cat, composition, nicely mounted on base, back in fighting position, painted features; spiral wag tail 2¼ ins high, 2½ ins. long, 1 in box Dozen 42

STICK PINS

T5561 — Black cat, composition cat head, painted mouth, tongue and eyes, with pin, size 1x1 in.; 1 dozen in pkge. Gross .1.0

T5569 Assorted, composition heads, green leaf back; ½ gross in box Gross 1.10

T5567—Assorted colored felt cats, with eyes, pins, cut out and stuffed, body shape, length 11 ins., 1 dozen assorted on card; 1 gross in box Gross..1.35 Doz. .15

WRIGGLING SNAKE

T5601 — Yellow snake, black spots; 25 in. high when open, each in envelope; 1 dozen in box Dozen 45

DANCING SKELETON

Jointed

T5602 Cut out jointed white and black heavy card board skeleton; length 25 inches; a very grotesque novelty, 1 doz. in box Doz. .82

SQUEAK NOVELTY

T5612—Assorted owls, cats, with bats, eyes, shapes, bones, crepe [illegible] 4 ins. high 2 dozen in box Dozen .82

PLACE CANDY HOLDERS

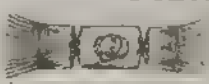
EASEL BACK

T5608 [illegible] ght 6 ins. [illegible] Dozen envelopes .30

FORTUNE PLACE CARDS

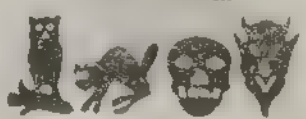
T5609—Cut out [illegible] 4½ ins. 4 in envelope Dozen envelopes .30

PARTY FAVORS

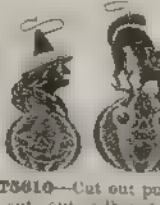


T5603 Tube containing [illegible] wrapper in assorted color bright embossed paper; tissue shredded ends; litho picture decorated; 1 doz. in box. Dozen .. .30

SILHOUETTES



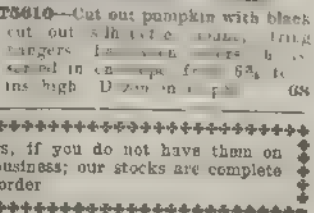
T5604—Cut out black card board figures; Witches, Skulls, Owls, Bats, Bats orange decorated 10 assorted in envelope, [illegible] ins high each, set in envelope. Dozen envelopes. .43



T5614—Large size silhouettes, cut out black card board [illegible] 8½ ins. high, others [illegible] 5 in envelope Doz envs .78

PUMPKIN SILHOUETTES

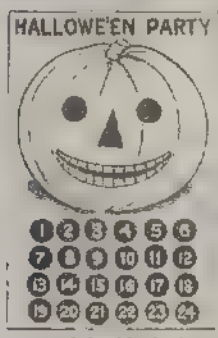
STRING HANGERS



T5610—Cut out pumpkin with black cut out silhouette [illegible] string hangers [illegible] assorted in [illegible] from 6¾ to [illegible] ins high Dozen [illegible] .68

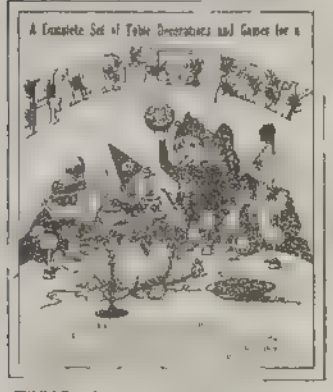
Hallowe'en novelties are good sellers, if you do not have them on display early you lose much of this business; our stocks are complete now and you will get just what you order

HALLOWE EN PARTY GAME



T5631 — Same to the popular Donkey Party game: 15x17 inch pumpkin head, with 24 numbers to cut out, called eyes; the game is to place the numbered eyes over pumpkin eye while blind folded [illegible] coming nearest, winning [illegible] with instructions 28x18 ins., put in envelope. Dozen 75

HALLOWEEN PARTY TABLE DECORATIONS



T5613—Assortment consisting of 8 folding invitations, 4 lamp shades, 8 folding place cards, 8 fortune telling cards, 8 candle holders, 8 nut holders with pockets, 8 pumpkin ice cream decorations and 2 puzzle party games; halloween colors; in envelope 11x13 ins. Dozen envelopes..... .....2.10

LAMP SHADE

T5618 — Cardboard lamp shade 4½x4½ in. base, assorted 2 kinds, yellow, and black and white, witch, owl, cat and candle decorations and yellow, black and white pumpkin head decorations; 8 ins. high; 1 dozen in pkge. Dozen ..... .80

HALLOWE'EN POST CARDS

S481—Assorted 6 designs, juveniles, witches, pumpkin, black cat subjects etc.; an extra good assortment, lithographed in bright colors on white backgrounds and embossed, with catchy greetings; 100 in package. 100.... 55

You can get the cream of the business by keeping stocks complete.

CANDY BOXES

T5647 Assorted 6 kinds cats, witches, hats, pumpkin heads, etc.; novelty shape and finished; average height 3½ ins., 1 dozen in box. Doz. boxes ...2.25 Box... 20

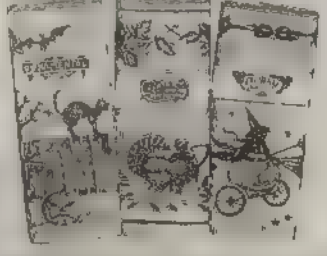
T5651 -Assorted 6 kinds, witches cats, pumpkins, candles etc., black and yellow crepe tissue, Hallowe'en character decorations in colors; average height 5 ins.; 1 doz. asst. in box. Dozen .... .40

T5652— Composition kewpie, finished in bright colors, standing on round candy box; diam. 1⅝ ins., 3½ ins. high; 2 doz. in box Dozen 72

T5658 — Black and yellow striped box, with white candle top, figure decorated in colors, handled; diam. 3¼ in., 4½ in. high; 1 doz. in box. Doz... .85

T5650—Black cat lantern head, cut out eyes, nose and mouth, tube, skeleton decorated candy box; diam. 2 in., height 9½ ins.; 1 doz. in box Dozen . .90

HALLOWE EN CREPE PAPER



F228—White back ground pumpkin and black cats in colors and gilt tracings, with black bats, soaring through the air; 10 feet in fold, 12 folds in box Box.....1.08

F220—Yellow back ground; with a pumpkin balloon in bright colors and gilt, gilt stars, moon, black cat etc.; scenic base border; 10 feet in fold; 12 folds in box. Box 1.08

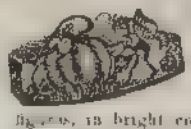
HALLOWE'EN HATS

F622 — Clown shape; yellow, witch and cat decorations black; black shredded tissue bound; 11 in high.

Gross.... 3.00 Dozen.. ... .30

F627—Clown shape, yellow striped, black cat and witch decorations; black band; height 15 ins. Dozen 40

F624 Assorted 4 kinds, cats, witches, owls and kettles; black and white on yellow; honey comb tissue crown; 1 dozen assorted in package Dozen 42



F625 — Assorted 4 kinds; lithographed cut out hallowe'en mystic figures, in bright colors on orange ground, honey comb tissue crown, 1 dozen assorted in package. Dozen .. .. .42

F626—Assorted 3 kinds, cat, devil and ear corn; cut out nose and eyes; orange, white and black decoration, honey comb tissue crown; 1 dozen assorted in package Dozen 42

F628—Shaped orange band, black cat, owl, hat, etc., decorated; applied silhouette witch; tissue crown with ribbon streamers; 1 dozen in package. Dozen ..... .42

ASSORTED EIGHT DESIGNS

F631—Assorted 8 designs to the dozen black and yellow hats and bonnets, in solid colors and stripes; some with witch, and black cat medallion side decorations; well made, good quality crepe, exceptional value, 8 doz. in package. Dozen . ..... .40

CREPE PAPER NAPKINS

S1241 Scalloped edge white crepe paper napkin; pumpkin color ribbed edge; edged with gold, with cover designs of black cats, witches and pumpkins; 14x14 inches; 100 in bundle; 500 in box. 1000 .....3.15 100.. .... .33

CREPE PAPER IN ROLLS

F200/90—Black crepe paper; 10 ft. in roll; 10 rolls in box Box 40

F200/40 — Pumpkin yellow crepe paper; 10 feet in roll; 10 rolls in box. Box.. 40

RIBBON CREPE

F230—Combination gold and black, 2½ in. wide, 20 feet long; 12 rolls in box. Dozen..... .70

HALLOWE'EN BALLS

F533 — Made of orange and black alternating, honey comb (meshed) tissue paper; diam. 8 ins.; 1 dozen in pkge Doz . .72

HALLOWE'EN GARLANDS

F525—Honey comb tissue garland, alternate black and yellow sections; square shape; length 8½ ft.; 8 dozen in pkge. Dozen.. .. .80

F520—Same, larger, oval shape; length 10 ft., 2 dozen in box. Dozen .. .. .68

F527 — Oak leaf shape; alternate black and yellow sections; length 12 feet; 2 dozen in box. Dozen .. .. .75

F529 — Sectional folding garland, cut-out lithographed cats, witches, pumpkin heads, etc.; in solid black and yellow on ribbon bound holly garland in rope effect; length 6 ft., 8 inches; 1 dozen in pkge. Doz. .85

F528 — Ten assorted size pumpkins on card hanger; smallest 4½x3¾ ins.; largest 8x7¾ ins.; 1 dozen in box. Dozen .. .. .85

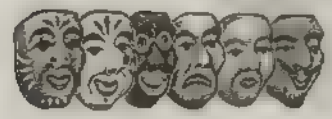
MASKS

Our line of Masks is complete in every detail. No better assortment of Masks can be found anywhere. The quality is of the very best that can be had for the money, and are packed in strong cardboard boxes.

PAPER MASKS

F801—Children's flesh color, pantee mouth and chin flax mustache; good quality paper; 1 gross in package. Gross ... 1 10

ASSORTED PAPER MASKS



F806—Full size paper masks glazed, assorted 36 styles, men and women characters; finely painted; 3 dozen in package. Dozen ..... .38

F803—Assorted full size paper, matt finish; 12 kinds; 3 dozen in package. Gross 2 25

GAUZE MASKS

F802 — Children's gauze masks; painted in bright colors assorted characters; ½ gross in box. Gross...2 25

F805 — Assorted juvenile paper masks 12 kinds, painted hair; 3 dozen in box. Dozen.... .35

F804—Children's or juvenile gauze masks finished in many bright colors; assorted characters, 1 dozen in box Dozen 38

CHARACTER MASKS

Assorted

F808 — Gauze, flesh color; men and women characters; finely painted; Indians, Dutchmen, Chinese, Irishmen, Negroes, Jews, Old Men and Women, School Boys and Girls, Clowns, Tramps and Farmers; 3 doz. asst. in box. Doz..... 39

F809—Same as F808, women; 3 doz. asst. in box. Doz. 39

F810—Gauze, wax finish assorted Indians, Chinese, Dutchmen, Negroes, Clowns, Jews, etc.; extra good quality; 1 dozen in box. Doz..1 25

F812—Extra quality large size mask gauze; 1 dozen in package. Doz. 1.12

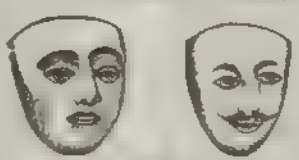
F817 Assorted: extra large; flesh color, finely painted; devils, jews clowns, irishmen, gypsies, negroes, dutchman, monks, etc; 1 dozen in box. Dozen ..... .74

SEPARATE CHARACTER MASKS

PAPER WITH MUSTACHES

F820—Assorted 12 kinds, Jews, negroes, Turks, Chinamen, clowns, etc.; good quality paper, nicely painted; assorted color mustaches; 6 dozen in package. Gross 3 00

YOUNG LADIES AND GENTS



F835 Gauze flesh color; young ladies assorted 1 dozen in a box Dozen ..... .39

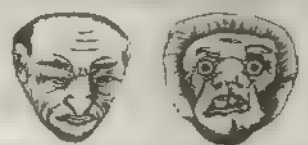
F836—Same better quality, 1 doz. in box. Dozen ..... .75

F827 Young gents, assorted, gauze, flesh color, 1 dozen in a box Dozen ..... .39

F828—Same, better quality, 1 doz. in box. Dozen ..... .75

OLD MEN AND WOMEN

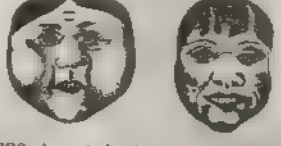
Assorted



F832-Assorted old men and women; gauze, flesh color. 1 dozen in box Dozen ..... .75

BOYS AND GIRLS

Assorted



F836--Assorted school boys and girls and fat boys and girls, gauze, flesh color; 1 dozen in box. Doz.... .75

JEWS, FARMERS, TRAMPS

Assorted

F840—A assorted jews, farmers and tramps, gauze; flesh color; finely painted, 1 dozen in box. Dozen ..... .75

IRISH AND DUTCH MEN AND WOMEN

Assorted

F852 — Assorted Irish and Dutch men and women; gauze; flesh color; finely painted. 1 dozen in box. Dozen ..... .75

CLOWNS

F843—Clowns assorted; gauze; 1 dozen in a box Dozen ..... .30

F844—Same, better quality; 1 dozen in box. Dozen ..... .75

INDIANS AND SQUAWS

Assorted

F854 — Assorted Indians and squaws; gauze; flesh color; finely painted; 1 doz. in box. Dozen ..... .75

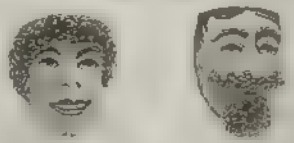
NEGROES AND WENCHES

F845—Negroes and Wenches, assorted flesh color; 1 dozen in a box Dozen 39

F846—Same, better quality 1 doz. in box. Dozen 75

LADIES AND GENTS

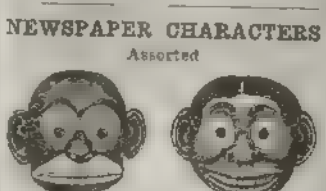
With Hair



F821—Assorted paper masks, full size, men with beards and mustaches, and women with hair; flesh color, nicely painted; 3 dozen in package. Dozen ..... .62

NEWSPAPER CHARACTERS

Assorted



F873--Popular newspaper characters, fine glazed white paper, as Gaston, Alphonse, Leon, Happy Hooligan, Policeman Hooligan, Gloomy Gus Mrs. Katzenjammer, The Kids, Uncle Heinie, Captain, Foxy Grandpa, Buster Brown; 1 dozen in a box. Dozen ..... .72

DEVILS

F932--Devils, assorted gauze 1 dozen in a box. Dozen .. .30

MASK WITH HAT

F819 — Large masks with hair and hats, assorted characters to the Dozen; ½ doz in box Dozen 1 98

ANIMAL MASKS

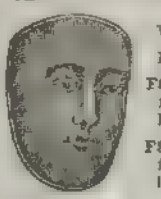
F880—Assorted paper animal masks, nicely made and finished; 1 dozen in box. Dozen..... .38

F882 — Full size; gauze mask, assorted animals- 3 dozen in a package. Dozen 2 00

MOTION MASKS

MOVING EYE AND JAW

F810 — Fine gauze mask, with natural hair and eye brows; hinged lower jaw, which can be made to open and close; left eyebrow on spring hinge which on pulling string as illustrated winks in a very ludicrous manner; six styles assorted. Dozen 1 95



WIRE MASKS

Men and Women

F884 Young men, full size Dozen 1 85

F885-Young ladies; full size. Dozen 1 85

CAMBRIC HOODWINKS

F894— Cambric Hoodwinks black; same as No. F886 Curtain Masks, without the curtain and the eyes not open; very clammy in appearance and used for lodge purposes. Dozen..... .60

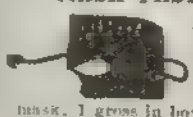
LULUS OR HALF MASKS

F891 Cambric Lulus; fine quality white, black and assorted colors; 1 dozen in pkgs. Gross..... 3.75 Dozen..... .34

F892—Same Sateen; 1 dozen in pkg Dozen 48

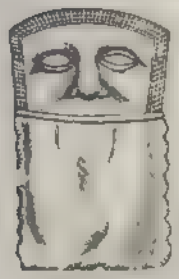
F893—Satin Lulus; colors white, black, red, pink, and light blue; sold either in solid colors or assorted. Dozen..... .70

MASK FASTENERS



F895 Made of elastic with metal fastener on end; will hold any mask, 1 gross in box Gross.. 78

CAMBRIC MASK
WITH CURTAIN



F888 — Cambric Curtain Masks or Dominoes in assorted colors, extra good quality, one dozen in bundle.
Gross . 4.25
Dozen .38

WIGS

F915

F917

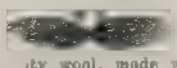
Good quality wool wigs assorted colors; ½ dozen in pkge.
F915—Gents, assorted. Dozen 2.25
F916—Negroes. Dozen 2.25
F917—Bald head. Dozen 2.25
F918—Ladies, assorted. Doz. 2.25

BEARDS

F910 — Combination beard and mustache, sewed and wired, assorted solid colors; 1 dozen in package.
Dozen .40

F909—Beards; assorted characters, Jews, Irish, Dagos, etc; 1 dozen in a box. Dozen .82

MUSTACHES



F907—Mustaches, good quality wool, made with wire to hold on nose; 1 doz. on a card assorted. Gross 2.75 Dozen .30

F908—Mustaches and Goatees extra heavy, stick on; one piece on a card; one dozen in an envelope.
Dozen .40

SANTA CLAUS MASKS

F934—Combination flat lithographed Santa Claus mask and hat, white honey comb tissue top forming hat; red band; 1 dozen in package. Dozen .72

Flax Beard

F935 — Santa Claus, very fine gauze painted, with flax beard; one doz. in a box. Dozen 1.10

Wool beard, moving mouth

F937—Good quality gauze, nicely painted; with wool beard and hinged moving mouth; 1 dozen in package. Doz. 1.92

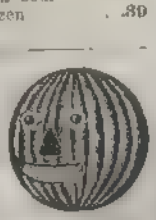
Wool beard, moving mouth, with hood

F938 Extra fine cut fit; natural painted quality gauze with selected wool beard and cloth hood; ½ dozen in box. Dozen...3.95

HALLOWE'EN MASKS

F928—Skull Masks; gauze; very highly finished; one dozen in a box.
Dozen .30

PUMPKINS



F927 — Pumpkin Masks; well modeled faces; good gauze; painted in natural colors; 1 dozen in a box.
Dozen .30

WITCHES WITH HAIR

F931 — Witch Mask with hair, fine gauze, nicely painted features; 1 doz. in a box.
Dozen .30

DEVILS

F932—Devil masks; bright red, gauze painted features and horns; 1 dozen in box. Dozen... 39

ASSORTED CHARACTERS

F924—Assorted paper juvanite masks, 6 kinds; 3 dozen in package. Dozen .38

F926—Grotesque characters; gauze finely painted; witch, skull, devil, pumpkin, etc; 6 kinds assorted; 3 dozen in box. Dozen..... 75

GAUZE WITH HOODS

F923 — Assorted gauze masks, skulls, devils, clowns, Chinese, negroes, Turks, etc.; extra well made wax finish; with hair, beards and mustaches, assorted cloth hoods; ½ dozen in box. Dozen 2.10

Our masks are all well made, not the cheap flimsy kind, and are the best good on the market, send us your order

TINSEL, COSTUME BELLS, CONFETTI, ETC.

COSTUME BELLS

No.	Each	Box	Gross
F941—	Brass, 9/16 in., 1 gr.		.78
F942—	Brass, ⅝ in., 1 gr.		.83
F943—	Brass, 11/16 in., 1 gr.		.90
F944—	Brass, ¾ in., ½ gr.		.98
F945—	Brass, 1 13/16 in., ½ gr.		1.05
F946	Steel, 1-14/16 in., 1 gr.		2.00

F948 — Stamped; shaped brass finished bells, clear tone; loop through top, holding tongue, for sewing on; height, ½ inch; 1 gross in a box.
Gross ... 2.00

F949—Same as No. F948, but larger; height, ⅝ inch; ½ gross in a box. Gross 2.25

COSTUME TINSEL

T6495—Silver; diameter 1 inch; 3 dozen yards in box.
Gross yds...3.75 Doz. yds.. .35

T6496—Same, gold. Gross yds 3.75
Dozen yds..... .35

CONFETTI IN TUBES

For Parties, Carnivals, Street Fairs, Etc.

F317—Put up in wax paper tube, length 6¾ inches; diameter 1⅝ ins; 50 tubes in a box.
100 tubes 2.75

BULK CONFETTI

Everybody knows it now. No carnival or street fair complete without it. The cry is for the proper kind so that it would be neat, not too coarse or too fine. We have it and in the brightest of colors, producing rainbow effects. Clean as silk, free from dirt.

F315—In bulk, put up 50 lbs. in burlap bag (no less sold.) Lb..06½
In 500 lb. lots..... .06¼

PACKAGE CONFETTI

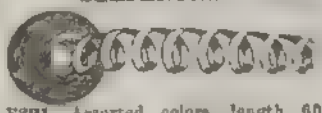
F316—In 1½ oz. paper bags, ready for sale, each bag sealed with neat label reading "Confetti, the fun maker;" packed 100 bags to a box.
100 bags ..1.75

F318—¼ lb. in 6 oz. paper bag, 50 bags in box 100 bags 3.75

CONFETTI DUSTERS

B324—Assorted bright color feathers, bamboo handle; length over all 21 ins.; 100 in bundle
Per 100 ..... 1.25

SERPENTINES



F321—Assorted colors, length 60 feet, 25 rolls in tube.
100..... .85 1000 .....3.00

THANKSGIVING NOVELTIES

COMPOSITION TURKEYS

T5607—Bronze strutting turkey, spreading wings and tail feathers; beautifully modeled and finished in natural colors; natural hair beard; removable head for candy; size 4½x6 in., 8 in high; 1/6 dozen in box
Dozen.... 10.50 Each .89

T5668 [illegible] 67 larger; size 6x8 ins., 11½ ins. high; each in box. Doz. .1.25

CANDY BOXES

T5621 [illegible] Turkey; nicely modeled and browned; full composition; removable cap base for candy; size 3x2½ ins., 5 ins. long; 1 dozen in box. Dozen..... .88

T5672—Same, larger; size 4½x3½ ins.; 7 ins. long; ½ dozen in box.
Dozen 2.00

CREPE PAPER NAPKINS

S1242— Three natural color pumpkin corners. Large strutting turkey corner medallion [illegible] 13 inches
[illegible] .3.15 [illegible] .38

THANKSGIVING CARDS

B487—Assorted 6 designs; strutting turkeys, floral and fruit clusters, etc; bright colors; white grounds; greetings; 100 in package.
100 42

B491—Assorted 4 designs; landscapes with turkeys, pumpkins, corn shocks, etc; white leatherette effect grounds; greetings; 100 in package. 100.....1.25

NOVELTY CARNIVAL PAPER HATS

Big sellers for carnivals, parties, masquerade dances, picnics, etc

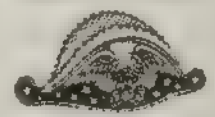
F661 — Assorted color crimped paper, animal decorated; ½ gross in package
Gross 1.10

F671 — Soldier; assorted solid color floral and scroll decorated pasteboard band, with fan cut out ornament in colors; white honey comb tissue crown; 3 dozen in package.
Gross.....2.25 Dozen ..... .20

F663 — Assorted solid color tissue, reinforced band; large wing bows with gilt ornament
Gross.....3.00 Dozen..... .30

F669 — Red crepe fez, well sewed; with cord and tassel; 1 doz in pkge.
Gross 3.25 Dozen .30

F664 — Plug shape red and white striped crown; blue rim, white star decorated; 1 dozen in pkge. Gross...3.00 Doz .30

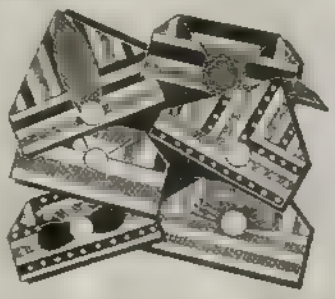


F797 — Colonial Chapeau; lithographed red, white and blue cut-out sides, with spread eagle and star decorations; white honey comb tissue crown; 1 doz. in pkg. Doz. .40

F726—Shredded tissue covered Bandau, with large cut out natural colored butterfly ornament; 3 dozen in pkg. Dozen.. .40

F666—Panama; heavy crimped natural straw color; sewed, turned up brim; printed red band; 1 dozen in pkge.
Dozen ..... .40

F687—Printed cardboard band, shredded white crepe tissue decorated; side butterfly ornament in colors; white tissue streamers; honey comb crown; 1 dozen in package
Dozen ... .40



F695—Assorted styles and crepes; bright colors in cheeks, floral decorations with streamers, and bows; large sizes; 1 dozen in envelope
Dozen ..... .40

F696—Assorted patriotic designs in solid colors and red, white and blue stripes; rosette and crepe feather ornamented; 1 dozen in envelope
Dozen .40

F688—Clown hat; heavy white paper assorted color rosette and band crepe tissue decorated; height 11 ins.; 1 dozen in package
Dozen 15

F730—Napoleon hat, cut out lithographed sides in red, white and blue; spread eagle and star decorations; large white plume; white honeycomb tissue crown; 1 dozen in pkge
Dozen ..... .45

F727 — Fancy shape, imitation jewel decorated; heavy comb crown, with tassels; 3 dozen in pkge Doz.. .68

F673— Assorted color wide crepe tissue bands; honey comb crown; bright color rosette decorated, 15 in. plaited queue; 1 dozen in package.
Dozen .. .72

F690— Assorted solid color crepe tissue crown, gold band edged; side rosette with long shredded tissue streamers; extra big value, 1 dozen in package. Dozen..... .84

F729— Assorted solid color crowns, white shredded crepe bands, rosette and feather trim; 1 dozen in box
Dozen ... .90

F731—Card board band, all over white shredded tissue covered large nickeled skate side decoration; black and white pom; white honey comb tissue crown; 3 doz. in pkge.
Dozen .... .95

F732—Huzzar, shaped; bright red crepe covered, white shredded crepe band rosette; large gilt ornament with plumes; 2 dozen in pkge.
Dozen ... 1.25

F749 — Assorted solid color crepe tissue, stiff brim, oak effect crown, with tassel; ½ dozen in pkge.
Doz n 1.45

F702—Tam 'O Shanter; assorted solid color bands, with striped tissue crowns to match; large rosette, extra large; 1 dozen in pkge.
Dozen ... 1.75

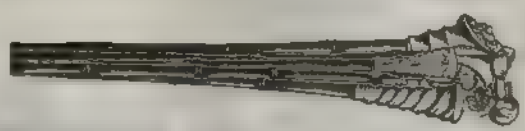
F704 — Naval, 2½ in solid red band; white crepe tissue crown, with blue pom pon
pkge. Dozen 1 dozen in 2.25

F745—Extra fine assorted solid color crepe tissue; shaped; stiff band, lined; with bow, ribbon streamers and tassels, large size; ½ dozen in box.
Dozen 2.25

F750— Assorted solid color crepe tissue stiff band puffed spread ing crown lined; large side ribbon bow, with streamers; large size; ½ dozen in box.
Dozen 2.25

F708 — Poke bonnet; assorted solid shaped frame, tissue covering, crepe crown, with large bow and flowing streamers extra large; 1 doz. in pkge.
Dozen 2.25

ASSORTED CARNIVAL CANES

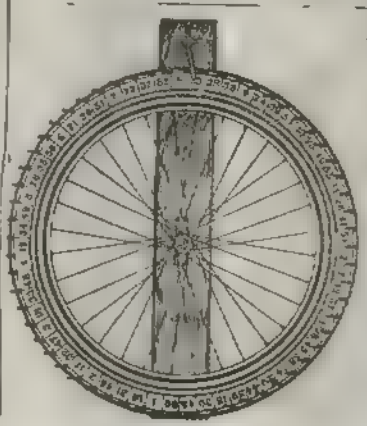


ASSORTMENT No. F467—10 canes in bundle, assorted metal and wood heads; plain bamboo sticks. Bundle of 10.. .60 Per 100 canes...5.25

ASSORTMENT No. F468—As assortment F467; nine metal and one wood head, black enameled sticks. Bundle of 10 .90 Per 100 canes 8.00

ASSORTMENT No. F469—All large metal heads, assorted gilt and silver with black enameled sticks. Bundle of 10..1.15 Per 100 canes .10.50

PADDLE WHEELS AND PADDLES



NEW REVERSIBLE WHEEL

Two-in One

F500—Has 60 numbers on one side and 120 numbers on the opposite side; diam. 32 ins.; 1 in crate. Each 12.00

PAPER PADDLES

For 60-Number Wheel

F495—20 paddles, 3 numbers each. 100 sets... ..... .90
F493—30 paddles, 2 numbers each. 100 sets.....1.10

For 120-Number Wheel

F496—30 paddles, 4 numbers each. 100 sets 1.35
F497—40 paddles, 3 numbers each. 100 sets 1.60
F498—60 paddles, 2 numbers each. 100 sets 2.00

SAFETY FUSE

For Dynamite and Blasting Powder.

Prices on application.

Cotton Fuse.

List Price Per 1000 Ft.

No. 1C—For use in dry work only, very pliable. Will burn 1 foot in 30 seconds; weight 13 lbs. per 1000 feet ✚$8 20

Beaver Fuse.

No. 2B—For use in damp work and most agricultural blasting. Will burn 1 foot in 30 seconds; weight 20 lbs. per 1000 feet 8 20

Single Tape Fuse.

No. 3ST—For use in damp work. Will burn 1 foot in 30 seconds; weight 20 lbs. per 1000 feet 8 75

Clover Fuse.

No. 5CL—For use in wet work. Weight 20 lbs. per 1000 feet 9 50

Anchor Fuse.

No. 4A—For very wet work, a standard mining fuse. Will burn 1 foot in 30 seconds; weight 20 lbs. per 1000 feet 10 35

Double Tape Fuse.

No. 5DT—For use in wet work. Weight 20 lbs. per 1000 feet 10 80

Crescent Fuse.

No. 6CR—For very wet work, a standard mining fuse. Will burn 1 foot in 30 seconds; weight 20 lbs. per 1000 feet 10 35

Packed in cases; 1000 ft. and 6000 ft. in a case.

CAP CRIMPER AND FUSE CUTTER

GOLD MEDAL

Will fasten the cap on to the fuse firmly and absolutely watertight. Only tool necessary for users of dynamite. Round end handle for punching cap holes; end cutter for crimping caps; side cutter for cutting off fuse; nickel plated steel.

Each

No. 10—Length 5¾ inches $3 30

Packed loose; weight per dozen 2 lbs.

BLASTING PAPER

BIG DRIVE

Superior waterproof paper.

Nos.	BD91	BD121½	BD125
Width, inches	9	12	12
Weight per roll, lbs.	1	1½	5
Per 100 Lbs	$28 50	28 50	28 50

No. BD91, BD121½ packed 50 rolls in a carton; No. BD125 packed 5 rolls in a bundle.

HERCULES

Nos.	H9-1	H12-1½	H12-5
Width, inches	9	12	12
Weight per roll, lbs	1	1½	5
Per 100 Lbs.	$21 75	21 75	✚19 50

No. H9-1 packed 100 rolls in a case; No. H12-1½ packed 50 rolls in a bundle and No. H12-5 packed 5 rolls in a bundle.

✚No. H12-5—F. O. B. Ohio Factory Only.

✚No. 1C—F. O. B. Connecticut Factory Only.

CONCRETE MIXERS

LANSING, BRONCHO SPECIAL

The Broncho Special is a popular mixer which can easily be moved about from one job to another. It is a general utility machine and suitable for mixing common concrete, cinder concrete, top dressing or cement or lime mortar. The cost of operation is very small.

The engine and all sprockets and chain are completely housed in steel. With every mixer is included a 2 H. P. engine, steel housing and draw pole.

For Data see Page 367.

Each

No. 5BS Weight each about 1500 lbs ✚$1056 00

LANSING WITH STANDARD WHEELBARROW HOPPER

The compact, sturdy, substantial construction of this mixer insures against its being racked to pieces in long hauls over country roads or city pavements.

All bearings supplied with compression grease cups. Guards over exposed working parts. Trucks finished in black paint, balance of mixer two coats gray. A complete set of necessary tools furnished with each mixer.

For Data see Page 367.

Each

No. 5WSWH—Weight each about 1800 lbs ✚$1545 00

✚F. O. B. Michigan Factory Only.

CONCRETE MIXERS

LANSING, WITH POWER SIDE LOAD AND WATER TANK

This mixer is a great labor and time saver. It nearly doubles the output, as one batch is prepared while the other is mixing. There is no lost time, no waiting, as one batch follows another through the drum in quick succession.

The water tank is of the open type and 11 gallons capacity. It automatically measures the amount of water required for each batch.

The side loader is of the improved pivoted type. Open end skip, 36 in. wide. Skip lifted by double line cable, running over two steel pulleys at top of mixer frame. Skip bale drops back out of way when loading.

The drum is non-tilting type, gear driven and provided with splash rings to prevent spilling. Mixing blades, seven. Discharge buckets, five.

All bearings supplied with compression grease cups. Guards over exposed working parts. Trucks finished in black paint, balance of mixer two coats gray. A complete set of necessary tools furnished with each mixer.

For Data see Page 367.

	Each
No. 5PSL—Weight each about 2000 lbs.....	✣$2115 00

✣F. O. B. Michigan Factory Only.

CONCRETE MIXERS

LANSING, WITH POWER SIDE LOAD AND WATER TANK

This mixer is well balanced and handles a bag of cement at each batch. It is deservedly popular on small and medium sized jobs, where the expense of moving and operating a larger mixer is prohibitive. For convenience of operating, the levers are grouped. One man, without changing his position, readily attends to the charging, discharging and water supply.

The mixer drum is of the non-tilting type, gear driven; cast semi-steel heads joined by heavy boiler plate steel.

Pivoted type discharge chute, No. 10 gauge carbon steel. Discharges 10 to 12 seconds.

Improved pivoted type side loader. Closed end skip, 37 inches wide.

Water tank is positive measuring; capacity 12 gallons.

All bearings supplied with compression cups. Guards over exposed working parts. Trucks finished with black paint, balance of mixer two coats gray. A complete set of necessary tools furnished with each mixer.

For Data see Page 367.

	Each
No. 7—Weight each about 3000 lbs.....	✣$2625 00

✣F. O. B. Michigan Factory Only.

The reputation of LANSING CONCRETE MIXERS, STEEL PAVERS, MORTAR MIXTURES and HOISTING OUTFITS is universally known. There are no better made. Our Engineering Department will gladly furnish you with any desired information relative to these Mixers.

CONCRETE MIXERS

LANSING, WITH POWER SIDE LOADER AND WATER TANK

A single cable draw operates the loader. This increases speed of charging, reduces friction and eliminates multiplicity to cable and pulleys.

Pivoted type discharge chute of 10 gauge carbon steel; 10 gauge blue annealed steel batch charging hopper; 10 gauge blue annealed steel side loader, heavily reinforced.

Automatic closed pressure type water tank, 20 gallon capacity; tested under 125 lbs. working pressure.

All bearings supplied with compression grease cups. Guards over exposed working parts. Trucks finished in black paint, balance of mixer two coats gray. A complete set of necessary tools furnished with each mixer.

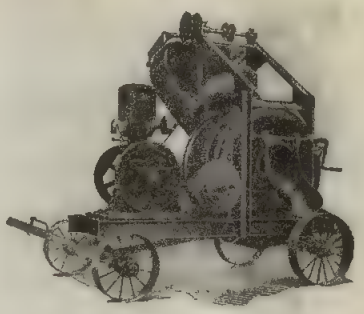
For Data see Below.

	Each
No. 10—Weight each about 4000 lbs.	✤$4005 00

✤F. O. B. Michigan Factory Only.

CONCRETE MIXERS

LANSING, WITH POWER SIDE LOADER AND WATER TANK



This mixer is of large capacity and is especially free from vibration.

The drum is non-tilting type, gear driven; cast semi-steel heads joined by heavy boiler plate steel.

Discharges 10 to 12 seconds.

Improved pivoted type side loader, blue annealed steel heavily reinforced. Single line cable.

Automatic closed pressure type water tank, 20 gallons capacity; tested under 125 lbs. working pressure.

All bearings supplied with compression grease cups. Guards over exposed working parts. Bolts provided with lock washers. Trucks finished in black paint, balance of mixer two coats gray. A complete set of necessary tools furnished with each mixer.

For Data see Below.

	Each
No. 15—Weight each about 5500 lbs.	✤$5760 00

✤F. O. B. Michigan Factory Only.

DATA FOR LANSING CONCRETE MIXERS.

	No. 5BS	No. 5WSWK	No. 5PSL	No. 7	No. 10	No. 15
Drum Capacity, Dry Material	5 cu. ft.	5 cu. ft.	5 cu. ft.	7 cu. ft.	10 cu. ft.	15 cu. ft.
Drum Capacity, Wet Mixed Material	4 cu. ft.	4 cu. ft.	4 cu. ft.	5 cu. ft.	8 cu. ft.	12 cu. ft.
Drum Dimensions, Diameter	36 in.	32 in.	32 in.	36 in.	42 in.	52 in.
Drum Dimensions, Width		31 in.	31 in.	36 in.	36 in.	36 in.
Drum Speed, R. P. M.		18	18	18	16	14
Drum Openings, Diameter	18 in.	12 in.	12 in.	16 & 12 in.	18 in.	20 in.
Batches per hour	27	40 to 60	40 to 60	40 to 60	40 to 60	40 to 60
H. P. of Engine	2	2½	4½	5	6	8
Discharge Hopper Gauge		10	10	10	10	10
Skip Body and Hopper Gauge		10	10	10	10	10
Main Frame	66x42 in.	74x43 in.	74x43 in.	96½x41¾	114x43 in.	111x43½ in.
Front Wheels	16x3 in.	16x4 in.	16x4 in.	16x4 in.	16x4 in.	24x6 in.
Rear Wheels	24x3 in.	24x3 in.	24x3 in.	30x4 in.	30x6 in.	30x6 in.

STEEL PAVER

LANSING, ONE-BAG LIGHT WEIGHT

With Distributing Chute.

The 12 foot distributing chute is provided with sectional gates for spreading the concrete over a large area without moving mixer, and has a maximum swing of 180 degrees. The power furnished is greatly in excess of ordinary requirements to insure satisfactory results in climbing hills and working on heavy grades.

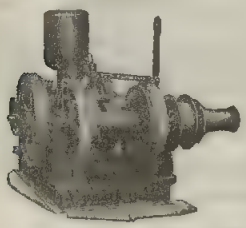
Traction forward and reverse. Cut steel sprockets. Diamond roller steel transmission chain. Gear driven drum. Twenty-gallon pressure tank. All operations—charging, mixing, discharging, spouting and moving under one man's control. Six horse power engine.

Frame 36x47 in.; front wheels 20 in. in diameter; rear wheels 30 in. in diameter. A complete set of necessary tools furnished with each mixer.

	Each
No. 7SP—Weight each about 5900 lbs.	✣$4605 00

HOISTING OUTFITS

LANSING, SINGLE DRUM, SINGLE SPEED REVERSIBLE



Popular size for building construction, car hauling, back filling trenches, etc. Drum can be operated alone in either direction with sheave standing still. Sheave can be operated alone in either direction with drum standing still. Both drum and sheave can be operated together in either direction.

A 4 H. P. engine will lift approximately 1200 lbs. with a single line and block; a 6 H. P. engine about 1600 lbs. For general purposes a 6 H. P. engine is recommended. The load can be practically doubled by using more blocks and decreasing speed to about 55 ft. per minute.

Floor space 32x55 in.; hoisting drum 14x8 in.; hoisting sheave 12 inches in diam.; nigger head 12 in. long by 6 in. in diameter. With 6 horse power engine.

	Each
No. C7—Without power	✣$1560 00
No. C7-4—With 4 H. P. Gasoline Engine	✣ 1845 00
No. C7-6—With 6 H. P. Gasoline Engine	✣ 2055 00

Weight each about 2775 lbs.

✣F. O. B. Michigan Factory Only.

MORTAR AND PLASTER MIXERS

LANSING

Architects, contractors and builders are realizing that hand mixed mortar is a thing of the past. Where economy and quality are important, the mortar mixer has taken the place of the hoe and the old wooden mortar box. The product is improved, improper mixing is avoided and a big percentage of labor cost is saved.

Powerful I. H. C. engine is furnished, with machine cut gears, friction clutch, driving chain, etc. All bearings babbited, insuring a smooth running machine, engine and transmission suitably housed.

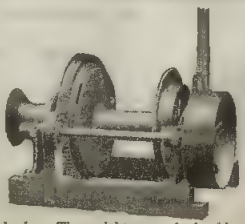
The trough is of large capacity so as to provide for plenty of storage space for accumulation of mortar when not being taken out.

The method of mixing mortar is to shovel in three or four shovels of sand at the head of the trough, a shovel of lime slacked off to putty state, and add a little cement. This operation is continued as long as material is called for. The quantity of water can be gauged by the valves on the spray pipe. The proportions of material can of course, be changed to suit any work.

Nos.	1	2
Length over all, ft	10	10
Width over all, in	44	44
Depth of trough, in	25	16½
Length of trough, ft	5½	6½
Width of trough, in	18	15
Height of discharge, in	20	20
Number of paddles	24	29
Diameter front wheels, in	14½	14½
Diameter rear wheels, in	30	30
Weight each, lbs	2100	1650
Each	✣$1770 00	✣$1485 00

BELT HOISTS

LANSING, NON-REVERSIBLE



For hoisting wheelbarrow loads of brick, mortar and concrete, timbers and other materials.

Drum will run in either direction. Its maximum lifting capacity is 500 lbs. Operated by a belt drive. A 2 or 3 H. P. engine will run it.

Pushing lever forward engages the main drum, throwing it backward applies the brake. The weight on end of cable causes drum to reverse and unwind under brake control.

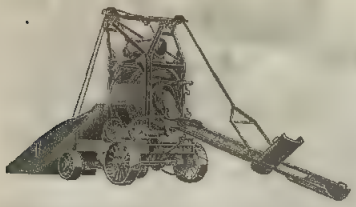
	Each
No. C8—Complete without power	✣$285 00

Weight each about 300 lbs.

✣F. O. B. Michigan Factory Only.

STEEL STREET PAVERS

LANSING



With Loader, Water Tank, Traction, Spout and Gasoline Power.

This Paver is meeting a growing demand for a high grade steel machine of medium weight and capacity. It maintains surprisingly large output and is operated at the highest possible efficiency.

Drum capacity 8 cu. ft. wet concrete per batch, 10 cu. ft. of dry material per batch. Rating 40 to 60 batches per hour. The mixer drum is of the non tilting type, gear driven; cast semi-steel heads joined by heavy boiler plate steel; machine finished tracks; inside dimensions 42x86 inches; speed 16 R. P. M.; drum gear 2½ inch face; drum opening 18 inches, and provided with splash rings to prevent spilling. Mixing blades, nine. Discharge buckets, six.

Water tank positive measuring pressure type 30 inches long, 14 inches diameter; 18 gallons capacity. Tested under 125 lbs. pressure.

All bearings supplied with compression grease cups. Guards over exposed working parts. Trucks finished in black paint, balance of mixer two coats gray.

Main frame 84 inches long by 45 inches wide. Two sides and five cross pieces 6 inch heavy channel steel. One 6 inch cross beam in center. Two upper 5 inch cross beams for trunnion bearings. Upper frame 3x3x¼ inch angle iron with ⅜ and ½ inch gusset plates. Front wheels 20 inches in diameter, 8 inch face; rear wheels 30 inches in diameter, 8 inch face.

Each

No. 10SP—Regular equipment, paver on steel trucks, traction forward and reverse, power and loader, automatic pressure water tank, 12 foot distributing spout, 8 H. P. gasoline engine, steel housing and set of tools ..... ◆Prices on Application.

Weight each about 2500 lbs.

RAILROAD OR CANAL BARROWS

WOOD—BLUE RIBBON—

Full Bolted.

Hardwood frame and tray; full bolted; full size bent tray, planed and cleated. Leg braces extend beyond handles in front, forming braces for tray. Steel wheel.

Per Dozen

No. 101BR—Tray 33x28 inches; depth at center 7¼ inches; 16 inch wheel with 1¼x1¼ inch tire and ½ inch spokes; 1 inch axle $102 00

Shipped K. D., trays ¼ dozen, frames ½ dozen and wheels ¼ dozen in a bundle; weight per dozen 550 lbs.

◆F. O. B. Michigan Factory Only.

RAILROAD OR CANAL BARROWS

—BLUE RIBBON—

Full Bolted.

Hardwood frame and tray; full bolted; full size bent tray, strongly strapped with iron and securely bolted to handles, legs and leg braces; legs and braces extend beyond handles, forming braces for tray. Steel wheel.

Per Dozen

No. 102BR—Tray 33x28 inches; depth at center 7¼ inches; 16 inch wheel with 1½x1¼ inch tire and ½ inch spokes; 1 inch axle $120 00

Shipped K. D. trays ¼ dozen, frames ½ dozen and wheels ¼ dozen in a bundle; weight per dozen 575 lbs.

—BLUE RIBBON—

Full Bolted.

Hardwood frame and tray; full bolted; full size bent tray, reinforced in front by two upright wood supports, through top of which pass the bolts that engage the front steel braces. Legs are gained and bolted to handles and back of tray. Bottom of legs are protected from wear by steel shoes. Steel wheel.

Per Dozen

No. 103BR—Tray 33x29 inches; depth at center 8 ins; 16 inch wheel with 1½x1¼ inch tire and ⅝ inch spokes; ½ inch axle ..... ◆$120 00

Shipped, K. D., trays ¼ dozen, frames ½ dozen and wheels ¼ dozen in a bundle; weight per dozen 600 lbs.

MORTAR OR DUMP BARROWS

—BLUE RIBBON—

Strongly built of selected hardwood; corners of tray dovetailed and strapped with iron, firmly bolted to handles, leg braces in rear and to block braces in front. Steel wheel.

Per Dozen

No. 104BR—Capacity 3 cubic feet; tray 24x29 inches at top, 18x19 inches at bottom, 10 inches deep at handles and 14 inches deep at wheel; 16 inch wheel with 1½x1¼ inch tire and ⅝ inch spokes; ⅝ inch axle $120 00

Shipped, K. D., trays ¼ dozen, frames ½ dozen and wheels ¼ dozen in a bundle; weight per dozen 720 lbs.

RAILROAD OR CANAL BARROWS

STEEL TRAY—BLUE RIBBON—

14 gauge solid steel tray with heavily wired edges, steel wheels and leg braces, hardwood frame full bolted; painted dark red. Tray 32½x33½ in.; depth at wheel 11 in.; depth at handle 7½ in.; diameter of wheels 16½ in.; with 1¼x⅝ inch steel tire, eight ½ inch round spokes. All bolts are ⅝ inch.

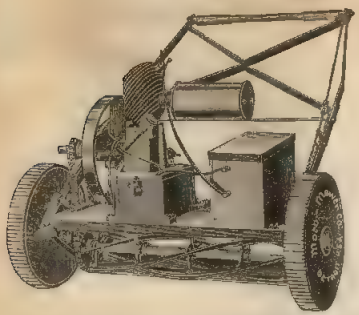
Each

No. 100BR—Capacity 3½ cubic ft.; wt. ea. 65 lbs ... $20 40

Half dozen in a bundle, K. D.

◆F. O. B. Tennessee Factory Only.

MOTO-MOWERS



For use in parks, cemeteries, public grounds and private places where lawn is too large for hand mower. Will do as much work as five men with hand mowers.

Machine is made from best materials throughout and nicely finished and painted. Cutting Reel has 5 crucible steel blades, carefully tempered and hardened. The motive power is furnished by a 1½ H. P. reversible engine, fully guaranteed. There are no gears or clutches on the moto-mower. The power from engine is transmitted direct to cutting reel through chains and sprockets. The friction driven rollers on the ends of the reel-shaft are brought gently into engagement with the flange on the inner sides of the wheels by simply rotating the handle bars. This permits the machine to be started or stopped without shock or jar and allows you to turn to right or left or stop instantly. The Moto-Mower is provided with automatic friction release between the motor and cutting reel.

If a stone, root or other object becomes caught in the machine, this device by automatically slipping, protects the blades against injury or possible breakages.

The Machine cuts as close to trees and other objects, as a hand mower. It can operate on any terrace or hillside on which a man can walk.

FRAME

Width of Cut, 27 inches.
Cut Adjustable, ½ to 3 inches.
Cutting Speed, 2 to 3 mi. per hr.
Cutting Capacity, 5 acres per day.
Climbs, 35 per cent grade.
Color, French grey, gold striping.
Blades, 5, crucible steel.

MOTOR

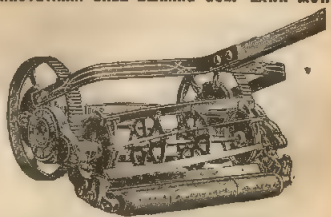
Single Cylinder, Air Cooled.

Gasoline Consumption per day, About 1 gallon.
Bore, 2½ inches.
Stroke, 2½ inches.
H. P. (A. E. S. rating), 1½.
Speed, 600 to 1200.
Ignition, Battery.

No. W124—24 in. cut, w't each 160 lbs. ....each $300.00
No. W127—27 in. cut, w't each 180 lbs. ....each 360.00

ONE IN A CASE

PENNSYLVANIA BALL BEARING GOLF LAWN MOWER



9½ in. drive wheels, seven crucible steel blades, self-sharpening raised edge dead knife, ball bearing, cylinder journal, 6½ in. cylinder, sectional iron roller, cuts ¾ to 1½ in. from ground. Especially adapted for golf links and tennis courts.

Nos.	E1217	E1219	E1221
Cut, in.	17	19	21
W't, lbs.	75	80	85
Each	$54.40	60 80	67 20

ONE IN A CASE

PUTTING GREEN MOWER

7 in. rollers, 5 in. six-blade cylinder, crucible steel blades; self sharpening raised edge dead knife; triple gears. The hardwood roller in front can be removed and mower supported on caster wheels if preferred. Cuts 3-16 to 1½ in. This mower is unexcelled for cutting undulating or wavy greens, also tennis courts, cricket creases and other lawns requiring an exceptionally close and smooth cut. It can also be used as a border trimmer for the ordinary lawn.

Nos.	E1316	E1318
Cut, in.	16	18
Weight, lbs.	85	94
Each	$51.20	57.60

ONE IN A CASE

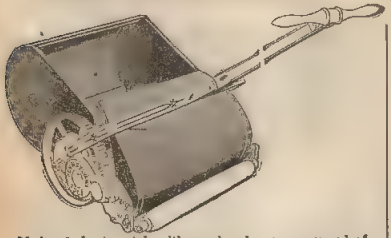
GRASS BOXES

Sheet metal with wood ends, for use on Pennsylvania Putting Green Mowers, easily attached and detached.

Nos.	E116	E118
Width, in.	16	18
Each	$11.70	12.00

LAWN MOWERS

GRASS BOXES FOR GOLF MOWERS



Made of sheet metal, with wood ends, are composed of two parts—the box proper and the shield or deflector, to deflect the grass forward into the box, for use only on Pennsylvania golf mowers, easily attached and detached.

Nos.	E217	E219	E221
Inches	17	19	21
W't, lbs.	32	33	34
Each	$11.70	12.00	12.20

ONE IN A BOX

CHAMPION PONY

No. E30—30 Inch Cut, 10 in. driving wheels, 6¼ in open cylinder, three tempered steel blades, high speed reel double drive, positive ratchet, very strong and neatly decorated, w't 120 lbs. ..... each $60.00

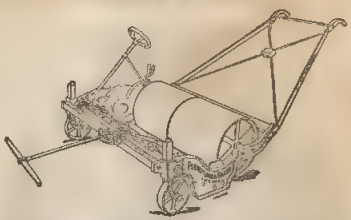
ONE IN A CASE

PENNSYLVANIA PONY OR TWO MAN

No. E25—25 In. Cut, large open cylinder, rear cut, 4 blades, Enos bed plate yielding bed knife, self-sharpening, shifting clutch for throwing out of gear, brass boxes, long bearings, complete with handle and draft irons, w't 158 lbs. ..... each $100.00

ONE IN A CASE

PENNSYLVANIA GRAND HORSE



Crucible tool steel blades, 7⅛ inch open cylinder, diameter of rollers 15 inches, with handles and draft irons.

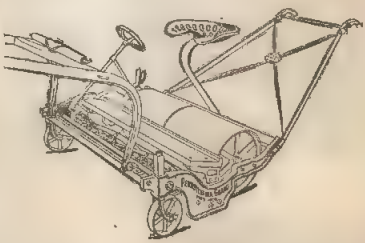
No. F101—Cut 30 in., 4 blades, w't 595 lbs., each★ $220.00

No. F102—Cut 30 in., 6 blades, w't 605 lbs., each★ $247.50

No. F104—Cut 38 in., 4 blades, w't 675 lbs., each★ $286.00

No. F105—Cut 38 in., 6 blades, w't 705 lbs., each★ $313.50

ONE IN A CASE



Crucible tool steel blades, 7⅛ in. open cylinder, diam. of roller 15 in., with seats, shafts and handles.

The wheel at the right of the driver's seat regulates the height of cut from ⅜ to 2½ in. The operator, without leaving his seat, can instantly change from low to high cut or an intermediate one.

No. F111—30 in cut, 4 blades, w't 635 lbs., each★ $264.00

No. F112—30 in. cut, 6 blades, w't 645 lbs., each★ $291.50

No. F114—38 in. cut, 4 blades, w't 720 lbs., each★ $330.00

No. F115—38 in. cut, 6 blades, w't 750 lbs., each★ $237.50

ONE IN A CASE

★ Items Marked Thus ★ Are Shipped From Factory Only.

GRASS COLLECTORS

Galvanized steel bottom, octagonal back, heavy duck sides, new improved handle, front flange and hook brackets.

The special feature of above grass catchers is that they can be lifted off, free from the mower, can be raised or lowered, made wider or narrower, and when once fitted need no further attention. Guaranteed to give entire satisfaction

Full Half Dozen Bundles.

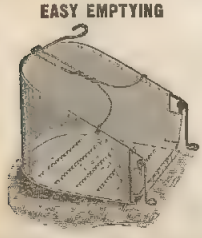
Nos.	EE8	EE10
For mowers, in.	12 to 18	16 to 22
Depth, in.	20	22
Width, in.	18	22
W't, doz., lbs.	54	62
Per dozen	$32.00	35 60

Less Than Half Dozen.

Nos.	E8	E10
Per dozen	$32.00	35.60

HALF DOZEN IN A BURLAP BUNDLE

EASY EMPTYING



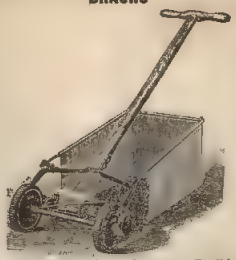
Galvanized steel bottom, round back, heavy duck sides, new improved handle, front flange and hook brackets.

The special feature of above grass catchers, is their construction, which allows of their being lifted off, free from the mower with one hand and emptied wherever desired. They can be readily adjusted to fit any size or make of lawn mower, by any one, in a few minutes. They can be raised or lowered, set forward or backward, made wider or narrower and when once fitted, need no further attention. Guaranteed to give entire satisfaction.

Nos.	E110	E112
For mowers, in.	12 to 18	16 to 22
Depth, in.	20	22
Width, in.	18	22
W't, doz., lbs.	50	68
Per dozen	$29 50	36.80

HALF DOZEN IN A CASE

BRAUNS

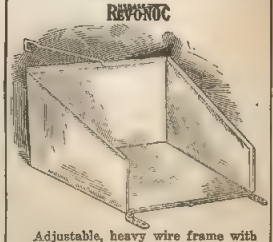


Galvanized iron bottom, flexible canvas sides, supported on truss rods, for high wheel mowers.

Supported on truss rods which gives strength and firmness, and permit its being folded flat; can be attached or detached in a moment with one motion; can be dumped forward without detaching. The bottom will not sag nor drag on the ground when filled.

Nos.	E16	E17
Width, in.	15	17
W't, lbs.	6	6¾
Per dozen	$72 00	75 60
Nos.	E19	E21
Width, in.	19	21
W't, lbs.	7	7
Per dozen	$80 00	88.00

HALF DOZEN IN A CRATE



Adjustable, heavy wire frame with three stay wires on under side, blue and white canvas bag.

Full Dozen Cases.

Nos.	EE1	EE2
For mowers, in.	12 to 16	18 to 21
Front, height, in.	8	8¾
Back, height, in.	13	13
Width, in	18	23¾
W't, doz, lbs.	18¾	21¾
Per dozen	$14.00	15 60

Less Than Dozen.

Nos.	E1	E2
Per dozen	$14.00	15.60

ONE DOZEN IN A CASE

CRUSO

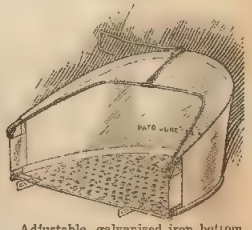
Height in front 5 in., in back 9 in., width 18 in., adjustable for 12 to 16 in. mowers, heavy wire frame with one stay wire on under side, blue and white canvas bag.

No. EE3—Full dozen cases, per dozen $12.00

No. E3—Less than dozen, per dozen $12.00

ONE DOZEN IN A CASE, W'T PER DOZ. 14 LBS.

CRUSO



Adjustable, galvanized iron bottom, good quality duck, easily detached from mower for emptying.

Full Case Lots.

Nos.	EE16	EE18
For mowers, in.	12 to 16	16 to 21
W't, doz., lbs	40	50
Per dozen	$19.20	21.00

Less Than Case.

Nos.	E16	E18
Per dozen	$19.20	21.00

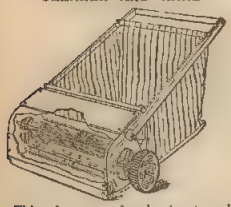
NO. E16—ONE DOZEN IN A CASE
NO. E18—HALF DOZEN IN A BUNDLE

EXTRA GRASS COLLECTOR HOOKS

Nos.	1H	2H	3H
For grass collectors...	E1	E2	E3
Per dozen pairs	$1 50	1.50	1 50
Nos.	16H	18H	
For grass collectors	E16	E18	
Per dozen	$1.50	1.50	

W'T PER DOZEN PAIRS ONE POUND

PENNSYLVANIA LAWN CLEANER AND RAKE



This cleaner and rake is strongly built, it has a revolving reel to which is fastened three rakes with short steel wire teeth, an adjustable roller in front for regulating height, a large canvas box for catching leaves and rubbish.

This machine will remove the cut grass, all sorts of leaves, litter and trash, its use has a beneficial result to the lawn as it raises up the low growing crab grass and other spreading weeds, so that the mower will cut them, thus preventing their going to seed. Very easy to operate, and with it one man will do as much work as three men with hand rakes.

Nos.	E24	E36
Sizes, in.	24	36
W't, each, lbs.	80	125
Each	$47.30	67.70

ONE IN A CRATE

LAWN TRIMMERS

For trimming around trees and walks where lawn mower cannot be used.

No. 2—Pierce Improved, malleable iron castings, shears of best quality steel, aluminum bronzed finish, 7 in. blade, ball bearing, 4 ft. handle, w't per doz. 75 lbs. ...per dozen **$40.00**

QUARTER DOZEN IN A BOX

LAWN TRIMMERS

This machine will cut within ½ of an inch of wall or tree trunk and mow any border wide enough to run one wheel on.

No. E4—Pennsylvania, crucible steel teeth in both cylinder and stationary blades, self-sharpening, 8 in. wheel, 6 in. blade, ball bearings with Pennsylvania adjustments, bronzed finish, nicely trimmed, hardwood handle with cross-bar, 3 blades, w't 27 lbs. .....each **$16.80**

ONE IN A BOX

PENNSYLVANIA UNDERCUT

No. E5—9½ in. wheel, cuts 5¼ in., four crucible steel blades, ball bearing, bronzed finish, nicely trimmed; hardwood handle with cross bar. The unique construction of the Undercut Trimmer with the slanting side plate and conical cylinder, permits cutting, not only close up to wall or fence, but it will cut the grass under a fence or rock cut base of tomb stones, house foundations, and other places hitherto out of reach of anything but hand shears; w't 32 lbs. .....each **18 00**

ONE IN A BOX

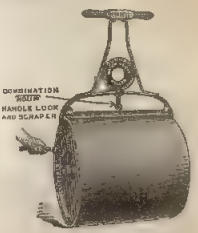
LAWN TRIMMERS

For trimming grass on edges next to walk. Leaves the walk neat and clean. Does not require a trench.

No. E6—Pines, 6 in. crucible steel polished blade, hardened and tempered, hard maple wood roller 2½×2 in., 42 in. wax finish ash handle, w't per doz. 42 lbs., per dozen **$24.00**

ONE IN A CASE

DUNHAM LAWN ROLLERS



Heavy Steel Plate Drum, Seams Electrically Welded; Outer Edges Rounded, Roller Bearings.

This style has patented "no tip" handle which locks the handle to the drum and holds it upright when not in use. All rollers have scrapers to remove dirt from rollers.

WATER WEIGHT

One Drum.

Nos.	W3B	W5B	W7B
W't, empty, lbs.	50	85	110
W't, filled with water, lbs.	200	310	500
Length, in.	20	24	24
Diam., in.	14	18	24
Each	$25.80	31.00	36.00

PONY WEIGHT

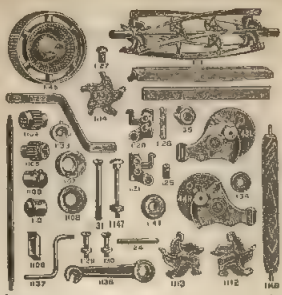
Two Drums.

No. W24—Drums each 35 in. wide, rolling surface 70¾ in., diam. 23¾ in., w't empty 372 lbs., w't filled with water 1405 lbs., w't filled with sand 2190 lbs. ..each **$140.00**

EXTRA PARTS FOR LAWN MOWERS

REPAIRS FOR [illegible] BARTLETT B. B. MOWERS

No. 43L—L. H. Side Plate, each $4.00
No. 44R—R. H. Side Plate, each $4.00
No. 1145—Drive Wheel, R. & L. H., each $3.00
No. 1104—Pinion, L. H., each $0.50
No. 1105—Pinion, R. H., each $0.50
No. 1106—Pawl ..... each $0.10
No. 1349—Ball Cup ..... each $0.60
No. 1350—Dust Cup ..... each $0.20
No. 1109—L. H. Cone ..... each $0.80
No. 1110—R. H. Cone ..... each $0.80
No. 1116—15 in. Cast Back for Stationary Knife ..... each $2.00
No. 1116—17 in. Cast Back for Stationary Knife ..... each $2.40
No. 1116—19 in. Cast Back for Stationary Knife ..... each $2.60
No. 1116—21 in. Cast Back for Stationary Knife ..... each $2.80
No. 1313—15 in. Steel Blade for Stationary Knife ..... each $1.50
No. 1313—17 in. Steel Blade for Stationary Knife ..... each $1.70
No. 1313—19 in. Steel Blade for Stationary knife ..... each $1.90
No. 1313—21 in. Steel Blade for Stationary knife ..... each $2.10
No. 1321—15 in. Wood Roller, each $1.00
No. 1321—17 in. Wood Roller, each $1.10
No. 1321—19 in. Wood Roller, each $1.20
No. 1321—21 in. Wood Roller, each $1.30
No. 118—L. H. Bracket Roller, each $0.30
No. 119—R. H. Bracket Roller, each $0.30
No. 1124—Steel Pin for Cone, each $0.10
No. 1125—Set Screw for Cone, each $0.10
No. 127—Set Screw for regulating Cast Back ..... each $0.10
No. 126—Set Screw for Stationary Knife Blade ..... each $0.10
No. 29—Bolt for Cast Back, each $0.10
No. 723—Bolt for Wheel Bearing, each $0.20
No. 1338—Washer for Wheel Bearing, each $0.10
No. 1133—Washer for Cast Back, each $0.10
No. 136—Nut for End Shaft, each $0.10
No. 1036A—Wrench ..... each $0.40
No. 1344—Sharpening Crank, each $0.20
No. 1351—Balls ..... per set $0.60
No. 137—Roller Pin, each $0.15
No. 1146—Washer for Wheel, each $0.10
No. 1147—Bolt for Wheel, each $0.20
Wood Handle ..... each $1.50



REPAIRS FOR [illegible] LAWN MOWERS

No. 56H or 560—Wheel, each $2.00
No. 655H or 65H—Side Plate, R. H. each $2.00
No. 666M or 66H—Side Plate, L. H., each $2.00
No. 15C—Pinion, R. H., each $0.25
No. 16C—Pinion, L. H., each $0.25
No. 614A or 614B—Cutter Bar complete $2.00
No. 615A or 615B—Cutter Bar complete $2.00
No. 618A or 618B—Cutter Bar complete $2.00
No. 620A or 620B—Cutter Bar complete $2.00
No. 10—Set Screw for regulating Cutter Bar ..... each $0.05
Flat Pawl, both alike, each $0.10
Wood Roller, all sizes, each $0.50
Wood Handle ..... each $1.60

REPAIRS FOR IL-A-NOY AND CRUSO LAWN MOWERS

No. 34 or 340—Wheel, each $1.60
No. 41 or 411—Side Plate, R. H., each $2.00
No. 42 or 422—Side Plate, L. H., each $2.00
No. 3—Pinion Cap ..... each $0.30
No. 5B—Pinion, R. H., each $0.25
No. 6B—Pinion, L. H., each $0.25
No. 614A or 614B—Cutter Bar complete $2.00
No. 616A or 616B—Cutter Bar complete $2.00
No. 618A or 618B—Cutter Bar complete $2.00
No. 620A or 620B—Cutter Bar complete $2.00

REPAIRS FOR IL-A-NOY AND CRUSO LAWN MOWERS. Continued—

Wheel Washer ..... each $0.10
Metallic Sleeve ..... each $0.30
No. 10—Set Screw for regulating Cutter Bar ..... each $0.05
Flat Pawls, both alike, each $0.10
Wood Roller, all sizes, each $0.50
Wood Handle ..... each $1.60

REPAIRS FOR SUBURB AND GLENCOE LAWN MOWERS

No. 34 or 340—Wheel, each $2.00
No. 31 or 311—Side Plate, R. H., each $1.60
No. 32 or 322—Side Plate, L. H. each $1.60
No. 3—Pinion Cap, ... each $0.15
No. 5B—Pinion, R. H., each $0.25
No. 6B—Pinion, L. H., each $0.25
No. 514A or 514B—Cutter Bar complete, Glencoe only, each $2.00
No. 516A or 516B—Cutter Bar complete, Glencoe only, each $2.00
No. 518A or 518B—Cutter Bar complete, Glencoe only, each $2.00
No. 614A or 614B—Cutter Bar complete, Suburb only, each $2.00
No. 616A or 616B—Cutter Bar complete, Suburb only, each $2.00
No. 618A or 618B—Cutter Bar complete, Suburb only, each $2.00
No. 10—Set Screw for regulating Cutter Bar ..... each $0.05
Flat Pawls, both alike, each $0.10
Wood Roller, all sizes, each $0.50
Wood Handle ..... each $1.60

REPAIRS FOR NEW DRUMMER

No. 20—Drive Wheel, each $1.60
No. 11 or 111—Side Plate, R. H., each $1.60
No. 12 or 122—Side Plate, L. H., each $2.25
No. 5B—Pinion, R. H. each $0.25
No. 6B—Pinion, L. H., each $0.25
No. 512A or 512B—Cutter Bar complete $2.00
No. 514A or 514B—Cutter Bar complete $2.00
No. 516A or 516B—Cutter Bar complete $2.00
No. 518A or 518B—Cutter Bar complete $2.00
Flat Pawls, both alike, each $0.10
Wood Rollers, all sizes, each $0.50
Wood Handle ..... each $1.60

Telegrams: "OLDHAMS, DENTON, MANCHESTER"
Telephone: 121 DENTON (Two Lines PRIVATE EXCHANGE)

Maison fondée en 1865. **Established 1865.** Casa Fundada en 1865.

Contractors to Admiralty, M. of M., War Office H.M. Office of Works, Railways, Colonial Governments, etc.

OLDHAM & SON

ELECTRICAL & MECHANICAL ENGINEERS.

Ingenieros Eléctricos y Mecánicos

Codes: Liebert's & Lieber's A.B.C. 5th Edition

DENTON Manchester, England.

Le Type "H" "Oldham"

Lampe approuvée pour exemption par le Ministère de l'Intérieur

The "OLDHAM" Type "H"

FIRST ON HOME OFFICE PERMITTED LIST.

La "Oldham" Tipo "H"

Miners' Patent Electric Safety Lamp as supplied to the most important British Colliery Companies

Largest makers of Electric Safety Lamps in the United Kingdom, various Collieries having installations of 5,000, 10,000, and 12,000 "Oldham" Lamps in Daily Use. Steel Construction throughout, with patent non-spilling accumulator, to give continuous 1 candle-power light for 10 hours. The Oldham Patent S.H. type Lamps can be worn on the hat, the accumulator being carried in separate case at the waist.

Lampe de sureté électrique brevetée pour mineurs, telle que nous la fournissons aux plus importantes Compagnies houillères de la Grande Bretagne

Les plus importants fabricants de lampes de sûreté électriques du Royaume Uni. Cent des lampes "Oldham" sont en service journalier par 5.000, 10.000 et 12.000 dans diverses exploitations houillères. Fabriquées entièrement en acier, avec accumulateurs ne coulant pas [illegible] Eclairement de pénétrant donnant continu de 1 bougie pendant 10 heures. La lampe Oldham [illegible] type S H, peut être portée sur la tête, l'accumulateur dans son étui étant attaché à la ceinture

Lámpara eléctrica de seguridad para Mineros igual á las que se suministran á las más importantes Compañías Carboníferas del Inglaterra. [illegible] seguridad. En varias Minas de Carbón en este país hay instalaciones de 5000, 10000 y hasta de 12000 Lámparas Oldham en uso diario. Se construyen de acero en todas sus partes con acumulador privilegiado que no se derrama, y dan una luz contínua de 1 bujia de intensidad durante un periodo de 10 horas. La lámpara Oldham patentada tipo S H puede llevarse en el sombrero, y el acumulador en su caja va sujetado al cinturón.

OUR PATENT

LAMP ROOM EQUIPMENT

enables large installations of lamps to be rapidly handled with unskilled labour.

ILLUSTRATED CATALOGUE on application.

Notre équipement breveté pour chambre à lampes facilite le maniement rapide des grandes installations de lampes par des ouvriers sans expérience

Catalogue illustré sur demande

Nuestro Equipo con privilegio de invención para salas de Lámparas permite que precisamente muchas [illegible] rápidamente y por obreros inexpertos instalaciones grandes

Nos será grato enviar nuestro Catálogo Ilustrado.

(OA)

REMOVABLE BOTTOM. HALF-TURN SWITCHES LIGHT ON OR OFF.

Fond démontable. Un demi-tour sert à allumer ou éteindre. | Base removible. Media vuelta enciende ó apaga la luz.

SILVERTOWN

Primary Batteries of all Types.

Batteries primaires de tous types. Baterías primarias de todos los tipos.

Used by the British Government and its Colonial Administrations, by most British Collieries, and by the principal Railway, Telegraph and Telephone services throughout the world.

Employées par le Gouvernement anglais et ses administrations coloniales, par la plupart des houillères anglaises et par les principales compagnies de chemins de fer et les services de telégraphes et téléphones dans le monde entier

Empleadas por el Gobierno británico y sus Administraciones coloniales, por la mayor parte de las hulleras inglesas y compañías ferroviarias principales, Compañías de telegrafos y teléfonos por todo el mundo.

(AC)
Silvertown Leclanché Cell. Porous Pot form.
Pile Leclanché poreuse "Silvertown" forme vase
Pila Leclanché porosa "Silvertown," forma vaso.

We introduced Leclanché Cells into Great Britain 50 years ago. You get the benefit of this long experience in every Silvertown Cell you use. Please write for List No. 31

Nous introduisîmes les piles Leclanché en Grande-Bretagne il y a 50 ans. Vous profitez de cette longue expérience dans toute pile "Silvertown" que vous employez. Nous vous prions de nous écrire pour recevoir notre liste No. 31

Nosotros introducimos las pilas Leclanché en la Gran Bretaña hace 50 años. Usted goza de la ventaja de nuestra vasta experiencia en cada pila "Silvertown" que use. Pida la lista No. 31

(EF)
Silvertown Dry Cell.
Pile sèche "Silvertown"
Pila seca "Silvertown"

(IB
Silvertown Leclanché Cell No. 666. Agglomerate 6-block form.
Pile Leclanché "Silvertown" No. 666, au peroxyde de manganèse aggloméré, 6 blocs
Pila Leclanché "Silvertown" No. 666, Forma de briquetas de manganeso (6 briquetas)

Other types of Primary Batteries made at Silvertown include Daniell-Bichromate, Bunsen Minotts and Grove, Dry and Inert Cells, all in the usual standard sizes

Autres types fabriqués à Silvertown comprennent les piles sèches et Daniell au bichromate, Bunsen Minotts et Grove inertes dans les dimensions courantes habituelles.

Los otros tipos de pilas fabricadas en "Silvertown" incluyen las Daniell Bichromato, Bunsen Minotts y Grove, pilas secas y inertes, todas en tamaños usuales

The India Rubber, Gutta Percha & Telegraph Works Co., Ltd.
(The Silvertown Company.)
Head Offices: 106, Cannon St., London, E.C. 4.
Works and Usines: Silvertown, London, E. 16.
ADELAIDE

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Téléphone 121 Denton 2 lignes

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Telefono 121 Denton 2 líneas

Maison fondée en 1865 Established **1865.** Casa fundada en 1865

OLDHAM & SON

Ingénieurs électriciens et mécaniques. **ELECTRICAL & MECHANICAL ENGINEERS.** Ingenieros Eléctricos y Mecánicos,

Codes: Lieber's 5 Letter), A.B.C. (5th Edition

DENTON Manchester England.

Contractors to Admiralty, M. of M., War Office, H.M. Office of Works, Railways, Colonial Governments, etc.

Fournisseurs du Ministère de la Marine des Munitions de la Guerre, des Travaux Publics, des Chemins de fer, des Gouvernements Coloniaux etc

Contratistas del Almirantazgo, del Ministerio de Municiones, el Ministerio de la Guerra, de Obras Públicas, de Ferrocarriles, de los Gobiernos Coloniales, etc.

The "OLDHAM" Type "L.E."

Le Type "L.E." Oldham.

La "Oldham" Tipo "L.E."

Patent Electric Safety Hand Lamp, as supplied to

BRITISH ADMIRALTY, MINES, RAILWAYS, etc., etc.

SPECIAL ELECTRIC HAND LAMPS for all purposes.

PATENT OIL LAMPS for Colliery Officials.

Steel Construction, with patent non-spilling accumulator, to give continuous forward light of 25 to 30-candle power for 10 hours.

The Oldham Patent S.H. type lamp can be worn on the hat, the accumulator being carried in separate case at the waist.

Lampe à main de sûreté électrique, brevetée, telle que nous la fournissons au Ministère de la Marine anglaise, aux Mines, aux Chemins de fer, etc., etc

Construction en acier, avec accumulateur ne coulant pas, breveté donne sur le devant une lumière continue de 25 à 30 bougies pendant 10 heures

La lampe Oldham brevetée type S.H., peut être portée sur la casquette, l'accumulateur dans son étui étant attaché à la ceinture

Lámpara manual eléctrica de seguridad con privilegio de invención, igual á las que se suministran al Almirantazgo, Minas, Compañías ferroviarias, etc., etc., en Inglaterra

Se componen de acero con acumulador privilegiado que no se derrama dando una luz continua hacia adelante de 25 á 30 bujías de intensidad durante 10 horas

La lámpara Oldham patentada, tipo S.H., puede llevarse en el sombrero y el acumulador en su caja va sujetado al cinturón.

MINING AND ELECTRICAL ACCESSORIES.

GENERATORS,
SWITCHBOARDS,
etc.

Lampes à main électriques spéciales pour tous usages

Lampes à huile brevetés pour employés des houilleres

Accessoires de mineurs et électriques

Generateurs, Tableaux de distribution, etc

Lámparas especiales eléctricas para todos los usos

Lámparas de Aceite con Privilegio de Invención para Capataces de Minas de Carbón

Accesorios Mineros y Eléctricos.

Generadores Cuadros de Distribución, etc.

(EF)

ALSO GRAVITY INCLINE BRAKE PULLEYS. *A aussi des Poulies à frein pour rampe* *Sur demande nous enverrons notre catalogue illustré.*

ILLUSTRATED CATALOGUE ON APPLICATION Poleas de Freno para Plano inclinado Nos será grato enviar nuestro Catálogo ilustrado.

OLDHAM & SON,

Telegrams / Telegrammes / Telegramas: "Oldhams, Denton, Manchester."

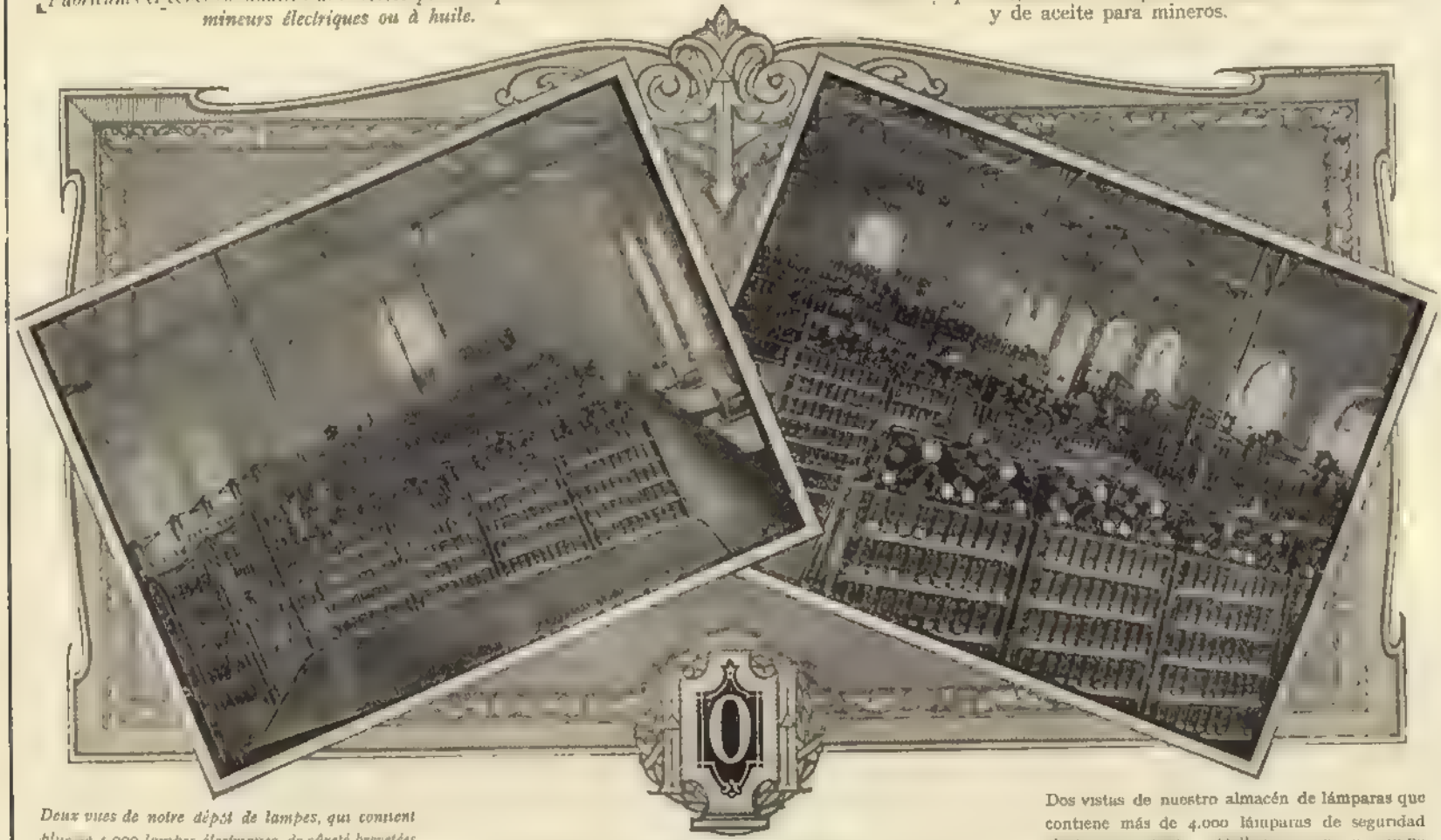
DENTON, nr. MANCHESTER.

Codes / Códigos: A B C 5th Edition, Lieber's 5 letters.

MAKERS & PATENTEES OF MINERS' ELECTRIC & OIL SAFETY LAMPS.

Fabricants et concessionnaires des brevets pour lampes de sûreté mineurs électriques ou à huile.

Fabricantes y privilegiados de lámparas de seguridad electricas y de aceite para mineros.



Deux vues de notre dépôt de lampes, qui contient plus de 4 000 lampes électriques de sûreté brevetées "Oldham," avec leurs accessoires

Voir les pages précédentes et suivantes pour différents modèles de lampes de sûreté, électriques ou à huile.

Two views of Lamp Room containing over 4,000 Oldham Patent Electric Safety Lamps with Equipment.

See preceding and following pages for various types of Electric and Oil Safety Lamps.

Dos vistas de nuestro almacén de lámparas que contiene más de 4.000 lámparas de seguridad eléctricas [illegible] Oldham con su equipo correspondiente.

Para detalles de los varios tipos de lámparas de seguridad eléctricas y de aceite, véanse las páginas precedentes y siguientes.

Telegrams
"OLDHAMS, DENTON MANCHESTER"

Telephone
121 DENTON, Two Lines' PRIVATE EXCHANGE

Télégrammes: "Oldhams, Denton, Manchester"

Téléphone: 121 Denton (2 lignes)

Telegramas: "Oldhams, Denton, Manchester"

Teléfono: 121 Denton (2 líneas)

Maison fondée en 1865. Established **1865.** Casa fundada en 1865

OLDHAM & SON,

Ingénieurs électriciens et mécaniciens **ELECTRICAL & MECHANICAL ENGINEERS.** Ingenieros Electricos y Mecánicos.

Codes: Liebe's 45 letter, A.B.C. 15th Edition

DENTON, Manchester, England.

Also at London, Paris and Calcutta.

Également à Londres, Paris et Calcutta También á Londres, Paris y Calcuta.

Contractors to Admiralty, M. of M., War Office, H.M. Office of Works, Railways, Colonial Governments, etc.

Fournisseurs de l'Amirauté, de la Marine, du Ministère des Travaux Publics, du Ministère des Munitions, du Ministère de la Guerre, des Chemins de Fer, des Gouvernements Coloniaux, etc.

Contratistas del Almirantazgo, del Ministerio de Municiones, del Ministerio de la Guerra, del Departamento de Obras Públicas, de Ferrocarriles de los Gobiernos Coloniales, etc.

"OLDHAM" Patent Safety Oil Lamp.

HOME OFFICE APPROVED TYPE.

The new "Oldham" Oil Safety Lamp has just been introduced, after exhaustive practical colliery tests by Mining Engineers against our own and other makes of single and double glass type oil lamps.

Embodies absolutely new principle of AIR FEED ARRANGEMENT, enabling a tested 2-candle power light to be maintained for 9 to 10 hours continuously WITHOUT EXCESSIVE HEATING.

Specially adapted for ACCURATE GAS TESTING. Contains two full-size inner gauzes. Lamp cannot be fitted together WITHOUT GAUZES.

Inner glasses liable to breakage and smoking up ENTIRELY ELIMINATED.

Special WICK ADJUSTING arrangement. Lamp fitted with either LEAD PLUG or MAGNETIC LOCK.

Embodies maximum features of SAFETY and FREEDOM FROM SHADOWS by reason of inner glasses and supports being dispensed with.

Handled with MINIMUM OF UNSKILLED LABOUR and maintenance costs.

WEIGHT: 3½ lbs.

DIMENSIONS: 11 in. long; 3½ in. diameter.

ADAPTED for use with Mineral, Colza Oil or Spirit.

Complete Lamp Room Equipment for the RAPID, EFFICIENT AND ECONOMICAL handling of large installations, either OIL or ELECTRIC.

For details of "OLDHAM" Patent Electric Safety Lamps see preceding pages.

LAMPE DE SÛRETÉ BREVETÉE "OLDHAM" A HUILE (PÉTROLE)

Modèle approuvé par le Ministère de l'Intérieur.

La lampe Oldham vient d'être mise en vente [illegible] spécialement avec [illegible] pour les [illegible] et [illegible] inférieur de la [illegible].

Cette lampe est [illegible] sur un [illegible] brûleur [illegible] d'un pouvoir éclairant de [illegible] pendant 9 ou 10 heures continuelles sans chauffer [illegible].

Elle s'adapte spécialement aux épreuves de gaz [illegible] et [illegible] leurs enveloppes intérieures en [illegible] [illegible] peut être montée sans [illegible].

Les verres intérieurs, susceptibles d'être cassés et [illegible] entièrement remédiés.

Dispositif spécial pour ajustage de la mèche.

La lampe est munie d'un bouchon en plomb ou serrure magnétique.

Elle donne un maximum de sécurité et ne projette pas [illegible] d'application [illegible] et de [illegible].

Manipulée par un minimum de main-d'œuvre inexpérimentée [illegible].

POIDS: 1,590 k

DIMENSIONS Longueur, 28 cm., Diamètre, 83 mm

POUR USAGE avec Huile Minérale, Colza ou Alcool

Equipement complet de magasins aux lampes permettant un travail rapide, efficace et économe dans les grandes installations, soit au pétrole, soit à l'électricité

Pour détails concernant les lampes de sûreté électriques brevetées "Oldham" voir les pages précédentes

LÁMPARA DE SEGURIDAD DE ACEITE "OLDHAM" (PATENTADA).

Tipo aprobado por el Ministerio del Interior

[illegible] lámpara de seguridad de aceite "Oldham" [illegible] después de pruebas minuciosas y prácticas verificadas en las minas por ingenieros, competir con nuestras y otras marcas provistas de tubos de [illegible].

Se incorpora un sistema completamente [illegible] alimentación de aire, mediante el cual una [illegible] de 2 bujías puede mantenerse por 9 á 10 horas sin [illegible].

Especialmente [illegible] para pruebas exactas de gas. Contiene dos tubos interiores de tela metálica [illegible] tamaño. La lámpara no se puede armar [illegible] estos tubos.

Tubos de vidrio interiores, tan expuestos á rotura [illegible].

[illegible]

[illegible]

[illegible]

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Codes: Lieber's (5 letter), A.B.C. (5th Edition), Clave

DENTON, Manchester, England.

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Contractors to Admiralty, M. of M., War Office, H.M. Office of Works, Railways, Colonial Governments, etc.

Fournisseurs des Ministères de la Marine et de la Guerre, du Ministère des Munitions du Ministère des Travaux Publics, des Compagnies de Chemins de fer, des Gouvernements Coloniaux, etc.

Contratistas de la Armada, Ministerio de Municiones, Ministerio de la Guerra, del Departamento de Obras Públicas, de Ferrocarriles de los Gobiernos Coloniales, etc.

THE "OLDHAM" PATENT GRAVITY INCLINE BRAKE PULLEY.

As supplied to more than 400 BRITISH Colliery Firms alone. In use in ALL MINING COUNTRIES. Extremely powerful brake; can be applied in an EASY AND GRADUAL MANNER and enables tubs to be stopped at any time in any part of the incline without shock or liability to derailment.

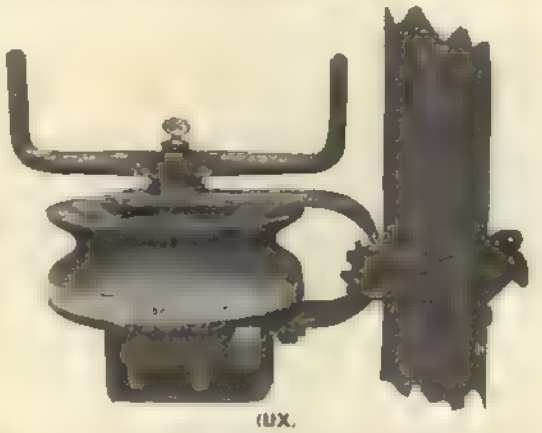
NO FRAME necessary, only one prop required for fixing.
Suitable for CHAIN or FLEXIBLE WIRE ROPE.
PORTABLE. CERTAIN IN ACTION.
Made in VARIOUS SIZES from 12 in. up to 54 in. diameter at bottom of groove. 12 in. pulley will handle a gross load of about ONE TON on a gradient of ONE IN THREE. LARGER SIZES IN PROPORTION.

POULIE FREIN À POUR PLANS INCLINÉS (BREVET "OLDHAM").

Cette poulie à été fournie à plus de 400 Cies. de Mines de Charbon britanniques. Elle est en usage dans
C'est un frein extrêmement puissant dont la mise en action est aisée et graduelle. Il
à n'importe quel moment et sur n'importe quel point de la déclivité sans choc
ou
Aucun cadre n'est nécessaire à l'exception d'un pilier rigid pour le fixage
Convient également bien pour chaînes ou câbles flexibles. Portatif et d'une grande efficacité
Se fait en plusieurs grandeurs depuis 30 cm. jusqu'à 1,30 m. de diamètre au fond de la rainure de la poulie
Une poulie de 30 cm. peut servir pour une charge brut de une tonne environ sur une pente de 1 sur 3 de déclivité.

POLEA DE FRENO "OLDHAM" PARA PLANOS INCLINADOS PATENTADO.

Esta polea está en uso en 400 minas de carbón Británicas, y actualmente se emplea en todos
países mineros. Constituye un freno muy fuerte: se puede apretar de una manera suave y permite parar
los cubos á cualquier momento y en cualquier parte del plano inclinado sin ningún choque, y sin
exponerlos á la posibilidad de descarrilamiento.
No hay necesidad de armadura sino de un poste solamente
Adecuado para cadena ó cuerda de alambre flexible. Portátil: acción positiva
Fabricado en varios tamaños desde 30 cm. hasta 1,30 m. de diámetro al fondo de
Mediante una polea de 30 cm. se puede manejar un peso bruto de una tonelada m.ó.m. sobre un
de 1 en 3. Tamaños mayores en proporción.



(UX.

"OLDHAM" PATENT STEAM DRYER

FOR HORIZONTAL OR VERTICAL RANGES OF STEAM PIPES.

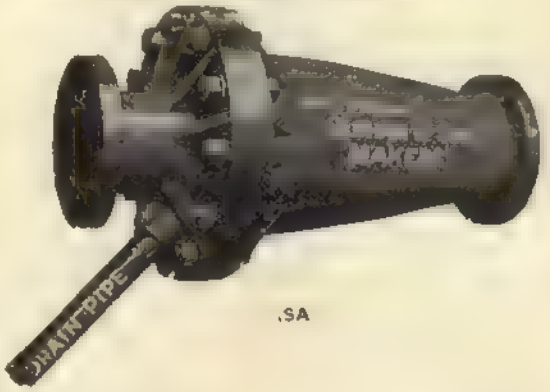
NO INTERNAL FITTINGS to interfere with flow of steam. Our principle ensures water being SEPARATED and EXTRACTED, not *mixed* with steam.
No parts to adjust or liable to get out of order.
Two firms alone have OVER FIFTY in use, ranging from 2 in. up to 13 in.
Occupies practically no more space than ordinary diameter of pipe.

PURGEUR AUTOMATIQUE D'EAU DE CONDENSATION BREVET "OLDHAM"

Pour tuyautages de vapeur horizontaux ou verticaux

Aucun dispositif intérieur ne peut entraver le passage de la vapeur. Notre système permet de séparer
complètement l'eau de la vapeur et non de la mêler avec la vapeur. Cet appareil ne contient aucune partie à
se déranger.
Ces appareils, exigences de grandeurs variant de 5 cm. jusqu'à 33 cm. ont été mis en usage dans deux
Ils n'occupent pour ainsi dire pas une plus grande place que le diamètre du tuyau

EL COLECTOR DE AGUA DE CONDENSACION "OLDHAM" (PATENTADO
Para tuberías de vapor horizontales
No hay piezas internas que impidan el choque libre de vapor nuestro principio asegura la separación
y extracción de
No hay que ajustar ninguna pieza, ni hay piezas expuestas á desarreglo
desde 5 cm. hasta 33 cm.
y por



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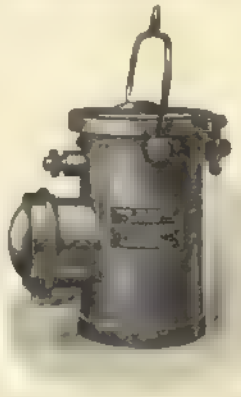


PE

PATENT ELECTRIC AND OIL SAFETY LAMPS for all purposes, and complete LAMP ROOM EQUIPMENT.

See preceding pages.

See also Hardware, Motor and Aircraft Series in "British Standard Exporter."

LAMPES DE SÛRETÉ ÉLECTRIQUES ET À PÉTROLE BREVETÉES POUR TOUS USAGES.
ÉQUIPEMENT COMPLET POUR LAMPISTERIES
Voir les pages précédentes
Voir aussi les séries Quincaillerie, Automobiles et Aéroplanes dans le "British Standard Exporter"

LAMPARAS DE SEGURIDAD ELECTRICAS Y DE ACEITE PATENTADAS ADECUADAS PARA TODOS PROPOSITOS, Y TAMBIEN EQUIPO COMPLETO PARA ALMACENES DE LAMPARAS
Véanse las páginas precedentes
Véanse también las series de Quincallería, Automóviles y Aeroplanos en el "British Standard Exporter."

SAW SWAGES

CONQUERER

Swage, jumper or upset, polished steel, carefully hardened and tempered, with blued polished extra steel band, length 4¾ in., w't 8 oz.

No. 1—For large circular saws, each $8.30

No. 2—For small circular saws and mill saws .....each $6.70

ONE IN A BOX

CROSS CUT SAW HANDLES

No. 122—Disston's, 8 in. long neck, heavy malleable iron cap, tapped for loop rod, which extends through handle insuring firm grip on saw, nicely finished, w't per doz. prs. 30 lbs. ....per dozen pairs $15.80

LOOSE

No. 010. No. 6.

Malleable Loop, Short Malleable Ferrule.

No. 010—9½ in., plain handle, w't per doz. prs. 15 lbs., per dozen pairs $7.20

No. 6—ATKINS, 10 in., varnished hand'e, w't per doz. prs. 15 lbs., per dozen pairs $8.00

LOOSE

CROSS CUT SAW HANDLES

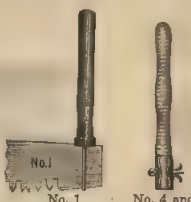
No. 8. No. 3.

ATKINS

No. 8—10 in., malleable loop, extra heavy long malleable ferrule, varnished handle, w't per dozen prs. 27 lbs. .....per dozen pairs $9.60

No. 3—10 in., heavy malleable loop, long malleable ferrule, varnished handle, w't per doz. prs. 21 lbs., per dozen pairs $10.80

LOOSE



No. 1 No. 4 and 22

No. 1—Atkins, 10 in., wrought loop, extra heavy long malleable ferrule, varnished handle, w't per doz. prs. 25 lbs. .....per dozen pairs $10.00

No. 4—Climax, 14 in., reversible, plain handle, w't per doz. prs. 21 lbs., per dozen pairs $8.00

No. 22—Atkins, 14 in., long heavy malleable castings, large steel bolt, wing nut, w't per doz. 25 lbs., per dozen pairs $12 00

LOOSE

No. 5—14 in., malleable loop and arm, plain handle, w't per doz. prs. 30 lbs., per dozen pairs $12.60

LOOSE

CROSS CUT SAW HANDLES

No. 111. No. 108.

No. 111—Atkins, 15 in., malleable clasp, metal parts tinned, fancy polished, w't per doz. prs. 33 lbs., per dozen pairs $10.00

No. 108—Atkins, 12½ in., metal parts tinned, polished handle, w't per doz. prs. 33 lbs., per dozen pairs $10.80

LOOSE

No. 17—14 in., reversible, malleable loop and arm, plain handle, w't per doz. prs. 30 lbs., per dozen pairs $14 40

LOOSE

One-man beechwood, for Ajax, Disston's or Atkins saws, w't per doz. about 7½ lbs.

No. 10—3 screw holes, per dozen $6.90

No. 13—Without screw holes, per dozen $5.90

No. 11—4 screw holes, per dozen $5.90

LOOSE

No. 12—One-man supplementary, malleable ferrule and clamp, length 6 in., w't per doz. 4 lbs., per dozen $4.00

LOOSE

ONE-MAN SAWS

CHAMPION TOOTH

[illegible], spring steel, patent ground and tempered, polished, extra wide blade, nickel plated screws, with supplementary handle.

The foundation of these saws is a special process steel, carefully inspected and tested in order to insure uniformity. Great care has been given to hardening and tempering to secure the proper degree of hardness and toughness.

No. E220 [illegible]—Feet.	2½	3	3½	4	4½	5
Width at butt, in.	7⅛	7⅛	7⅛	7⅛	7⅛	8
W't, lbs.	2½	3½	4½	5	6½	7½
Each	$4.00	4.70	5.40	6.10	6.90	7.70

QUARTER DOZEN IN A BUNDLE

[illegible], cast steel, polished, with supplementary handle.

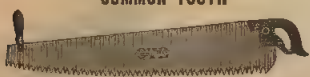
No. E21 [illegible]—Feet.	2½	3	3½	4	4½	5
Width at butt, in.	6	6⅛	6⅛	6⅛	6⅛	7
W't, lbs.	3	3½	4	5½	6	6½
Each	$3.30	4.00	4.60	5.30	6.00	6.70

QUARTER DOZEN IN A BUNDLE

No. E23—Disston's—Ft.	2½	3	3½	4	4½	5
Width at butt, in.	6⅛	6⅛	7	7⅛	7⅛	7⅛
W't, lbs.	3	3½	4	5½	6	6½
Each	$3.70	4.50	5.20	6.00	6.70	7.40

QUARTER DOZEN IN A BUNDLE

COMMON TOOTH

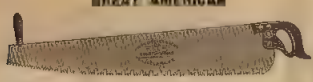


[illegible], spring steel, patent ground and tempered, polished, extra wide blade, nickel plated screws, with supplementary handle.

No. E230 [illegible]—Feet	3½	4	4½
Width at butt, in.	7	7⅛	7⅛
W't, lbs.	4½	5	6½
Each	$5.40	6.20	7.00

QUARTER DOZEN IN A BUNDLE

GREAT AMERICAN



DISSTONS, cast steel, polished, with supplementary handle.

No. E25—Feet	3	3½	4	4½	5
Width at butt, in.	7⅞	7⅞	7⅞	7⅞	7⅞
W't, lbs.	3	4½	5½	6	7½
Each	$4.80	5.40	6.20	7.00	7.80

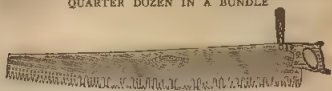
QUARTER DOZEN IN A BUNDLE

PERFORATED LANCE TOOTH

DISSTON'S CEDAR SAVAGE, spring steel, polished, with supplementary handle.

No. E410—Feet	3½	4	4½
Width at butt, in.	7⅛	7⅛	7⅛
W't, lbs.	4½	5½	6½
Each	$6.90	7.90	8.90

QUARTER DOZEN IN A BUNDLE



SIMONDS' CRESCENT GROUND, lance tooth. Accurately tapered from cutting edge to back. An even gauge all along the tooth edge. Cuts easy and saws fast. Double horn handle with large opening enabling operator to use glove or mitten in winter.

No. E223—Feet	3½	4	4½
Width at butt, in.	7⅛	7⅛	7⅛
W't, lbs.	4½	5	5½
Each	$7 70	8.60	9.60

HALF DOZEN IN A CASE

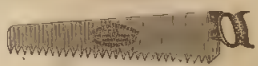
ATKIN'S special steel taper ground, has four cutting teeth and raker, with supplementary handle.

No. E654—Feet	3½	4	4½
Width at butt, in.	6⅞	6⅞	7
W't., lbs.	4½	5½	6½
Each	$7.70	8.60	9.60

QUARTER DOZEN IN A BUNDLE

ICE SAWS

WAGON



DISSTON'S, wagon cast steel, polished, japanned iron handle.

No. 73—Inches	26	28	30
W't per doz., lbs.	42	47	55
Each	$3.40	3.50	3.60

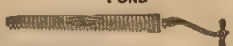
SIXTH DOZEN IN A BOX

Cast steel blade, polished malleable iron handle.

No. 175—Inches	26	28	30
Each	$2.60	2.70	2.80

SIXTH DOZEN IN A BOX

POND



DISSTON'S, cast steel, polished, set and sharpened 10 gauge, tapered from 7 to 5 in., with handle.

No. E40—Feet	4	4½	5
W't, lbs.	10	12	13
Each	$8.00	9.00	10.00

LOOSE

CROSS-CUT SAWS

HOLLOW BACK, CHAMPION TOOTH

STYLE, finest crucible steel, specially hardened and tempered, taper ground, polished, without handles, 3¼ in. wide.

The foundation of these saws is a special process steel, carefully inspected and tested in order to insure uniformity. Great care has been given to hardening and tempering to secure the proper degree of hardness and toughness.

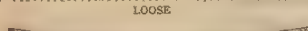
No. E210 STYLE—Feet	5	5½	6	6½
W't, lbs.	3½	3¾	4	5
Each	$4.00	4.40	4.90	5.30

LOOSE

REVERSE, cast steel, polished, without handles, 3¼ in. wide.

No. E7—Feet	5	5½	6	6½
W't, lbs	3½	4¼	4¾	5
Each	$3.20	3.60	4.00	4.40

LOOSE

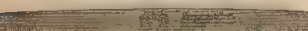


DISSTON'S, cast steel, polished, without handles, 3¼ in. wide.

No. E8—Feet	5	5½	6	6½
W't, lbs	3½	4	4½	5
Each	$4.00	4.40	4.90	5.30

LOOSE

DIAMOND TOOTH



STYLE, Lone Star pattern, 14 to 18 gauge, high grade spring steel, extra thin back, without handles, all 5½ in. wide at center.

No. E205 STYLE—Feet	5	5½	6	6½
W't, lbs.	4½	5	5½	6¼
Each	$7.40	8.20	9.00	9.80

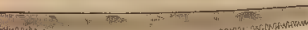
LOOSE

ATKINS, special steel, graduated from 14 to 18 gauge, without handles

No. E222—Feet	5	5½	6	6½
Width at center, in.	6¾	6¾	7¼	7¾
W't, lbs.	4¼	5¼	7¼	7¾
Each	$7.40	8.20	8.90	9.60

LOOSE

CHAMPION TOOTH



DISSTON VIRGINIAN, crucible steel, finely polished and tempered ground 14 to 20 gauge, without handles.

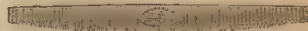
No. E289—Feet	5	5½	6
Width at center, in.	6¼	6¾	7
W't, lbs. in.	6	6¾	7
Each	$9.20	10.80	12.30

CHAMPION TOOTH

REVERSE, cast steel, polished, thin back, graduated from 14 to 16 gauge, without handles.

No. E9—Feet	5	5½	6	6½	7
Width at center, in.	7	7¼	7½	7¾	8
W't, lbs.	7½	8	8½	9	9½
Each	$5.90	6.60	7.10	7.70	8.30

LOOSE



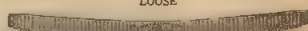
DISSTON'S, cast steel, polished, thin back, graduated from 14 to 16 gauge, without handles.

No. E2—Feet	5	5½	6	6½
Width at center, in.	7	7¼	7½	7¾
W't, lbs.	6¼	7	8	9½
Each	$6.00	6.60	7.10	7.70

DISSTON'S, cast steel, polished, extra thin back, graduated from 14 to 18 gauge, without handles.

No. E1—Feet	5	5½	6	6½
Width at center, in.	7	7¼	7½	7¾
W't, lbs.	5½	6¼	7	7¾
Each	$8.90	7.70	8.40	9.00

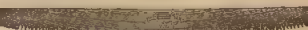
LOOSE



DISSTON'S, zip cross cuts, champion tooth, finest crucible, steel blade, extra thin back, 14x19 gauge.

No. E33—Feet	5	6½	6
Width at center, in.	5¾	5½	5¾
W't, lbs.	5	6	7
Each	$9.20	10.80	12.30

LOOSE



SIMOND'S, radial ground, champion tooth, made of Simonds' crucible steel and ground to a gradual and true taper from extreme point of tooth to back edge of saw blade. Even gauge all along the tooth edge, which gives the greatest possible clearance at all parts of the cut. Polished 14 to 19 gauge without handles.

Nos.	E1305½	E1306
Feet	5½	6
Width at center, in.	6¾	7
W't, lbs.	5½	6½
Each	$11.70	13.50

LOOSE

SIMONDS', crescent ground champion tooth. Made of Simonds' crucible steel, tempered to hold a cutting edge longer than the ordinary saw. Ground to an even taper from tooth edge to back. Cut easy, saw fast and wear well. Polished, 14 to 19 gauge, without handles.

Nos.	E134½	E135	E135½	136	E136½
Feet	4½	5	5½	6	6½
Width at center, in.	5½	6¼	6¾	7	7¼
W't, lbs.	4½	5¼	6¼	7½	8½
Each	$8.50	9.60	10.80	12.60	14.60

LOOSE

CROSS CUT SAWS

TUTTLE TOOTH

[illegible], finest crucible steel, especially hardened and tempered, taper-ground, polished, graduated 14 to 19 gauge, without handles.

The foundation of these saws is a special process steel, carefully inspected and tested in order to insure uniformity. Great care has been given to hardening and tempering to secure the proper degree of hardness and toughness.

No. E200 [illegible]—Feet	5	5½	6	6½
Width at center, in.	6¾	7	7¼	7½
W't, lbs.	5	6	6¾	7½
Each	$7.80	8.50	9.30	10.00

LOOSE

DISSTON'S, spring steel, extra thin back, graduated from 14 to 19 gauge, without handles.

No. E3—Feet	5	5½	6	6½
Width at center, in.	6¾	7	7¼	7½
W't, lbs.	4¾	5¼	6¾	7½
Each	$7.80	8.60	9.40	10.20

LOOSE

These saws are known as Crescent Ground Cottonwood saws. They are particularly adapted for use in lumbering operations throughout the lower Mississippi Valley and bordering states.

SIMONDS', crescent ground cottonwood pattern. This saw is slightly narrower than the standard straight back saw. The teeth are ground to an even thickness throughout the entire length of the blade. Made of Simonds' polished, 14 to 19 gauge.

No. E326—Feet	5½	6	6½	7
Width at center, in.	5½	5¾	6¼	6¾
W't, lbs.	5½	6¼	7½	8
Each	$10.80	12.60	14.60	16.60

LOOSE

TUTTLE TOOTH

ATKINS' cast steel, graduated from 14 to 18 gauge, without handles.

No. E331—Feet	5	5½	6	6½
Width at center, in.	6¾	6¾	7	7½
W't, lbs.	5	6	7	7¾
Each	$6.90	7 50	8.30	9.00

ATKINS', cast steel, graduated from 14 to 19 gauge, without handles.

No. E332—Feet	5	5½	6	6½	7
Width at center, in.	6¾	6¾	7	7½	8
W't, lbs.	5	5¾	6¾	7¾	9
Each	$7.40	8.20	8.90	9.60	10.40

LOOSE

COMMON TOOTH

DISSTON'S, cast steel patent ground, 14 to 16 gauge, without handles.

No. E6—Feet	4	4½	5	5½	6
Width at center, in.	6¼	6½	6¾	7	7¼
W't, lbs.	3¾	4¾	5¼	6¼	7
Each	$4.80	5.20	5.80	6.50	7.20

LOOSE

GREAT AMERICAN

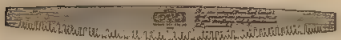
DISSTON'S, cast steel, polished, 14 to 16 gauge, without handles.

No. E31—Feet	5	5½	6
Width at center, in.	6¾	7	7¼
W't, lbs.	5¼	7	7¼
Each	$7.20	8.00	8.80

LOOSE

CROSS CUT SAWS

PERFORATED LANCE TOOTH



The foundation of these saws is a special process steel, carefully inspected and tested in order to insure uniformity. Great care has been given to hardening and tempering to secure the proper degree of hardness and toughness.

STYLE, 14 to 19 gauge, high grade spring steel, without handles.

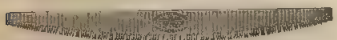
No. E215 STYLE—Feet	5	5½	6	6½
Width at center, in.	5⅞	6⅜	6⅞	7⅜
W't, lbs.	4½	5⅔	6⅔	7⅔
Each	$8.80	9.70	10.60	11.50

LOOSE

DISSTON'S, spring steel, extra thin back, graduated from 14 to 18 gauge, without handles.

No. E18—Feet	5½	6	6½
Width at center, in.	6⅜	6½	6⅝
W't, lbs.	5⅔	6⅔	7½
Each	$9.70	10.60	11.50

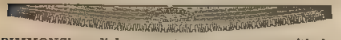
LOOSE



DISSTON SUWANEE, highest grade crucible steel, carefully ground, tempered and polished, 14 to 20 gauge. Four cutting teeth to each raker, without handles.

No. E34— Length, ft.	5	5½	6
Width at center, in.	6¼	6⅜	7
W't, lbs.	5	5⅓	6⅔
Each	$9.00	10.80	12.60

LOOSE



SIMMONS', radial crescent cross-cut saw with lance tooth. Made of Simonds' crucible steel and ground to a gradual and true taper from extreme point of teeth to back edge of saw blade, even gauge all along the tooth edge, polished 14 to 19 gauge, without handles.

No. E2200—Feet	5½	6
Width at center, in.	6⅜	7
W't, lbs.	6⅓	7⅓
Each	$11.70	13.50

LOOSE

SIMONDS, cast steel, polished 14 to 19 gauge, four cutting teeth to each raker, used largely in the middle West and South.

No. E133—Feet	5½	6	6½
Width at center, in.	5⅔	5⅞	6
W't, lbs.	4⅓	5⅓	6⅓
Each	$10.80	12.60	14.60

LOOSE

PERFORATED LANCE TOOTH

SIMONDS', crescent ground, lance tooth. Made of Simonds crucible steel, tempered to hold a cutting edge longer than the ordinary saw. Ground to an even taper from tooth edge to back, polished, 14 to 19 gauge, without handles.

No. E22—Feet	5	5½	6	6½
Width at center, in.	6½	6⅞	7	7⅛
W't, lbs.	5½	6⅔	7¼	8⅓
Each	$9 50	10.80	12.60	14.60

LOOSE

SIMONDS', crescent ground cottonwood pattern. Slightly narrower than the standard straight back saw. The teeth are ground to an even thickness throughout the entire length of the saw. Made of Simonds' crucible steel, polished, 14 to 19 gauge.

No. E316—Feet	5½	6	6½	7
Width at center, in.	5⅛	5⅞	6⅛	6⅜
W't, lbs.	5½	6	6⅔	7⅓
Each	$10.80	12.60	14 60	16.60

LOOSE

SIMONDS', crescent ground cottonwood pattern. Slightly narrower than the standard straight back saw. The teeth are ground to an even thickness throughout the entire length of the saw. Made of Simonds' crucible steel, polished, 14 to 19 gauge, four cutting teeth to each raker.

No. E324—Feet	5½	6	6½	7
Width at center, in.	5⅛	5⅞	6⅛	6⅜
W't, lbs.	6⅔	@	6⅔	7⅓
Each	$10.80	12.60	14.60	16.60

LOOSE

ATKINS', perfection, silver steel, perforated, lance tooth, 14 to 20 gauge, medium width, four cutting teeth to each raker, without handles.

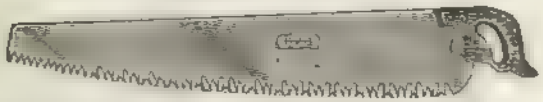
This saw is especially adapted for hard wood and frozen timber.

No. E4—Feet	5½	6	6½
Width at center, in.	5⅔	6	6¼
W't, lbs.	5⅛	6	7
Each	$10.80	13.50	14.40

LOOSE

ONE-MAN SAWS

CHAMPION TOOTH

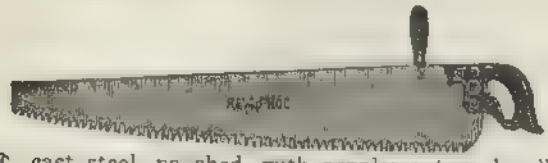


[illegible], spring steel, patent ground and tempered, polished, extra wide blade, nickel plated screws, with supplementary handle.

The foundation of these saws is a special process steel, carefully inspected and tested in order to insure uniformity. Great care has been given to hardening and tempering to secure the proper degree of hardness and toughness.

No. E220 [illegible]—Feet.	2½	3	3½	4	4½	5
Width at butt, in.	7⅛	7⅜	7⅝	7⅞	7⅞	8
W't, lbs.	2½	3½	4½	5	6¾	7½
Each	$4.00	4.70	5.40	6.10	6.90	7.70

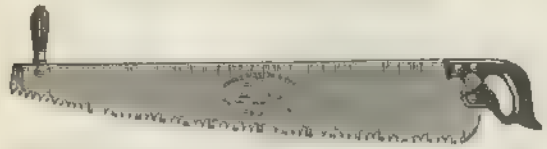
QUARTER DOZEN IN A BUNDLE



REVONOC, cast steel, polished, with supplementary handle.

No. E21 REVONOC—Feet.	2½	3	3½	4	4½	5
Width at butt, in.	6	6⅛	6¼	6⅜	6½	7
W't, lbs.	3	3¼	4	5½	6	6½
Each	$3.30	4.00	4.60	5.30	6.00	6.70

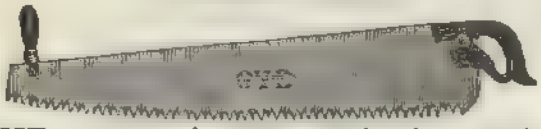
QUARTER DOZEN IN A BUNDLE



No. E23—Disston's—Ft.	2½	3	3½	4	4½	5
Width at butt, in.	6½	6⅝	7	7¼	7⅝	7⅞
W't, lbs.	3	3¾	4	5¼	6	6¾
Each	$3.70	4.50	5.20	6.00	6.70	7.40

QUARTER DOZEN IN A BUNDLE

COMMON TOOTH

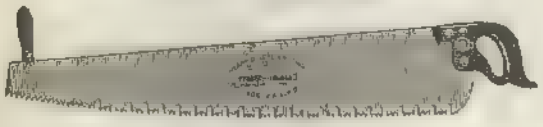


[illegible], spring steel, patent ground and tempered, polished, extra wide blade, nickel plated screws, with supplementary handle.

No. E230 [illegible]—Feet	3½	4	4½
Width at butt, in.	7	7⅛	7⅜
W't, lbs.	4⅜	5	6⅜
Each	$5.40	6.20	7.00

QUARTER DOZEN IN A BUNDLE

GREAT AMERICAN

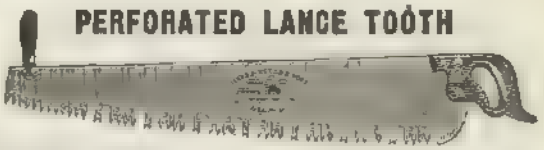


DISSTONS, cast steel, polished, with supplementary handle.

No. E25—Feet	3	3½	4	4½	5
Width at butt, in.	7⅛	7⅜	7⅝	7⅞	7⅞
W't, lbs.	3	4¼	5½	6	7½
Each	$4.80	5.40	6.20	7.00	7.80

QUARTER DOZEN IN A BUNDLE

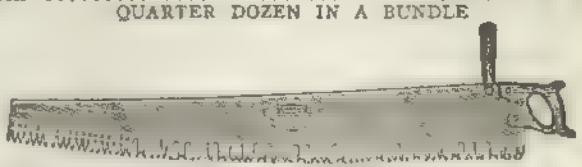
PERFORATED LANCE TOOTH



DISSTON'S CEDAR SAVAGE, spring steel, polished, with supplementary handle.

No. E410—Feet	3½	4	4½
Width at butt, in.	7⅛	7⅜	7⅝
W't, lbs.	4½	5½	6¼
Each	$6 90	7.90	8 90

QUARTER DOZEN IN A BUNDLE



SIMONDS' CRESCENT GROUND, lance tooth. Accurately tapered from cutting edge to back. An even gauge all along the tooth edge. Cuts easy and saws fast. Double horn handle with large opening enabling operator to use glove or mitten in winter.

No. E223—Feet	3½	4	4½
Width at butt, in.	7⅛	7⅛	7⅛
W't, lbs.	4½	5	5½
Each	$7.70	8.60	9.60

HALF DOZEN IN A CASE

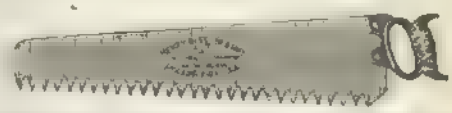
ATKIN'S special steel taper ground, has four cutting teeth and raker, with supplementary handle.

No. E654—Feet	3½	4	4½
Width at butt, in.	6¾	6¾	7
W't., lbs.	4½	5½	6½
Each	$7.70	8.60	9.60

QUARTER DOZEN IN A BUNDLE

ICE SAWS

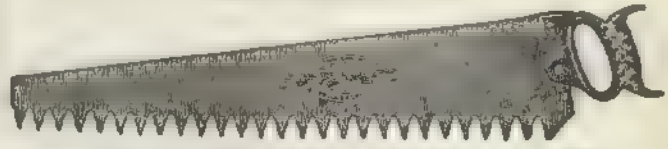
WAGON



DISSTON'S, wagon cast steel, polished, japanned iron handle.

No. 73—Inches	26	28	30
W't per doz., lbs.	42	47	55
Each	$3.40	3.50	3.60

SIXTH DOZEN IN A BOX



Cast steel blade, polished malleable iron handle.

No. 175—Inches	26	28	30
Each	$2.60	2.70	2.80

SIXTH DOZEN IN A BOX

POND

DISSTON'S, cast steel, polished, set and sharpened 10 gauge, tapered from 7 to 5 in., with handle.

No. E40—Feet	4	4½	5
W't, lbs.	10	12	13
Each	$8.00	9.00	10.00

LOOSE

SAW SWAGES

CONQUERER

Swage, jumper or upset, polished steel, carefully hardened and tempered, with blued polished extra steel band, length 4¾ in., w't 8 oz.

No. 1—For large circular saws, each $8.30

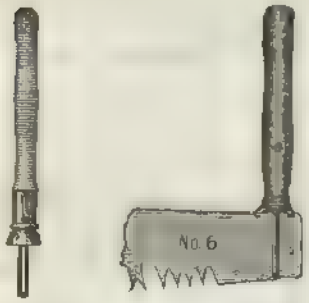
No. 2—For small circular saws and mill saws .....each $6.70

ONE IN A BOX

CROSS CUT SAW HANDLES

No. 122—Disston's, 8 in. long neck, heavy malleable iron cap, tapped for loop rod, which extends through handle insuring firm grip on saw, nicely finished, w't per doz. prs. 30 lbs. ....per dozen pairs $15.80

LOOSE



No. 010. No. 6.

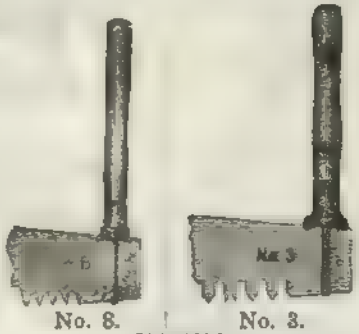
Malleable Loop, Short Malleable Ferrule.

No. 010—9½ in., plain handle, w't per doz. prs. 15 lbs., per dozen pairs $7.20

No. 6—ATKINS, 10 in., varnished handle, w't per doz. prs. 15 lbs., per dozen pairs $8.00

LOOSE

CROSS CUT SAW HANDLES



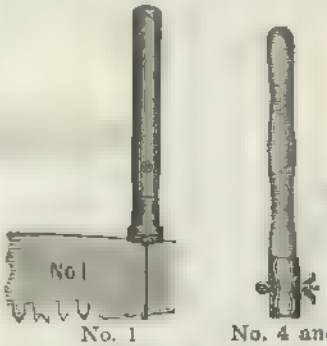
No. 8. No. 3.

ATKINS

No. 8—10 in., malleable loop, extra heavy long malleable ferrule, varnished handle, w't per dozen prs. 27 lbs. .....per dozen pairs $9.60

No. 3—10 in., heavy malleable loop, long malleable ferrule, varnished handle, w't per doz. prs. 21 lbs., per dozen pairs $10.80

LOOSE



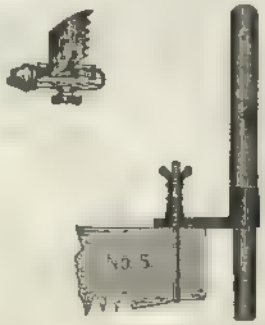
No. 1 No. 4 and 22

No. 1—Atkins, 10 in., wrought loop, extra heavy long malleable ferrule, varnished handle, w't per doz. prs. 25 lbs. .....per dozen pairs $10.00

No. 4—Climax, 14 in., reversible, plain handle, w't per doz. prs. 21 lbs., per dozen pairs $8.00

No. 22—Atkins, 14 in., long heavy malleable castings, large steel bolt, wing nut, w't per doz. 25 lbs., per dozen pairs $12 00

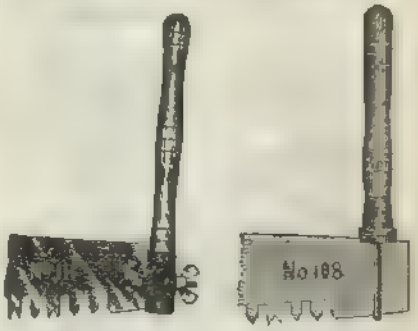
LOOSE



No. 5—14 in., malleable loop and arm, plain handle, w't per doz. prs. 30 lbs., per dozen pairs $12.60

LOOSE

CROSS CUT SAW HANDLES

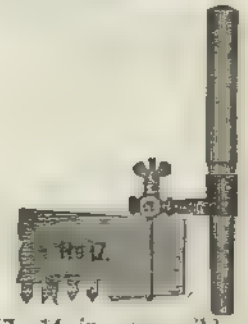


No. 111. No. 108.

No. 111—Atkins, 15 in., malleable clasp, metal parts tinned, fancy polished, w't per doz. prs. 33 lbs., per dozen pairs $10.00

No. 108—Atkins, 12½ in., metal parts tinned, polished handle, w't per doz. prs. 33 lbs., per dozen pairs $10.80

LOOSE



No. 17—14 in., reversible, malleable loop and arm, plain handle, w't per doz. prs. 30 lbs., per dozen pairs $14.40

LOOSE

One-man beechwood, for Ajax, Disston's or Atkins saws, w't per doz. about 7½ lbs.

No. 10—3 screw holes, per dozen $5.90

No. 13—Without screw holes, per dozen $5.90

No. 11—4 screw holes, per dozen $5.90

LOOSE

No. 12—One-man supplementary, malleable ferrule and clamp, length 6 in., w't per doz. 4 lbs., per dozen $4.00

LOOSE

CROSS CUT SAWS

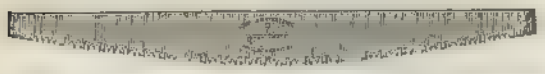
TUTTLE TOOTH

[illegible], finest crucible steel, especially hardened and tempered, taper-ground, polished, graduated 14 to 19 gauge, without handles.

The foundation of these saws is a special process steel, carefully inspected and tested in order to insure uniformity. Great care has been given to hardening and tempering to secure the proper degree of hardness and toughness.

No. E200 [illegible]—Feet	5	5½	6	6½
Width at center, in.	6⅝	7	7⅛	7⅛
W't, lbs.	5	6	6⅝	7⅛
Each	$7.80	8.50	9.30	10.00

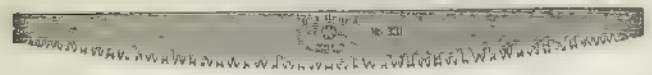
LOOSE



DISSTON'S, spring steel, extra thin back, graduated from 14 to 19 gauge, without handles.

No. E3—Feet	5	5½	6	6½
Width at center, in.	6⅝	7	7⅛	7⅛
W't, lbs.	4½	5½	6⅝	7⅛
Each	$7.80	8.60	9.40	10 20

LOOSE



These saws are known as Crescent Ground Cottonwood saws. They are particularly adapted for use in lumbering operations throughout the lower Mississippi Valley and bordering states.

SIMONDS', crescent ground cottonwood pattern. This saw is slightly narrower than the standard straight back saw. The teeth are ground to an even thickness throughout the entire length of the blade. Made of Simonds' polished, 14 to 19 gauge.

No. E326—Feet	5½	6	6½	7
Width at center, in.	5⅛	5⅝	6⅛	6⅝
W't, lbs.	5⅛	6⅛	7⅛	8
Each	$10.80	12.60	14.60	16.60

LOOSE

TUTTLE TOOTH

ATKINS' cast steel, graduated from 14 to 18 gauge, without handles.

No. E331—Feet	5	5½	6	6½
Width at center, in.	6⅝	6⅞	7	7⅛
W't, lbs.	5	6	7	7⅛
Each	$6.90	7.50	8.30	9.00

ATKINS', cast steel, graduated from 14 to 19 gauge, without handles.

No. E332—Feet	5	5½	6	6½	7
Width at center, in.	6⅝	6⅞	7	7⅛	8
W't, lbs.	5	5⅛	6⅛	7⅛	9
Each	$7.40	8.20	8.90	9.60	10.40

LOOSE

COMMON TOOTH

DISSTON'S, cast steel patent ground, 14 to 16 gauge, without handles.

No. E6—Feet	4	4½	5	5½	6
Width at center, in.	6⅛	6⅛	6⅝	7	7⅛
W't, lbs.	3⅛	4⅛	5⅛	6⅛	7
Each	$4.80	5.20	5.80	6.50	7.20

LOOSE

GREAT AMERICAN

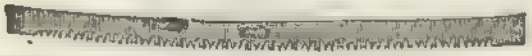
DISSTON'S, cast steel, polished, 14 to 16 gauge, without handles.

No. E31—Feet	5	5½	6
Width at center, in.	6⅝	7	7⅛
W't, lbs.	5⅛	7	7⅛
Each	$7 20	8.00	8.80

LOOSE

CROSS-CUT SAWS

HOLLOW BACK, CHAMPION TOOTH



[illegible], finest crucible steel, specially hardened and tempered, taper ground, polished, without handles, 3½ in. wide.

The foundation of these saws is a special process steel, carefully inspected and tested in order to insure uniformity. Great care has been given to hardening and tempering to secure the proper degree of hardness and toughness.

No. E210 [illegible]—Feet	5	5½	6	6½
W't, lbs.	3½	3¾	4	5
Each	$4.00	4.40	4.90	5.30

LOOSE

REVONOC, cast steel, polished, without handles, 3½ in. wide.

No. E7—Feet	5	5½	6	6½
W't, lbs.	3½	4¼	4¾	5
Each	$3.20	3.60	4.00	4.40

LOOSE

DISSTON'S, cast steel, polished, without handles, 3½ in. wide.

No. E8—Feet	5	5½	6	6½
W't, lbs	3½	4	4½	5
Each	$4.00	4.40	4.90	5.30

LOOSE

DIAMOND TOOTH

[illegible], Lone Star pattern, 14 to 18 gauge, high grade spring steel, extra thin back, without handles, all 5¾ in. wide at center.

No. E205 [illegible]—Feet	5	5½	6	6½
W't, lbs.	4½	5	5½	6½
Each	$7.40	8.20	9.00	9.80

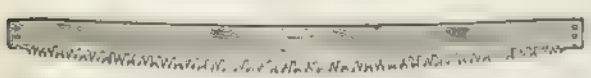
LOOSE

ATKINS, special steel, graduated from 14 to 18 gauge, without handles.

No. E222—Feet	5	5½	6	6½
Width at center, in.	6⅞	6⅞	7⅛	7⅜
W't, lbs.	4¼	5¼	7¼	7¾
Each	$7.40	8.20	8.90	9.60

LOOSE

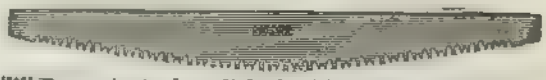
CHAMPION TOOTH



DISSTON VIRGINIAN, crucible steel, finely polished and tempered ground 14 to 20 gauge, without handles.

No. E289—Feet	5	5½	6
Width at center, in.	6¾	6⅞	7
W't, lbs. in.	6	6½	7
Each	$9.20	10.80	12.30

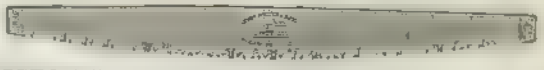
CHAMPION TOOTH



REVONOC, cast steel, polished, thin back, graduated from 14 to 16 gauge, without handles.

No. E9—Feet	5	5½	6	6½	7
Width at center, in.	7	7⅛	7⅛	7⅜	8
W't, lbs.	7¼	8	8¼	9	9½
Each	$5 90	6.60	7.10	7.70	8.30

LOOSE



DISSTON'S, cast steel, polished, thin back, graduated from 14 to 16 gauge, without handles.

No. E2—Feet	5	5½	6	6½
Width at center, in.	7	7⅛	7⅛	7⅜
W't, lbs.	6¼	7	8	9¼
Each	$6.00	6.60	7.10	7.70

DISSTON'S, cast steel, polished, extra thin back, graduated from 14 to 18 gauge, without handles.

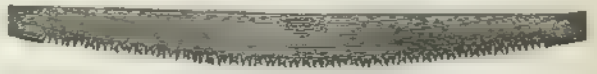
No. E1—Feet	5	5½	6	6½
Width at center, in.	7	7⅛	7⅛	7⅜
W't, lbs.	5¼	6¼	7	7¾
Each	$6.90	7.70	8.40	9.00

LOOSE

DISSTON'S, zip cross cuts, champion tooth, finest crucible, steel blade, extra thin back, 14x19 gauge.

No. E33—Feet	5	5½	6
Width at center, in.	5¼	5⅜	5⅜
W't, lbs.	5	6	7
Each	$9.20	10.80	12.30

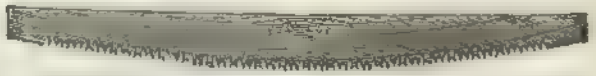
LOOSE



SIMOND'S, radial ground, champion tooth, made of Simonds' crucible steel and ground to a gradual and true taper from extreme point of tooth to back edge of saw blade. Even gauge all along the tooth edge, which gives the greatest possible clearance at all parts of the cut. Polished 14 to 19 gauge without handles.

Nos.	E1305½	E1306
Feet	5½	6
Width at center, in.	6⅝	7
W't, lbs.	5¼	6¼
Each	$11.70	13.50

LOOSE



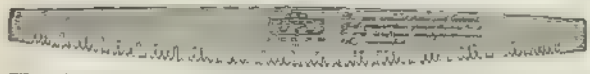
SIMONDS', crescent ground champion tooth. Made of Simonds' crucible steel, tempered to hold a cutting edge longer than the ordinary saw. Ground to an even taper from tooth edge to back. Cut easy, saw fast and wear well. Polished, 14 to 19 gauge, without handles.

Nos.	E134½	E135	E135½	136	E136½
Feet	4½	5	5½	6	6½
Width at center, in.	5⅛	6⅛	6⅜	7	7⅛
W't, lbs.	4¼	5¼	6¼	7¼	8¼
Each	$8.50	9.50	10.80	12.60	14.60

LOOSE

CROSS CUT SAWS

PERFORATED LANCE TOOTH



The foundation of these saws is a special process steel, carefully inspected and tested in order to insure uniformity. Great care has been given to hardening and tempering to secure the proper degree of hardness and toughness.

[illegible], 14 to 19 gauge, high grade spring steel, without handles.

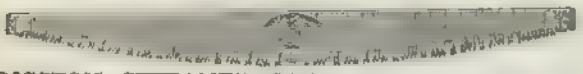
No. E215 [illegible]—Feet	5	5½	6	6½
Width at center, in.	5⅞	6⅛	6⅜	7⅛
W't, lbs.	4¾	5⅛	6¼	7⅜
Each	$8.80	9.70	10.60	11.50

LOOSE

DISSTON'S, spring steel, extra thin back, graduated from 14 to 18 gauge, without handles.

No. E16—Feet	5½	6	6½
Width at center, in.	6⅜	6½	6⅝
W't, lbs.	5⅜	6¼	7⅛
Each	$9.70	10.60	11.50

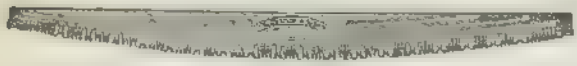
LOOSE



DISSTON SUWANEE, highest grade crucible steel, carefully ground, tempered and polished, 14 to 20 gauge. Four cutting teeth to each raker, without handles.

No. E34— Length, ft.	5	5½	6
Width at center, in.	6⅛	6⅜	7
W't, lbs.	5	5⅛	6⅛
Each	$9.00	10.80	12.60

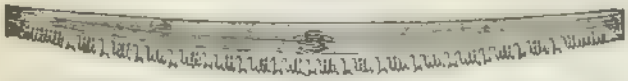
LOOSE



SIMMONS', radial crescent cross-cut saw with lance tooth. Made of Simonds' crucible steel and ground to a gradual and true taper from extreme point of teeth to back edge of saw blade, even gauge all along the tooth edge, polished 14 to 19 gauge, without handles.

No. E2200—Feet	5½	6
Width at center, in.	6⅞	7
W't, lbs.	6¼	7⅛
Each	$11.70	13.50

LOOSE

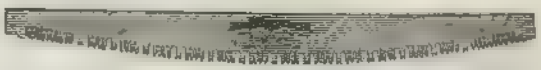


SIMONDS, cast steel, polished 14 to 19 gauge, four cutting teeth to each raker, used largely in the middle West and South.

No. E133—Feet	5½	6	6½
Width at center, in.	5⅞	5⅞	6
W't, lbs.	4⅛	5¼	6⅛
Each	$10.80	12.60	14.60

LOOSE

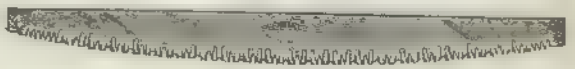
PERFORATED LANCE TOOTH



SIMONDS', crescent ground, lance tooth. Made of Simonds crucible steel, tempered to hold a cutting edge longer than the ordinary saw. Ground to an even taper from tooth edge to back, polished, 14 to 19 gauge, without handles.

No. E22—Feet	5	5½	6	6½
Width at center, in.	6⅛	6⅜	7	7⅛
W't, lbs.	5¼	6¼	7⅛	8⅛
Each	$9.50	10.80	12.60	14.60

LOOSE



SIMONDS', crescent ground cottonwood pattern. Slightly narrower than the standard straight back saw. The teeth are ground to an even thickness throughout the entire length of the saw. Made of Simonds' crucible steel, polished, 14 to 19 gauge.

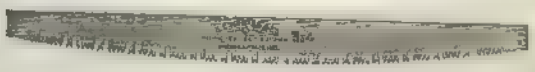
No. E316—Feet	5½	6	6½	7
Width at center, in.	5⅞	5⅞	6⅛	6⅜
W't, lbs.	5¼	6	6⅜	7⅛
Each	$10.80	12.60	14.60	16.60

LOOSE

SIMONDS', crescent ground cottonwood pattern. Slightly narrower than the standard straight back saw. The teeth are ground to an even thickness throughout the entire length of the saw. Made of Simonds' crucible steel, polished, 14 to 19 gauge, four cutting teeth to each raker.

No. E324—Feet	5½	6	6½	7
Width at center, in.	5⅞	5⅞	6⅛	6⅜
W't, lbs.	5¾	6	6⅜	7⅛
Each	$10.80	12.60	14.60	16.60

LOOSE



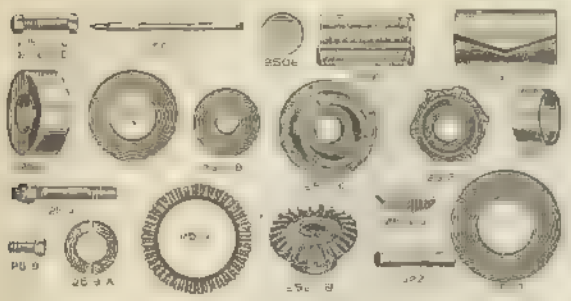
ATKINS', perfection, silver steel, perforated, lance tooth, 14 to 20 gauge, medium width, four cutting teeth to each raker, without handles.

This saw is especially adapted for hard wood and frozen timber.

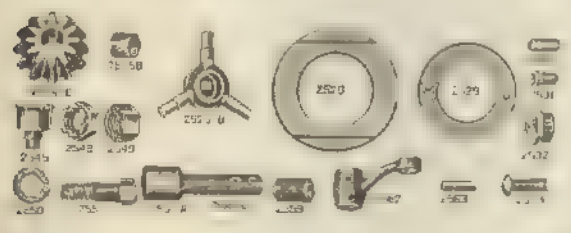
No. E4—Feet	5½	6	6½
Width at center, in.	5⅞	6	6⅛
W't, lbs.	5¼	6	7
Each	$10.80	13.50	14.40

LOOSE

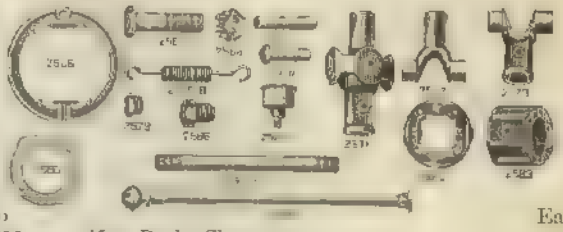
REPLACEMENT PARTS FOR FORD CARS



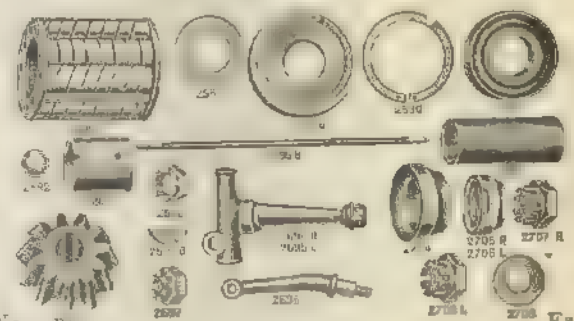
No		Each
2501	Axle Housing, Right 1915-21	$[illegible] 00
2502	Axle Housing, Left, 1915-21.	9 00
2503-E-F	Axle Housing Bolt and Nut..	15
2505	Axle Shaft	1 00
2506	Axle Shaft Washer	03
2508	Axle Shaft Roller Bearing Assembly...	1 25
2509	Axle Shaft Roller Bearing Sleeve, Right	20
2509-B	Axle Shaft Roller Bearing Sleeve, Left	2
2510	Axle Housing Cap, 1909-19.....	[illegible]
2510½	Axle Housing Cap, 1919-21	15
2510-A	Axle Outer Roller Bearing Steel Washer	03
2510-B	Axle Outer Roller Bearing Felt Washer.	07
2512-C-13C	Differential Case, Left and Right .	2 40
2514-14B	Differential Case Stud and Nut	08
2518	Differential Drive Gear.	1 00
2519	Differential Drive Gear Screw	05
2519-A	Differential Gear Lock Ring..	03
2520-B	Differential Gear	1 25
2521-B	Differential Gear Key	05



No		Each
2524-C	Differential Pinion	35
2526-B	Differential Spider	80
2528	Differential Thrust Washer Babbit	15
2528-B	Differential Thrust Washer Bronze	40
2529	Differential Thrust Plate Steel	15
2530	Differential Thrust Plate Pin, 1909-16	15
2531-B	Differential Thrust Plate Pin, 1917-21	03
2532	Differential Housing Oil Plug	05
2545	Rear Axle Grease Cup	10
2547	Rear Radius Rod. .	2 00
2548	Radius Rod Nut ...	05
2549	Radius Rod Lock Nut	05
2550	Radius Rod Lock Washer	02
2551	Radius Rod Bolt and Nut . .	50
2557-58	Hub Cam Shaft, Right or Left	15
2559	Hub Cam Shaft Bushing..	05
2562	Cam Shaft Lever	15
2563	Cam Shaft Lever Pin.....	03
2564	Lever Clevis Pin.....	03

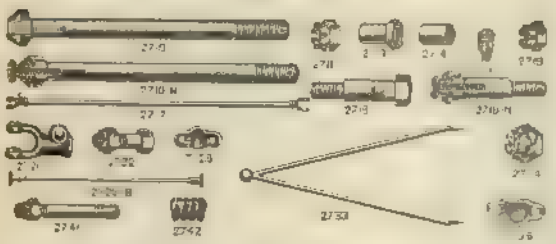


No		Each
2566	Hub Brake Shoe	35
2567	Brake Shoe Support Bolt and Nut .	10
2568	Brake Shoe Support Nut	05
2570-B	Brake Shoe Coil Spring	03
2571	Universal Joint Assembly	1 85
2576	Joint Ring Rivets (Sets of 4)	05
2577-B	Universal Joint Housing	1 50
2578	Joint Housing Plug .	05
2580	Ball Cap Gasket...	05
2581	Drive Shaft Housing Front Bushing.....	30
2582	Drive Shaft Tubing	8.00
2583	Drive Shaft Roller B Housing, Malleable...	2 00
2583B	D. S. Roller Bearing Housing-Forged.....	2 00
	NOTE:—When ordered to replace malt type order also 2589C.	

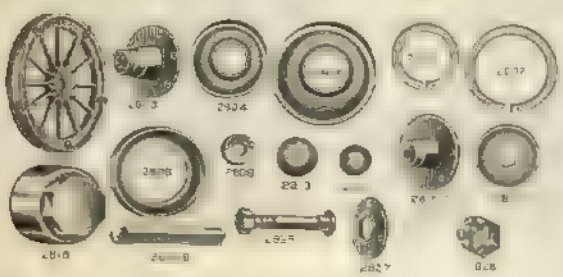


No		Each
2584-B	D. S. Roller Bearing Stud and Nut	.10
2586	D. S. Roller B. Housing Set Screw	.05
2587	D. S. Roller Bearing... .	1 25
2588	D. S. Roller Bearing Distance Plate.....	05
2589B	Drive Shaft Ball Bearing Assembly, 1911-21.	1.00
2589C	Drive Shaft Ball Bearing Assembly, 1920-21	75
2590	D. S. Ball Retainer	03
2591	D. S. Ball Thrust Collar, 1911-21	25
2591B	D. S. Thrust Ball and Retainer Assembly 1920-21	25
2593	D. S. Roll B. Sleeve.	1 70
2595B	Drive Shaft, only 1911-21	3.50
2596	Drive Shaft Sleeve.	1 00
2597B	Drive Shaft Pinion, 11 Teeth, 1911-21	1.25
2598	D. S. Castle Nut	.05
2598B	D. S. Pinion Key.....	05
2691	Front Axle only	10 00
2694	Spindle Body Right, 1911-21 complete with cones and washer.	2 00
2695	Spindle Body Left, 1911-21, Complete with cones and washer.....	2.00
2696	Spindle Arm Left or Right, 1911-19	60
2696C	Spindle Arm Right, 1919-21	60
2696D	Spindle Arm Left, 1919-21	60
2697	Spindle Arm Nut (Order 2548	
2704	Stationary Cone ...	20
2705	Adj. Cone R. H., 1909-21 . .	20
2706	Adj. Cone L. H., 1909-21	20
2707	Spindle Nut R. H., 1909-21 .	10
2708	Spindle Nut, L. H., 1909-21	10
2709	Spindle Washer, 1909-21 ..	02

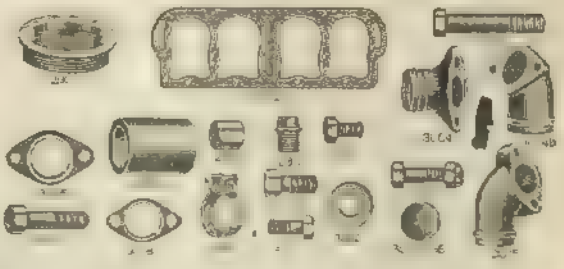
REPLACEMENT PARTS FOR FORD CARS



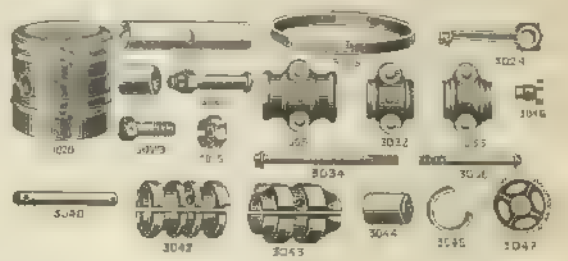
2710	Spindle Bolt with Oiler	$0 20
2713	Spindle Body Bushing	20
2714	Spindle Arm Bushing, Bronze	05
2715	Spindle Oiler (Threaded)	05
2715-D	Pressed Spindle Oiler, 1919-21	15
2717	Spindle Connecting Rod	2 50
2718	Spindle Connecting Rod Bolt with Oiler	15
2719	Spindle Connecting Rod Bolt Nut	03
2721	Spindle Connecting Rod Yoke	40
2721-B	Spindle Connecting Rod Yoke Bal	25
2721-C	Spindle Connecting Rod Yoke	50
	NOTE:—When substituting 2721C for old style yoke, also order 2721B and B211	
2722	Steering Yoke Clamp Bolt and Nut	08
2725-B	Steering Gear Connecting Rod—includes Ball Sockets	1 00
2728	Ball Socket Cap	12
2733	Front Radius Rod, 1909-19	2 00
2733-B	Radius Rod, 1919-21	2 00
2736	Front Radius Rod Ball Cap	12
2737	Front Radius Rod Ball Socket	25
2741	Radius Rod Ball Cap Stud and Nut	04
2742	Radius Rod Bolt Cap Spring	03
2761	Steering Spindle Connecting Rod	3 00
2762	Steering Gear Connecting Rod	1 25



2800D	Front Wheel, less Hub, 1909-21	$7 25
2803	Front Hub Assembly, less Flange, Bolts and Nuts	2 00
2804	Outer Race	10
2805	Inner Race	20
2806	Outer Ball Retainer	02
2807	Inner Ball Retainer	03
2808	Dust Ring	05
2809	Front and Rear Hub Felt Washer	05
2810	Large Balls, ½"	04
2811	Small Balls, ⅜"	01
2814-D	Rear Wheel less Hub, Clincher	7 50
2815-C	Rear Hub, less Flange, Bolts Nuts	1 70
2816-B	Rear Hub Key	05
2818	Rear Hub Brake Drum	50
2819	Hub Cap, Nick. Plated	15
2825	Hub Bolt and Nut	08
2827	Hub Flange	20
2828	Rear Hub Lock Nut	06
2853	Front Cross Member	90
2854-B	Rear Cross Member	1 20

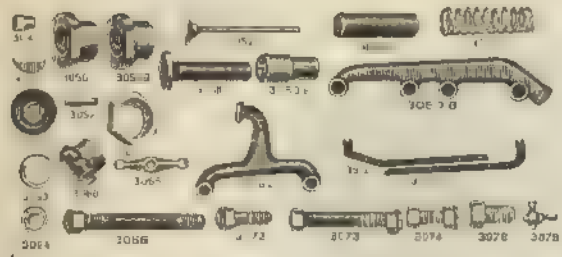


2901	Filling Plug	$0 10
2910	Feed Pipe Pack Nut	05
3001	Cylinder Head	6 00
3002	Cylinder Head Gasket, Copper	05
3003	Cylinder Head Cap Screw, 5/16x2 9/16	05
3003-B	Cyl. Hd Cap Screw, 1918-21	05
3004	Cylinder Head Outlet Conn., Ford	30
3004-B	Cyl. Head Outlet Conn., 1917-21	30
3005	Cyl. Head Outlet Conn. Gasket	05
3006	Cyl. Head Outlet Hose	15
3007	Cyl. Head Outlet Hose Clamp	05
3008	Cyl. Head Outlet Conn. Screw	05
3010	Cyl. Cover Bolt and Nut	08
3011	Cyl. Cover Cap Screw	05

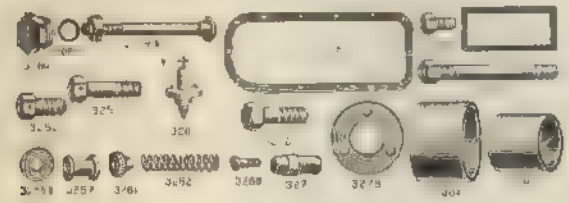


3012	Cyl. Cover Felt	$0 05
3013	Cylinder Cover Liner	02
3013-B	Cylinder Cover Liner	05
3014	Cyl. Cover Crank Case Bolt and Nut (Order 2732	
3015	Cyl. Water Inlet Connection	4
3016	Cyl. Inlet Connecting Screw	05
3017-C	Timer Gear Cover Gasket	02
3018	Cyl. Water Inlet Gasket	05
3019	Cyl. Water Jacket Plug	05
3020	Piston Complete, 3¾" Diam	1 70
3020-B	Piston Complete, Oversize .005"	1 70
3020-C	Piston Complete, Oversize .0025"	1 70
3020-D	Piston Complete, Oversize .03125"	1 70
3020-E	Piston Complete, Oversize .033"	1 70
3022	Piston Pin	25
3022½	Piston Pin Bushing, Pair	25
3023	Piston Ring	15
3023-B	Piston Ring, Oversize .03125"	.15
3023XA	Piston Ring .005 Oversize	.15
3023XB	Piston Ring .015 Oversize	.15
3023XC	Piston Ring .0025 Oversize	.15
3023XE	Piston Ring .033 Oversize	.15
3023XF	Piston Ring .0375 Oversize	.15
3023XG	Piston Ring .025 Oversize	.15
3024	Connecting Rod	1.30
3025	Connecting Rod Cap Bolt	.10
3026	Connecting Rod Cap Bolt Nut	.05
3029	Connecting Rod Clamp Screw	.05
3030	Crank Shaft	10.00
3031	Cam Shaft Rear Bearing Cap	.50
3032	Cam Shaft Front Bearing Cap .3033 Center.	.40

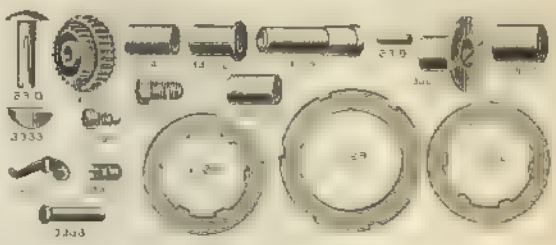
REPLACEMENT PARTS FOR FORD CARS



No.		Each
3034	C. S. Bearing Bolt, center and front	$0 10
3036	Cam Shaft Rear Bearing Bolt	10
3042	Cam Shaft Front Bearing	30
3043	Cam Shaft Center Bearing	30
3044	Cam Shaft Rear Bearing	15
3047-B	Time Gear, large, on cam shaft	1 00
	Note. When used to replace Spur Type also Order 3048B	
3048-B	Time Gear, small, on cam shaft	75
	Note. When used to replace Spur Type also Order 3047B	
3051	Small Time Gear Key	05
3052	Valve	15
3052-B	Valve ½6 Inch Oversize	15
3053½	Valve Bushing	30
3054	Valve Spring	05



3056	Valve Spring Seat Per set of 8	$0 05
3057	Valve Spring Seat Pin Per set of 8	05
3058	Push Rod	10
3058-B	Push Rod, ½6 Inch Oversize	10
3059½	Push Rod Bushing	25
3060-B	Exhaust Manifold	1 50
3061	Exhaust Pipe Pack Nut	20
3062	Inlet Pipe	1 30
3063	Inlet and Exhaust Pipe Gasket	03
3064	Inlet and Exhaust Pipe Gland	02
3065	Inlet and Exhaust Pipe Clamp	15
3066	Inlet and Exhaust Clamp Stud and Nut	08
3068	Breather Pipe	10
3070	Crank Case and Cyl. Gasket, left, felt	05
3070-B	Crank Case and Cyl. Gasket, left, cork	15
3071	Crank Case and Cyl. Gasket, right, felt	05
3071-B	Crank Case and Cyl. Gasket, right, cork	05
3072	Crank Case and Cyl. Cover Cap Screw ⅜x1	04
3073	Crank Case Arm Bolt and Nut, side	08
3074	Crank Case Arm Bolt and Nut, Top	07
3080	Crank Case Drain Cup Plug Order 2552	
3080-B	Crank Case Drain Cup Plug Gasket	03
3081	Crank Case Oil Tube	25
3101-B	Crank Case Lower Cover Reinforcement	30
3102-B	Crank Case Lower Cover Gasket, cork	10
3103	Crank Case Lower Cover Screw	03
3110	Cylinder Valve Cover	15
3111	Cylinder Valve Cover Gasket, felt	05
3111-B	Cylinder Valve Cover Gasket, cork	05
3112	Cylinder Valve Stud and Nut	03
3254	Magnet Bolt	05



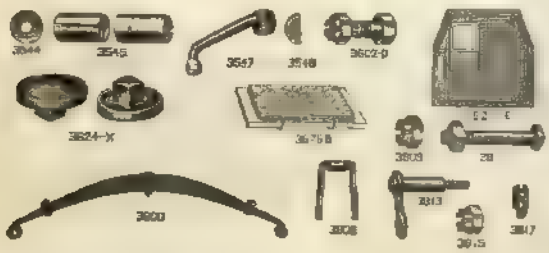
No.		Each
3257	Magnet Brass Support	$0 05
3260	Magneto Contact Assembly	20
3266	Magneto Contact Point Screw	01
3270	Fly Wheel Cap Screw	10
3272	Magneto Coil Support Shim	05
3301	Transmission Reverse Plate Assembly	2 75
3304	Transmission Reverse Gear Bushing	50
3306	Transmission Slow Speed Plate Assembly	2 50
3309	Transmission Slow Speed Gear Bushing	35
3311	Transmission Brake Drum Assembly	3 00
3313	Transmission Gear Assembly	1 50
3314	Transmission Triple Gear Flanged Bushing	25
3315	Transmission Triple Gear Shaft	15
3317	Transmission Driven Gear	90
3320-C	Transmission Driven Gear Sleeve Bushing	20
3320-D	Transmission Gear Sleeve Washer	03
3327-B	Transmission Driving Plate Bushing	20
3328	Transmission Thrust Plate, small	10
3329	Transmission Thrust Plate, large	10
3331	Transmission Great Shaft	1 50
3336	Transmission Clutch Push Ring	35
3337	Transmission Clutch Finger	16

3340	Transmission Clutch Spring	$0 55
3344	Transmission Clutch Shaft	50
3362	Transmission Cover Bolt and Nut Order 2722	
3363	Transmission Cover Gasket, front	05
3363-B	Transmission Cover Gasket, cork	03
3367	Transmission Cover Door Screw	02
3368	Universal Ball Cap, rear	30
3369	Universal Ball Cap, front	80
3371	Universal Ball Cap Screw	05
3372	Universal Ball Cap Bolt and Nut Order 2722	
3375	Transmission Cover Screw Order 3072	
3377	Transmission Cover Felt Gasket Pair	15
3377-B	Transmission Cover Cork Gasket Pair	15
3379	Transmission Cover Sloping Door Gasket, felt	05
3379-B	Transmission Cover Sloping Door Gasket, cork	05
3400	Transmission Clutch Release Ring	25
3403	Clutch Lever Screw and Nut	06
3405	Clutch Lever Pin	02
3406-B	Clutch Release Fork, right or left	20
3406-C	Clutch Release Fork Pin Order 3405	

REPLACEMENT PARTS FOR FORD CARS

No.		Each
3411	Clutch Lever Clevis Pin	Order 2564
3413	Transmission Band Assembly	$0 60
3427	Slow Speed Shaft	.15
3428	Slow Speed Notch	.30
3429	Slow Speed Notch Pin	.02
3434	Reverse Pedal	.60
3439	Brake Pedal	.60
3440	Clutch Pedal	60
3447	Slow Speed Connection Clevis	.10

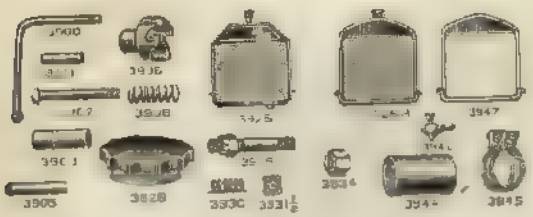
3456-B	Hand Brake Lever Pin	Order 2574
3458	Hand Brake Lever Pawl	$0 10
3459	Hand Brake Lever Pawl Pin	02
3460	Hand Brake Lever Pawl Rod	.10
3462	Hand Brake Lever Pawl Lift Assembly	15
3465	Hub Brake Lever on Controller Shaft	.20
3467	Hand Brake Lever Clevis	Order 3447
3468	Hub Brake Pull Rod, right	.60
3469	Hub Brake Pull Rod, left	.60
3470	Hub Brake Rod Support, right	.10
3471	Hub Brake Rod Support, left	.10



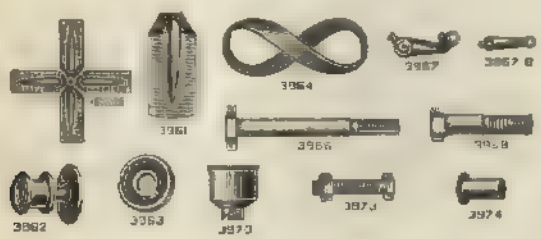
3524-E	Throttle Rod	$0 40
3525-E	Lead Rod	.40
3529	Lead and Throttle Rod Pin	.01
3530	Lead Rod Lever	.10
3531	Throttle Rod Lever	.10
3534-B	Commutator Pull Rod	.10
3535	Carburetor Pull Rod	$0 10
3536-37	Ball and Socket Joint and Nut	10
3547	Steering Gear Ball Arm	50
3548	Steering Gear Ball Arm Key	.05
3624-E	Front Floor Rubber Matting	1 20
3624-X	Top Prop Nuts	.05
3626-B	Floor Board, first	.35
3626-C	Floor Board with Plate, first	.45
3627-C	Floor Board, second	.45
3628	Floor Board, third	.60
3628-B	Floor Board with Plate, third	.65
3632	Floor Board Rear Plate for Pedals	.10
3633	Floor Board Plate for Side Lever	05
3676-B	Tonneau Mat, 30 inches x 28 inches Woll-1911-21	1 60
3808	Front Spring Clip	20
3809	Front Spring Clip Nut	Order 2568
3811	Front Spring Tie Bolt and Nut	.06
3813	Front Spring Hanger	.15
3815	Front and Rear Spring Hanger Nut	Order 2719
3817	Front and Rear Spring Hanger Oiler	.05

3818	Front Spring Perch, right 1909-19	$0.60
3819	Front Spring Perch, left	60
3820	Front Spring Perch Bushing	05
3821	Front Spring Perch Nut	Order 2828
3823	Front Spring Leather	10
3833	Rear Spring Clip	20
3834	Rear Spring Clip Nut	Order 2548
3835	Rear Spring Clip Bar	.10
3837	Rear Spring Tie Bolt and Nut	.07
3840	Rear Spring Hanger	.15
3842	Rear Spring Leather Pad	.10
3843	Rear Spring Perch	.40
3844	Rear Spring Perch Bushing	.05
3845	Rear Spring Perch Nut	.05
3847	Front Spring Clip Assembly with bolt and nut 1909-16	.10
3847-B	Front Spring Clip Assembly with Bolt and Nut 1916-21	.10
3848	Rear Spring Clip Assembly with Bolt and Nut 1909-17	.10
3848-B	Rear Spring Clip Assembly with Bolt and Nut 1918-21	.10
3900	Starting Crank only	.60
3905	Starting Crank Ratchet Pin	.05
3905-A	Starting Crank Ratchet Pin, (new style)	.05
3906	Starting Crank Ratchet	25
3908	Starting Crank Spring	.05
3909	Starting Crank Handle Spring	.03

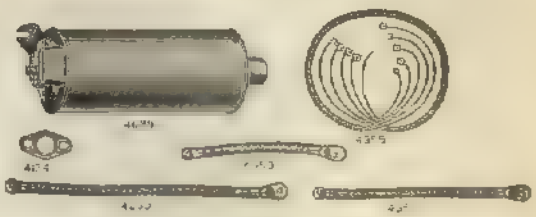
REPLACEMENT PARTS FOR FORD CARDS



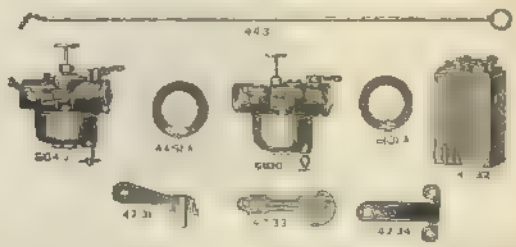
No.		Each
3926	Radiator Cap	$0 15
3928	Radiator Pad	.05
3929	Radiator Stud and Nut, 1909-19	05
3929-B	Radiator Stud and Nut, 1919-21	.05
3930	Radiator Stud Spring (Order 2742)	
3931½	Radiator Stud Washer Nut	.03
3932	Radiator Rod, 1919-21	.15
3939	Outlet Connection Pipe 1¼"x12"	.35
3940	Outlet Connection Cock, 1909-21 (Order 3079).	
3944	Outlet Connection Hose, 1909-21—1¾x2¾	.10



3960	Fan and Pulley Assembly, 1909-20	1.25
3961	Fan Blade, 1919-20	.10
3961-B	Fan Blade Rivets	05
3961-C	Fan Blade Assembly, 1920-21	30
3962	Driven Fan Pulley, 1909-20, Brass Upper	80
3962-B	Driven Fan Pulley with Bushing, 1920-21	70
3963	Fan Drive Pulley, 1909-20, Steel Lower	30
3963-B	Fan Drive Pulley, 1920-21	20
3966	Fanshaft, 1909-20—⅛x4⅛	20
3966-B	Fan Shaft, 1920-21	30
3967-B	Fan Bracket, 1917-21	30
3968	Fan Bracket Bolt, 1909-21—⅜x2⅜	15
3970	Fan Grease Cup	.10
3973	Fan Adjusting Screw, 1909-20-21—⅜x1⅜	.06
3973-B	Fan Adjusting Screw Nut, 1909-21	.03
3974	Fan Driven Pulley Bushing, 1917-20	.15
3974-B	Fan Driven Pulley Bushing, 1920-21	.15
3975	Radiator Stud Spring Upper Thimble, 1919-21	02
3976	Radiator Stud Spring Lower Thimble, 1919-21	.03
4025	Muffler complete, 1909-20	2 00
4025-B	Muffler Assembly, 1921—Includes 3061 and 4037C	3 00
4037-B	Long Exhaust Pipe, 1909-20	1.75
4037-C	Long Exhaust Pipe, 1920-21	2 00



No.		Each
4050	Hood, 1909-16	$5 00
4050-B	Hood, 1917-21	5 00
4052-B	Hood Clip, 1917-21	
4129-A	Carb. Adjusting Rod, 1909-21	20
4431	Carb. Prim. Rod, 1909-21	05
4589	Carb. Prim. Rod, 1919-21, Starter Type	05
4800-B	Front Fender, Right, 1917-21. All Cars	4 25
4801-B	Front Fender, Left, 1917-21. All Cars	4 25
4802-F	Rear Fender, Right, 1917-21. All Cars	3.75
4803-F	Rear Fender, Left, 1917-21. All Cars	3 75
4804-D	Rear Fender, Iron Right and Left, 1913-21, Touring Car	15
4804-E	Rear Fender, Iron, Right, Torpedo and Coupe, 1913-21	60
4804-F	Rear Fender, Iron, Left, Torpedo and Coupe, 1913-21	60
4806-B	Fender Eye Bolt, 1909-21	10
4809	Front Fender, Iron, 1909-21	00
4816	Running Board Truss Rod, Front, with Nuts.	50
4817	Running Board Truss Rod, Rear, with Nuts.	50



5007	Coil Unit, 1914-21	1 75
5008	Vibrator with Tungsten Point, 1914-21	07
5009	Vibrator Bridge with Tungsten Point	10
6100	Kingston Carburetor, 1909-21	6 00
6101-A	Carb Float Assembly, 1917-21	75
6101	Float with Lever, 1915-16	75
6127-A	Gasoline Valve, 1917-21	35
6115	Spray Needle Assembly, 1910-21	50
6150	Kingston Carburetor, Model L-4, 1921	6.00
6155	Float with Lever, 1921	50
6161	Spray Needle Assembly, 1921, Order 6115	
6175	Gasoline Valve, 1921	35
6200	Holley Carburetor, Model NH, 1920-21	6 00
6201	Float with Lever, 1920-21	50
6213	Spray Needle Assembly, 1920-21	20
6217	Gasoline Inlet Needle, 1920-21 (Order 4453-A).	

ROBERT HUDSON, LTD., LEEDS.

LIGHT LOCOMOTIVES.

STANDARD SIZES.

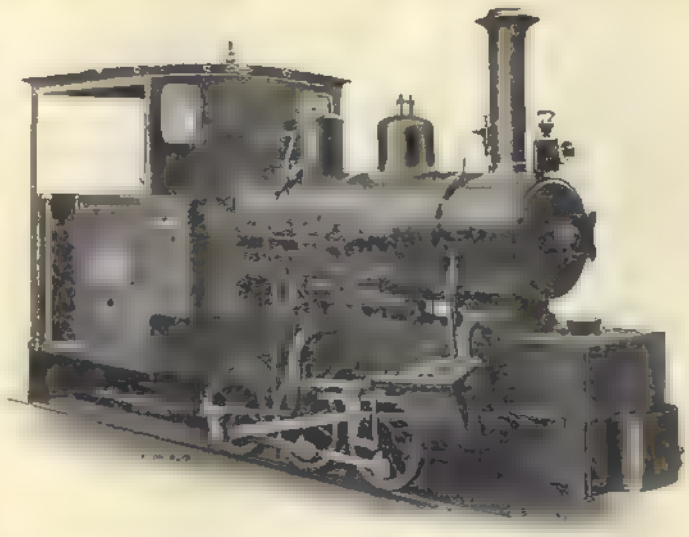
Four-Wheels Coupled.

(TI)	15 H.P.,	4½	tons weight
LU)	25 „	5½	„
ZO)	30 „	6½	„
NY)	40 „	8	„
(AC)	55 „	9½	„

Six-Wheels Coupled.

(EF)	30-H.P.,	6½	tons weight
(IB)	40 „	8½	„
(OU)	55 „	10	„

Normally made for Coal Fuel. Also made for Wood, Crude Oil, Paraffin, Kerosene, etc.



No T 820 — **Light Locomotives, Six Wheels Coupled Pattern**
Locomotora ligera, tipo Seis ruedas acopladas.

RAIL GAUGE.

We make these Engines for all gauges from 24 in. to 3 ft. 6 in. Our standard gauges are 24 and 30 in., or 600 and 750 mm., if asked for specially.

We shall be pleased to quote for any Size or Type of Locomotive on receipt of particulars.

Standard Sizes of Locomotives always in stock or progress for early delivery.

LOCOMOTIVES POUR CHEMINS DE FER À VOIE ÉTROITE

MODÈLES ORDINAIRES.

Quatre roues accouplées

15	*Chevaux, poids*	4½	*tonnes*
25	„	5½	„
30	„	6½	„
40	„	8	„
55	„	9½	„

Six roues accouplées

30	*Chevaux, poids*	6¾	*tonnes*
40	„	8½	„
55	„	10	„

Fabriquées ordinairement pour charbon; se fabriquent aussi pour chauffage au bois à l'huile crude au pétrole, à la paraffine etc.

ÉCARTEMENT DES RAILS.

Nous construisons ces locomotives pour voies de 609 mm à 1,067 mm. Nos écartements normaux sont de 24 et 30 pouces, ou de 600 mm et 750 sur ordre spécial

Nous serons très heureux de donner nos prix pour locomotives de n'importe quel type et de n'importe quelle dimension, à la réception des détails complets.

Les moteurs de rechange sont toujours prêts à être livrées, ou pour prompte livraison.

LOCOMOTORAS LIGERAS.

TAMAÑOS MODELOS.

Cuatro ruedas acopladas

15	H.P. peso	4½	toneladas
25	„	5½	„
30	„	6½	„
40	„	8	„
55	„	9½	„

Seis ruedas acopladas

30	H.P., peso	6¾	toneladas
40	„	8½	„
55	„	10	„

Construidas normalmente para servirse del carbón como combustible. Las construimos también para usar como combustible la leña, aceite bruto, parafina, kerosina, etc.

ANCHO DE VIA.

Construimos estas locomotoras para anchos de vía de 609 mm. á 1,067 m Nuestros anchos de vía normales son de 24 y 30 pulgadas, ó de 600 y 750 mm. si así se nos pide.

Nos será grato cotizar precios para cualquier tamaño ó modelo de locomotora al recibo de los detalles.

Tenemos siempre locomotoras de tamaños normales en existencia ó en vía de construcción para pronta entrega

Head Offices: 38a, Bond St., Leeds.
Chief Works: Gildersome Foundry, nr. Leeds.

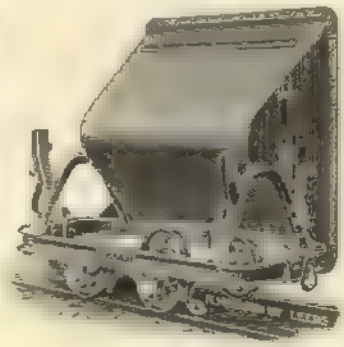
ROBERT HUDSON, LTD., LEEDS.

Steel Double Side Tipping Wagons.

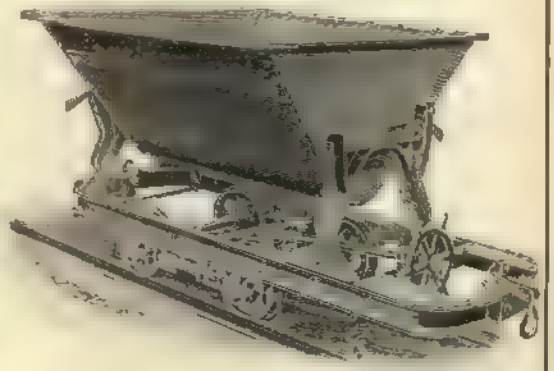
WAGONNETS BASCULANTS D'ACIER.

VAGONETAS VOLQUETES A LOS COSTADOS, DE ACERO.

No. T.769.



No. T.758.



No. T.759.

STEEL TIPPING WAGONS

The bodies are constructed of steel Plates ¼ in. or ⅜ in. thick, Steel Underframe, with Central Buffers Wheels in Cast Steel Steel Axles, Dustproof Roller Bearings Automatic Body Catches Couplings, all complete for rail gauges from 18 inches up to 30 inches, suitable for loading by hand and haulage by hand or animals If for use with locomotives we supply rather stronger wagons

STANDARD SIZES.

Capacity in Cubic Feet.	Width Overall, about	Height Overall, about	Length Overall without Brake.	Diameter of Wheels.
	Inches.	Inches.	Inches.	Inches.
AC 18	54	43	86	12
EF 27	60	47	74	12
SA 38	64	50	87	14
PE 54	68	82	106	18

The above are for carrying earth or other similar material; if for rock, ore, or other heavy and hard material we supply a stronger type of wagon

We have thousands of other designs to select from.

WAGONNETS BASCULANTS D'ACIER

Le corps de ces wagonnets est construit en tôles d'acier de 3·2 mm. ou de 4·8 mm. d'épaisseur, Chassis d'acier avec tampons centraux [illegible] à main et pour traction animale ou à bras d'homme

Les modèles de grandes dimensions sont un peu plus forts sont fournis par nous

MODÈLES COURANTS.

Cubic m.	Largeur Hors Tout	Hauteur Hors Tout	Longueur Hors Tout sans le Frein	Diamètre des Roues
	Metres	Metres	Metres	Mm
500	1·37	1·088	1·676	305
764	1·524	1·1438	1·8796	305
1019	1·6256	1·270	2·210	330
1529	727	1·575	2·693	457

Les wagonnets ci-dessus sont destinés au transport de terre et matériaux similaires pour le transport des terres de minerais et de tous autres matériaux lourds et durs nous avons un autre [illegible] plus fort

Nous avons un choix de plusieurs milliers de modèles différents.

VAGONETAS VOLQUETES DE ACERO

La Caja de estas vagonetas está construida con planchas de acero [illegible] estudiado [illegible] tipos [illegible] Los ejes de [illegible] Cojinetes [illegible] conveniente para cargar á mano y remolque á mano ó tracción animal Pueden [illegible] otros más fuertes para ser [illegible] por locomotoras

TAMAÑOS NORMALES.

Capacidad en Litros	Anchura Total	Altura Total	Largo Total sin Freno	Diametro de Ruedas.
	Metros	Metros	Metros	Mm
500	1·371	1·088	1·676	305
740	1·524	1·1438	1·8796	305
1019	1·6256	1·270	2·210	330
1520	1·727	1·575	2·693	457

Las vagonetas arriba indicadas son destinadas para el transporte de tierras y de materiales similares para el transporte de piedra minerales ó de cualquier otro material pesado [illegible] suministramos [illegible] vagonetas más resistentes

Disponemos de millares de otros modelos para selección

Head Offices / Bureaux Principaux / Oficinas Principales: 38a, Bond St., Leeds.

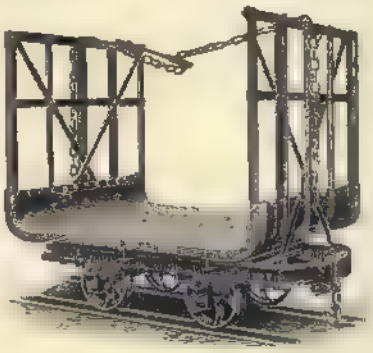
Chief Works / Usines Principales / Talleres Principales: Gildersome Foundry, nr. Leeds,

ROBERT HUDSON, LTD., LEEDS.

STEEL WAGONS FOR LIGHT RAILWAYS.

WAGONNETS EN ACIER POUR CHEMINS DE FER À VOIE ÉTROITE

CARROS DE ACERO PARA FERROCARRILES LIGEROS (VIA ESTRECHA).



No. T 763 (OD)

SUGAR CANE CARS.

We supply these in many different sizes and types to suit the various cane-growing countries.

Thousands of designs to select from.

WAGONNETS POUR CANNE À SUCRE

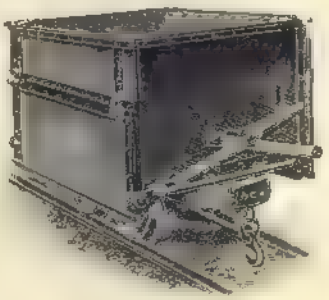
Nous fournissons ces wagonnets en modèles et dimensions variés, selon les différentes régions où se cultive la canne à sucre.

Nous avons des milliers de modèles à notre choix.

VAGONETAS PARA TRANSPORTE DE CAÑA DE AZUCAR

Suministramos estos vagonetas en muchos diferentes tamaños y tipos para satisfacer las varias exigencias de los distritos donde se cultiva el azucar.

Muchos miles de modelos para elegir.



No. T 456 (UX)

SIDE DISCHARGE WAGONS for Mines and Collieries, Nitrate Oficinas, etc.

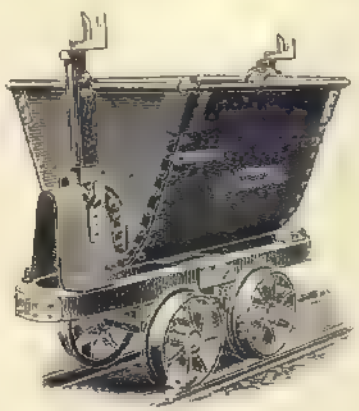
Standard sizes: 40, 60, 80, and 100 cubic feet capacity, for rail gauges, from 24 in. up to 3 ft. 6 in.

WAGONNETS POUR DÉCHARGEMENT LATÉRAL pour mines, houillères, nitrates, etc

Modèles courants. Capacité, en mètres cubes, 1,13, 1,70, 2,26, et 2,83, pour voies de [illegible]

VAGONETAS DE VOLQUETE Á LOS COSTADOS para minas y salitreras, oficinas de nitratos etc

Tipos y modelos: Capacidad en metros cúbicos 1,13, 1,70, 2,26, y 2,83, para vias de [illegible] a 1,67 mts.



No. T 398 SE

MINING TRUCKS.

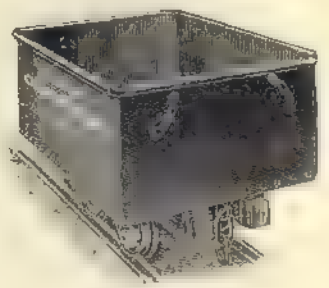
We have made a speciality of these for many years and have intimate knowledge of the special requirements of mines and collieries.

WAGONNETS POUR MINES.

Il y a plusieurs années que nous sommes spécialisés dans la fabrication de ces wagonnets et nous connaissons parfaitement les besoins spéciaux des mines et des houillères.

VAGONETAS PARA MINAS.

Hemos hecho una especialidad en la construcción de estas vagonetas de acero [illegible] años y poseemos un [illegible] de las necesidades de las minas y hulleras.



No. T 101 PE

COAL TUBS.

We have manufactured countless numbers of these for the leading collieries almost all over the world.

WAGONNETS À CHARBON.

Nous avons fabriqué un nombre considérable de ces wagonnets pour presque tous les houillères les plus importants du monde entier.

VAGONETAS PARA CARBÓN

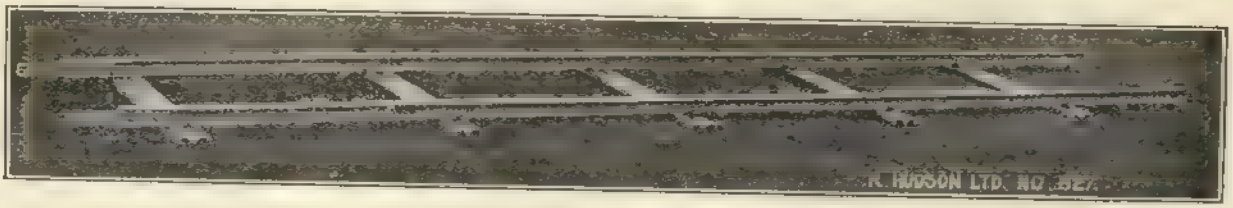
Hemos fabricado innumerables vagonetas de esta clase para las principales hulleras de casi todo el mundo

ROBERT HUDSON, LTD., LEEDS.

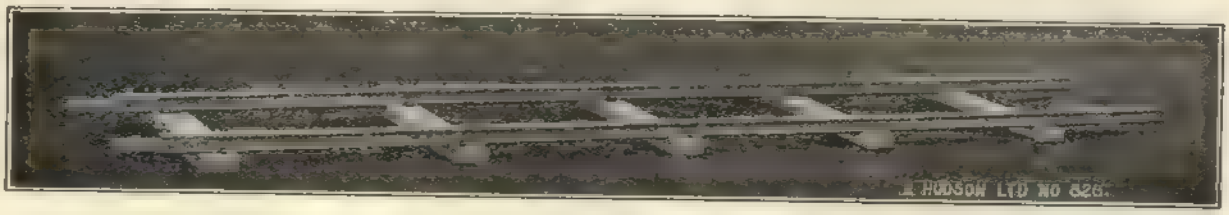
LIGHT RAILWAY TRACK.

CHEMINS DE FER A VOIE ÉTROITE

VIA FERROVIARIA LIGERA



SA **No. T 827. LIGHT RAILWAY TRACK WITH STEEL SLEEPERS.**
„ „ *Voie de Chemin de Fer 'Voie Étroite' avec traverses en acier.*
„ „ Vía Ferroviaria Ligera con traviesas de acero (para F-C de vía estrecha)



PE **No. T 826. LIGHT RAILWAY TRACK WITH DOGSPIKES FOR WOODEN SLEEPERS.**
„ „ *Voie pour Chemin de Fer à Voie Étroite avec crampons pour traverses en bois*
„ „ Vía Ferroviaria Ligera con escarpias para traviesas de madera.

Supplied for any Rail Gauge from 18 inches up to 3 ft. 6 ins., and in any weight of Rail from 10 to 60 lbs. per yard.

Fournis pour Voies de n'importe quelle largeur de 457 m/m à 1067 m/m, et pour rails de n'importe quel poids de 5–30 kgs par mètre

Surtidos para vías de todo ancho de 457 1067 m/m y para railes de todo peso de 5–30 kgs por metro.

STANDARD SIZES.

With either Steel Sleepers or with Dogspikes for Wooden Sleepers, supplied at destination.

Standard Rail Gauges 24 and 30 ins.

Weight of Rails in lbs. per yard.	Maximum load on one Axle
(B) 10 lbs.	2,000 lbs.
(T) 14 „	3,500 „
(LU) 20 „	5,000 „
(OD) 24 „	7,000 „
(UX) 28 „	9,000 „
(NY) 35 „	15,000 „

MODÈLES STANDARD.

Avec traverses en acier ou crampons pour traverses en bois, fournis à destination.

Pour voies ordinaires de 610 m/m et 762 m/m

Poids des rails en kilogs. par mètre.	*Charge maxima par essieu*
5 kgs	900 kgs
–	1587 „
10 „	2267 „
12	3175 „
14	4082 „
17 5	6803 „

TAMAÑOS CORRIENTES

Con Traviesas de Acero o con escarpias para Traviesas de Madera que se suplirán á destinación

Para anchuras de vía normales de 610 m/m y 762 m/m

Peso de los railes en kgs por metro	Carga máxima sobre un eje
5 kgs	900 kgs
–	1587 „
10 „	2267 „
12	3175 „
14	4082 „
17 5 „	6803 „

Bureau Central. **Head Offices:** Oficina principal:
38a, BOND STREET, LEEDS.

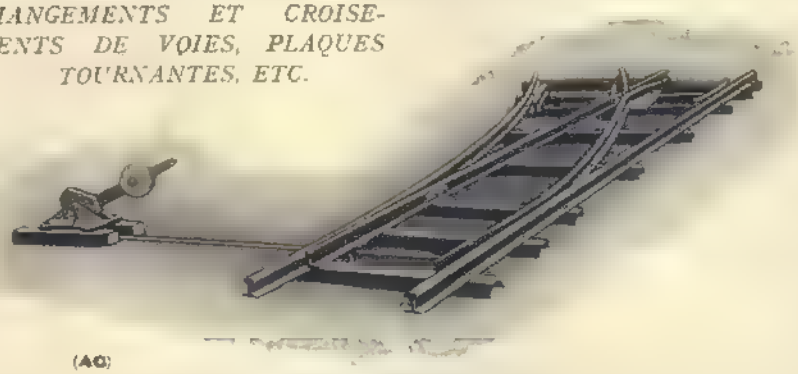
Usines Principales. **Chief Works:** Talleres Principales
GILDERSOME FOUNDRY, Nr. LEEDS.

ROBERT HUDSON, LTD., LEEDS.

SWITCHES and CROSSINGS. TURNTABLES.

CHANGEMENTS ET CROISEMENTS DE VOIES, PLAQUES TOURNANTES, ETC.

CAMBIOS Y CRUCES DE VIAS, PLACAS GIRATORIAS, ETC.



STANDARD SIZES
For 24 inches gauge and in rails 10 lbs. to 24 lbs. per yard.

9 feet long 13 feet radius
15 " 37 "
18 " 85 "

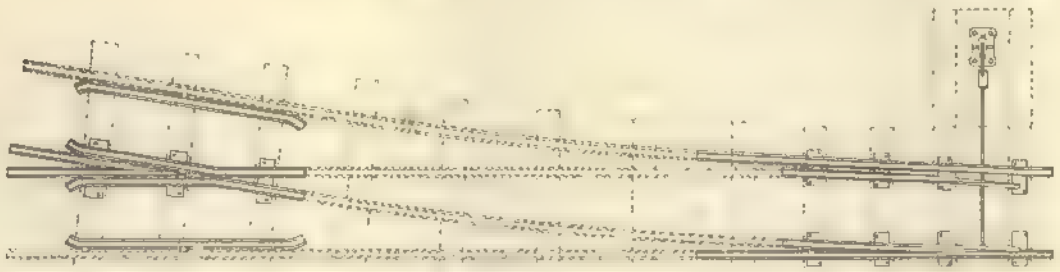
For 30 inches gauge. Rails 14 to 24 lbs.
15 feet long 30 feet radius.
18 " 45 "

MODELES COURANTS

Pour voies de 600 m/m et rails de 5 kgs à 12 kgs par mètre
Longueur 2m.74 Rayon 4m approx
" 4m.57 " 10m "
" 5m.48 " 20m "
Pour voies de 762 m/m et rails de kgs à 12 kgs par mètre
Longueur 4m.57 Rayon 9m. approx
" 5m.48 " 14m "

MODELOS NORMALES

Para vias de 609 m/m y rieles de 5 kgs á 12 kgs por metro
Longitud: 2m.74. Radio 4 m aprox
" 4 m 57 " 10m "
" 5m.48 " 20m. "
Para vias de 762 m/m y rieles de 7 kgs á 12 kgs por metro.
Longitud 4 m 57 Radio 9m. aprox
5m 5 14m



EF
No. T 272.—Switches and Crossings for Permanent Light Railways, with Wooden Sleepers, suitable for Rails 20 lbs. per yard and heavier

No. T 272 Changements et Croisements de Voies pour Chemins de Fer à voie Etroite Permanents, avec Traverses en Bois pour Rails à 10 kgs par metre et rails plus lourds

No. T 272 Cambios y Cruces de Vias para Ferrocarriles Permanentes de Via Estrecha, con Traviesas de Madera, para Rieles de 10 kgs por metro, y rieles mas pesados

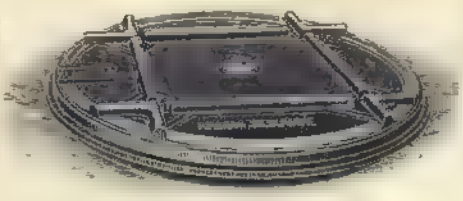
STANDARD SIZES.
24 inches gauge—100 and 144 feet radius
30 inches gauge 125 and 180 feet radius

MODELES COURANTS
Voie de 609 m/m Rayon
30 et 44m approx
Voie de 762 m/m. Rayon
38 et 55m approx.

MODELOS NORMALES
Para Vias de 609 m/m Radio
30 y 44 m aprox
Para Vias de 762 m/m Radio
38 y 55m. aprox

MODELE No T 445
Le Modèle et le meilleur et le plus économique pour usage ordinaire

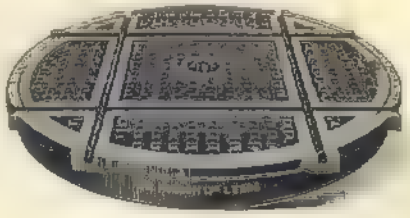
MODELE No T 750.
Préférable lorsque le bétail doit servir le passage fréquent des hommes sur les plaques tournantes



IB T 445

Type T 445 is the cheapest and best for ordinary work

Type T 750 is preferable where animals or men have to walk across the turntables frequently



OD T 750.

MODELO No T 445
El mejor y mas barato para uso ordinario

MODELO No T 750
Preferible cuando ha de servir para el paso frecuente de hombres y animales

STANDARD SIZES.

24 inches gauge.
46" diameter, to carry 2 or 4 tons.
55½" diameter, to carry 3 tons.

30 inches gauge.
46" diameter, to carry 1½ tons.
55½" diameter, to carry 3 tons.
60" diameter, to carry 8 tons.

MODÈLES COURANTS.

Voie de 600 m/m
Diamètre 1168 m/m Poids à porter 2000 kgs à 4000 kgs.
" 1409 m/m. " 3000 kgs.
Voie de 762 m/m
Diamètre 1168 m/m Poids à porter 1500 kgs
" 1409 m/m. Poids à porter 3000 kgs.
" 1524 m/m Poids à porter 8000 kgs.

MODELOS NORMALES

Para Vias de 600 m/m.
Diámetro, 1168 m/m, para soportar un peso de 2000 kgs á 4000 kgs
Diámetro, 1409 m/m, para soportar un peso de 3000 kgs.
Para Vias de 762 m/m.
Diámetro, 1168 m/m, para soportar un peso de 1500 kgs
Diámetro, 1409 m/m, para soportar un peso de 3000 kgs
Diámetro, 1524 m/m, para soportar un peso de 8000 kgs.

Bureau Central **Head Offices:** Oficina Principal

38a, BOND STREET, LEEDS.

Usines Principales **Chief Works:** Talleres Principales

GILDERSOME FOUNDRY, Nr. LEEDS.

SHEEP SHEARS

—OLD KENTUCKY—

Single bow pattern, riveted steel blades, spring tempered bow double riveted to trowel shanks, with finger and thumb rests full polished handles and box.

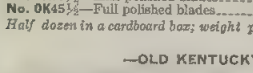
Straight blades, with convex edge; length of blade 5½ inches; length over all 13 inches.

Per Dozen

No. 0K35½—Half polished blades $33 00
No. 0K45½—Full polished blades 35 25

Half dozen in a cardboard box; weight per dozen about 12 lbs.

—OLD KENTUCKY—



Double bow pattern polished razor steel blades; polished spring tempered bow double riveted to shanks, straight blades.

Per Dozen

No. 0K65½ 5½ inch blades, full length 18 inches ... $36 00
No. 0K66—6 inch blades full length 13½ inches ... 39 00
No. 0K66½—6½ inch blades, full length 14 inches ... 43 50

Half dozen in a cardboard box; average weight per doz. 12½ lbs.

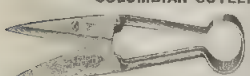
ORIGINAL BURGON AND BALL

Double bow pattern each blade, shanks and half bow forged from one piece of high grade crucible steel; full polished blades, carefully tempered; polished grip; spring tempered bows, natural finish.

Nos.	BBA-6	BBA-6½	BBA-7
Length blade, in	6	6½	7
Length over all, in	13	13½	14
Weight per dozen, lbs	11½	12	12½
Per Dozen	$75 00	78 00	81 00

Half dozen in a cardboard box.

COLUMBIAN CUTLERY CO.



Single bow pattern; blades, shanks and spring tempered bow forged from one piece of best cutlery steel.

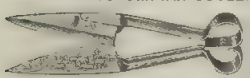
Bent blades, with convex edge and swaged back; half polished.

Per Dozen

No. 057E—Length blades 5½ inches; length over all 12½ inches $24 75

Half dozen in a cardboard box; weight per dozen 12 lbs.

COLUMBIAN CUTLERY CO.



Double bow pattern blades, shanks and half bow forged from one piece of best cutlery steel.

Blades have convex edge and swaged back; half polished. Length blade 6 inches; length over all 13 inches.

Per Dozen

No. 012—Bent blades $29 25
No. 012E—Straight blades 31 50

Half dozen in a cardboard box; weight per dozen 12 lbs.

SHEEP SHEARING MACHINES

STEWART'S
Hand Power, Ball-Bearing.

Gearing is made entirely of metal and enclosed from all dust and dirt. Shearing head and every joint in the shaft are fitted with ball-bearings. Tripod base is solid and substantial, made entirely of metal. The tubular upright is light and strong.

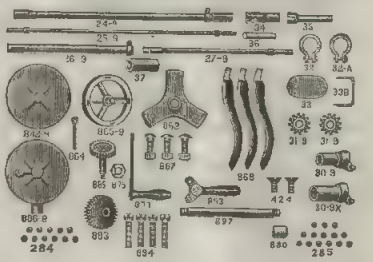
Equipped with Stewart No. 7 ball-bearing shear and takes No. 276 Cutter and No. 277 Comb.

Each

No. 9—¾ inch flexible shaft, 1gth. 3½ ft. to the cogs; complete with 4 combs and 4 cutters; height 39 in.; width between feet 22 inches $18 50 41 64

One in a wood box; weight 50 lbs.

REPAIR PARTS FOR No. 9 SHEEP SHEARING MACHINE



		Each
No. 24-9—Long tube	$1 80	4 05
No. 25-9—Long spindle, complete	2 25	5 07
No. 26-9—Short tube	90	2 04
No. 27-9—Short spindle	90	2 04
No. 30-9—Yoke	1 10	2 49
No. 30-9X—Yokes	1 10	2 49
No. 31-9 Cogs, not threaded	50	1 14
No. 32—Upper tube clamp	30	69
No. 32A—Lower tube clamp	30	69
No. 33—Leather guard	20	42
No. 33B—Hook for leather guard	02	06
No. 34—Bayonet ferrule	30	69
No. 35—End of long or short spindle	30	69
No. 36—End of short spindle pin	02	06
No. 37—Back bushing	10	21
No. 267—Cogs, threaded	50	1 14
No. 284—Set of ball-bearings for spindles	15	33
No. 285 Set of ball-bearings for gears	20	42
No. 424—Grip handle screws	05	12
No. 862—Leg bracket	45	1 02
No. 864—Cotter pin	02	06
No. 865-9—Balance wheel and spindle	1 25	2 82
No. 867—Bracket stud and nut	05	12
No. 868—Legs	45	1 02
No. 875—Hexagon nut for crank	05	12
No. 877—Crank handle	75	1 68
No. 879—Either section of upright	45	1 02
No. 880—Coupling for upright	25	57
No. 882-9—Gear case cover	85	1 92
No. 883—Intermediate gear and pinion	2 15	4 83
No. 885—Drive gear and spindle	1 70	3 84
No. 886-9—Gear case	1 25	2 82
No. 893—Grip handle	30	69
No. 894—Gear case screws	05	12

SHEEP SHEARING MACHINES

STEWART'S

Hand Power, Ball-Bearing.

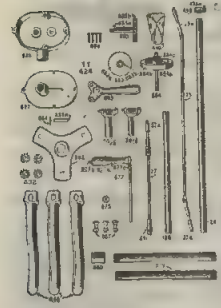
Gearing is made entirely of metal, enclosed in dust and dirt proof case, where they operate in bath of oil. Each gear is cut from the solid steel bar, and is hardened file hard. The shearing handle is of the newest and most approved pattern. The tripod and substantial, and is made entirely of metal. The tubular upright is light and strong.

Equipped with Stewart No. 5 shear and takes No. 276 Cutter and No. 277 Comb. Each

No. 8—⅝ inch flexible shaft, length 2—feet to the cogs; complete with 4 combs and 4 cutters; height 39 in.; width between feet $16 00
22 in. 36 00

One in a wood box; wt. 45 lbs.

REPAIR PARTS FOR No. 8 SHEEP SHEARING MACHINE



	Each
No. 24—Long tube	$1 80
No. 25—Long spindle (complete)	4 05
No. 25A—End of long spindle	2 25
No. 26—Short tube	5 07
No. 27—Short spindle (complete)	80
No. 27A—Cog end of short spindle	2 04
No. 30—Yoke, 11/16 in	90
No. 30A—Yoke, ⅝ in.	2 04
No. 424—Grip handle screws	90
No. 432—Cogs	05
No. 34—Bayonet ferrule	12
No. 436—Tube clamp (complete)	50
No. 436A—Tube clamp screw	69
No. 440—Leather guard	$0 05
No. 862—Foot bracket	20
No. 864—Cotter pin for gear stud	45 1 02
No. 867—Bracket studs	02 06
No. 868—Feet	05 12
No. 875—Crank nut	45 1 02
No. 877—Complete crank	05 12
No. 877A—Wood handle for crank	75 1 68
No. 877B—Stud for wood handle	20 45
No. 877C—Steel crank rod only	15 33
No. 879—Uprights	35 78
No. 880—Coupling for uprights	45 1 02
No. 882—Gear case cover	25 57
No. 882A—Gear stud	85 1 92
No. 883—Comp. intermediate gear and pinion	15 33
No. 883A—Intermediate gear only	2 15 4 83
No. 883B—Intermediate pinion only	1 50 3 39
No. 884—Comp. balance wheel and spindle	65 1 47
No. 884A—Balance spindle only	1 25 2 82
No. 884B—Balance wheel only	30 69
No. 884C—Balance pinion only	65 1 47
No. 885—Drive gear and spindle	30 69
No. 885A—Driving spindle only	1 70 3 84
No. 885B—Driving gear only	55 1 23
No. 886—Gear case	1 15 2 58
No. 893—Grip handle	1 25 2 82
No. 894—Gear case screws	30 69
	05 12

No. 890—Large cog	50	1 14
No. 891—Gear cap screw	05	12
No. 893—Grip handle	30	69
No. 894—Gear case screws	05	12

SHEAR HEADS AND PARTS

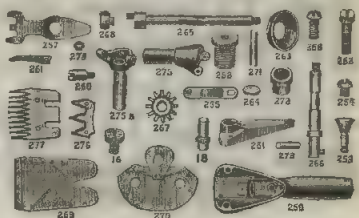
FOR SHEEP SHEARING MACHINES

SHEAR HEAD COMPLETE

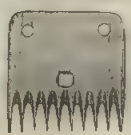
Each

No. 5—Will fit any Stewart hand-operated Shearing Machine, except the Stewart No. 9 $7 00 15 75

EXTRA PARTS FOR No. 5 SHEAR HEAD



	Each	
No. 250—Shell	$1 10	2 49
No. 251—Lid	90	2 04
No. 252—Tension nut	30	69
No. 253—Tension pin	30	69
No. 254—Oil hole screw	05	12
No. 255—Tension spring	10	21
No. 16—Comb screw	10	21
No. 257—Fork	1 75	3 93
No. 258—Tension spring screw	05	12
No. 18—Fork pin	05	12
No. 260—Joint screw	05	12
No. 261—Fork tongue	30	69
No. 262—Lid screw	05	12
No. 263—Ferrule	15	36
No. 264—Tension nut disc	10	21
No. 265—Main spindle	65	1 47
No. 266—Joint spindle	30	69
No. 267—Cog, threaded	50	1 14
No. 268—Crank roller	25	57
No. 269—Leather handle grip	40	90
No. 270—Joint guard, complete	30	69
No. 271—Tongue pin	02	06
No. 272—Shell cup	15	33
No. 273—Joint spindle pin	02	06
No. 274—Fulcrum ball	10	21
No. 275—Upper joint yoke	90	2 04
No. 275A—Lower joint yoke	90	2 04
No. 276—Cutter	20	45
No. 277—Comb	65	1 47



COMBS

Each

No. 216—Used in a No. 4 shear, as furnished with Stewart Machine, furnished prior to 1910 $0 65 1 47

Packed loose, weight each 2½ ozs.

One in a wood box.

CLIPPER ATTACHMENTS

HORSE CLIPPING ATTACHMENTS

Will fit any Stewart Sheep Shearing Machine.

Each

No. 40—Consists of eye spindle and 6½ feet of highest grade flexible shaft complete, with Stewart one nut horse clipping knife $7 50 16 89

One in a wood box; weight about 10 lbs.

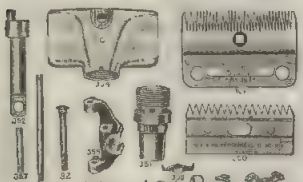
STEWART'S LATEST MODEL CUTTING HEAD

As supplied on all Stewart Horse Clipping Machines since Jan. 1st., 1915.

This clipping head can be used only on a horse clipping machine with a **square** hole in 3 inch ferrule of flexible shaft.

		Each
No. B1—Knife and handle, complete	$3 50	7 86
No. B2—Pair blades top and bottom	2 50	5 61
No. B3—Handle only	1 00	2 25

REPAIR PARTS FOR No. B1 CUTTING HEAD



		Each
No. 91—Tension spring	$0 05	12
No. 92—Tension bolt	05	12
No. 94—Tension nut	05	12
No. 351—Taper sleeve	40	90
No. 352—Drive pin	35	78
No. 353—Drive hall	10	21
No. 354—Brace	50	1 14
No. 355—Cross head	50	1 14
No. 356—Cross head pin	10	21
No. 357—Guide pins	05	12
No. 358—Ball boss	05	12
No. 359—Socket boss	05	12
No. 360—Top plate	1 00	2 25
No. 361—Bottom plate	1 50	3 39

STEWART'S OLD MODEL CUTTING HEAD

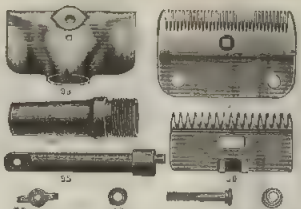
As supplied on all Stewart Horse Clipping Machines previous to Jan. 1st., 1915.

This clipping head can be used only on a horse clipping machine with a **round** hole in the 3 inch ferrule of the flexible shaft.

		Each
No. C1—Knife and handle, complete	$3 50	7 86
No. C2—Pair blades, top and bottom	2 50	5 61
No. C3—Handle only	1 00	2 25

CLIPPER ATTACHMENTS

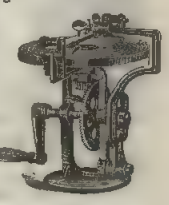
REPAIR PARTS FOR No. C1 CUTTING HEAD



		Each
No. 90—Top plate	$1 00	2 25
No. 91—Tension spring of handle	05	12
No. 92—Tension bolt of handle	05	12
No. 93—Eccentric roll of handle	10	21
No. 94—Tension nut of handle	05	12
No. 95—Pin and shaft of handle	35	78
No. 97—Shank of handle	40	90
No. 98—Front part of handle	50	1 14
No. 99—Bottom plate	1 50	3 39

CLIPPER KNIFE GRINDERS

STEWART'S AUTOMATIC



Automatic. Suitable for either No. 1, 1902 Chicago or 20th Century horse clippers.

Sharpens horse clippers good as new in a few minutes' time. No skill required; size of box 13½x13½x16 in.

Each

No. 3—Fitted for horse clip $16 00
per knives 36 00
No. 3C—Fitted for both 16 50
horse and sheep knives 37 14
One in a wood box; wt. each 60 lbs.

HAND

For either No. 1 horse clipping or No. 8 and No. 9 sheep shearing machines. Sharpens equal to new in a few minutes time.

Each

No. 11—Size of case 9½ x 10½ x4½ in.; wt. 6 00 each 8 lbs 13 50
One in a wood box.

GRINDER PASTE

This is a special compound that gives better results in sharpening the knives than any known substance. For use on Stewart grinding machine disc, in grinding blades for horse and sheep shearing machines.

Each

No. 25GP—In ½ pint tin cans $0 40 90
Packed loose; weight each about 1 lb.

TALKING MACHINES

MANAPHONES

The Manaphone is designed to meet the demands of the most discriminative purchasers; a talking machine whose superior tone quality will instantly appeal to the ears of the most critical listeners possessing educated musical tastes.

It is manufactured by the same factory and the same skilled artisans who for 68 years have been makers of world famous Clough & Warren pianos. It was designed by experts having a knowledge of the finest principles of acoustics, resulting in a machine which, for beauty and fidelity of tone production is rivaled only by nature itself.

The Manophone is a finished article, an ornament to the most richly furnished homes. It is built by master workmen, educated to turn out only a first-class product. Plays all makes of records (without an extra attachment), with a pleasing interpretation heretofore unequaled.

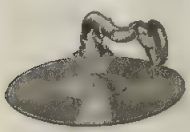


Fig. 1

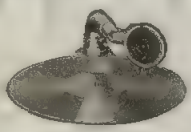


Fig. 2

Figure 1 shows the position of the reproducer when set to play Lyric, Puritain, Victor and all other Lateral cut records.

Figure 2 shows the position of the reproducer when set to play Path, Edison and similar cut records.

MODEL M.

Waxed oak and Fumed oak or mahogany finish case.

Universal tone arm; plays Hill and Dale or Lateral cut records; twelve inch turntable; brake and speed regulator; heavy double spring worm gear motor, can be wound while playing. All metal parts highly nickel plated.

Height ..... 14½ inches.
Width ..... 18½ inches.
Depth ..... 18½ inches.

Nos.		List	Each
M-M	Mahogany	*$70 00*	97 50
M-WO	Waxed Oak	*70 00*	97 50
M-FO	Fumed Oak	*70 00*	97 50

One in a wood box; shipping weight each 53 lbs.

TALKING MACHINES

MANOPHONES

MODEL A A

Cases are of genuine veneered 5-ply stock, ⅞ inch thick.

Mahogany cases are of genuine mahogany veneer. Oak cases (reguardless of finish), are genuine quarter sawed, oak veneer. Universal tone arm; plays Hill and Dale or Lateral cut records; twelve inch turn table; tone modifier; heavy double spring motor, can be wound while playing; five shelves for record albums.

All metal parts highly nickel plated.

Height ..... 42½ inches
Width ..... 19 inches
Depth ..... 19 inches

Nos.		List	Each
AA-M	Mahogany	*$120 00*	148 65
AA-FO	Fumed Oak	*120 00*	148 65

Well boxed; shipping weight each 112 lbs.

MODEL A

Cases are of genuine veneered 5-ply stock, ⅞ inches thick. Mahogany cases are of genuine mahogany veneer. Oak cases (reguardless of finish), are of genuine quarter sawed oak veneer

Universal tone arm; plays Hill and Dale or Lateral cut records; twelve inch turntable; tone modifier; automatic stop; heavy double spring motor, can be wound while playing; five shelves for record albums.

All metal parts highly nickel plated.

Height ..... 45 inches
Width ..... 19½ inches
Depth ..... 21 inches

No.		List	Each
A-M	Mahogany	*$150 00*	185 85
A-GO	Golden Oak	*150 00*	185 85

Well boxed; shipping weight each 138 lbs.

OLYMPIC TALKING MACHINE RECORDS

Double Disc—Lateral Cut. With Selections on both sides.

Made in 10 inch size and can be played on all machines having Universal Tone Arm. Can be played on Victor and Columbia Machines without any change in the attachment.

Every selection recorded is chosen by musical experts and played and sung by artists especially selected for this delicate work.

You will find all records listed in alphabetical order making it convenient to locate at a glance.

Nos.		List	Each
17102	**Forgotten** Baritone with Orchestra—Percy Hemus	$1 00	1 80
	SOMEWHERE A VOICE IS CALLING Baritone with Orchestra Percy Hemus		
17108	**Good Night, Little Girl, Good Night** Tenor with Orchestra—Charles Harrison	1 00	1 80
	A DREAM Tenor with Orchestra Charles Harrison		
15121	**Gypsy Blues** Fox Trot, Irving Weiss and his Ritz Carlton Orchestra	85	1 53
	CANADIAN CASPER Fox Trot Irving Weiss and his Ritz Carlton Orchestra		
18101	**Happy Days** Philharmonic Trio Landau Wagner and Schuetz	85	1 53
	THE SWEETEST STORY EVER TOLD—Philharmonic Trio—Landau—Wagner and Schuetz		
15108	**Hawaiian Blues** Fox Trot Rudy Weidoeft's Orchestra	85	1 53
	YOU OUGHT TO SEE MY BABY—Fox Trot—Palace Trio Orchestra		
16104	**Hawaiian Lullaby**—Honolulu Hawaiian Orchestra	85	1 53
	KAWAHA—Hawaiian Guitars		
16101	**Hawaiian Twilight** Hawaiian Singing Guitars	85	1 53
	NAUGHTY WALTZ—Waltz—Hawaiian Singing Guitars		
19103	**Heart Bow'd Down**—Baritone with Orchestra—Percy Hemus	1 25	2 25
14101	**Held Fast in a Baby's Hand** Tenor with Orchestra Hugh Donovan	85	1 53
	OVER THE HILL—Tenor with Orchestra—Hugh Donovan		
14103	**Henry Jones Your Honey Moon is Over** Al Bernard and Earnest Hare	85	1 53
	I AIN'T AFRAID OF ANYTHING DAT'S ALIVE—Al Bernard—Comedian with Orchestra		
14109	**Honey Rose** Comedienne with Orchestra Aileen Stanley	85	1 53
	MIMI—Comedienne with Orchestra Aileen Stanley		
18106	**Humoresque** Violin Solo by Michel Gusikoff, Pianoforte by Emanuel Balaban	1 00	1 80
	VALSE BLUETTE Violin Solo by Michel Gusikoff, Pianoforte by Emanuel Balaban		
14108	**I am Falling in Love with the Girl of my Dreams** Tenor Sam Ash	85	1 53
	JUST A KISS FROM YOU—Tenor with Orchestra—Sam Ash		
14103	**I Ain't Afraid of Anything Dat's Alive** Comedian with Orchestra Al Bernard	85	1 53
	HENRY JONES YOUR HONEYMOON IS OVER Al Bernard and Earnest hare		
15102	**I Found A Rose In the Devil's Garden** Fox Trot—Merry Melody Band	85	1 53
	NA JO—Fox Trot—Rudy Weidoeft's Californians		
14111	**I'm Looking for a Blue Bird to Chase My Blues Away** Al Bernard with Orchestra	85	1 53
	IN A LITTLE FRONT PARLOR (ON AN OLD BACK STREET) Al Bernard with Orchestra		
14106	**I'm Nobody's Baby** Baritone with Orchestra Arthur Fields	85	1 53
	PEGGY O'NEIL—Baritone with Orchestra Arthur Fields		
15107	**In a Boat (For Two)**—Fox Trot—Lanin's Roseland Orchestra	85	1 53
	LUCKY DOG—Fox Trot Lanin's Roseland Orchestra		
14111	**In a Little Front Parlor (On an Old Back Street** Al Bernard with Orchestra	85	1 53
	I'M LOOKINM FOR A BLUE BIRD TO CHASE MY BLUES AWAY Al Bernard with Orchestra		
14114	**In The Old Town Hall** Tenor with Orchestra Billy Jones	85	1 53
	TUCK ME TO SLEEP—Tenor with Orchestra—Billy Jones		
14110	**In Your Eyes**—For Singing, Dancing Earnest Hare with Orchestra	85	1 53
	CHANGE YOUR NAME Malinda Lee—Earnest Hare and Al Bernard		
15104	**Jabberwocky**—Fox Trot—Rudy Weidoeft's Californians	85	1 53
	MELLO CELLO—Waltz—Lanin's Roseland Orchestra		
15118	**Jane**—Fox Trot—Lanin's Roseland Orchestra	85	1 53
	MELODY IN "F"—One Step—Earl Fuller's New York Orchestra		
20101	**Jesus I Come** Baritone and Tenor George Craig and Charles Knapp	85	1 53
	FLEE AS A BIRD—Baritone with Orchestra—Victor Churchill		
14107	**Just a Kiss from You** Tenor with Orchestra Sam Ash	85	1 53
	I AM FALLING IN LOVE WITH THE GIRL OF MY DREAMS—Tenor—Sam Ash		
15116	**Just Because** Fox Trot Earl Fullers New York Orchestra	85	1 53
	AIN'T WE GOT FUN—Fox Trot—Earl Fullers New York Orchestra		
17110	**Just That One Hour** Tenor with Orchestra Charles Hart	1 00	1 80
	DOWN IN THAT HAPPY VALLEY Tenor and Baritone Charles Hart and Elliott Shaw		
16104	**Kawaha**—Hawaiian Guitars	85	1 53
	HAWAIIAN LULLABY—Honolulu Hawaiian Orchestra		
15114	**Kaharmine**—Fox Trot Merry Melody Men	85	1 53
	SATURDAY Fox Trot Lanin's Roseland Orchestra		
17107	**Kiss Me Again** Soprano Gloria Perles Violin Obligato Michel Gusikoff	1 00	1 80
	AVE MARIA—Soprano—Gloria Perles—Violin Obligato—Michel Gusikoff		
18112	**Kitten On The Keys** Piano Classic Lindsay McPhail	85	1 53
	VALSE CLASSIQUE Xylophone Solo, Geo H. Green Orchestra accompaniment		
16103	**La Palma**—Waikiki Orchestra Louise and Ferera	85	1 53
	CIRIBIRIBIU—Waikiki Orchestra—Louise and Ferera		
20102	**Lead Kindly Light**—Baritone with Orchestra—Elliott Shaw	85	1 53
	THE HOLY CITY—Tenor with Orchestra Charles Hart		

THORNYCROFT

PASSENGER STEAMERS

PAQUEBOTS A VAPEUR "THORNYCROFT." VAPORES DE PASAJEROS "THORNYCROFT."

A SHALLOW DRAUGHT TWIN TANDEM SCREW PASSENGER AND CARGO STEAMER FOR COLONIAL SERVICE

Length, 180 ft.; Breadth 27 ft. Depth, 7ft , Draught with 61 tons load, 3ft ; Speed, 14½ knots.

First-class accommodation on promenade deck for 18 day passengers, with large dining saloon, etc., and for 10 second-class passengers on main deck, with bar, galley and lavatory. The ship's officers are berthed forward on main deck, and crew of 16 men under main deck forward. The passengers are protected by a permanent awning over promenade deck. Two roomy cargo holds are provided, with overhead travellers, and 2 cargo cranes worked from the team windlass and winch. Two sets of triple expansion surface condensing engines, cylinders 11¼ in., 16½ in. and 26½ in. diameter by 13½ in. stroke. One Watertube Boiler.

NAVIRE À VAPEUR À FAIBLE TIRANT D'EAU ET À DOUBLE HÉLICE EN TANDEM POUR SERVICE COLONIAL DE PASSAGERS ET DE MARCHANDISES

Longueur, 55 m., Largeur 8,20 m., Profondeur, 2,10 m.; Tirant d'eau avec charge de 61 tonnes, 0,91 m ; Vitesse, 14½ nœuds

Installations sur le pont promenoir pour 18 passagers de 1e classe, avec vaste salle à manger, etc., et pour 10 passagers de 2e classe sur le pont principal, avec bar, cuisine et lavatories. Les officiers du bord ont leur cabine à l'avant du grand pont, et les 16 hommes d'équipage à l'avant, sous le grand pont. Les passagers du pont-promenade sont protégés par une tente permanente. Deux cales spacieuses sont prévues pour la cargaison avec rocan beaux à trolley et 2 grues à marchandises, actionnées par le guindeau et le treuil à vapeur. Doubles machines à triple expansion et à condensation à surface, cylindres de 285 mm. 419 mm. et 673 mm de diamètre sur 343 mm. de course. Une chaudière aquatubulaire.

BUQUE DE PASAJEROS Y CARGA DE POCO CALADO, Á DOS HÉLICES EN TANDEM, DESTINADO PARA SERVICIO COLONIAL.

Eslora, 55 m ; Manga, 8,20 m.; Puntal, 2,10 m.; Calado con cargamento de 61 toneladas, 0,91 m ; Velocidad, 14½ nudos.

Alojamiento, instalación etc., en cubierta de paseo para 18 pasajeros del mejor estilo, comprendiendo amplio salón-comedor, etc , y para 10 pasajeros de segunda clase en cubierta principal, comprendiendo buffet, cocina y lavatorio. Los camarotes de los oficiales del buque están situados en la parte de proa de la cubierta principal, mientras que los de la tripulación se encuentran debajo de la parte de proa de la cubierta principal. Un toldo permanente colocado encima de la cubierta de paseo protege a los pasajeros. Se proveen dos bodegas espaciosas conductores suspendidos, y dos grúas de carga movidas por medio de cabrestante y cabria á vapor. Hay dos juegos de maquinas de triple expansión de condensación de superficie, sus cilindros midiendo 285 mm. 419 mm. y 673 mm. de diámetro. Carrera : 343 mm. Una caldera aguatubular.

THORNYCROFT

PASSENGER STEAMERS

PAQUEBOTS "THORNYCROFT." VAPORES DE PASAJEROS "THORNYCROFT."

SHALLOW DRAUGHT PASSENGER PADDLE STEAMER

Length overall, 236 ft.; Breadth 32 ft., Depth, 8 ft. 6 in.; Draught, 3 ft. 4½ in., Speed, 9 knots.

The accommodation is luxuriously furnished in the best style and consists of 58 passengers cabins, observation room, drawing-room, private sitting-rooms, smoke-room, dining saloon for 78 people, buffet, manager's office, officers' cabins, 7 bathrooms, etc. There are also galley, bakery, cold store and crew spaces under deck forward. Steam Steering gear, warping capstan and windlass. The machinery consists of triple diagonal engines of about 500 I.H.P. with cylinders 17 in., 27 in. and 43 in. diameter by 48 in. stroke. Steam is supplied by two Locomotive Boilers having a working pressure of 170 lbs. Electric light is fitted throughout and the bathrooms have hot and cold water services.

VAPEUR TRANSPORTS À FAIBLE TIRANT D'EAU À ROUES À AUBES

Longueur hors tout, 72 m., Largeur, 9,75 m., Creux, 2,60 m., Tirant d'eau, 1,02 m., Vitesse, 9 nœuds

L'installation est luxueuse, avec ameublement du meilleur style et consiste en 58 cabines de passagers, pièce d'observation, salon, petits salons privés, fumoir, salle à manger pour 78 personnes, buffet, bureau de la direction, cabines d'officiers, 7 salles de bain etc. Il y a aussi une cuisine, une boulangerie, un magasin frigorifique et les logements pour l'équipage sous le pont avant. Mécanisme de gouvernail, cabestan de frein à vapeur. La machinerie consiste en machines triples diagonales d'environ 500 I.H.P. avec cylindres de 432 mm., 686 mm. et 1,092 m. de diamètre sur 1,22 m. de course. La vapeur est fournie par deux chaudières de locomotive ayant une pression effective de 12 kilos par m². L'éclairage électrique est installé partout et les salles de bain sont pourvues d'installations à eau chaude et à eau froide.

VAPOR DE RUEDAS DE POCO CALADO PARA PASAJEROS

Eslora total, 72 m., Manga, 9,75 m., Puntal, 2,60 m., Calado, 1,04 m., Velocidad, 9 nudo

La instalación comprende muebles lujosos del mejor estilo y consiste en 58 camarotes para pasajeros, cuarto de observación, salón, gabinetes particulares, fumadero, salón comedor para 78 personas, bufet, escritorio del gerente, camarotes para oficiales, 7 cuartos de baños, etc. También hay cocina, panadería, depósito frigorífico y alojamiento para la tripulación debajo de la cubierta de proa. Aparejo de gobierno, cabrestante de cabo movido a vapor y cabria de anclas. La maquinaria consiste en máquinas triples diagonales de unos de 500 I.H.P., los cilindros midiendo 432 mm., 686 mm. y 1,092 m. de diámetro por 1,22 m. de carrera. El vapor lo suministran dos calderas de locomotora que tienen una presión útil de 12 kilos por m². El alumbrado eléctrico va instalado en todas partes y los cuartos de baños van provistos de un servicio de agua caliente y agua fría.

THORNYCROFT

CARGO STEAMERS.

NAVIRES MARCHANDS "THORNYCROFT." BUQUES DE CARGA "THORNYCROFT."

SINGLE SCREW CARGO STEAMER. 2,000 TONS DEAD WEIGHT

Length 240 ft.; Breadth, 36 ft.; Depth, 20 ft.; Draught, 17 ft.; Speed, 9½ knots; I.H.P., 900. Classification, Lloyd's 100 A.1.

This vessel would be suitable for general cargo on fairly long voyages. Single deck with poop, bridge and forecastle. Two holds and four hatchways, four steam winches, steam windlass, steam steering gear, electric light. Accommodation for officers on bridge and crew forward (or aft if desired, open forecastle). Bunker capacity 100 tons in permanent bunkers and 200 tons in bridge tween decks. Water ballast in cellular double bottom and in after peak. Triple expansion surface condensing engines, cylinders 18 in., 30 in. and 50 in. diameter by 33 in. stroke. Two single ended boilers each 13 ft. diameter and 10 ft. 6 in. long.

NAVIRE À CARGAISON À UN HÉLICE DE [illegible] TONNES DE PORTE-LEST

Longueur, 73 m.; Largeur, 11 m.; Profondeur, 6,10 m.; Tirant d'eau, 5,17 m.; Vitesse, 9½ nœuds; I.H.P., 900. Classification, Lloyd's 100 A 1.

Ce navire convient au transport de tout genre de cargaison pour d'assez longs voyages. Pont unique avec dunette passerelle et gaillard d'avant. Deux cales et 4 écoutilles, 4 treuils à vapeur, cabestan à vapeur, gouvernail à vapeur, éclairage électrique. Logement des officiers sur la passerelle et de l'équipage à l'avant (ou à l'arrière si désiré, gaillard d'avant ouvert). Capacité des soutes 100 tonnes, dans des soutes permanentes, et 200 tonnes d'entrepont. Lest à eau en compartiment à double fond et à l'arrière. Machine à condensation à surface à triple expansion, cylindres de 457 mm., 762 mm. et 1,270 mm. de diamètre sur 838 mm. de course. Deux chaudières à [illegible] ; celles-ci chacune de 3,95 m. de diamètre et de 3,20 m. de long.

BUQUE DE CARGA DE HÉLICE SIMPLE. CARGA DE PESO 2,000 TONELADAS

[illegible] ; Manga, 11 m.; Puntal, 6,10 m.; Calado, 5,17 m., Velocidad, 9½ nudos, I.H.P., 900. Clase Lloyd's 100 A 1

Este buque [illegible] de encontrarse muy apropiado para emprender viajes de duración regular llevando un cargamento general. Cubierta simple con toldilla, castillo de proa. Hay dos bodegas y [illegible] 4 cabrestantes a vapor, cabrestante a vapor, aparejo de gobierno a vapor y alumbrado eléctrico. Alojamiento para los oficiales en el puente, y para la tripulación en la parte de proa o bien en la parte de popa a voluntad (castillo de proa descubierto). Capacidad de carboneras 100 toneladas en las carboneras permanentes y 200 toneladas entrepuentes. Lastre de agua en compartimento de doble fondo y en pena la popa. Maquina de triple expansión de condensación de superficie: diámetro de cilindros, 457 mm, [illegible] mm y 1,270 mm carrera, 838 mm. Dos calderas con hogares á una extremidad, cada una midiendo 3,95 m. de diametro por 3,20 m. de largo.

THORNYCROFT

CARGO STEAMERS

NAVIRES MARCHANDS "THORNYCROFT." BUQUES DE CARGA "THORNYCROFT."

LIGHT DRAUGHT TWIN SCREW CARGO STEAMER FOR RIVER AND ESTUARY WORK

Length, 220 ft.; Breadth, 33 ft.; Depth, 11 ft.; Draught, 8 ft., Load, 720 tons; Speed, 11 knots; I.H.P. 900, Class, 100 A1 Lloyd's for river purposes.

The vessel has two holds, each having wide hatches 40 ft. long. Two steam winches, windlass and steering gear. Three sleeping cabins and a large saloon aft for officers and passengers. Teak houses on bridge for captain, purser and pilots, with galley and pantry under. Crew space for 12 and steel deckhouse for 4 forward. Two sets of triple expansion surface condensing engines, cylinders 11 in., 18 in. and 29 in. diameter. Stroke, 21 in. Two boilers, 12 ft. 6 in. diameter by 10 ft. 9 in. Working pressure, 180 lbs. Bunker capacity, 90 tons.

NAVIRE DE COMMERCE À DOUBLE HÉLICE ET À FAIBLE TIRANT D'EAU POUR TRANSPORT DE MARCHANDISES PAR RIVIÈRE ET AUX EMBOUCHURES DE FLEUVES

Longueur [illegible] 67 m., Profondeur, 3,35 m., Tirant d'eau, 2,44 m.; Chargement 720 tonnes; Vitesse, 11 noeuds; I.H.P. 900; Classe, 100 A.1 de Lloyd's pour transports fluviaux.

Ce navire a deux cales, chacune pourvue de larges écoutilles de plus de 12 mètres de long. 2 treuils, 1 cabestan et un appareil de gouvernail à vapeur. 3 cabines dortoirs à passagers et grand salon à l'arrière pour passagers et passagers. Logement en bois sur le pont pour le capitaine, commissaire de bord et les pilotes avec cuisine et office en dessous. Logement pour 12 hommes l'équipage et logement de pont pour 4 à l'avant. Deux groupes de machines à triple expansion et à condensation à surface, cylindres de 279 mm, 457 mm et 737 mm de diamètre, course de 533 mm. Deux chaudières de 3,8 m de diamètre sur 3,28 m. Pression effective de 12,5 kilos par cm². Capacité des soutes, 90 tonnes.

BUQUE DE CARGA DE POCO CALADO DOS HÉLICES: DESTINADO PARA SERVICIO FLUVIAL Y EN ESTUARIOS

Eslora, 67 m.; Manga, 10 m., Puntal, 3,35 m.; Calado, 2,44 m.; Carga, 720 toneladas, Velocidad, 11 nudos; I.H.P. 900, Clase, 100 A 1, Lloyd's para servicio fluvial.

El buque tiene dos bodegas, cada una teniendo cuarteles anchos de 12 metros de largo. Hay dos cabrias a vapor, cabrestante y aparejo de gobierno. Hay tres camarotes-dormitorios y un amplio salón en la parte de popa para los oficiales y pasajeros, situados todos en el puente para el capitán, maestre de víveres y pilotos, estando debajo la cocina y despensa. Alojamiento para 12 hombres de la tripulación y castillo de proa para cuatro en la cubierta de abajo. Dos juegos de máquinas de triple expansión y condensación de superficie, de cilindros de 279 mm, 457 mm y 737 mm de diámetro y 533 mm de carrera. Dos calderas de 3,8 m de diámetro por 3,28 m. Presión útil, 12,5 kilos por cm². Capacidad de carboneras, 90 toneladas.

JOHN I. THORNYCROFT & CO., LTD.

SHIP REPAIRING AND OVERHAULS

RÉPARATION ET INSPECTION DE NAVIRES, MATÉRIEL "THORNYCROFT."

REVISACIÓN Y REPARACIÓN DE BUQUES POR LA CASA "THORNYCROFT."

Our Southampton Works are fully equipped for executing repairs and overhauls to all types of vessels. Dry-dock accommodation suitable for the largest vessels afloat. The Cunard liner "Aquitania" was re-fitted by us for hospital service during the war.

WE HAVE THE LARGEST DOCKING AND SHIP-REPAIRING FACILITIES IN THE SOUTH OF ENGLAND.

Official Repairers to the Cunard Steamship Co., Ltd.

Nos chantiers de Southampton sont munis de l'outillage le plus complet pour l'inspection et la réparation des navires de tous types. Nos cales sèches peuvent recevoir les bâtiments des plus grandes dimensions existantes. Le paquebot "Aquitania" de la Cie Cunard a été entièrement converti par nous en navire hôpital pour les besoins de la guerre.

IL N'EST PAS, DANS LE SUD DE L'ANGLETERRE, D'ÉTABLISSEMENT POSSÉDANT LES MOYENS DONT NOUS DISPOSONS POUR LA MISE EN CALE ET LA RÉPARATION DES NAVIRES

Nous avons l'entreprise officielle des réparations de la Cunard Steamship Co., Ltd.

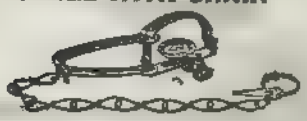
Nuestros astilleros de Southampton se hallan perfectamente equipados para llevar á cabo reparaciones y revisaciones á buques de todas clases. Disponemos de diques secos que pueden acomodar los mayores buques que existen. El transatlántico "Aquitania" de la Cia Cunard fué convertido por nosotros en un buque-hospital para servicio durante la guerra.

EN CUANTO Á DIQUES Y TODO LO NECESARIO PARA LA REPARACIÓN DE BUQUES NOSOTROS DISPONEMOS DE LAS MAYORES FACILIDADES EN EL SUR DE INGLATERRA.

La Cunard Steamship Co., Ltd. nos ha confiado oficialmente la reparación de todos sus buques.

JOHN I. THORNYCROFT & CO., LIMITED, LONDON, S.W.1, and SOUTHAMPTON, ENGLAND

VICTOR GAME TRAPS
STEEL WITH CHAIN



SINGLE SPRING

No. 0V—Rat, 3½ in., w't per doz. 5 lbs., per dozen $3.40

No. 1V—Muskrat, 4 in., w't per doz. 7½ lbs., per dozen $4.00

No. 1½V—Mink, 4⅝ in., w't per doz. 11½ lbs. .....per dozen $6.10

DOUBLE SPRING

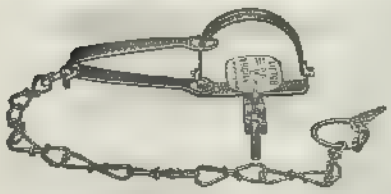
No. 2V—Fox, 4⅝ in., w't per doz. 13¾ lbs. .....per dozen $8.40

No. 3V—Otter, 5½ in., w't per doz. 21½ lbs. .....per dozen $14.30

No. 4V—Beaver, 5⅞ in., w't per doz. 24½ lbs. .....per dozen $17.20

PACKED IN BARRELS, NO. 0V, FIFTY-FIVE DOZEN; NO. 1V, FORTY; NO. 1½V, TWENTY-FIVE; NO. 2V, SIXTEEN; NO. 3V, TEN; NO 4V, SIXTEEN

VICTOR GIANT TRAPS



WITH CHAIN

The height of jaw is such that it catches high on animals' leg, jaws have great holding power.

No. 1VG—Muskrat, Skunk and Mink, spread of jaws 4⅝ in., w't per doz. 8¾ lbs. .....per dozen $5.10

THIRTY-THREE DOZEN IN A BARREL

VICTOR DOUBLE GRIP TRAPS

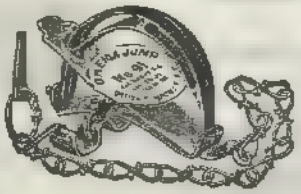
WITH CHAIN

The double jaw has a double grip, thus making it practically impossible for the animal to twist or gnaw out.

No. 91V—Skunk, Muskrat and **Mink,** spread of jaws 4⅝ in., w't per doz. 8½ lbs. .....per dozen $6.34

THIRTY-FOUR DOZEN IN A BARREL

ONEIDA JUMP TRAPS



Double Jaw with Chains.

No. 91J—Muskrat or skunk, 4¾ in., single spring, w't per doz 8½ lbs., per dozen $7.50

Take an easy, firm grip so high up cannot twist or gnaw out. Rarely break leg bones because of double surfaces.

Single Spring with Chain.

No. 0J—Rat or Gopher, 4 in., **single spring,** w't per doz. 5½ lbs., per dozen $4.75

No. 1J—Muskrat, 4¾ in., **single spring,** w't per doz. 8 lbs., per dozen $5.50

No. 1½J—Mink, 5½ in., **single spring,** w't per doz. 9½ lbs., per dozen $8.25

No. 2J—Fox, 5¾ in., **single spring,** w't per doz. 14 lbs., per dozen $13.00

No. 3J—Coyote or Badger, 6¾ in., **single spring,** w't per doz. 22 lbs., per dozen $17.75

Light, compact, quality guaranteed. NOS. 0J, 1J AND 1½J, TWELVE DOZEN IN A CASE; NO. 2J, TWENTY; NO. 3J, TWELVE IN A BARREL

NEWHOUSE TRAPS

No. 2N.

No. 0N—Rat, 3½ in., **single spring,** w't per doz. 7½ lbs., per dozen $9.50

No. 1N—Muskrat, 4 in., **single spring,** w't per doz. 10 lbs., per dozen $11.25

No. 1½N—Mink, 4⅝ in., **single spring,** w't per doz. 14 lbs., per dozen $17.00

No. 2N—Fox, 4⅝ in., **double spring,** w't per doz. 18 lbs., per doz. $25.10

No. 3N—Otter, 5½ in., **double spring,** w't per doz. 28½ lbs., per dozen★ $33.50

No. 4N—Beaver, 6⅜ in., **double spring,** w't per doz. 38 lbs., per dozen $39.50

No. F5N—Bear, 11¾ in., double spring with teeth, w't per doz. 234 lbs., per dozen★ $313.25

No. F6N—Grizzly Bear, 16 in., double spring with teeth, w't per dozen 522 lbs.★ .....per dozen $705.00

These traps are most carefully made in every detail, of the finest materials and are all thoroughly tested, guaranteed in every way.

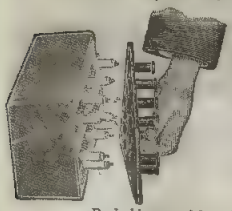
NOS. ON AND IN, TWELVE DOZEN IN A CASE; NO. 1½N, TWENTY-FIVE, NO. 2N, FIFTEEN; NO. 3N, TEN DOZEN IN A BARREL, NO. 4N, SEVEN DOZEN IN A BARREL

Our Very Best is the Very Best.

★ Items Marked Thus ★ are Shipped from Factory Only.

COIL BOX PROTECTORS

B. & H, FOR FORD CARS



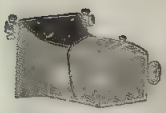
Made in one piece from fresh, live rubber of high quality; no seams or joints; made to perfectly fit any Ford coil box. Protects the coil box and connections from the rain and water which otherwise runs down the dash, short-circuiting the wiring system.

No.	A-9C8P
1 to 25, Each	$2 55
25 or more, Each	2 40

Packed loose; weight each about 1 ½ lbs.

AUTOMOBILE RAINCOATS OR COIL BOX PROTECTORS

CRAWFORD



For Ford Cars.

Made of enamel drill; designed to fit all models of Ford cars. Protects coil box from rain or snow. When not in use can be rolled up and held firmly under the windshield making it always ready for use.

	Each
No. A-510—Weight each ½ lb.	$1 35

One in a paper package.

COIL UNITS

K-W, FOR FORD CARS

Baked in a temperature of 250 degrees. At the end of that time a vacuum process removes all moisture from insulation. A special solution is then forced into the coil insulation, which insures against possibility of moisture, short circuits or breaking down of insulation.

Height 5 in.; width 3¼ in.; depth 2¼ in.

No.	A-104FU
Less than 50, Each	$4 95
50 or more, Each	4 65

Packed loose; weight each 2 lbs.

COIL CONTACT POINTS AND SPRINGS

TUNGSTEN POINTS, K-W, FOR FORD CARS

For K-W Vibrators.

Made of best quality blue steel and brass.

	Per Pair
No. A-73PS—Weight per pair ½ oz.	$0 42

One pair in an envelope.

K-W SPARKITE, FOR FORD CARS
For K-W Coil Units.

Sparkite points are larger than other points and of solid metal. Sparks at lower cranking speeds. Produces a hotter spark at any speed. Give long life and higher efficiency.

	Per Pair
No. A-1KWSC Weight per pair 1 oz.	$0 69

One pair in a sealed envelope.

SPARK PLUGS

All ½ inch plugs shown on this page are standard thread; all ⅞ inch 18 thread A. L. A. M.

CHAMPION "X" FOR FORD CARS

Adopted by the Ford Motor Co. as standard equipment on Ford cars since 1911.

No.	A-A15-X
Size, inches	½
Less than 100, Each	$1 50
100 or more, Each	1 38

One in a cardboard box; wt. each 4 ozs.

CHAMPION

For Studebaker cars made previous to 1920 models, and trucks, tractors, farm and stationary engines.

No.	A-A13
Size, inches	½
Less than 100, Each	$1 74
100 and less than 1000, Each	1 68
1000 or more, Each	1 62

One in a cardboard box; weight each 4 ozs.

CHAMPION

For use in Allen, Dixie Flyer, Elcar, Elgin, Glide, Grant, Hollier, Jones, Kline Kar, Lexington, Packard, Paige, Detroit, Pierce-Arrow, Metz, Monitor, Moore, Studebaker "1920" and tractors, trucks, farm and stationary engines.

No.	A-A43
Size, inches	⅞
Less than 100, Each	$1 74
100 and less than 1000, Each	1 68
1000 or more, Each	1 62

One in a cardboard box; weight each 4 ozs.

CHAMPION, Heavy Duty.

For use in Beggs, Bell, Briscoe, Climber, Detroiter, Geronimo, Harroun, Jackson, King, Marbohm, Olympian, Sayers, Tulsa and heavy service trucks and tractors.

No.	A-JA-43
Size, inches	⅞
Less than 100, Each	$1 74
100 and less than 1000, Each	1 68
1000 or more, Each	1 62

One in a cardboard box; weight each 4 ozs.

CHAMPION

Especially adapted for tractors, trucks, farm and stationary engines where a standard ½ inch plug is used.

No.	A-A14
Size, inches	½
Less than 100, Each	$1 74
100 and less than 1000, Each	1 68
1000 or more, Each	1 62

One in a cardboard box; weight each 4 ozs.

CHAMPION "OVERLAND"

Specially recommended to meet the requirements of the Overland motors.

No.	A-A14-O
Size, inches	½
Less than 100, Each	$1 74
100 and less than 1000, Each	1 68
1000 or more, Each	1 62

One in a cardboard box; weight each 4 ozs.

SPARK PLUGS

All ½ inch plugs shown on this page are standard thread; all ⅝ inch, 18 threads A. L. A. M.

CHAMPION, DODGE SPECIAL

Petticoat insulator, 1¼ inch hexagon; two piece.

No.	A-AB44
Size, inches	⅝
Less than 100, Each	$1 74
100 and less than 1000, Each	1 68
1000 or more, Each	1 62

One in a cardboard box; weight each 4 ozs.

CHAMPION "MAXWELL"

For use in Biddle, Dodge, Gardner, Highlander Six, Spaulding, Mitchell, States, also tractors, farm and stationary engines.

No.	A-A44
Size, inches	⅞
Less than 100, Each	$1 74
100 and less than 1000, Each	1 68
1000 or more, Each	1 62

CHAMPION "Metric"

For use in Essex cars, White trucks and engines requiring metric thread.

No.	A-A64
Size, in	⅝
Less than 100, Each	$1 74
100 and less than 1000, Each	1 68
1000 or more, Each	1 62

One in a cardboard box; wt. each 4 ozs.

CHAMPION, "Aero" Truck.

No. A-JA543 for Australian Six, Cole, Chalmers, Hudson, Liberty, Locomobile, Moon, National, Peerless, Hupmobile, heavy service trucks and engines.

No. A-JA53 for Stephens, Westcott, Jordan Passenger Cars, Trucks and Tractors.

Nos.	A-JA543	A-JA53
Size, inches	⅞	⅞
Less than 100, Each	$1 74	1 74
100 and less than 1000, Each	1 68	1 68
1000 or more, Each	1 62	1 62

One in a cardboard box; weight each 5 ozs.

CHAMPION—FOR FORDSON TRACTORS

Equipment on Fordson tractors model T 6-1920 Ford cars and all engines requiring a ½ inch long plug.

No.	A-A24
Size, inches	½
Less than 100, Each	$1 50
100 or more, Each	1 33

One in a cardboard box; weight each 4 ozs.

CHAMPION

For use in Auburn, Mitchell, Paige, Velie, Chandler, White, Daniels, Pierce Arrow, Westcott, Commercial 4 wheel drive, Nash, White and Sterling, Harley Davidson Motorcycle. Hexagon. conical insulator 1⅛ inches.

No.	A-JB43
Size, inches	⅞
Less than 100, Each	$1 74
100 and less than 1000, Each	1 68
1000 or more, Each	1 62

One in a cardboard box; weight each 4 ozs.

SPARK PLUGS

All ½ inch plugs shown on this page are standard thread; all ⅝ inch, 18 thread A. L. A. M.

CHAMPION, Heavy Duty.

½ and ⅝ inch for heavy service cars, tractors, trucks, farm and stationary engines

⅞ inch for Columbia, Cadillac, Dorris, Kissel Kar, MacFarlan Six, Overland Six, Willys-Knight, Willys-Six and Winton.

Nos.	A-B13	A-B43	A-B73
Size, inches	½	⅝	⅞
Less than 100, Each	$1 95	1 95	1 95
100 and less than 1000, Each	1 89	1 89	1 89
1000 or more, Each	1 83	1 83	1 83

CHAMPION, Heavy Duty, Long.

Nos.	A-B53	A-B83
Size, inches	⅝	¾
Less than 100, Each	$1 95	1 95
100 and less than 1000, Each	1 89	1 89
1000 or more, Each	1 83	1 83

One in a cardboard box; weight each about 6 ozs.

CHAMPION, "Metric". Aeroplane and Motorcycle.

Specially constructed for all types of aeroplanes and motorcycles. Not affected by heat or oil conditions.

No.	A-J63
Less than 100, Each	$1 74
100 and less than 1000, Each	1 68
1000 or more, Each	1 62

One in a cardboard box; weight each 5 ozs.

CHAMPION, Heavy Duty.

No. A-J13 for Overland cars, and engines requiring a ½ inch plug.

No. A-J23 for Reo cars.

No. A-J43 for Crow-Elkhart, Daniels, Harroun, Norwalk, Standard and heavy service trucks.

Nos.	A-J13	A-J43
Size, inches	½	⅞
Less than 100, Each	$1 74	1 74
100 and less than 1000, Each	1 68	1 68
1000 or more, Each	1 62	1 62

One in a cardboard box; weight each 4 ozs.

CHAMPION, Heavy Duty.

For Franklin and Nash cars.

No.	A-J53
Size, inches	⅞
Less than 100, Each	$1 74
100 and less than 1000, Each	1 68
1000 or more, Each	1 62

SPARK PLUGS

All ⅜ inch plugs shown on this page are standard thread; all ½ inch, 18 threads A. L. A. M.

CHAMPION "BUICK"

Made with 1⅛ inch hexagon for Buick cars, tractors, trucks, farm and stationary engines.

No.	A-AA-53
Size, inches	⅞
Less than 100, Each	$1 74
100 and less than 1000, Each	1 68
1000 or more, Each	1 62

CHAMPION "OAKLAND"

For Oakland, Chevrolet, Oldsmobile, Interstate and tractors, trucks, farm and stationary engines.

No	A-A53
Size, inches	⅞
Less than 100, Each	$1 74
100 and less than 1000, Each	1 68
1000 or more, Each	1 62

One in a cardboard box; 100 in a carton; weight each 4 ozs.

CHAMPION "PRIMING"

Will start any motor on the first quarter turn, Brings the gasoline right at the sparking point.

Nos.	A-H14	A-H44
Size, inches	½	⅞
Less than 100, Each	$2 52	2 52
100 and less than 1000, Each	2 46	2 46
1000 or more, Each	2 40	2 40

One in a cardboard box; weight each 6 ozs.

INSULATORS

No. A-A103 Conical

No. A-A104 "Petticoat"

No. A-A105 "X"

No. A-B103 Conical

Nos.	For Plug Nos.	Less than 100 Each	100 and less than 1000 Each	1000 or more Each
A-A103	A-A13, A-A43	$0 90	84	81
A-A104	A-A14, A-A44, A-A64	90	84	81
A-A104-0	A-A14-O	✣ 90	✣84	✣81
A-A105X	A-A15X	81	75	72
A-A204	A-A24, A-AB44	90	75	72
A-A304	A-A34	90	84	81
A-A503	A-A53, A-AA53	✣ 90	✣84	✣81
A-B103	A-B13, A-B43 / A-B53, A-B73	99	93	90

One in a cardboard box.

SPARK PLUG GASKETS

Patented copper gaskets. For all Champion Spark Plugs.

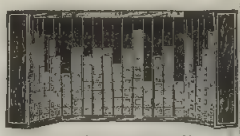
	Per 100
No. A-A131—Upper	$6 00
No. A-A136—Lower	6 00

✣F. O. B. Ohio Factory Only.

SPARK PLUG MERCHANDISER

ASSORTMENTS

CHAMPION



This case with the car index chart attached enables any clerk to select instantly the proper size and type of spark plug that is requested for any passenger car, commercial car, tractor, motorcycle, motorboat, and farm and stationary engines. Adapted for use on counter, show case or shelf; and it occupies but little space compared to the complete assortment that it carries. Finely finished and is an ornament to any store or counter; made of metal and each compartment will hold an original package of spark plugs. Size 31x15x11 inches.

Per Ass't.

No. A-1—Consists of 10 No. A-A13, 10 No. A-A14, 10 No. A-A14-0, 50 No. A-A15, 20 No. A-A43, 10 No. A-A24, 10 No. A-A44, 10 No. A-A53, 10 No. A-AA53, 10 No. A-A64, 10 No. A-B43, 10 No. A-J43 10 No. A-JB43 and 20 No. A-JAS43 spark plugs and 10 No. A-A103, 10 No. A-A104, 50 No. A-A105, 10 No. AA-503 and 10 No. A-B103, 10 No. A-A204 insulators ✣$400 50

No. A-2—Consists of 10 No. A-A13, 10 No. A-A14, 10 No. A-A14-0, 50 No. A-A15, 20 No. A-A43, 10 No. A-J63, 10 No. A-A44, 10 No. A-A53, 10 No. A-A64, 10 No. A-B43, 10 No. A-J43, 10 No. A-JB43, 10 No. A-AA53 and 20 No. A-JAS43 spark plugs and 10 No. A-A103, 10 No. A-A104, 50 No. A-A105, 10 No. A-A204, 10 No. A-A 503 and 10 No. A-B103 insulators ✣ 400 50

No. A-3 -Consists of 100 No. A-A14-0, and 100 No. A-B43 spark plugs and 50 No. A-A104-0 and 50 No. A-B103 insulators ✣ 438 00

No. A-4—Consists of 100 No. A-A15 and 100 No. A-A24 spark plugs and 50 No. A-A105 and 50 No. A-A204 insulators ✣ 351 00

NOTE—Merchandise case given with orders for 200 plugs and 100 insulators as specified in above assortments.

Orders for merchandise case with plugs. Will be shipped from Factory direct.

SPARK PLUGS

SPLITDORF, With Green Jackets.

White India Mica insulation protected by an external hexagon green porcelain jacket. Absolutely indestructible.

All ½ inch plugs shown on this page are standard thread; all ⅜ inch, 18 thread A. L. A. M.

SPLITDORF, Standard.

For Apperson 6, and 1921 Briscoe, Cadillac, Chalmers, Cole, Davis, Grant, Hudson with prefix numbers, Hupmobile, Jeffery, Jordan, King, Kissel Kar, Locomobile, Marmon, Maxwell, Mitchell, Nash, Oakland 8, Paige, Peerless, Pierce-Arrow, Saxon, Scripps-Booth 1916, Model B. and G. 1919-20-21, Stutz and Westcott cars.

No.	A-P163
Size, inches	⅞
Less than 100, Each	$2 01
100 or more, Each	1 89

One in a cardboard box; weight each 4 ozs.

✣F. O. B. Ohio Factory Only.

SPARK PLUGS

SPLITDORF, With Green Jackets.

All ½ inch plugs shown on this page are standard thread; all ⅝ inch, 18 thread A. L. A. M.

SPLITDORF, 18 Long Body.

For Chandler, Cleveland, Crane-Simplex, Dodge, Jackson and National cars.

No.	A-P785
Size, inches	⅝
Less than 100, Each	$2 01
100 or more, Each	1 89

One in a cardboard box; weight each 6 ozs.

SPLITDORF, Standard.

For Ford, Fordson Tractors, Cadillac prior to 1918, Overland models 79, 80, 81 and 83, Oakland prior to 1913, Regal and Studebaker cars; also engines using ½ inch standard plug.

No.	A-P179
Size, inches	½
Less than 100, Each	$1 50
100 or more, Each	1 44

One in a cardboard box; weight each 4 ozs.

SPLITDORF, Long.
With Buick Terminal.

For Buick prior to 1918, Chalmers 32 and Scripps-Booth 1915.

No.	A-P174
Size, inches	⅞
Less than 100, Each	$2 01
100 or more, Each	1 89

One in a cardboard box; weight each 4 ozs.

SPLITDORF, Long Heavy.

For Buick, Chalmers 32, Enger and McLaughlin.

No.	A-P784
Size, inches	⅞
Less than 100, Each	$2 01
100 or more, Each	1 89

One in a cardboard box; weight each 4 ozs.

SPLITDORF, Auto Metric, Short.

For Packard cars prior to 1915, Packard trucks prior to 1915, Pierce-Arrow prior to 1916; also for White trucks model 15-20, Scripps-Booth 1917 model D. and H.

No.	A-P148
Less than 100, Each	$2 01
100 or more, Each	1 89

One in a cardboard box; weight each 4 ozs.

SPARK PLUGS

All ½ inch plugs shown on this page are standard thread; all ⅝ inch 18 thread A. L. A. M.

SPLITDORF, Long.
With Franklin Terminal.

For Franklin cars; also for any engine requiring a ⅞ inch—18 plug with long shell.

No.	A-P182
Size, inches	⅝
Less than 100, Each	$2 01
100 or more, Each	1 89

One in a cardboard box; weight each 4 ozs.

SPLITDORF, ¾ inch Tractor Type.

Each

No. A-10178—Especially adapted for tractors requiring a ¾ inch plug $4 50

One in a cardboard box; weight each 9 ozs.

SPARK PLUG AND MAGNETO FILES

Best grade steel, finely milled; adapted for filing and cleaning platinum points. The chisel point permits opening contact points without disturbing adjustments.

Per Dozen

No. A-18PF—Length of cut 4½ in.; width ⅛ in; thickness 1/32 in.; shank ⅛ in. in diameter; length over all 6¼ inches $3 30

One dozen in a cardboard box; weight per dozen ½ lb.

SPARK PLUG CLEANERS

CHAMPION

It consists of a specially hardened glass tube, 5 inches long, with bushing at the open end into which the spark plug is to be screwed. Inside are fifty hardened steel needles that strike the points and inner surface of the plug and pick off the carbon.

Directions—Fill the tube about half full of gasoline, screw in the spark plug and shake vigorously for about a minute. The steel needles quickly removes the carbon and the gasoline dissolves the oil deposit, leaving the plugs clean, fresh, and good as new.

No.	A-100CC
In lots of less than 10, Each	$1 65
In lots of 10 to 100 Each	1 47
In lots of 100 and over, Each	1 35

One in a wood box; wt. each about 4 ozs.

Note—Spark Plug Cleaner Merchandise Case given free to dealer with an order for 10 cleaners. Cleaners shipped from stock, case from factory F. O. B. Toledo, Ohio.

SPARK PLUG CHART

Name	Champion Nos.	Splitdorf Nos.
PASSENGER		
Allen	A A43	A P165
Anderson	A-A43	A-P165
Apperson	A-J-1	A P165
Auburn	A JB43	A-P165
Austin	A JB43	A-P165
Begg s	A-B18	
Bell	A B43	A-P163
Biddle	A B11	A-P165
Briscoe	A JA843	A P163
Buick	A AA54	A P784
Cadillac	A J AS43	A-P163
Case	A-JB43	A P163
Chalmers	A JA843	A-P163
Chandler	A JB43	A P785
Chevrolet	A A73	A-P182
Cleveland	A-A43	A P785
Cole	A-JA843	A-P163
Columbia	A-B43	A P163
Comet		
Commonwealth		
Crawford	A B43	A-P163
Crow Elkhart	A J43	A-P163
Cunningham	A-B43	A-P163
Daniels	A JB43	A-P163
Davis	A-JA43	A-P163
Detroiter	A J843	A-P163
Dixie-Flyer	A A43	A-P163
Dodge	A-A44	A-P785
Dorris	A B43	A-P163
Dort	A JA43	A-P163
Earl	A A43	A-P163
Elgin	A-A43	A-P163
Empire	A A43	A-P163
Essex	A-A64	A P148
Fiat	A-B43	A-P163
Ford	A-A15	A P179
Franklin	A J51	A-P182
Grant	A-A43	A-P163
Haynes	A JA843	A-P163
Hollier	A A44	A-P163
Hudson	A JA43	A-P163
Hupmobile	A JA43	A-P163
Interstate	A A44	A-P165
Jackson	A JA843	A-P785
Jeffery		A-P163
Jordan	A-JA53	A-P163
Kang	A JA843	A-P163
Kissel-Kar	A-JA43	A-P163
Kline Kar	A-A43	
Knox		A P163
Krit		A P179
Lexington	A-A43	A-P163
Liberty	A JA43	A-P163
Locomobile	A JB44	A P163
Madison	A-A45	
Marion-Handley	A B43	
Marmon	A-J-43	A P163
Maxwell	A-A44	A-P163
McFarlan	A-B13	A-P148
Mercer	A-J-51	A-P165
Metz	A-A43	A P163
Mitchell	A-JB43	A-P-163
Moline-Knight	A-B43	A-P163
Monarch	A A43	
Monroe	A-J43	A P165
Moon	A JA843	A P163
Murray	A-B43	
Nash	A-J53	A-P165
National	A-J53	A P785
Nelson	A-A43	
Oakland 8	A-A53	A-P163
Oakland 32	A-A53	A-P165
Oldsmobile 6	A-A53	A-P163
Oldsmobile 8	A-JA843	A-P163
Overland	A-A14	A-P179
Overland 6	A-B43	A-P157
Packard	A-JA543	A-P127
Paige Detroit	A-JB14	A-P163
Pathfinder	A-B43	A P163
Paterson	A-JA43	A-P163
Peerless	A JA543	A P163
Pierce Arrow	A JB13	A-P164
Pilot	A B43	A-P163
Premier	A J54	A-P165
Pullman	A-A43	A-P165
Regal	A-A41	A P179
Reo	A A21	A P143
Saxon	A JA43	A-P163
Scripps Booth	A A53	A-P784
Stardard	A-743	A P157
Stearns-Knight	A J43	A-P163
Studebaker	A A43	A P179
Stutz	A-B43	A-P163
Templar	A-B43	A-P163
Velie	A-JB43	A P163
Willys-Knight	A-B43	A-P158
Willys-Six	A-A44	
Winton	A-B43	A-P165

Name	Champion Nos.	Splitdorf Nos.
COMMERCIAL		
Acason	A B43	A P163
Acme	A B43	A-P163
Akron	A JA53	
All American	A JA543	A-P163
American	A-A43	
Apex	A-AA53	A P163
Argo		A P179
Armleder	A-B13	A P163
Atco		A-P163
Atlas	A A44	A P163
Atterbury	A B43	A-P163
Autocar	A A43	A-P157
Available	A-A43	A-P163
Avery	A-A14	A-P163
Beck	A A11	A-P179
Beggs	A-JA13	
Bell		A P163
Bessemer	A B43	A-P163
Bethlehem	A A43	A P163
Brinton	A A43	A-P163
Brockway	A-JA543	A-P163
Brockway	A-B43	A-P163
Chadwick		A-P163
Champion		A-P163
Chase		A-P163
Chevrolet		A-P182
Chicago		A-P163
Clydesdale	A B43	A-P163
Collier	A JA43	A-P163
Columbia	A-B43	A-P163
Commerce	A-JA543	A-P163
Concord	A-B43	A-P163
Cook	A-B43	
Corbitt	A-B13	A-P163
Crawford		A-P-163
Cyclone	A-A53	
Dart	A-A44	A-P163
Day Elder	A B43	A P163
Dearborn	A-JA543	A-P163
Defiance	A JA543	A P163
DeKalb	A-A43	A-P163
Derby	A-JA543	A-P163
Di pendable	A B13	A-P163
Detroit	A-JA514	
Diamond T	A-JB43	A P163
Dieal		A-P163
Dispatch	A-A14	A P179
Dodge	A AB14	A P785
Dorris	A-B43	A-P163
Douglas	A-A44	A-P163
Duplex	A B43	A-P163
Durable		A-P163
Famous	A-J43	A-P163
Fargo		A P163
Federal	A JA13	A P157
Ford	A A15	A-P179
Four Wheel Drive	A JB13	A P163
Fulton	A J14	A P163
Gabriel	A JB44	A P163
Gary	A JB44	A P163
Gersix	A JA513	A P163
Grant	A 11	A P163
Globe		A-P-163
G M C	A-JA13	A-P163
Graham	A JA543	
Grant Reinstein	A JB13	A P163
Grant	A A13	A-P163
Hackett		
Hahn		A P163
Hall	A JA543	A-P163
Harley		A P163
Hascall		A-P-163
Hauger		A P163
Hewitt Ludlow	A-J43	a-P163
Independent	A JA543	A-P163
Indiana	A J43	A-P163
Jackson	A-JA543	A-P163
Jeffery		A-P-163
Kalamazoo	A-A43	A-P163
Kelly-Springfield	A-B13	A-P163
Keystone	A-A 1	
King	A JA513	
Kissel	A B43	A-P163
Kleiber	A A43	A-P163
Koehler	A-A43	A-P163
Lambert	A A13	
Lamson	A-A43	A P163
Lane	A-A43	A-P163
Lappard-Stewart	A-JA43	A-P163
Little Giant	A-A41	A-P163
Macwar	A A43	A-P164
Mack	A-B43	
Master	A A13	A-P163
Maxim		A-P163
Maxwell	A-A14	A-P163
Menominee	A A43	A-P163
Midland		A-P163
Monarch	A-A43	A-P163

SPARK PLUG CHART

Name	Champion Nos.	Splitdorf Nos.
COMMERCIAL		
Moreland	A JA43	A-P163
Muskegon	A A43	A-P163
Mutual	A JA543	A P163
Napoleon	A J43	A P163
Nash	A JB43	A-P165
Nelson	A-A43	A-P163
Netco		A P163
New York	A-J43	A-P163
Niles	A-B43	A-P163
Nine		A-P163
Northwestern	A J43	A-P163
Norwalk	A-J43	A P163
Ogden		A-P163
O K	A-B43	A-P163
Old Hickory	A-A43	A-P163
Ord Reliable	A A43	A-P163
Oldsmobile	A-A43	A-P163
Olympic		A P163
Oneida	A JB43	A-P163
Orient	A-JA543	
Overland	A-J43	A P-79
Packard	A-JA543	A-P163
Pacific		A-P179
Paige	A JB43	A P163
Parker	A JB43	A-P163
Patriot		A-P163
Peerless		
Piedmont	A-JA543	A-P163
Pierce Arrow	A JB43	A-P163
Power		A P163
Pullman		A-P165
Rainier	A-JA843	A P163
Raiget	A-A43	
Rapid	A A43	
Reliance	A-B43	A-P163
Reo	A A24	A-P141
Republic	A-J43	A-P163
Riddle	A-A43	
Rider	A JB43	A-P163
Robinson	A-JA543	
Rock Falls		A-P163
Rowe	A-T43	A P163
Royal		A P163
Rush	A J43	A P163
Sampson		A-P754
Sandow		A-P163
Sanford		A-P163
Saurer		A-P148
Seibert	A A14	
Seldon	A B43	A-P163
Service	A A43	A-P163
Signal	A-JA543	A-P163
Sinclair	A JA43	
Southern	A B43	
Standard	A B43	A P163
Stegeman	A JA43	A P163
Sterling	A-JB43	A-P148
Stewart	A-A43	A-P163
Stoughton		A-P163
Studebaker	A-A43	A-P179
Sullivan		A-P163
Super		
Superior	A B43	A-P165
Taylor	A-A43	A-P163
Texon		A-P163
Tiffin	A-JB43	A P163
Titan		A-P163
Tower		A-P170
Traffic	A-A44	A-P163
Transport	A-B44	A P163
Triangle	A B44	A-P163
Triumph	A-B43	A P163
Troy	A J43	
Twin City	A-A43	A-P163
Ultimate	A B43	A-P163
Union	A-B43	A-P163
U S	A-JA543	A-P163
United	A JB43	A-P163
Universal	A-A44	A-P 63
Velie	A-JB43	A-P163
Victor		A P163
Vim	A JA43	A-P163
Waiter Johnson	A JA543	
Water		A-P148
Ward LaFrance	A-JB43	
Ware		A-P163
Warren		A-P154
Watson		A-P163
Watts	A-A64	A-P148
White Hickory		A-P163
Wilcox	A-JA843	A-P163
Wilson	A A43	A-P163
Wolther	A-JA543	A P163
Wisconsin		A-P163
Wolverine	A-B43	A-P163

Name	Champion Nos.
TRACTORS	
Alligator	A-A28
Allis-Chalmers	A-B43
Allwork	A-A44
American	A-A43
Appleton	A-A43
A. & T.	A-A24
Austin	A J13
Autotrac	A JA543
Automotive	A-J43
Avery	A A13
Baldor	A-A14
Baros	A-A53
Bates Steel Mule	A-A53
Bateman Garden	A-A14
Bethlehem	A A43
Big Bull	A-B13
Boring	
Bull	A JA543
Bullock	
Capital	
Case	A JA53
Clark	
Cleveland	
Common Sense	A-B43
Dart	
Eagle	A-A-13
Elgin	A A53
Farm Horse	A B13
Fitch	A B14
Flour City	A-A53
Fordson	A-A24
Fox	A-B14
Frick	A-A53
Gile	
Grain Belt	A B13
Gray	A-B43
Hackney	
Happy Farmer	A B13
Hart Parr	A-A24
Heider	A A43
Holt	A JA543
Howel	
Hubber	A-JB43
Hudson	
Illinois	A-B43
Indiana	A A43
Iardell	A A43
K G	A-A14
Knox	
Lauson	A B43
Leader	
Leonard	
Liberty	
Lion	A-A14
Little Giant	
Midwest	A A44
Minneapolis	A-B13
Moline Universal	A-J13
Monarch	
National	
Nilson	A-B43
Parrett	A-B44
Peoria	A-B43
Piedmont	A-A43
Pioneer	A B13
Plowman	A-B13
Port Huron	
Post Tractor	
Power	
Ranger	A-A43
Reliable	A-A34
Russell	A-B43
Samson	
Sandusky	A B43
Shelby	A-JA43
Spalding	A A44
Star	A B43
Stearns	A-JB43
Stinson	
Townsend	
Tractalayer	A-A14
Traylor	A-B43
Triumph	A B44
Turner Simpson	A-B44
Twin City	A-A43
Uncle Sam	A B43
Utilitor	A-A44
Velie Bidwell	A B43
Victory	
Walsh	A-A43
Waterloo Boy	A-A24
Whitney	
Wisconsin	A-B44
Wolverine	
Yankee	

LANTERNS

All Lanterns are made from Heavy Tin Plate, Heavily retinned and have special Globe Lift, Baked Globe Guards and Extra Heavy Rising Cone Tinned burners. All Lanterns have extra large oil hole with brass screw cap set at such an angle that the lantern can be easily filled without removing the globe. The large tinned bail is made to remain upright when desired.

Lanterns burn a clean and exceedingly white light. The flame is white to the very feather edge, and entirely free from smoke. All Lanterns can be filled without removing globe.

SUPREME

These lanterns have a new globe-holding device which permits of some variation in the height of the globe, and at the same time makes unnecessary the use of a spring in the top. The guard, the lift, and the reinforced bottom are exclusive features.

Large fount, burns 30 hours, extra heavy rising cone tinned burner, 1 in. wick, No. 616 selected crystal globe, height 14 in.

BRIGHT TIN, Retinned.

No. R162—Full half dozen case, per dozen $25.20

Bright Tin, Entirely RED ENAMELED, Baked on.

No. R163—Full half dozen case, per dozen $27.20

POLISHED BRASS, Fount and Top Cap, Heavy Steel Wire Grooved Under Bottom Edge.

No. R165—Full half dozen case, per dozen $40 80

No. 165—Less than case, per dozen $40 80

HALF DOZEN IN A CASE WT PER DOZEN 50 LBS.

MAMMOTH COLD BLAST

This lantern is truly the farmer's friend. The large fount and the perfect clean light, makes it require but little care, for which reason it is so popular, especially for a barn lantern.

Mammoth size, tin fount, full weight IX-AAA charcoal plate, heavily retinned, burns forty hours, No. 2 one inch wick, No. 2 selected crystal cold blast globe, No. 616, w't per doz. 44 lbs.

No. R192—Full half dozen case, per dozen $27.70

COLD BLAST

Large size fount, burns 30 hours, extra heavy rising cone tinned burner, 1 in. wick, No. 2 selected crystal cold blast globe No. 611.

Tin, fount, full weight IX-AAA charcoal plate, heavily retinned, w't per doz. 40 lbs.

No. R2—Full dozen case, per dozen $25.20

JUNIOR SUPREME

A handy lantern of the Cold Blast Type, compact and light weight. Gives twice as much light as the ordinary lantern of No. 0 Tubular Type although using the same size wick. Burns 18 hours. Equipped with No. 618 globe and No. 0 ⅞-inch wick.

No. R161—Per dozen $18.90

ONE DOZEN IN A BOX
WE DO NOT BREAK BOX

TUBULAR

Fount holds kerosene to burn eighteen hours, extra size funnel shape filler cap and screw, heavy steel burner, ⅞ in. wick, brass bound globe lift between tubes, substantial globe guard, tubular globe.

With crystal globe No. 600, heavily retinned, w't per doz. 30 lbs.

These lanterns are used by railroad companies and contracting companies

No. R242—Full dozen case, to signal danger. per dozen $15.70

No. R242½—Full half dozen case, per dozen $15.90

ONE DOZEN AND HALF DOZEN IN A CASE

ORDINANCE

This lantern is made to meet the requirements of various state and city laws. Throws a strong, white light forward, and the rear signal is visible many hundred feet from the rear. This lantern is a necessary road protection against speeding automobiles. The flat steel holder is made extra strong and with a very long tongue so that the lantern cannot jar off. It is the modern road lantern.

RED ENAMELED, height 12¼ in., corrugated bright tin reflector 2½ in., ruby lens rear signal, steel burner with ⅞ in. wick, bull's eye mounted on globe plate, crystal "Bantie" cold blast globe No. 610, extra strong steel side holder, w't per doz. 38 lbs.

No. R104—Full half dozen case, per dozen $37.20

No. 104—Less than case, per dozen $37.20

DIETZ D-LITE LANTERNS

Special features: DIETZ security standing bail, patent brass eyelets, patent safety (wing-lock) rising cone burner, patent reinforced tubes, patent globe lift on inside of frame, large oil-filler, patent locking short globe, No. 616, and double-seamed solderless dome-shaped oil fount.

No. R562—Bright tin, size wick 1 in., height 13¾ in., 10 candle power, will burn 20 hours with one fillmg, w't per doz. 25 lbs., per dozen **$25.70**

DIETZ LARGE FOUNT D-LITE

Special features: DIETZ security standing bail, patent brass eyelets, patent safety (wing-lock) rising cone burner, patent reinforced tubes, patent globe lift on inside of frame, large oil-filler, patent locking short globe, No. 616, and **Extra Large** double-seamed solderless dome-shaped oil-fount.

No. R592—Bright tin, size wick 1 in., height 13¾ in., 10 candle power, will burn 40 hours with one filling, w't per doz. 56 lbs., per dozen **$28.20**

DIETZ LITTLE WIZARD

Special features: DIETZ security standing bail, patent brass eyelets, patent safety (wing-lock) rising cone burner, patent reinforced tubes, patent globe lift on inside of frame, large oil-filler, patent locking short globe No. 618, and double-seamed solderless dome-shaped oil-fount.

No. R511—Bright tin, size wick § in., height 11½ in., 6 candle power, will burn 18 hours with one filling, w't per doz. 33 lbs., per dozen **$19.40**

DIETZ MONARCH LANTERNS

Special features: DIETZ security standing bail, patent brass eyelets, patent safety (wing-lock) burner, patent reinforced tubes patent positive locking globe lift, large oil-filler, and double-seamed solderless dome-shaped oil-fount, globe No. 600.

No. R542—Bright tin, size wick § in., heigth 13⅛ in., 4 candle power, will burn 18 hours with one filling, w't per doz. 38 lbs. ..per dozen **$16.20**

DIETZ BLIZZARD LANTERNS

Special features: DIETZ security standing bail, patent brass eyelets, patent safety (wing-lock) rising cone burner, patent reinforced tubes, patent globe lift on inside of frame, large oil-filer, patent locking globe No. 611, and double-seamed solderless dome-shaped oil-fount.

No. R502—Bright tin, size wick 1 in., boight 14⅛ in., 10 candle power, will burn 20 hours with one filling, w't per doz. 52 lbs. . . per dozen **$25.70**

HALF DOZEN IN A BOX

LANTERNS

DIETZ LITTLE STAR

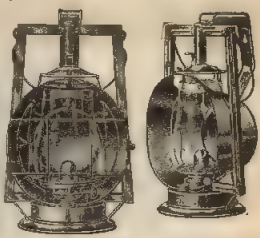
An attractive small size lantern of the Hot Blast Type. A fine boy's lantern and makes a nice gift.

Equipped with No. 211 Globe and No. 0 §-inch wick.

No. R570—
per dozen **$18.20**

ONE DOZEN IN A BOX
WE DO NOT BREAK BOXES

DIETZ ACME CAR INSPECTOR LANTERNS



With Guard. Without Guard.

Strongly made, frame and hood are heavily braced and a strap of steel, well soldered, reinforces the frame, gives a reflected light of 20 candle power, has a grip handle set at right angle to project the light under cares, also has hand bails, globe No. 600.

No. 5151—With wire globe **guard,**
per dozen **$59.00**

No. 5150—Without guard, ...
per dozen **$52.00**

HALF DOZEN IN A CASE, WT PER DOZ. 74 LBS.

JUNIOR WAGON LANTERN

Special features: DIETZ security standing mail, patent brass eyelets, patent safety (wing-lock) burner, patent reinforced tubes, large oil-filler, and double-seamed solderless dome-shaped oil-fount with safety oil-well, magnifying bulls-eye lens, ruby rear lens, combination holder, globe No. 610.

Black enamel, size wick § in., height 12 in., 10 candle power, will burn 18 hours with one filling, w't per doz. 54 lbs.

No. R504—Full half dozen cases,
per dozen **$36.70**

No. 504—Less than case,
per dozen **$36.70**

HALF DOZEN IN A CASE

[illegible] HOOD

Blue lacquered bright tin hood, 6 in. deep, 8 in. outside diameter, 5 in. silvered glass reflector, high cone burner, ¾ in. wick, No. 0 crystal tubular globe—No. 600.

[illegible]—Car Inspector's, with substantial handle and wire bail, w't per doz. 35 lbs.

No. R2150—Full case lots, per dozen $48.00

No. 2150—Less than case, per dozen $48.00

HALF DOZEN IN A CASE

CRUSO SHORT GLOBE COLD BLAST

1 in. wick, No. 616 short cold blast globe, w't per doz. 50 lbs.

This is a good lantern at a very special price.

No. R775—Full half dozen case, per dozen $21.30

HALF DOZEN IN A CASE

DIETZ D-LITE FIRE DEPT. LANTERNS

This is the first lantern for fire department use built on the cold blast principle with a short globe. Strongly made, easily cleaned, filled and lighted and will burn where there is air to support human life. Fits any standard bracket.

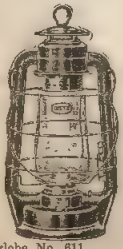
Patent safety (wing-lock) rising cone burner, patent reinforced tubes, large oil filler, patent guard, double-seamed solderless dome-shaped oil fount, globe No. 616.

No. 555—Red Enameled, on tin fount, size wick 1 in., height 14¾ in., 10 candle power, will burn 16 hours with one filling, w't per doz. 88 lbs., per dozen $100.00

HALF DOZEN IN A CASE

BLIZZARD MILL LANTERN

Special features: DIETZ security standing bail, patent brass eyelets, patent slotted cone burner, patent reinforced tubes, patent globe lift on inside of frame, large oil filler, and double-seamed solderless dome-shaped oil-fount, safety oil well, fount strongly braced, globe No. 611.



No. 552—Red enamel, size wick 1 in., height 14¾ in., 10 candle power, will burn 18 hours with one filling, w't per doz. 72 lbs. ..per dozen $68.00

CRUSO CONTRACTORS'

CRUSO, side lift, steel burner, ¾ in. wick.

These are nicely tinned, serviceable lanterns at very special prices.

With No. 600 Crystal Globe, w't per doz. 30 lbs.

No. R240—Full dozen case, per dozen $13.30

With No. 603 Ruby Globe, w't per doz. 35 lbs.

No. R2433—Full dozen case, per dozen $18.00

ONE DOZEN IN A BOX

CRUSO COLD BLAST

CRUSO, cold blast, tubular, side globe lift, No. 2 steel burner, 1 in. wick No. 2 crystal cold blast globe—No. 611, w't per doz. 50 lbs.

In every way a high-grade lantern, at a very special price.

No. R12—Full half dozen case, per dozen $21.30

HALF DOZEN IN A CASE

LANTERNS

DIETZ RAILROAD LANTERNS

DIETZ VESTA—Modern cold blast construction, burns kerosene. Globe is removable through the frame fount, locks to the body of lanterns, by a patented positive locking device. Flame is regulated from outside of the globe. The Vesta fills every demand for an ideal R. R. Lantern, is easily cleande, filled and lighted, positively makes all signals, globe No. 635.

Bright tin, size wick ⅞ in., height 11 in., 3 candle power, will burn 16 hours with one filling, w't doz. 110 lbs.

No. R500—Full one dozen case, per dozen $41.60

No. 500—Less than case, per dozen $41.60

ONE DOZEN IN A BOX

DIETZ VULCAN—Patented wing-lock ratchet burner, double guards, substantial stamped base and top. Removable globe, wing-lock (slip collar) burner is firmly attached to fount, base and fount fastened to frame by positive-locking device, fount has safety oil well. For strength and long life, ease in cleaning, filling, lighting, regulating and making signals, this lantern is unexcelled, globe No. 630. Burns lard oil.

No. 539—Bright tin, size wick 1 in., height 10 in., 2 candle power, will burn 24 hours with one filling, w't per doz. 49 lbs. ..per dozen $32.40

DEITZ STEEL CLAD—Patented wing-lock, ratchet burner, stamped steel frame with double wire guard, stamped fount and top, removable globe, hinged top, wing-lock (slip collar) burner is firmly attached to fount by patented locking lugs and fount fastened to frame by positive locking device, fount has safety oil well. Unexcelled for strength, ease of cleaning, filling, lighting and dependability in making signals, globe No. 630. Burns lard oil.

No. 5390—Bright tin, size wick 1 in. height 10 in., 2 candle power, will Lurn 24 hours with one filling, w't per doz. 50 lbs. ...per dozen $33 60

SWITCHMEN'S

Rigid wooden bail, No. 39 crystal globes—No. 630—Height 8 in. extreme height to top of bail 13 in., bright tin base and top heavy wire frame, short compact, light weight, the handle is of bent wood and being larger in diameter gives a firmer grip than the customary wire bail.

No. 90—Lard Oil burner No. 1, ⅞ **in. wick** .....per dozen $47.00

No. 92—Lard Oil burner No. 2, 1 **in. wick** .....per dozen $47.00

WT PER DOZEN 58 LBS

EXTRA BURNERS

No. 900—For No. 90 lanterns, per dozen $1 50

No. 920—For No. 92 lanterns, per dozen $2.50

ONE DOZEN IN A CASE

JUSTRITE ACETYLENE

Suitable for Mine Superintendents, Inspectors, Mining Engineers, Watchmen, Campers and Automobilists. Will not blow out.

No. 10A—Brass nickel plated, 20 candle power, bulls eye lens, automatic generator controls gas, flame controlled by valve, burns 5 to 6 hrs. with 3 oz. of carbide, w't per doz. 36 lbs. .....per dozen $96.00

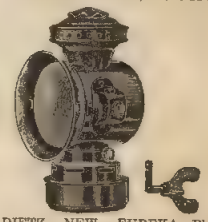
DIETZ DRIVING LAMPS

DIETZ OCTO—Black enameled with nickel plated door rim 10¾ in. high, 4⅝ in. door lens, 2¼ in. ruby rear lens, ⅝ in wick, complete with double socket for right or left hand, has bail for use as a hand lamp.

No. R360—Full dozen cases, per dozen $75.40

No. 360—Less than case, per dozen $75 40

ONE DOZEN IN A CASE, WT 20 LBS.



DIETZ NEW EUREKA—Black enameled nickel plated door rim, 7⅛ in. high, 3 in door lens, 2 in. rear ruby lens, ⅝ in. wick, left hand, complete with dash clamp holder, burns 10 hours with one filling, w't per doz. 25 lbs.

Lamps for left side always furnished. The right hand pattern must be ordered from factory. Especially adapted for use on light vehicles

No. R280—Full one dozen case, per dozen $37.40

No. 280—Less than case, dozen 37.40

ONE DOZEN IN A CASE

STREET LAMPS

Constructed on the cold blast principle, gives a steady light and will not blow out.

No. R3—No. 3 tubular crystal street globe—No. 622, No. 2 tubular burner, 1½ in. wick, large tin front with device for automatically extinguishing light at any time desired, painted green, for post, height 27 in., diam. socket 2¾ in., burns 24 hours with one filling, each $12.00

ONE IN A BOX. WT 26 LBS.

LANTERN GLOBES

COLD BLAST

Size 2, height 6⅝ in., top 2⅝ in., bottom 3⅝₁₆ in., w't per doz. 14 lbs.
Fit all styles, size No. 2 [illegible] and other standard Cold Blast Lanterns.

CRYSTAL GLASS

No. R611—Full one dozen box, per dozen $2.10
No. W6511—In cases of 5 dozen, w't 70 lbs. .....per case $9.00

CRYSTAL GLASS, WITH BULL'S EYE

W't Per Doz. 14 Lbs.
No. R612—Full one dozen box, per dozen $4.00
No. W6512—In cases of 5 dozen, w't 70 lbs. .....per case 19.00

RUBY GLASS

W't Per Doz. 14 Lbs.
No. R613—Full one dozen box, per dozen $6.30
No. W6513—In barrels of 5 dozen, w't 65 lbs. .....per barrel $29.50

"BANTIE" COLD BLAST

CRYSTAL

These globes fit Bantie, Junior, Gem and other No. 1 Cold Blast Lanterns.
Height 5¼ in., top 2⅜ in. wide, bottom 2¹³⁄₁₆ in.
No. R610—Full one dozen box, per dozen $2.00
No. W6510—In cases of 5 dozen, w't 12 lbs. .....per case $9.00

CRYSTAL, WHITE BULL'S EYE

W't Per Doz. 12 Lbs.
No. R609—Full one dozen box, per dozen $4.00

COLD BLAST

Fits all makes of short globe cold blast lanterns, especially [illegible] supreme and No. 42 Dietz D'Lite, w't per doz. 18 lbs.

CRYSTAL GLASS

No. R616—Full one dozen box, per dozen $2.10
No. W6516—In cases of 5 dozen, w't 65 lbs. .....per case $9.00

RUBY GLASS

W't Per Doz. 12 Lbs.
No. R617—Full one dozen box, per dozen $6.30
No. W6517—In cases of 5 dozen, w't 65 lbs. .....per case $29 50

LITTLE WIZARD COLD BLAST

Crystal for Little Wizard lantern, size 3¹³⁄₁₆ in. high, 3¼ in. top, 2¹³⁄₁₆ in. width at bottom.

No. R618—Full dozen boxes.
per dozen $2.10

TUBULAR

No. 600.

No. 602.

TUBULAR, size 0, height 6⅝₁₆ in., top 2¹³⁄₁₆ in., bottom 3⅞₁₆ in., w't per doz. 12 lbs.

COMMON CRYSTAL

No. R600—Full one dozen box, per dozen $2.00
No. W6500—In cases of 5 dozen, w't 60 lbs. .....per case $8.50

CRYSTAL BULL'S EYE

W't Per Doz. 12 Lbs.
No. R602—Full one dozen box, per dozen $4.50
No. W6502—In full cases of 5 dozen, w't 60 lbs. .....per case $21.00

SOLID RUBY

W't Per Doz. 14 Lbs.
No. R603—Full one dozen box, per dozen $5.80
No. W6503—In full barrels of 5 doz., w't 70 lbs. .....per barrel $27.50

NO. 39 RAILROAD TYPE

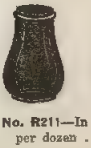
Height 5⅞₁₆ in., top 2⅜ in., bottom 3⅝₁₆ in., w't per doz. 14 lbs.

HEAVY SELECTED CRYSTAL GLASS

No. R630—Full one dozen box, per dozen $2.40
No. W6530—In full barrels of 5 doz., w't 75 lbs. .....per barrel $10.50

RED FLINT GLASS

No. R631—Full one dozen box, per dozen $6.00
No. W6531—In full barrels of 5 doz., w't 80 lbs. .....per barrel $31.50



U. S. TUBULAR

For little star lantern, height 5¼ in., top 2³⁄₁₆ in., bottom 2¹³⁄₁₆ in., w't per doz. 11 lbs.

No. R211—In full one dozen box, per dozen $2.00
No. W2811—In full cases of 8 dozen, w't 90 lbs. .....per case $14.00

TUBULAR LAMP

Size No. 3, height 10⅜ in., top 5⅜ in., bottom 6 in., for tubular steel lamps, w't per doz. 90 lbs.

No. W622—Full ½ dozen barrels, per dozen $15.60

Lamps & Lanterns

QUICK INDEX

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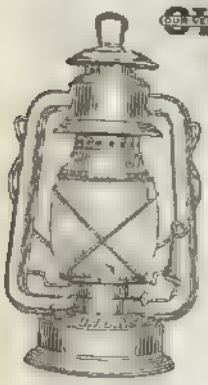
GAS LAMPS and BURNERS	1213	MANTLES	1216
GLOBES	1213	MINERS' LAMPS	1219
		SHADES	1213
		WICKS	1218

LANTERNS

All Lanterns are made from Heavy Tin Plate, Heavily retinned and have special Globe Lift, Baked Globe Guards and Extra Heavy Rising Cone Tinned burners. All Lanterns have extra large oil hole with brass screw cap set at such an angle that the lantern can be easily filled without removing the globe. The large tinned bail is made to remain upright when desired.

Lanterns burn a clean and exceedingly white light. The flame is white to the very feather edge, and entirely free from smoke. All Lanterns can be filled without removing globe.



SUPREME

These lanterns have a new globe-holding device which permits of some variation in the height of the globe, and at the same time makes unnecessary the use of a spring in the top. The guard, the lift, and the reinforced bottom are exclusive features.

Large fount, burns 30 hours, extra heavy rising cone tinned burner, 1 in. wick, No. 616 selected crystal globe, height 14 in.

BRIGHT TIN, Retinned.

No. R162—Full half dozen case, per dozen $25.20

Bright Tin, Entirely RED ENAMELED, Baked on.

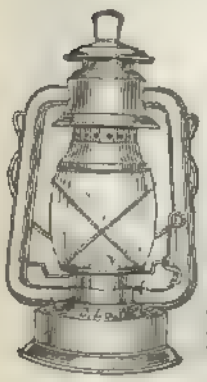
No. R163—Full half dozen case, per dozen $27.20

POLISHED BRASS, Fount and Top Cap, Heavy Steel Wire Grooved Under Bottom Edge.

No. R165—Full half dozen case, per dozen $40.80

No. 165—Less than case, per dozen $40 80

HALF DOZEN IN A CASE WT PER DOZEN 50 LBS.

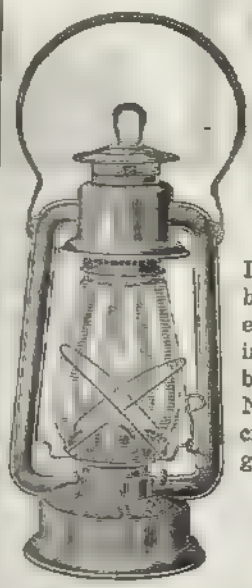


MAMMOTH COLD BLAST

This lantern is truly the farmer's friend. The large fount and the perfect clean light, makes it require but little care, for which reason it is so popular, especially for a barn lantern.

Mammoth size, tin fount, full weight IX-AAA charcoal plate, heavily retinned, burns forty hours, No. 2 one inch wick, No. 2 selected crystal cold blast globe, No. 616, w't per doz. 44 lbs.

No. R192—Full half dozen case, per dozen $27.70



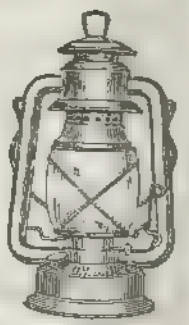
COLD BLAST

Large size fount, burns 30 hours, extra heavy rising cone tinned burner, 1 in. wick, No. 2 selected crystal cold blast globe No. 611.

Tin, fount, full weight IX-AAA charcoal plate, heavily retinned, w't per doz. 40 lbs.

No. R2—Full dozen case, per dozen $25.20

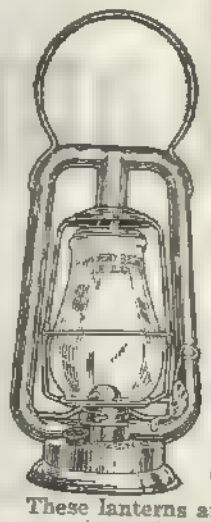
JUNIOR SUPREME



A handy lantern of the Cold Blast Type, compact and light weight. Gives twice as much light as the ordinary lantern of No. 0 Tubular Type although using the same size wick. Burns 18 hours. Equipped with No. 618 globe and No. 0 ⅞-inch wick.

No. R161—Per dozen $18.90

ONE DOZEN IN A BOX
WE DO NOT BREAK BOX



TUBULAR

Fount holds kerosene to burn eighteen hours, extra size funnel shape filler cap and screw, heavy steel burner, ⅞ in. wick, brass bound globe lift between tubes, substantial globe guard, tubular globe.

With crystal globe No. 600, heavily retinned, w't per doz. 30 lbs.

These lanterns are used by railroad companies and contracting companies

No. R242—Full dozen case, to signal danger.
per dozen $15.70

No. R242½—Full half dozen case, per dozen $15.90

ONE DOZEN AND HALF DOZEN IN A CASE

ORDINANCE

This lantern is made to meet the requirements of various state and city laws. Throws a strong, white light forward, and the rear signal is visible many hundred feet from the rear. This lantern is a necessary road protection against speeding automobiles. The flat steel holder is made extra strong and with a very long tongue so that the lantern cannot jar off. It is the modern road lantern.

RED ENAMELED, height 12½ in., corrugated bright tin reflector 2¾ in., ruby lens rear signal, steel burner with ⅞ in. wick, bull's eye mounted on globe plate, crystal "Bantie" cold blast globe No. 610, extra strong steel side holder, w't per doz. 38 lbs.

No. R104—Full half dozen case, per dozen $37.20

No. 104—Less than case, per dozen $37.20

LANTERNS

DIETZ RAILROAD LANTERNS

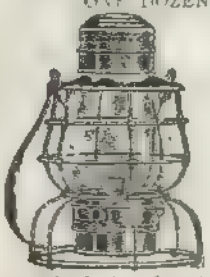
DIETZ VESTA—Modern cold blast construction, burns kerosene. Globe is removable through the frame fount, locks to the body of lanterns, by a patented positive locking device. Flame is regulated from outside of the globe. The Vesta fills every demand for an ideal R. R. Lantern, is easily cleande, filled and lghted, positively makes all signals, globe No. C35.

Bright tin, size wick ⅜ in., height 11 in., 3 candle power, will burn 16 hours with one filling, w't doz. 110 lbs.

No. R500—Full one dozen case, per dozen $41.60

No. 500—Less than case, per dozen $41.60

ONE DOZEN IN A BOX



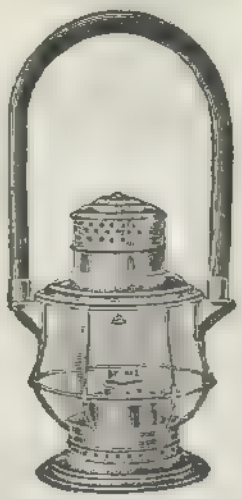
DIETZ VULCAN—Patented wing-lock ratchet burner, double guards, substantial stamped base and top. Removable globe, wing-lock (slip collar) burner is firmly attached to fount, base and fount fastened to frame by positive-locking device, fount has safety oil well. For strength and long life, ease in cleaning, filling, lighting, regulating and making signals, this lantern is unexcelled, globe No. 680. Burns lard oil.

No. 539—Bright tin, size wick 1 in., height 10 in., 2 candle power, will burn 24 hours with one filling, w't per doz. 49 lbs. ..per dozen $32.40

DEITZ STEEL CLAD—Patented wing-lock, ratchet burner, stamped steel frame with double wire guard, stamped fount and top, removable globe, hinged top, wing-lock (slip collar) burner is firmly attached to fount by patented locking lugs and fount fastened to frame by positive locking device, fount has safety oil well. Unexcelled for strength, ease of cleaning, filling, lighting and dependability in making signals, globe No. 630. Burns lard oil.

No. 5390—Bright tin, size wick 1 in. height 10 in., 2 candle power, will burn 24 hours with one filling, w't per doz. 50 lbs. ...per dozen $33.60

SWITCHMEN'S



Rigid wooden bail, No. 39 crystal globes—No. 630—Height 8 in. extreme height to top of bail 13 in., bright tin base and top heavy wire frame, short compact, light weight, the handle is of bent wood and being larger in diameter gives a firmer grip than the customary wire bail.

No. 90—Lard Oil burner No. 1, ¾ in. wick .....per dozen $47.00

No. 92—Lard Oil burner No. 2, 1 in. wick .....per dozen $47.00

WT PER DOZEN 58 LBS.

EXTRA BURNERS

No. 900—For No. 90 lanterns, per dozen $1.50

No. 920—For No. 92 lanterns, per dozen $2.50

ONE DOZEN IN A CASE

JUSTRITE ACETYLENE

Suitable for Mine Superintendents, Inspectors, Mining Engineers, Watchmen, Campers and Automobilists. Will not blow out.

No. 10A—Brass nickel plated, 20 candle power, bulls eye lens, automatic generator controls gas, flame controlled by valve, burns 5 to 6 hrs. with 3 oz. of carbide, w't per doz. 36 lbs. .....per dozen $96.00

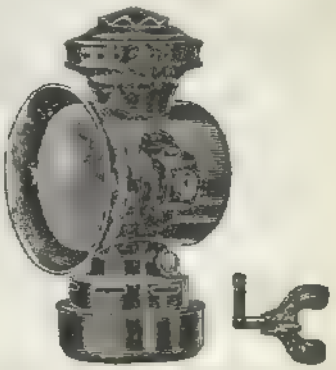
DIETZ DRIVING LAMPS

DIETZ OCTO—Black enameled with nickel plated door rim 10¼ in. high, 4⅝ in. door lens, 2¼ in. ruby rear lens, ¾ in. wick, complete with double socket for right or left hand, has bail for use as a hand lamp.

No. R360—Full dozen cases, per dozen $75.40

No. 360—Less than case, per dozen $75.40

ONE DOZEN IN A CASE, WT 20 LBS.



DIETZ NEW EUREKA—Black enameled nickel plated door rim, 7½ in. high, 3 in door lens, 2 in. rear ruby lens, ¾ in. wick, left hand, complete with dash clamp holder, burns 10 hours with one filling, w't per doz. 25 lbs.

Lamps for left side always furnished. The right hand pattern must be ordered from factory. Especially adapted for use on light vehicles.

No. R280—Full one dozen case, per dozen $37.40

No. 280—Less than case, dozen $7.40

ONE DOZEN IN A CASE

STREET LAMPS

Constructed on the cold blast principle, gives a steady light and will not blow out.

No. R3—No. 3 tubular crystal street globe—No. 622, No. 2 tubular burner, 1¼ in. wick, large tin front with device for automatically extinguishing light at any time desired, painted green, for post, height 27 in., diam. socket 2⅜ in., burns 24 hours with one filling, each $12.00

ONE IN A BOX. WT 26 LBS

LANTERN GLOBES

COLD BLAST

Size 2, height 6¾ in., top 2⅜ in., bottom 3 5/16 in., w't per doz. 14 lbs. Fit all styles, size No. 2 [illegible] and other standard Cold Blast Lanterns.

CRYSTAL GLASS

No. R611—Full one dozen box, per dozen $2.10
No. W6511—In cases of 5 dozen, w't 70 lbs. .....per case $9.00

CRYSTAL GLASS, WITH BULL'S EYE

W't Per Doz. 14 Lbs.
No. R612—Full one dozen box, per dozen $4.00
No. W6512—In cases of 5 dozen, w't 70 lbs. .....per case 19.00

RUBY GLASS

W't Per Doz. 14 Lbs.
No. R613—Full one dozen box, per dozen $6.30
No. W6513—In barrels of 5 dozen, w't 65 lbs. .....per barrel $29.50

"BANTIE" COLD BLAST

CRYSTAL

These globes fit Bantie, Junior, Gem and other No. 1 Cold Blast Lanterns.

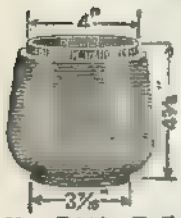
Height 5¼ in., top 2⅜ in. wide, bottom 2 13/16 in.

No. R610—Full one dozen box, per dozen $2 00
No. W6510—In cases of 5 dozen, w't 12 lbs. .....per case $9.00

CRYSTAL, WHITE BULL'S EYE

W't Per Doz. 12 Lbs.
No. R609—Full one dozen box, per dozen $4.00

COLD BLAST



Fits all makes of short globe cold blast lanterns, especially [illegible] supreme and No. 42 Dietz D'Lite, w't per doz. 13 lbs.

CRYSTAL GLASS

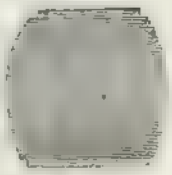
No. R616—Full one dozen box, per dozen $2.10
No. W6516—In cases of 5 dozen, w't 65 lbs. .....per case $9.00

RUBY GLASS

W't Per Doz. 12 Lbs.
No. R617—Full one dozen box, per dozen $6.30
No. W6517—In cases of 5 dozen, w't 65 lbs. .....per case $29.50

LITTLE WIZARD COLD BLAST

Crystal for Little Wizard lantern, size 3 13/16 in. high, 3¼ in. top, 2 13/16 in. width at bottom.



No. R618—Full dozen boxes. per dozen $2.10

TUBULAR

No. 600.

No. 602.

TUBULAR, size 0, height 6 9/16 in., top 2 13/16 in., bottom 3 7/16 in., w't per doz. 12 lbs.

COMMON CRYSTAL

No. R600—Full one dozen box, per dozen $2.00
No. W6500—In cases of 5 dozen, w't 60 lbs. .....per case $8.50

CRYSTAL BULL'S EYE

W't Per Doz. 12 Lbs.
No. R602—Full one dozen box, per dozen $4.50
No. W6502—In full cases of 5 dozen, w't 60 lbs. .....per case $21.00

SOLID RUBY

W't Per Doz. 14 Lbs.
No. R603—Full one dozen box, per dozen $5.80
No. W6503—In full barrels of 5 doz., w't 70 lbs. .....per barrel $27.50

NO. 39 RAILROAD TYPE

Height 5 7/16 in., top 2⅜ in., bottom 3 5/16 in., w't per doz. 14 lbs.

HEAVY SELECTED CRYSTAL GLASS

No. R630—Full one dozen box, per dozen $2.40
No. W6530—In full barrels of 5 doz., w't 75 lbs. .....per barrel $10.50

RED FLINT GLASS

No. R631—Full one dozen box, per dozen $6.00
No. W6531—In full barrels of 5 doz., w't 80 lbs. .....per barrel $31.50

U. S. TUBULAR

For little star lantern, height 5¼ in., top 2 5/16 in., bottom 2 13/16 in., w't per doz. 11 lbs.

No. R211—In full one dozen box, per dozen $2.00
No. W2811—In full cases of 8 dozen, w't 90 lbs. .....per case $14.00

TUBULAR LAMP

Size No. 3, height 10¾ in., top 5¾ in., bottom 6 in., for tubular steel lamps, w't per doz. 90 lbs.

No. W622—Full ¼ dozen barrels, per dozen $15.60

DIETZ D-LITE LANTERNS

Special features: DIETZ security standing bail, patent brass eyelets, patent safety (wing-lock) rising cone burner, patent reinforced tubes, patent globe lift on inside of frame, large oil-filler, patent locking short globe, No. 616, and double-seamed solderless dome-shaped oil fount.

No. R562—Bright tin, size wick 1 in., height 13¾ in., 10 candle power, will burn 20 hours with one filling, w't per doz. 25 lbs., per dozen **$25.70**

DIETZ LARGE FOUNT D-LITE

Special features: DIETZ security standing bail, patent brass eyelets, patent safety (wing-lock) rising cone burner, patent reinforced tubes, patent globe lift on inside of frame, large oil-filler, patent locking short globe, No. 616, and **Extra Large** double-seamed solderless dome-shaped oil-fount.

No. R592—Bright tin, size wick 1 in., height 13¾ in., 10 candle power, will burn 40 hours with one filling, w't per doz. 56 lbs., per dozen **$28.20**

DIETZ LITTLE WIZARD

Special features: DIETZ security standing bail, patent brass eyelets, patent safety (wing-lock) rising cone burner, patent reinforced tubes, patent globe lift on inside of frame, large oil-filler, patent locking short globe No. 618, and double-seamed solderless dome-shaped oil-fount.

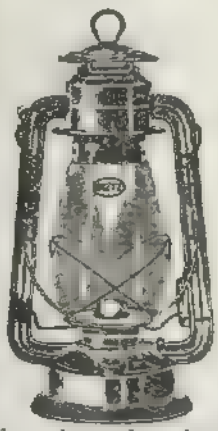
No. R511—Bright tin, size wick ⅞ in., height 11½ in., 6 candle power, will burn 18 hours with one filling, w't per doz. 33 lbs., per dozen **$19.40**

DIETZ MONARCH LANTERNS

Special features: DIETZ security standing bail, patent brass eyelets, patent safety (wing-lock) burner, patent reinforced tubes patent positive locking globe lift, large oil-filler, and double-seamed solderless dome-shaped oil-fount, globe No. 600.

No. R542—Bright tin, size wick ⅞ in., heigth 13¼ in., 4 candle power, will burn 18 hours with one filling, w't per doz. 38 lbs. ..per dozen **$16.20**

DIETZ BLIZZARD LANTERNS



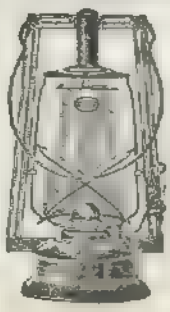
Special features: DIETZ security standing bail, patent brass eyelets, patent safety (wing-lock) rising cone burner, patent reinforced tubes, patent globe lift on inside of frame, large oil-filer, patent locking globe No. 611, and double-seamed solderless dome-shaped oil-fount.

No. R502—Bright tin, size wick 1 in., height 14¾ in., 10 candle power, will burn 20 hours with one filling, w't per doz. 52 lbs. ...per dozen **$25.70**

HALF DOZEN IN A BOX

LANTERNS

DIETZ LITTLE STAR



An attractive small size lantern of the Hot Blast Type. A fine boy's lantern and makes a nice gift.

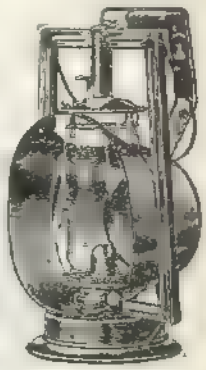
Equipped with No. 211 Globe and No. 0 ⅝-inch wick.

No. R570—
per dozen **$18.20**

ONE DOZEN IN A BOX
WE DO NOT BREAK BOXES

DIETZ ACME CAR INSPECTOR LANTERNS

With Guard.



Without Guard.

Strongly made, frame and hood are heavily braced and a strap of steel, well soldered, reinforces the frame, gives a reflected light of 20 candle power, has a grip handle set at right angle to project the light under cares, also has hand bails, globe No. 600.

No. 5151—With wire globe **guard,**
per dozen **$59.00**

No. 5150—Without guard, ...
per dozen **$52.00**

HALF DOZEN IN A CASE, W'T PER DOZ. 74 LBS.

JUNIOR WAGON LANTERN

Special features: DIETZ security standing mail, patent brass eyelets, patent safety (wing-lock) burner, patent reinforced tubes, large oil-filler, and double-seamed solderless dome-shaped oil-fount with safety oil-well, magnifying bulls-eye lens, ruby rear lens, combination holder, globe No. 610.

Black enamel, size wick ⅞ in., height 12 in., 10 candle power, will burn 18 hours with one filling, w't per doz. 54 lbs.

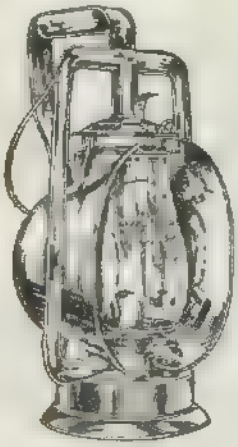
No. R504—Full half dozen cases,
per dozen **$36.70**

No. 504—Less than case,
per dozen **$36.70**

HALF DOZEN IN A CASE

[illegible] HOOD

Blue lacquered bright tin hood, 6 in. deep, 8 in. outside diameter, 5 in. silvered glass reflector, high cone burner, ⅞ in. wick, No. 0 crystal tubular globe—No. 600.



[illegible]—**Car Inspector's,** with substantial handle and wire bail, w't per doz. 35 lbs.

No. R2150—Full case lots, per dozen $48.00

No. 2150—Less than case, per dozen $48.00

HALF DOZEN IN A CASE

CRUSO SHORT GLOBE COLD BLAST

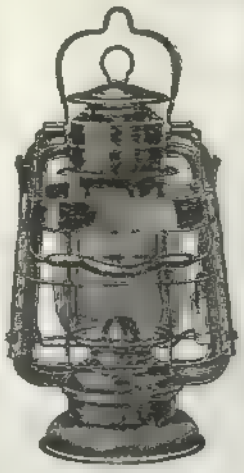
1 in. wick, No. 616 short cold blast globe, w't per doz. 50 lbs.

This is a good lantern at a very special price.

No. R775—Full half dozen case, per dozen $21.30

HALF DOZEN IN A CASE

DIETZ D-LITE FIRE DEPT. LANTERNS



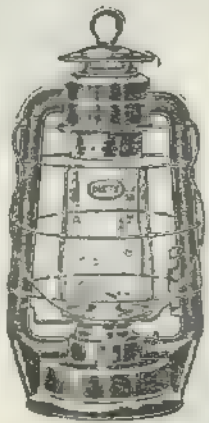
This is the first lantern for fire department use built on the cold blast principle with a short globe. Strongly made, easily cleaned, filled and lighted and will burn where there is air to support human life. Fits any standard bracket.

Patent safety (wing-lock) rising cone burner, patent reinforced tubes, large oil filler, patent guard, double-seamed solderless dome-shaped oil fount, globe No. 616.

No. 555—Red Enameled, on tin fount, size wick 1 in., height 14¾ in., 10 candle power, will burn 16 hours with one filling, w't per doz. 88 lbs., per dozen $100.00

HALF DOZEN IN A CASE

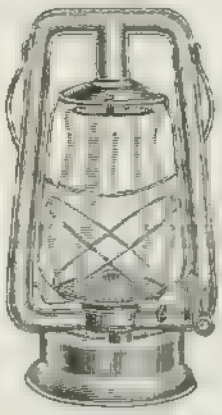
BLIZZARD MILL LANTERN



Special features: DIETZ security standing bail, patent brass eyelets, patent slotted cone burner, patent reinforced tubes, patent globe lift on inside of frame, large oil-filler, and double-seamed solderless dome-shaped oil-fount, safety oil well, fount strongly braced, globe No. 611.

No. 552—Red enamel, size wick 1 in., height 14¾ in., 10 candle power, will burn 18 hours with one filling, w't per doz. 72 lbs. ..per dozen $68.00

CRUSO CONTRACTORS'



CRUSO, side lift, steel burner, ⅞ in. wick.

These are nicely tinned, serviceable lanterns at very special prices.

With No. 600 Crystal Globe, w't per doz. 30 lbs.

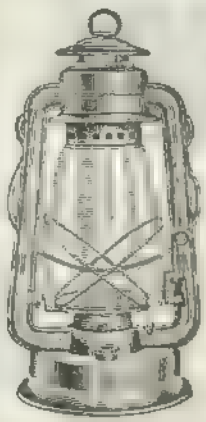
No. R240—Full dozen case, per dozen $13.30

With No. 603 Ruby Globe, w't per doz. 36 lbs.

No. R2433—Full dozen case, per dozen $18.00

ONE DOZEN IN A BOX

CRUSO COLD BLAST



CRUSO, cold blast, tubular, side globe lift, No. 2 steel burner, 1 in. wick No. 2 crystal cold blast globe—No. 611, w't per doz. 50 lbs.

In every way a high-grade lantern, at a very special price.

No. R12—Full half dozen case, per dozen $21.30

HALF DOZEN IN A CASE

Lamps & Lanterns

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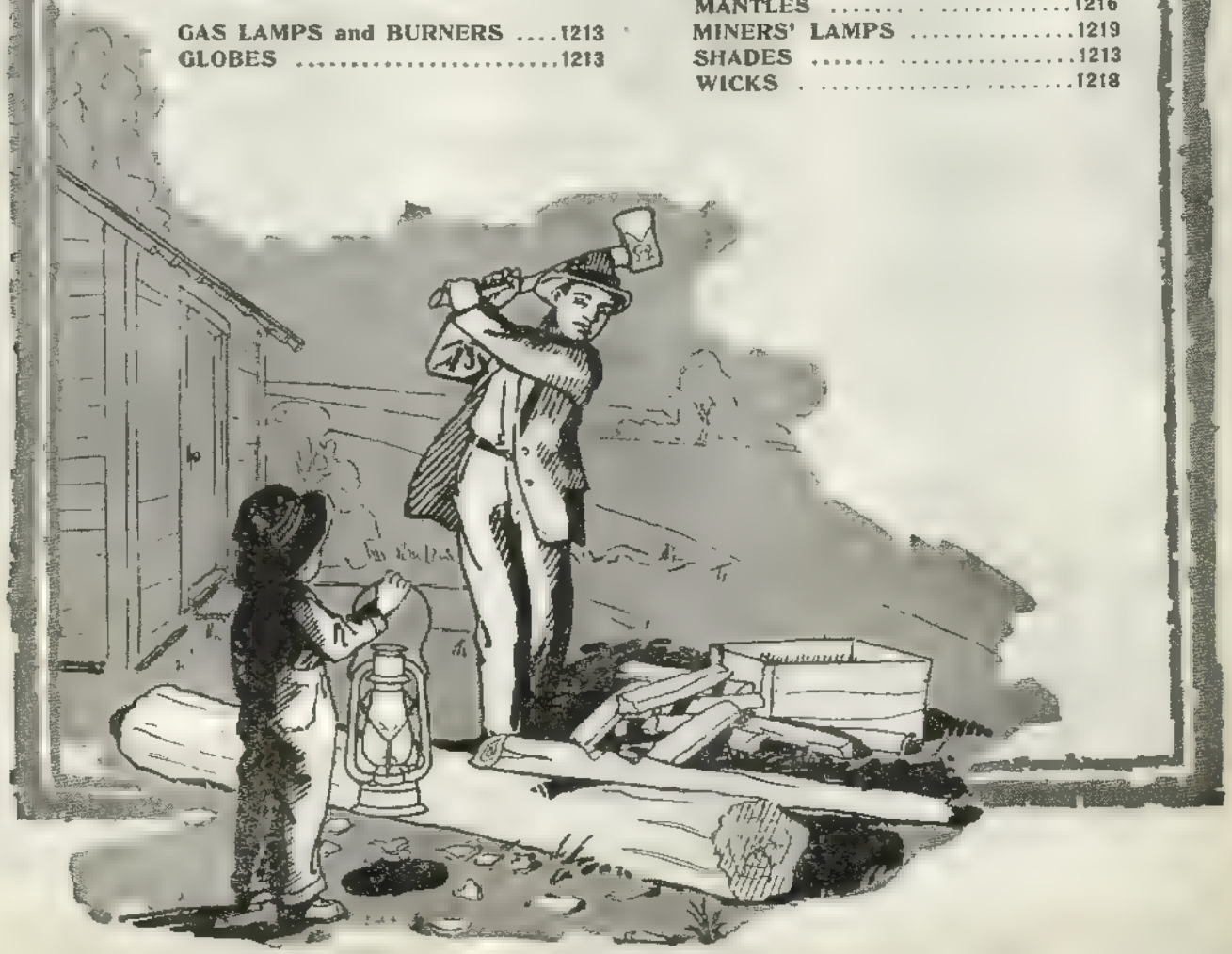


RIDING SADDLES

Tree—15½ in., hide covered, "Collard" steel fork, wide swell front, laced rawhide horn.
Skirts—Bastos, 28x13 in., round corners wool lined.
Front—Rawhide bound, solid center, not laced.
Seat—Full, jockey's seat and cantle in one piece.
Cantle—Straight, rawhide bound.
Stirrup Leathers—3 in.
Fenders—9½x6½ in.
Latigos—Long, 1¼ in., short, 1½ in.
Stirrups—Bent wood, leather tread.
Cinchas—Connected, 40 strand fish cord, front with leather safes, 4 in. white belting, web flank.
No. R127H—All plain, double cinchas, w't about 29½ lbs. ....each **$90.90**

Fancy pattern, hand stamped.
Tree—15½ in., beef hide covered, "Mart-Mill" steel fork, wide swell front, laced rawhide horn, leather lined.
Skirts—Bastos, 27½x13 in., wool lined.
Front—Rawhide bound and beaded, solid center, not laced.
Seat—Full, jockey's seat and cantle in one piece.
Cantle—Straight, rawhide bound.
Stirrup Leathers—3 in.
Fenders—8½x15½ in.
Latigos—Long 1½ in., short 1¾ in.
Stirrups—Bent wood, leather tread.
Cinchas—California, 16 strand, white Angora, wool lined leather safes with tongues.
No. R129H—Double cinchas, w't about 26 lbs. .....each **$90.00**

Fancy design, basket pattern, hand stamped.
Tree—15 in., beef hide covered, "Goodsill" steel fork, wide swell front, plain horn.
Skirts—Bastos, 26x12½ in., wool lined.
Front—Yoke layer over gullet stitched on.
Seat—Full jockey's seat and cantle in one piece.
Cantle—Straight, bound.
Stirrup Leathers—3 in.
Fenders—8½x15½ in.
Latigos—Long 1¼ in., short 1⅜ in.
Stirrups—Bent Wood.
Cinchas—18 strand cotton, leather safes with tongues.
No. R130H—Double cinchas, w't about 27 lbs. .....each **$102.00**

Tree—15 in., hide covered, "Summers" steel fork, medium wide swell front, plain horn.
Skirts—Bastos, 11¾x23 in., wool lined.
Seat—Full, jockey's seat and cantle in one piece.
Cantle—Straight, bound.
Stirrup Leathers—2 in.
Fenders—8x15 in.
Latigos—Long, 1¼ in., short, 1½ in.
Stirrups—Bent wood.
Cinchas—5 in Mexican cotton, with tongues.
No. R131H—Double cinchas, w't about 24 lbs. .....each **$84.00**

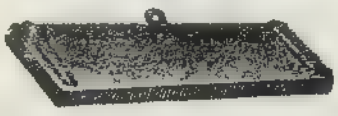
Western style, hand stamped.
Tree—16 in., hide covered, "Ingram" steel fork, medium wide swell front, laced rawhide horn, leather lined.
Skirts—Bastos, 25x12½ in., wool lined.
Front—Rawhide bound, solid center, not laced.
Seat—Full jockey's seat, one pc. cantle.
Cantle—Straight, rawhide bound.
Stirrup Leathers—2¼ in.
Fenders—8½x16 in.
Latigos—Long, 1⅜ in., short 1⅝ in.
Stirrups—Bent wood, leather covered tread.
Cinchas—18 strand, soft gray hair, wool lined leather safes and tongues.
No. R133H—Double cinchas, w't about 27½ lbs. .....each **$96.00**

No. 138H, California style.
Tree—"Cherokee," hide covered, 15 in., steel fork.
Skirts—Wool lined, 12½x24½ in.
Seat—Full jockey's seat, one pc. cantle.
Fenders—7½x15½ in.
Stirrup Leathers—2½ in.
Latigos—Long 1¾ in., short 1½ in.
Stirrups—Ox bow, leather tread, 2 in. bottoms.
Cinchas—15 strand Cal. soft gray hair, leather safes with buckle tongues.
No. R138H—Double cinch, w't about 24 lbs. .....each **$92.00**

FELT EXPRESS HOUSINGS

Heavy asbestos gray felt, pinked and stitched edge.

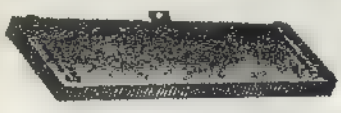
Nos.	301	302
Size, in.	6x20	7x20
W't per doz.	7	8
Per dozen	$16.00	17.70



Heavy orange felt, pinked edge.

Nos.	310	311
Size, in.	6x20	7x20
W't per doz., lbs.	6	7
Per dozen	$12.00	13.00

ONE DOZEN IN A PACKAGE



Heavy blue felt, pinked edge.

Nos.	320	321
Size, in.	6x20	7x20
W't per doz., lbs.	7	8
Per dozen	$19.70	22.50

Extra thick, gray felt center, blue felt top and bottom.

No. 6XX—6x20 in., w't per doz. 13½ lbs. .....per dozen **$18.60**

No. 7XX—7x20 in., w't per doz. 14½ lbs. .....per dozen **$20.70**

ONE DOZEN IN A BUNDLE

FELT EXPRESS HOUSINGS

Double graduated orange wool felt, pinked edge.

No. 325—6x20 in., w't per doz. 7¾ lbs., per dozen **$17.00**

Double Graduated blue felt, pinked edge.

No. 328—6x20 in., w't per doz. 7¾ lbs., per dozen **$23.00**

No. 329—7x20 in., w't per doz. 8¾ lbs., per dozen **$24.50**

ONE DOZEN IN A PACKAGE

SANITARY HAIR HOUSINGS

Top Neck Pads.

Genuine curled South American horse hair, compactly interwoven with reinforced blue felt top, leather straps.

No. 425—6x10 in., w't per doz. 4 lbs., per dozen **$8.50**

No. 426—7x10 in., w't per doz. 4½ lbs., per dozen **$9.60**

No. 427—7x12 in., w't per doz. 4½ lbs., per dozen **$10.70**

No. 450—Coach, 4½x18 in., w't per doz. 5 lbs. .....per dozen **$10.10**

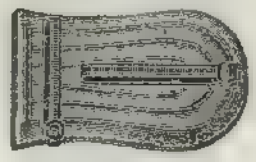
No. 445—Express, 6x20 in., w't per doz. 7 lbs. .....per dozen **$14.20**

No. 456—Express, 7x20 in., w't per doz. 8 lbs. .....per dozen **$16.00**

No. 457—Express, 8x20 in., w't per doz. 9 lbs. .....per dozen **$18.00**

HALF DOZEN IN A BUNDLE

RUMP PADS



THE COOLEST PAD MADE

These pads contain nothing but cleansed long Alaskan hair, knit together by slender barbed needles making them porous and flexible.

WILL NOT BREAK APART

No. 815—8x10 in., quilted Alaskan hair, with straps, w't per doz., 3 lbs., per dozen **$9.50**

LOOSE

Our reputation founded on over sixty-seven years' business stands back of the OUR VERY BEST brand.

All goods branded OUR VERY BEST are guaranteed to be of highest quality material and workmanship and free from imperfections.

In selling OUR VERY BEST articles there is a profit for you and satisfaction to your customers.

RIDING SADDLES

MEN'S

No. 164H, Western Style.

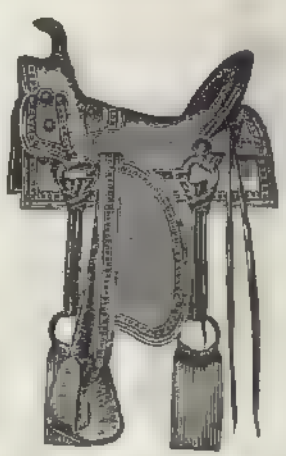
Tree—14½ in., steel fork.
Skirts—Felt lined, 11×22 in.
Seat—Full, jockeys sewed on.
Fenders—7×14 in.
Stirrup Leathers—1¾ in.
Latigos—1¾ in., to tie.
Stirrups—4 in., common wood.
Cinchas—15 strand Texas cotton.

No. R164H—Double cinch, w't about 16 lbs. .....each $53.00

No. 162H, Western Style.

Tree—14½ in., steel fork.
Skirts—11×21 in., wool covered bars.
Seat—Half with jockeys.
Fenders—7×14 in.
Stirrup Leathers—1¾ in.
Latigos—1¾ in., to tie.
Stirrups—4 in., Texas bolt.
Cinchas—15 strand Texas cotton.

No. R162H—Double cinch, w't about 13 lbs. .....each $49.00



No. 766H, Western Style.

Tree—14 in., steel fork.
Skirts—10×21 in., felt lined.
Seat—Half, straight cantle, skirt forming jockeys.
Fenders—8×13 in.
Stirrup Leathers—1¾ in.
Latigos—1 in. to tie.
Stirrups—4 in., Texas bolt.
Cinchas—16 strand Texas cotton.
No. R766H—Double cinch, w't about 12 lbs. .....each $53.00

No. 165H, Western Style.

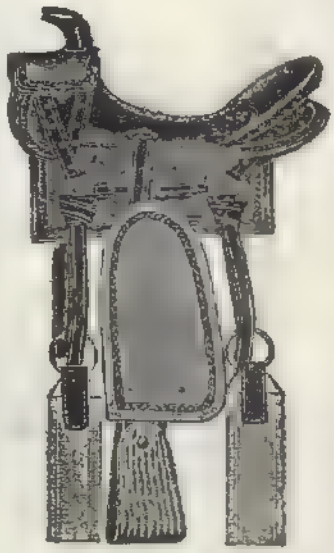
Tree—14½ in., steel fork.
Skirts—Felt lined, 10×20½ in.
Seat—Full, jockeys sewed on.
Fenders—7×14 in.
Stirrup Leathers—1¾ in.
Latigos—1¾ in., to tie.
Stirrups—California block 2 in. bottoms.
Cinchas—15 strand Texas cotton.

No. R165H—Double cinch, w't about 14 lbs. .....each $44.50

No. 167H Horn, Morgan.

Tree—14 in., Morgan.
Skirts—10½×22½ in., felt lined.
Seat—Full, jockeys and seat in one piece.
Fenders—6½×12 in.
Stirrup Leathers—1¾ in.
Latigos—1¾ in., to tie.
Stirrups—4 in., Texas bolt.
Cinchas—15 strand Texas cotton.

No. R167H—Dobue cinch, w't about 12 lbs. .....each $44.50



No. 168H Horn, Morgan.

Tree—Morgan, hide covered, 14 in.
Seat—Full.
Stirrup Leathers—1 in.
Tie Straps—1 in.
Cinchas—3 in., cotton back band.
Stirrups—4 in., Texas bolt.

No. R168H—Double cinch, w't about 10 lbs. .....each $29.00

RIDING SADDLES

No. 151H California style, nickel horn.

Tree—Nickel horn, hide covered, 14½ in., steel fork.
Skirts—Wool lined, 12x23 in.
Seat—Full, jockeys, seat and cantle in one piece.
Fenders—7½x15 in.
Stirrup Leathers—2 in.
Latigos—Long 1½ in., short 1¼ in.
Stirrups—Ox bow, 1½ in. bottoms.
Cinchas—20 strand Texas cotton, with buckle tongues.

No. R151H—Double cinch, w't about 21 lbs. .....each $80.00

No. 152H, Western styles.

Tree—Improved "Steinway," hide covered, 14½ in., steel fork.
Skirts—Felt lined, 11½x22½ in.
Seat—Full, jockeys, seat and cantle in one piece.
Fenders—7x14½ in.
Stirrup Leathers—2 in.
Latigos—Long 1½ in., short 1¼ in.
Stirrups—California block, 2½ in. bottoms.
Cinchas—18 strand Texas cotton, with buckle tongues.

No. R152H—Double cinch, w't about 18 lbs. .....each $62.00

No. 155H, Western Style.

Tree—14½ in., steel fork.
Skirts—11½x22½ in., unlined.
Seat—Full, jockeys, seat and cantle in one piece.
Fenders—8½x16 in.
Stirrup Leathers—2 in.
Latigos—Long 1½ in., short 1¼ in.
Stirrups—Ox bow, 1½ in. bottoms.
Cinchas—20 strand Texas cotton.

No. R155H—Double cinch, w't about 20 lbs. .....each $56.00

Western style.

Tree—14½ in., Improved Comanche, steel fork, hide covered.
Skirts—Full lined, 22½ in.
Seat—Full, seat, jockeys and cantle in one piece.
Cantle—Roll stitched.
Fenders—14½x7 in.
Stirrup Leathers—2 in., to lace, lined at points.
Rigging—1½ in. front, 1½ in. back, 1 in. connecting straps.
Latigos—1½ in. short, 1½ in. long.
Stirrups—California block, 2½ in.
Cinchas—18 strand Texas cotton with buckle tongues.

No. R950H—Double cinchas, w't 15 lbs. .....each $62.00

No. 154H, Western style.

Tree—Improved "Steinway," hide covered, 14½ in., steel fork.
Skirts—Felt lined, 12x23½ in.
Seat—Full, jockeys, seat and cantle in one piece.
Fenders—7x14 in.
Stirrup Leathers—1½ in.
Latigos—1½ in., to tie.
Stirrups—California block, 2½ in. bottoms.
Cinchas—15 strand Texas cotton.

No. R154H—Double cinch, w't about 17 lbs. .....each $70.00

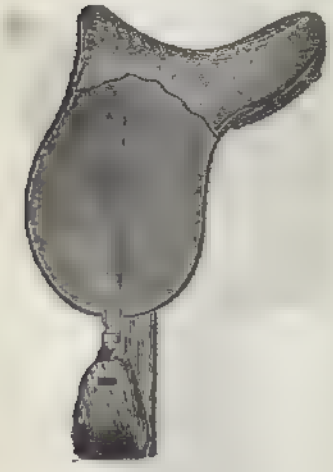
No. 159H, Western style.

Tree—14½ in., steel fork.
Skirts—11½x21½ in. felt lined.
Seat—Full, jockeys, seat and cantle in one piece.
Fenders—8½x16 in.
Stirrup Leathers—2 in.
Latigos—1½ in., to tie.
Stirrups—Ox bow, 1½ in. bottoms.
Cinchas—20 strand Texas cotton.

No. R159H—Double cinch, w't about 19 lbs. .....each $54.00

RIDING SADDLES AND BRIDLES

MEN'S SADDLES



Kentucky stitch down.

Tree—Kentucky stitch down, 16 in.
Skirts—Hog skin, impression.
Seating—Calf skin, silk stitched, hand raised.
Pad—Sheep skin and osnaburg.
Stirrup Leathers—1 in.
Girth—Corded, buckle.
Stirrups—4 in. wood.

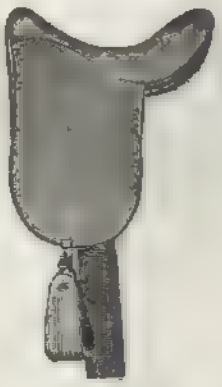
No. 323H—W't 17 lbs. ..each $33.00

Somerset, fair leather.

Tree—15½ in., Somerset.
Skirts—Hog skin impression.
Seating—Kip.
Pad—Enamel cloth.
Stirrup Leathers—⅞ in.
Girth—Fancy cotton, buckle.
Stirrups—2½ in., wood.

No. 368H—W't 7½ lbs. ...each $17.70

MEN'S SADDLES



No. 370H, Somerset fair leather.

Tree—15½ in., Somerset.
Skirts—Hog skin impression.
Seating—Kip.
Pad—Enamel cloth.
Stirrup Leathers—⅞ in.
Girth—Fancy cotton, buckle.
Stirrups—2½ in., wood.

No. 370H—W't 7½ lbs. ...each $13.70

BOYS'

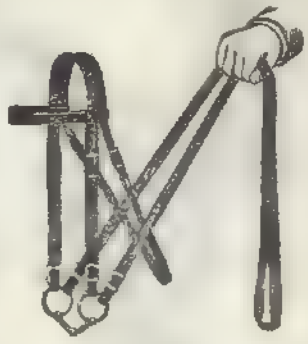
No. 374H, Somerset.

Tree—Somerset, 13½ in.
Seating—Kip.
Pad—Sheep skin, osnaburg lined.
Stirrup Leathers—⅞ in.
Girth—Cotton.
Stirrups—Wood.

No. 374H—W't 6½ lbs. ...each $13.70

All of our Saddles are made by skilled workmen from select stock and are correct in design and finely finished. Send us your mail orders and be convinced that we are offering the best Saddles on the market for the money.

RIDING BRIDLES

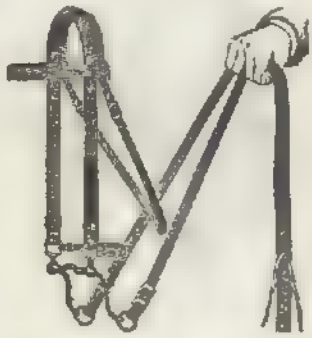


CX plate trimmed, flat, solid crown with bit.

No. 202R—¾ in., russet, per dozen $46.00

No. 203R—⅞ in., russet, per dozen $52.00

No. 212R—¾ in., XC trimmed, russet leather, flat, solid crown, with bit, per dozen $54.00



Russet leather XC trimmed, double head stall, 5 foot quirt reins to buckle, with bit.

No. 220R—¾ in. ....per dozen $60.00
No. 221R—⅞ in. ....per dozen 67.00
No. 222R—1 in. ....per dozen 75.00

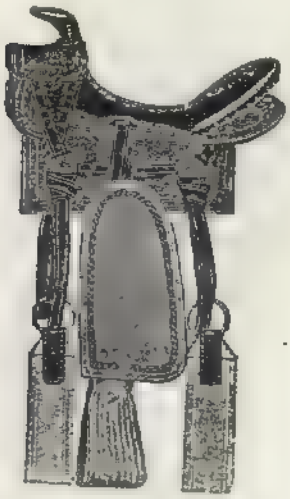
RIDING SADDLES

BOYS'

No. 175H Horn, Morgan.

Tree—Morgan, hide covered, 13 in.
Seat—Half.
Stirrup Leathers—1 in.
Tie Straps—1 in.
Stirrups—3 in., wood.
Girths—3 in., cotton back band.

No. R175H—Double cinch, w't about 9 lbs. .....each $22.00

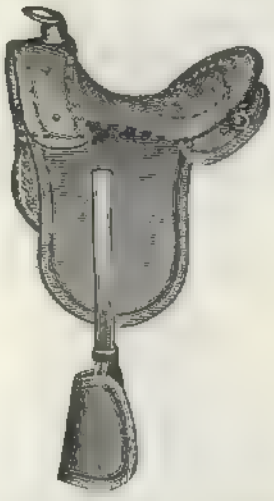


No. 195H Horn, Morgan.

Tree—Morgan, 12 in.
Seat—Full.
Stirrup Leathers—¾ in.
Tie Straps—¾ in.
Stirrups—Wood.
Girths—3 in., cotton back band.

No. R195H—W't about 8½ lbs., each $23.30

BOYS' OR GIRLS'

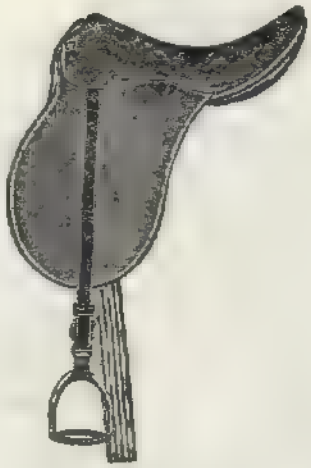


No. 199H, Boys' or Girls'.

Tree—11 in., Morgan.
Seat—Full, calfskin quilted.
Cantle—Bound.
Stirrup Leathers—⅝ in.
Billets—1 in.
Girth—Corded ring.
Stirrups—2¼ in., wood, hooded.

No. R199H—W't 6¾ lbs. ..each $23.70

MEN'S



English Cut Back.

Tree—15½ in., English cut back.
Skirts—Hog skin impression.
Seating—Plain pig skin.
Pad—Sheep skin and heavy linen.
Stirrup Leathers—1 in.
Girth—Corded, buckle.
Stirrups—Iron.

No. R352H—W't 10½ lbs., each $34.00

MEN'S

No. 214H, McClellan, Black Leather.

Tree—McClellan, with brasses and mantle straps, 14 in.
Seat—Perforated.
Stirrup Leathers—1 in.
Tie Straps—1 in.
Girth—Corded, ring, to tie.
Stirrups—3 in., wood, with boots.

No. R214H—W't 9 lbs. ..each $33.00

Carry a line of where the better goods upon which you can rely.

The dealer who carries H. S. B. & Co. Brands marks his store as a place goods are sold.

A house with over sixty-seven years' experience stands back of our brands.

J. SAMUEL WHITE & CO., Ltd.

SHIPBUILDERS AND ENGINEERS,

EAST COWES, I.W. - ENGLAND.

BUILDERS OF

HIGH-SPEED PASSENGER, MAIL, AND CARGO STEAMERS.

Torpedo Boats.
T. B. Destroyers.
Submarines.
Special Service Vessels and Launches of all types.
Motor Passenger and Cargo Vessels.

Marine Turbines up to 40,000 B.H.P.
"White-Forster" Water Tube Boilers.
"White"-Diesel Engines.
"White" Patent Oil Fuel Burning Installations.

Telegraphic Address:
"WHITE EAST-COWES."

London Office:
28, VICTORIA STREET, WESTMINSTER, S.W. 1.

CODES:
Lieber's.
A.B.C. (5th Edition).
Engineering (2nd Edition).
Western Union.

CONSTRUCTEURS DE

Steamers de Grande Vitesse pour Passagers, Courrier et Marchandise.
Torpilleurs.
Contre-Torpilleurs.
Sous Marins.
Vaisseaux pour Services Spéciaux.
Vaisseaux à Moteur pour Passagers et Marchandise.
Turbines Marines jusqu'à 40,000 *Chev. Fr.*
Chaudières Aquatubulaires "White-Forster."
Moteurs, Système "White-Diesel."
Installations brevetées "White" à combustible liquide.

ПОСТРОЙКА

Быстрожодные, Пасажерскіе, Почтовое и грусовое параходы.
Миноносцевъ.
Контръ Миноносцевъ.
Подводныхъ лодокъ.
Судова для спеціальныхъ надобностей и лодокъ всевозможныхъ типовъ.
Пасажерскіе и грусовые моторные лодки.
Морскихъ турбинъ до 40,000 тормазныхъ лошадинныхъ силъ.
Водотрубныхъ котловъ «Вайтъ Форстеръ».
Двигателей внутренняго сгоранія, Дизеля сист. «Вайтъ».
Оборудованіе жидкаго топлива «патентъ Вайта».

J. SAMUEL WHITE & CO., Ltd., EAST COWES, ISLE OF WIGHT, ENGLAND.

SHIPBUILDERS AND ENGINEERS,

40 ft. MOTOR PILOT LAUNCH.

HULL.

DIMENSIONS:
Length, b.p. 40' 0"
Breadth, o.p. 8' 8"
Depth, moulded, 4' 9½"

SPEED: 8 knots.

CONSTRUCTED of two thicknesses of teak, with Canadian elm timbers; bottom coppered. Decked all over and divided into three watertight compartments. Cabin forward and cabin and cockpit aft.

For Coasting or Sea Work; also suitable as a Port Tender to Steamships, etc.

Code Word: "PILOT."

Strongly constructed for the heavy and continuous work, in all weathers, of going alongside vessels to put pilot aboard, also for towing pilot's rowing cutters.

MACHINERY.

Marine type petroleum motor, of 50 b.h.p. at 600 revolutions, complete with reverse gear, gunmetal propeller, naval brass propeller shaft, galvanized steel fuel and water tanks, all usual accessories and spare gear.

CHALOUPE AUTOMOBILE pour PILOTAGE de 12m 19.

Très adaptée pour Cabotages ou Voyages sur Mer, ainsi que pour servir de Patache de Port aux Grands Paquebots, etc.

De Construction très robuste spécialement étudiée pour Travaux durs et continuels par tous les temps, pour s'approcher des Vaisseaux afin de mettre à bord le Pilote.

Code Télégraphique: "PILOT."

COQUE. Dimensions:

Longueur entre PP.	12m.19
Largeur au fort	2m.65
Creux sur Quille	1m 46
Vitesse	8 *nœuds*

La Coque est construite en deux épaisseurs de Teck, avec Membrures en Ormeau fond doublé en cuivre. Le tout est ponté et divisé en trois compartiments étanches. Cabine en avant et fosse en arrière.

MACHINE. Moteur de Type Marin à Pétrole, de 50 Chev. Fr. et 600 tours par min., complet avec Appareil de Renversement, Hélice en Bronze, Arbre Extérieur en Bronze Naval, et tous les Accessoires et Pièce de Rechange ordinaires.

Моторная пилотная лодка въ 40 фт.

Для береговой или морской службы. Можетъ служить портовымъ баркасомъ для пароходовъ и т.д.

Прочной конструкціи для тяжелой и постоянной службы во всякую погоду бортъ съ бортомъ судовъ для доставки лоцмановъ.

Кодовое слово: «PILOT».

Корпусъ. Размѣры.

Длина между перпендикулярами	12.19 мт.
Ширина наибольшая	2.65 мт.
Глубина интрюма	1.46 мт.
Скорость 8 узловъ.	

Построенъ изъ тикового дерева и вязника двойной толщины. Дно обшито мѣдью. Весь покрытъ палубой и состоитъ изъ трехъ водонепроницаемыхъ отдѣленій. Каюта на носу; кокпитъ на кормѣ.

Машины. Керосиновый двигатель морского типа въ 50 лош. силъ при 600 оборотахъ, полностью съ приводомъ заднаго хода. Бронзовый винтъ; бронзовый ведущій валъ. Всѣ обыкновенныя принадлежности и запасной приводъ.

J. SAMUEL WHITE & CO., Ltd., EAST COWES, ISLE OF WIGHT, ENGLAND.

SHIPBUILDERS AND ENGINEERS.

93½ ft. MOTOR PASSENGER AND CARGO LAUNCH.

HULL.

DIMENSIONS:

Length on w.l.	93′ 6″
Breadth	16′ 0″
Depth	7′ 6″
Draught (loaded)	4 6″

SPEED, 10½ Knots.

CONSTRUCTED of galvanized steel, having good sheer with plenty of flare forward and generally similar to illustration.

ACCOMMODATION. — Saloon accommodation for first-class passengers and officers, containing w.c. and pantry, fitted on port and starboard sides respectively, panelled inside with polished teak and highly finished. Cabins provided for Engineers, &c., and suitable space for the crew.

For Mail and Passenger Service in South-West Africa.

Code Word: "MANATEE."

The vessel, as illustrated, was delivered under her own power to Akassa, West Africa, a distance of over 4,000 miles.

MACHINERY.

PROPELLING MACHINERY:

Two sets of 76-B.H.P. motors, driving twin screws, at about 265 revolutions per minute.

SHAFTING.—All of best forged steel.

BILGE PUMP. — A solid gunmetal pump of the plunger type, driven by a 3-H.P. engine, and capable of discharging about 3,000 gallons per hour.

ELECTRIC LIGHT ENGINE AND DYNAMO. A 3-B.H.P. Paraffin Engine and direct current Dynamo, capable of supplying current at 25 volts for "Osram" Lamps of a total candle power of not less than 800.

Chaloupe Automobile de 28m50 pour Marchandises et Passagers.

Code Télégraphique: "MANATEE."

COQUE.

Dimensions:

Longueur entre PP. 28m.50 *Creux sur Quille* ... 2m.29
Largeur au fort ... 4m.88 *Tirant d'Eau (chargée)* 1m.37

Vitesse, 10½ *nœuds.*

Pour le Service Postal et des Passagers en Afrique Sud-Occidentale. La Coque est en Acier galvanisé, généralement construite comme l'indique la Fig. ci-dessus. Aménagements pour Passagers de 1ère Classe et Officiers.

MACHINES.

Deux Series de Moteurs de 76 Chev. Fr., actionnant sur double Hélices faisant 265 tours par min. Un Moteur à Essence de 3 Chev. Fr. est accouplé à une Dynamo à C.C. de 25 Volts. Une Pompe de Cale avec Moteur de 3 Chev. d'un débit de 14 tonnes à l'heure.

La Chaloupe illustrée ci-dessus a été livrée à Akassa, Afrique Occidentale où elle a naviguée seule, parcourant une distance de plus de 4000 milles marins.

Моторныя, грузовыя и пассажирскія суда въ 28.50 мт.

Кодовое слово: «MANATEE».

Діам.: -
Лина, 28.50 мт. Глубина, 2.29 мт.
Ширина, 4.88 мт.
Осадка въ нагруженномъ состояніи, 1.37 мт.
Скорость, 10½ узла.

Для почтоваго и пассажирскаго сообщеній въ Юго-Западной Африкѣ.

Корпусъ изъ оцинкованной стали построенъ въ общемъ соотвѣтственно иллюстраціи. Салонное помѣщеніе для офицеровъ и пассажировъ перваго класса.

МАШИНЫ.

Два комплекта двигателей въ 76 лош. силъ управляютъ двухъ лопастными винтами при 265 оборотахъ. Керосиновый двигатель въ 3 лош. силы управляетъ динамо постояннаго тока въ 25 вольтъ. Осушительный насосъ въ 3 лош. силы выпускаетъ 3,000 галлоновъ въ часъ.

Судно показанное на иллюстраціи выше, было доставлено собственными средствами въ Акасса въ Западной Африкѣ, продѣлавъ для этого разстояніе, приблизительно, въ 4,000 узловъ.

J. SAMUEL WHITE & CO., Ltd., EAST COWES, ISLE OF WIGHT, ENGLAND.

SHIPBUILDERS AND ENGINEERS,

STERN WHEEL STEAMER.

HULL.

DIMENSIONS:
Length . 145′ 0″
Breadth . 27′ 0″
Depth . . 5′ 6″
Draught . 2′ 8″

SPEED:
10 miles per hour.

CONSTRUCTED
of galvanized steel, divided into seven compartments by watertight bulkheads, having main and upper decks of teak and sun decks of steel.

ELECTRIC LIGHT:
Lighted throughout by electric light.

BOATS:
One 24 ft. gig and one 12 ft. dinghy.

OUTFIT:
Complete in all respects, including crockery, cutlery, plate, bedding, flags, etc.

For carrying Passengers and Stores, transporting Troops, and for special services.

Code Word: "VALIANT."

Built to the order of the Crown Agents for the Colonies for service on the River Niger.

Of first-class construction and materials.

MACHINERY.

ENGINES:
Triple expansion horizontal surface condensing.

BOILERS:
Two "White-Forster" water-tube boilers, having large grates for wood fuel, working under natural draught.

CONDENSER:
Independent, of copper.

PUMPS:
The air, circulating, main feed, bilge, and two auxiliary feed pumps are independent.

PADDLE WHEELS:
Two in number.

SPARE GEAR:
Complete list.

Vapeur Sternwheeler.

Pour le Transport de Passagers, Vivres, Troupes et pour Services Spéciaux.

Code Télégraphique: "VALIANT."

Construit pour le Ministère des Colonies Britanniques et destiné à la navigation sur le Niger.

COQUE.

Longueur 44m.20 *Largeur* .. 8m.28
Creux .. 1m.68 *Tirant d'Eau* 0m.61
Vitesse: 10 *Milles.*

Construit en Acier galvanisé et divisé en 7 Compartiments étanches. Ponts Principal et Supérieur en Teck, Pont d'Abri en Acier. Entièrement éclairé à l'Électricité. Une Yole de 7m.32 et un Youyou de 3m.66.

MACHINES. Type Horizontal à Triple Expansion avec Condenseur à Surface. Deux Chaudières Aquatubulaires, Type "WHITE-FORSTER," avec grandes Grilles pour Chauffage au Bois. Condenseur Indépendant en Cuivre rouge. Les Pompes à Air, de Circulation, Alimentaire, de Cale et 2 Pompes Alimentaires supplémentaires sont indépendentes. Deux Roues à Aubes. Pièces de Rechange complètes.

ПАРОХОДЪ СЪ КОРМОВЫМЪ КОЛЕСОМЪ.

Для перевозки пассажировъ, груза, войска и для спеціальныхъ надобностей.

Кодовое слово: «VALIANT».

Построены по заказу королевскихъ представителей Колоній для службы по рѣкѣ Нигеръ.

КОРПУСЪ.

Длина 44.20 мт. Ширина 8.28 мт.
Глубина 1.68 мт. Осадка 0.61 мт.
Скорость 10 англ. миль въ часъ.

Оцинкованной стали. Состоитъ изъ семи водонепроницаемыхъ отдѣленій. Главная и верхняя палубы изъ тикового дерева. Верхняя палуба изъ стали.

Все судно освѣщено электричествомъ.

1 гичка въ 7.32 мт. и 1 динги въ 3.66 мт.

МАШИНЫ. Трехцилиндровые горизонтальные двигатели съ поверхностнымъ охлажденіемъ.

2 водотрубныхъ котла «Вайтъ Форстеръ» съ большими рѣшетками для лѣсного топлива.

Независимый мѣдный конденсаторъ.

Независимые воздушный, циркуляціонный, главный питательный, осушительный и два вспомогательныхъ насоса. Два вододѣйствующихъ колеса съ лопастями. Запасной приводъ полностью.

J. SAMUEL WHITE & CO., Ltd., EAST COWES, ISLE OF WIGHT, ENGLAND.

SHIPBUILDERS AND ENGINEERS,

TORPEDO TYPE YACHT.

HULL.

DIMENSIONS:

Length ... 85′ 0″
Breadth ... 10′ 6″
Depth ... 5′ 10″

SPEED, 20 Knots.

CONSTRUCTION:

Ram-shaped bow and elliptical stern, flush main deck with good sheer and flare, turtle deck forward, four watertight bulkheads. Hull of galvanized steel. Deck covered with corticene.

Code Word: "SCUD."

Shipping Dimensions, 90 ft. × 10½ ft. × 9 ft. — 31 tons.

Full Speed, 20 Knots; Cruising Speed, 18 Knots.

This type of Yacht can be arranged for a length of 50 ft. with a cruising speed of 10 knots.

MACHINERY.

ENGINES:

Three-Cylinder surface condensing of 500 I.H.P., having air, feed, and bilge pumps of gunmetal attached.

BOILER:

"White-Forster" water tube type, arranged to burn wood or coal under forced draught; 200 lbs. w.p.

CONDENSER:

Of naval brass, circulating pump of gunmetal with independent engine.

FAN with separate engine.

DONKEY PUMP for general service.

SHAFTING of wrought steel.

PROPELLER of gunmetal.

OUTFIT:

All necessary tools and outfit.

Yacht Type Torpilleur.

Code Télégraphique: "SCUD"

COQUE.

Longueur ... 25m.91 *Largeur* ... 3m.21
Creux ... 1m.78
Vitesse, 20 *nœuds.*

(Nous construisons aussi ce Type de Yacht de 15m.25 de longueur)

Proue à Éperon et Étambot arrondi. Quatre Cloisons étanches. Coque en Acier galvanisé.

MACHINES

À trois Cylindres de 500 Chev. Ind. avec Condenseur à Surface; Pompes à Air, Alimentaire, et de Cale, en Laiton accouplées à la Machine

Chaudière Aquatubulaire, Type "White-Forster," établie pour Chauffage au Bois ou au Charbon avec Tirage Forcé Condenseur en Laiton; Pompe de Circulation Indépendente en Bronze. Ventilateur avec Moteur séparé. Petit Cheval pour Service général.

Hélice en Bronze et tous Accessoires nécessaires.

ЯХТА ТОРПЕДНАГО ТИПА.

Кодовое слово: «SCUD».

КОРПУСЪ.

Длина, 25.91 мт. Ширина, 3.21 мт.
Глубина, 1.78 мт.

Скорость, 20 узловъ.

Яхта этого типа можетъ быть построена длиной въ 15.25 мт. Таранный носъ и корма эллиптическаго типа. 4 водонепроницаемыхъ переборокъ. Корпусъ изъ оцинкованной стали.

МАШИНЫ.

Трехцилиндровые двигатели въ 500 лош. силъ съ поверхностнымъ охлажденіемъ. Насосы, воздушный, питательный и осушительный придѣланы къ двигателямъ.

Водотрубный котелъ «Вайтъ Форстеръ» приспособленъ къ сгоранію лѣса или угля при тягѣ посредствомъ вдуванія воздуха. Бронзовый конденсаторъ. Независимый бронзовый циркуляціонный насосъ. Вентиляторъ съ отдѣльнымъ двигателемъ. Донка для общей работы. Бронзовый винтъ. Всѣ необходимыя принадлежности.

J. SAMUEL WHITE & CO., Ltd., EAST COWES, ISLE OF WIGHT, ENGLAND.

SHIPBUILDERS AND ENGINEERS,

TWIN SCREW TOWING LAUNCH.

HULL.

DIMENSIONS:
Length . 65' 0"
Breadth . 10 0"
Depth. . 5 0"
Draught . 2 6"

SPEED:
12 knots.

CONSTRUCTED
of galvanized steel with straight stem, round stern, tunnel for screws, three watertight bulkheads, bulwarks at bow and stern.

DECK:
Of steel.

CARGO SPACE:
Small hold aft, with hatch for 5 tons of cargo.

DECK FITTINGS:
Bollards, fairleads, towing gear, crab winch and stove.

OUTFIT:
Awning, navigating lights, anchor and chain, etc.

FOR RIVER AND HARBOUR USE.

Code Word: "PHYLLIS."

TOWING CAPACITY: 20 Tons in ship-shaped Barges at 9½ miles

SHIPPING DIMENSIONS: Boat complete, 65 ft. by 10½ ft. by 8½ ft.—20 Tons.

Cases: About 40 cubic feet—10 Cwt.

MACHINERY.

ENGINES:
Twin compound surface condensing of 170 i.h.p. at 380 revolutions; air, feed, and bilge pumps of gunmetal.

BOILER:
Of the "White-Forster" water tube type, working with assisted draught.

FAN:
Driven by separate engine.

CONDENSER:
Independent, of naval brass.

CIRCULATING PUMP:
Centrifugal independently driven pump of gunmetal.

DONKEY:
General service pump of the crank type.

SHAFTING:
Of forged steel.

PROPELLERS:
Gunmetal.

Chaloupe pour Remorquer à double Hélices.

Pour tous travaux dans les Ports et sur les Rivières.

Code Télegraphique: "PHYLLIS."

Puissance de Remorquage: 20 Tonnes de Chalands en Forme de Vaisseaux à 9 nœuds.

COQUE. Longueur 19m 81 *Largeur* . . 3m.05
Creux . 1m.52 *Tirant d'Eau.* 0m 76
Vitesse: 12 *nœuds.*

Le tout en Acier galvanisé; Tunnel pour les Hélices, trois Cloisons etanches, Petite Cale de Marchandises en arrière avec écoutille pour 5 *Tonnes de Cargaison.*

MACHINES. Machines Jumelles Compound de 170 *Chev. Ind. effectuant* 380 *tours, avec Condenseur a Surface; Pompes à Air, Alimentaire, et de Cale, en Bronze à Canon.*

Chaudière Aquatubulaire, Type "WHITE-FORSTER," avec Tirage supplémentaire; Condenseur Indépendant en Laiton; Pompe de Circulation Indépendante et Petit Cheval.

Ligne d'Arbres en Acier Forgé; Hélices en Bronze à Canon.

БУКСИРНАЯ ЛОДКА СЪ ДВУХЛОПАСТНЫМЪ ВИНТОМЪ.

Для пользованія въ рѣкахъ и портахъ.

Кодовое слово: «PHYLLIS».

Буксирная способность: 20 тон. въ судообразныхъ баржахъ при скорости въ 9 узловъ.

КОРПУСЪ. Длина 19.81 мт. Ширина 3.05 мт.
Глубина 1.52 мт. Осадка 0.76 мт.
Скорость 12 узловъ.

Оцинкованной стали; туннель для винтовъ. 3 водонепроницаемыхъ переборокъ.

Небольшая поддержка на кормѣ съ люкомъ для 5 тоннаго груза.

МАШИНЫ. Сдвоенные двигатели компаундъ съ поверхностнымъ охлажденіемъ. 170 лош. силъ при 380 оборотахъ. Бронзовые, воздушные, питательные и осушительные насосы.

Котелъ водотрубнаго типа «Вайтъ Форстеръ» съ вспомогательной тягой.

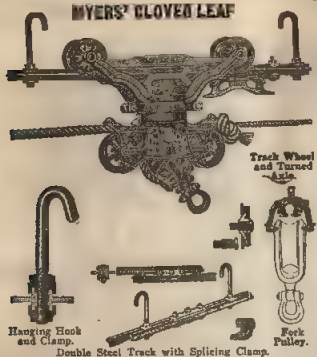
Независимый Бронзовые конденсаторъ.

Независимый центробѣжный циркуляціонный насосъ а также донка.

Валы ковкой стали. Бронзовые винты.

HAY CARRIERS

MYERS' CLOVER LEAF



Double Steel Track with Splicing Clamp.

This combination machine (both swivel and reversible) can be reversed by drawing the rope through from end to end or by turning the swivel.

It is constructed with flanged wheels revolving on ⅝ in. turned steel bearings. The lock is composed of three parts and has no springs. The carrier has a large, flaring mouth to receive the fork pulley. The pulley can swing backward or forward without becoming detached. This swinging fork pulley is a decided advantage when used for filling a mow above beams, as it relieves all side strain from car.

No. N114—Hay Carriers, for double steel track, malleable iron, aluminum finish, ⅝ in. turned steel axles, swivel and reversible, possible force lock, no springs, w't 27 lbs., each $12.75

Nos. T6446 and 64412—Double Steel Track, with splicing clamps, lengths 6 and 12 ft., w't per foot 2 lbs., per foot $0.35

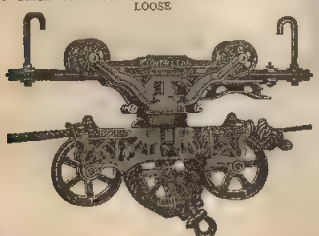
No. 302—Hanging Hooks, 6 in. measured after bending, with clamps, w't per doz. 8 lbs. ..... per dozen $2 50

No. 824—Extra Slicing Clamps, w't per doz. 14 lbs., per dozen $3.60

No. 1046—End Stops, for **double** steel track, per dozen $1.90

No. 1085—End Stops, for **single** steel track, per dozen $1.20

LOOSE



No. N124—7 in. sheaves, with 1 7/16 in. steel bearings with groove suitable for carrying wire cable or ⅝ in. Manila or Sisal draft rope, w't 37 lbs., otherwise same as No. 114, each $16.75

LOOSE

HIBBARD

Showing No. 20 Track

No. 45 Rafter Bracket.

No. 25. Hanging Hook.

No. N4—Hay Carriers, for double angle steel track, malleable iron, painted red with two coats of baking enamel, turned iron bushings, swivel and reversible, open bell, for fork or sling, w't 24 lbs. ..... each $11.30

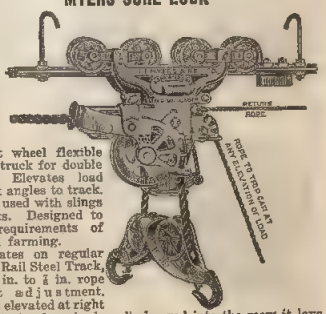
No. A20—Steel track, lengths of 6 and 12 ft., w't per foot 2 lbs. $0.35

No. 25—Hanging hooks, 5½ in., w't per doz. 4½ lbs., per dozen $2.40

No. 45—Rafter brackets, steel, w't per doz. 2½ lbs., per dozen $1.15

LOOSE

MYERS SURE LOCK



Eight wheel flexible engine truck for double track. Elevates load at right angles to track. Can be used with slings or forks. Designed to meet requirements of modern farming.

Operates on regular Double Rail Steel Track, uses ⅜ in. to ⅝ in. rope without adjustment. Load is elevated at right angles to track and when discharged into the mow it lays parallel with the load on the wagon requiring less labor in distributing hay over mow. Operates automatically, tripped by sling pulleys striking plate immediately under machine; also arranged with separate trip rope which allows load to be carried into mow at any elevation desired.

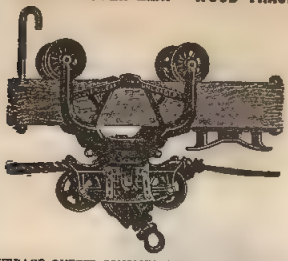
Construction—A long heavy wheel-base, truck with eight large truck wheels mounted on turned steel axles. Rope wheel 7 in. diam., fitted with 1 7/16 in. machined steel bearing. Rope lock arranged so that pressure on rope is proportional to weight of load, by which it is controlled. Rope lock so powerful that smooth faced rope jaws only are necesary, eliminating all wear on rope.

No. N40—Myers Sure Lock sling unloader, rope draft for double steel track ..... each $24.00

LOOSE

HAY CARRIERS

MYERS' CLOVER LEAF—WOOD TRACK



AN AVERAGE OUTFIT CONSISTS OF ONE CARRIER, TWELVE HANGING HOOKS, TWELVE RAFTER BRACKETS, FIVE PASS KNOT PULLEYS AND TWO FLOOR HOOKS

This carrier is identical in construction throughout with the steel track carrier, with the exception of the size of track. It is adapted for 4x4 in. wood track.

No. N120—Hay Carriers, malleable iron, aluminum finish, ⅜ in. turned steel axles, swivel and reversible, positive force lock, no spring, w't 32 lbs. ..... each $12.75

No. 267—Hanging Hooks, ¼x10 **in.,** measured after bending, w't per doz. 9 lbs. ..... per dozen $1.90

No. 268—Hanging Hooks, ¼x14 **in.,** measured after bending, w't per doz. 12 lbs. ..... per dozen $2.25

No. 301—Malleable Rafter Brackets, w't per doz. 3 lbs., per dozen $1.15

Directions for Making Wood Track.

The track may be hardwood or pine scantling, 4x4, dressed to about 3½ in. width. If not convenient to get this size for the full length, 4x2 or 4x5 may be used by nailing a piece on where the stop is placed, so as to fit the carrier and operate the lock properly. The pulley used to pull the carrier back in mow should be directly under and in line with the track. Always put an extra hook over the load near the stop.

All Myers hay carriers are made of malleable iron throughout. They are constructed with flanged wheels revolving on ⅜ in. turned steel bearings. The carriers have a large flaring mouth to receive the fork pulley when approaching from any direction. The swinging fork pulley is a decided advantage in drawing hay into a well filled mow or over a beam.

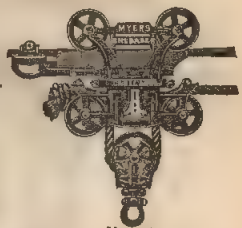
The locking device is composed of three pieces and is so arranged as to grasp the fork on both sides of the frame.

LOOSE

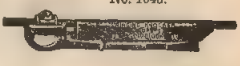
MYER'S CABLE OR ROD

No. 431.
Single Cable Clamp.

No. 432.
Double Cable Clamp.



No. 1043.



The knocker is one of the special features of this machine. It is so arranged that it swings loose on the track, and stands immediately under the cable, under any and all circumstances. It is held to the cable by means of a steel sleeve through which the cable passes. The sleeve is attached to the knocker by means of two bolts, and can be removed at any time without taking down the cable. The knocker is located at any desired point on the cable by means of an ordinary cable clamp.

AN AVERAGE OUTFIT CONSISTS OF ONE CABLE CARRIER, ONE HAY FORK, 150 FT. ½ IN. GALVANIZED CABLE, TWO SINGLE CABLE CLAMPS, TWO DOUBLE CABLE CLAMPS, TWO ⅝x20 IN CARRIAGE BOLTS FOR SECURING POLES TOGETHER, 150 FT. ¾ IN. MANILA ROPE, TWO PULLEYS AND FOUR POLES 4x4 IN. x 30 FT. LONG

No. N165—Hay Carriers, for cable or rod track, malleable iron, aluminum finish, with ⅜ in. turned steel axles, double lock, w't 31 lbs. ..... each $12.75

No. 431—Single cable clamps, 2 pieces, bolted, easily removed, w't per doz. 9 lbs. ..... per dozen $5.40

No. 432—Double cable clamps, 2 pieces, bolted, w't per doz. 15 lbs. ..... per dozen $7.20

LOOSE

CABLE

No. N165C—Cable, ¾ in., 7 strand, galvanized, w't per ft. ¾ lb. ..... per 100 feet $6.00

REGISTERING HEADS

1RH. 3RH. 6RH. 10RH. 14RH. 19RH. 276RH 69RH

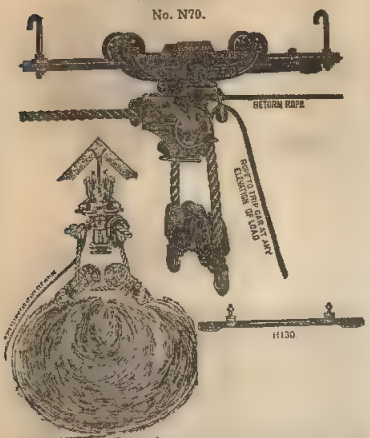
Registering heads, No. 1 for Louden hay carrier, No. 3 for Star hay carrier, No. 6 for Porter hay carrier, No. 10 for Nye and Superior hay carrier, No. 14 for Myer's O. K. hay carrier, No. 19 for Haymaker, Imperial, and Myers' old style single rail hay carriers, No. 276 for Myers' new style hay carriers, double and single steel track, and No. 69 for Porter's Meadow King hay carriers.

All Nos. ..... each $0.75

MYERS' HAY CARRIERS

MYERS' RIGHT ANGLE FORK AND SLING ELEVATORS

No. N70.



In Operation.

Machine so arranged it elevates load at right angles with track, with the result that when load is discharged in mow it lies parallel with load on wagon, a feature not accomplished by sling carriers, unless they use special right angle pulleys which add one-half horse power to the draft.

If operator overloads carrier, rope slips through the lock, causing it to wear. This has been overcome on the right angle fork and sling elevator, as it is so arranged that tension of rope is regulated entirely by weight of load. The result is that it is impossible for rope to slip through lock, hence no chafing of the rope. Lock adjusts itself to any size rope, ¼ to 1 inch.

The right angle fork and sling elevator operates automatically and is tripped by the sling pulley striking a plate immediately under the carrier. It is also arranged with a separate trip rope, by the use of which the load may be carried into the mow at any elevation desired without drawing entirely to the top of the barn.

Many farmers prefer to use two forks, one attached to each pulley.

With Two Sure Grip Pulley Blocks, ¾ in. Turned Steel Bearing, Double or Triple Hoist.

No. N70—Sling Carriers, for double steel track, annealed malleable iron, improved rope lock and locking device, balance lock, w't 52 lbs. .....each $24.00

No. 130H—Knocker for No. N70 Sling Carriers, each $1.50

No. A844—Double Steel Track, with joint clamps, in lengths 6 or 12 ft., w't per ft 2¼ lbs.....per ft. $0.35

No. 302—8 in. Hanging Hooks, with clamp, measured after bending, w't per doz. 8 lbs. .....per dozen $2.50

No. 824—Extra Joint Clamps, w't per doz. 14 lbs., per dozen $3.60

No. N1139—Triple Hoist Pulleys, for No. N70 Carriers, w't 60 lbs. .....per dozen $9.00

LOOSE

MYERS' CROSS DRAFT

The draft rope running direct from the carrier to the floor permits the use of a much shorter draft rope and less walking for the horse than is the case with the other style of sling carriers. The carrier is so constructed that a knocker or stop block is not required. Large rope sheave carrying the rope revolves on large steel axle. Extra heavy and long truck distributes the load over a greater portion of the track. The truck is adjustable in width. Can be used on any make of steel track except the Hunt, Helm & Ferris Co.

No. N60—For use on No. 844 double steel track, entire weight of load bears on locking device, therefore the heavier the load the greater the pressure on the lock, no chance for the rope to slip, main rope sheave fitted with lugs which engage the dogs, stopping the revolving of the wheels and assisting the rope lock, holds load at any elevation whenever team stops, and runs to mow from that point, track wheels 3½ in. in diam., and revolve on ¾ in. turned steel journals, frame or truck extra heavy and long, positive force lock, no springs, w't 34 lbs., each $24.00

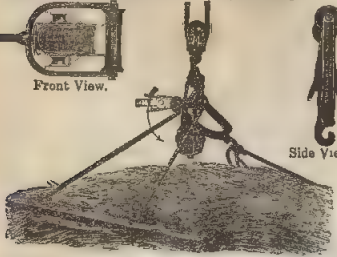
LOOSE

SLING PULLEYS

Showing Pulley with Fork Approaching.

Front View.

Side View.



Showing Pulley after Load Has Been Compressed.

Can be used with any make of hay carrier, except 7 in. Sheave Carrier, without a change of fork pulley or using a registering head. It is so arranged that it cannot be misplaced on the load as it can be used either side up and in connection with any shape or style of fork pulley

With this sling attachment the hay is deposited in the mow in the same relative position as on the wagon, and not crosswise as on many sling carriers

No. N1052—Myers' Universal, malleable iron, reversible, w't 10 lbs. ..... each $5.60

LOOSE

No. 806. Sling Pulley, Locked Together.

No. 806. Sling Pulley, Spread Apart.

No. 806—Myers', malleable iron, self-locking, with registering head for any make carrier, in ordering give number of registering head w't 10 lbs. ..... each $5.60

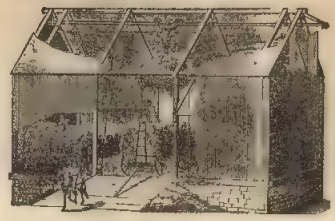
LOOSE

PARALLEL SLING PULLEYS

No. N1799—Malleable frame, with 4½ in. iron sheave, fitted for using ⅞ in. rope or ¾ or 1 in., 6 strand, 19 wire cable hoisting rope, for handling slings for stacking purposes, w't per. doz. 91½ lbs., per pair $4.50

LOOSE

DIRECTIONS FOR REVERSING CARRIER



Set fork in hay. Tie ends of rope together, to which horse and weight are attached. Pull on small rope until knot comes to the floor, then untie ropes. Fasten weight on small rope, change pulley to floor hook. This reverses carrier for opposite direction without leaving the floor or climbing up. Use all knot passing pulleys. For taking in hay at end barn use V-shaped brace for track support, as shown in cut.

MATERIAL REQUIRED FOR A STEEL TRACK OUTFIT FOR DIFFERENT LENGTH BARNS

For a 40-foot Barn—One Hay Unloader, 36 feet Steel Track, 19 Hanging Hooks, 19 Rafter Brackets, 5 Knot Passing Pulleys, 1 Fork, 6 Floor Hooks, 110 feet ¾-in. Manila Rope, 50 feet ⅜-in. Check Rope, 40 feet ⅜-in. Reverse Rope.

For a 50-foot Barn—One Hay Unloader, 48 feet Steel Track, 25 Hanging Hooks, 25 Rafter Brackets, 5 Knot Passing Pulleys, 1 Fork, 6 Floor Hooks, 130 feet ¾ in. Manila Rope, 55 feet ⅜ in. Check Rope, 60 feet ⅜ in. Reverse Rope.

For a 60-foot Barn—One Hay Unloader, 54 feet Steel Track, 28 Hanging Hooks, 28 Rafter Brackets, 5 Knot Passing Pulleys, 1 Fork, 6 Floor Hooks, 160 feet ¾ in. Manila Rope, 60 feet ⅜ in. Check Rope, 60 feet ⅜ in. Reverse Rope.

For a 70-foot Barn—Hay Unloader, 66 feet of Track, 34 Hanging Hooks, 3½ lbs. Bracket Nails, 5 Fig. 1120 Pulleys, 1 Fork, 6 Floor Hooks, 190 feet ¾-in. Draft Rope, 70 feet ⅜-in. Check rope, 70 feet ⅜-in. Reverse Rope.

For an 80-foot Barn—Hay Unloader, 78 feet of Track, 40 Hanging Hooks, 40 Rafter Brackets, 4 lbs. Bracket Nails, 5 Fig. 1120 Pulleys, 1 Fork, 6 Floor Hooks, 210 feet ¾-in. Draft Rope,80 feet ⅜-in. Check Rope, 80 feet ⅜-in. Reverse Rope.

Different lengths of barns will use track, hanging hooks and rope in same ratio as above.

If required to take hay in at end of barn and have rope pass down at far end to horse, same amount of draft rope. If draft rope be returned to same end of barn and then down, this requires about one-fourth more draft rope.

HAY RACK LOOPS, BRACKETS, ETC.

DOUBLE STEEL TRACK

Put Together Before Shipping.

All Double Steel Track is put together as shown in illustration before shipping. The advantage of this plan is that in erecting the only thing necessary is to attach the splice clamps. Instead of old method of breaking joints in center of rail, a long, heavy clamp is used. This plan is recommended, as it adds all the advantages of the single rail, and makes the double rail more desirable for dealers to handle.

How Track Should Be Placed.

Showing how track should be put up and how rope is tied from one rafter to the other close under the track to make stop for carrier at end of barn. Also how rafter brackets are placed, and how pulley should be fastened.

Directions for Erecting Myers' Patent Steel Track.

Scaffold, by placing rope from rafter to rafter, say 6 ft. from ridge pole or peak and about 10 ft. apart. Then place extension ladder across the ropes with board to stand on. Now nail one rafter bracket at each end of barn and draw a line from one end to the other and stretch tight. Then nail all rafter brackets even with this line. You are now ready to put up the track, which can be done either in sections or by clamping the entire length together. Hoist near to rafter brackets by ropes. Then place hanging hook over rafter bracket and finish by putting in bolt.

Material Required—One reversible carrier, track the required length of barn, one hanging-hook and rafter bracket for each rafter, five malleable knot passing pulleys, one fork, two floor hooks, one rope hitch, enough ¾ or ⅞ in. rope to operate the carrier—usually takes from 125 to 160 ft., but depends upon length of barn—¾ in. reverse rope the length of track, trip rope required length.

HAY RACK LOOPS

Showing Loop in Use.

These are designed to bolt on the ends of cross timbers of the hay rack, so that the side stakes of the basket of the rack will fit therein at the end of the timbers as shown in cut. Will hold the 2x4 in. stake securely having its lower end made tapering.

No. N42—[illegible] steel, painted blue, w't per doz. sets 96 lbs. .....per dozen sets $21.50

ONE SET OF EIGHT PIECES IN A BUNDLE, WIRED

HAY RACK BRACKETS

WENZELMANN

Furnished with ⅞ inch rod

A Set Consists of Wrought Steel Clamps, Brackets, Upper Washers, Lower Clips and Nuts.

The Intermediate Bracket adds much to the bearing surface at the cross section, and being studded and flanged, keeps the timbers from twisting or slipping.

The Clamps are placed astride the timbers and have double the strength of bolts.

The Bed Sills and cross pieces absolutely cannot twist out of shape when these fixtures are used, as is the case in the old method of construction with bolts, nails, etc.

The grooved Steel Upper Washer renders it impossible for the clamp to cut into the cross piece. The lower steel clip or washer keeps the bottom cross pieces from splitting.

By using the Wenzelmann Hay Rack Fixture boring of holes in timbers is not necessary. By their use the full strength of timbers is retained, and does away with the holes, which simply collect water and hasten their decay.

Nos.	N0T	N1T	N2T	N3T
Length of clamp, in.	12	14	16	18
W't per doz. sets, lbs.	145	168	180	
Per dozen sets	$27.75	30 00	32.25	34.50

ONE SET IN A BOX

TAKE-DOWN HAY RACK CLAMPS

Steel Bar Passes Through Malleable Iron Loop, Held in Place by Malleable Key.

The special advantage of this clamp over the Wenzelmann is that the hay rack is built in two sections and held together by two wedge shape pins, this enables one man to place rack on the wagon or remove it without assistance.

In addition to this, the lower part composed of sills and lower cross pieces making an ideal body for hauling wood, timber, lumber and such things not conveniently handled with an ordinary wagon box. By the use of a set of stake irons it may be transformed into a hog rack.

This is the most convenient form of hay clamp now on the market and is thoroughly recommended.

No. N06—Hay sills 2x8 in., cross timbers 2x4 or 2x6 in., w't per doz. sets 216 lbs., per dozen sets $45.00

No. N07—Hay sills, 2x10 in, cross timbers 2x8 in., w't per doz. sets 252 lbs. .....per dozen sets $48.00

ONE SET IN A BOX

WHEAT OR COTTON RACK CLAMPS

A set consists of eight clamps complete with upper washers, lower clips and nuts.

Used for building racks to haul sacked grain, baled hay or cotton in bales. When in place the sills and bottom cross pieces are securely clamped together, making a most substantial construction.

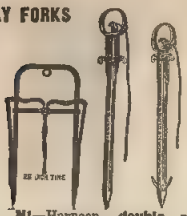
No. N1—Wheat or Cotton, sills 2x8 in., w't per doz. 144 lbs., per dozen sets $24.00

No. N2—Wheat or Cotton, sills 2x10 in., w't per doz. 156 lbs. .....per dozen sets $26.50

ONE SET IN A WOOD BOX

HAYING TOOLS

HAY FORKS

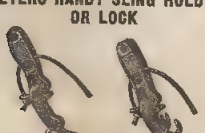


No. N1—Harpoon, **double** point, 25 in. spring steel tines, w't per doz 204 lbs. .....each $3.40
No. N2—Harpoon, **double** point, 31 in spring steel tines, w't per doz. 222 lbs. .....each $3.75
No. N3—**Nellis,** harpoon, single point, spring steel, w't per doz. 144 lbs., each $6.75

MYERS', automatic grapple tines and arms of high carbon spring steel, locks of best annealed malleable iron, spreads 55 in.

This fork is unlike any other, inasmuch as it is not only balanced at all points, but in addition the natural pull on the trip rope closes the fork and locks it securely, thus returning it to the load all ready to enter the hay, without any attention whatever from the operator as to setting of locks, etc.
No. N617—4 tines, **double** grapple, w't 40 lbs. .....each $16.75
No. N619—6 tines, **triple** grapple, w't 47½ lbs. .....each $18.00

MEYERS HANDY SLING HOLDER OR LOCK



OPEN CLOSED

Made for 2 or 3 rope slings, attached direct to the hook on Self Locking Sling Pulley No. 806, or to the hook on Parallel Sling Pulley No. 1799. Pulling on Trip Rope drops one end of sling, releasing the load.
No. N1699—W't each 2 lbs., each $1.50
LOOSE

SLINGS

CENTER SLING ADJUSTABLE

No. N1231—5 ft. seasoned ash cross bars, malleable iron center trip spring locks, 3 ropes, adjustable from 17 to 20 ft., w't 24 lbs., each $8.25

No. N621—Utah Pattern, 6 ft. seasoned ash cross bars, Myers' center trip spring lock, ½ in. ropes, extra end and center ropes, adjustable from 17 to 20 ft., w't 26½ lbs., each $9.75

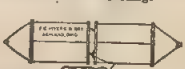
DOUBLE LOCK

This sling is connected and locked with one motion.

No. N1308—Length 6 ft., with hook and eye at one end of the sling stick and a lock at the other end making two separate connections, w't 29 lbs., each $11.25

ADJUSTABLE CHAIN

Two Connections Between the Two Halves of the Sling.



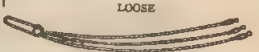
No. N1589—Myers' Pattern, 5 ft. long, galvanized No. 00 brown chain, w't 28 lbs. .....each $10.50

No. N1590—Myers' Pattern, 6 ft. long, galvanized No. 00 brown chain, w't 40 lbs. .....each $12.75

MEYERS HANDY ADJUSTABLE ROPE SLINGS

Made of best quality ½ in. rope. Has adjustable takeup, by means of which the sling can be lengthened or shortened to suit the user. The adjustable takeup has center loop or ring to which a third rope can be attached, making a three rope sling.

No. N1695—Two Rope, w't each 2 lbs. .....each $3.00
LOOSE



Made of best quality ½ in. rope. Has adjustable takeup, by means of which the sling can be lengthened or shortened to suit the user. The adjustable takeup has center loop or ring to which a third rope is attached.

No. N1697—Three Rope, w't each 3½ lbs. .....each $4.20
LOOSE

SNATCH BLOCKS AND SINGLETREES

This device shortens the distance the horse travels without reducing the elevating power.

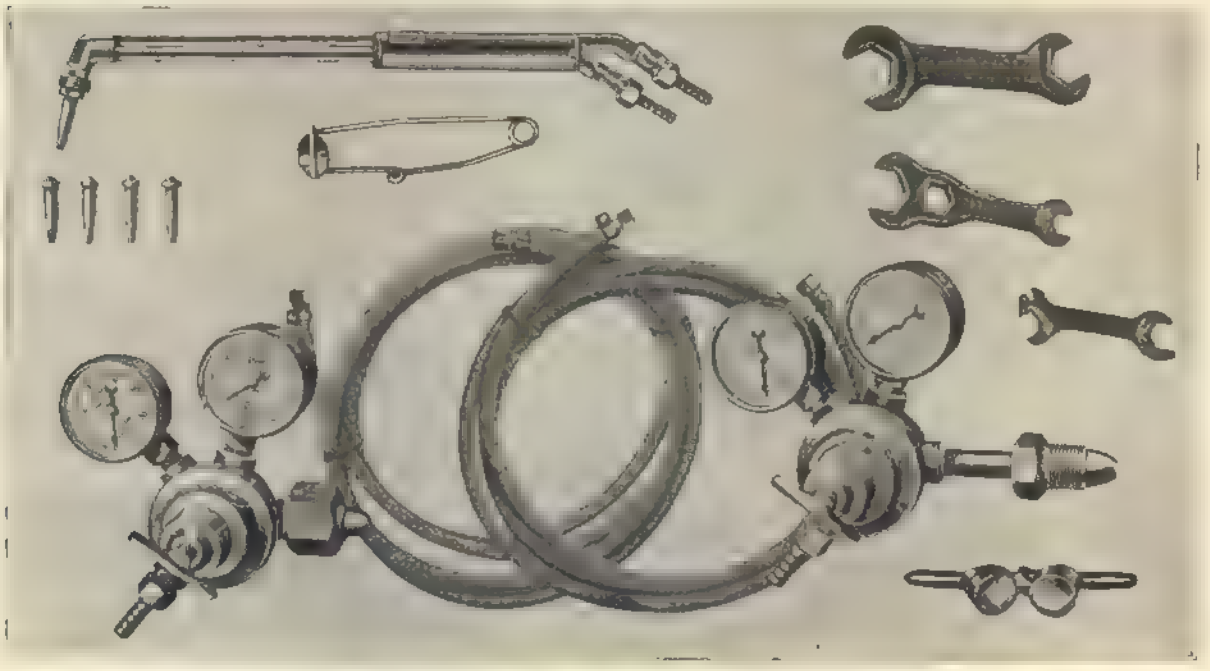
No. 628—Myers' Snatch Blocks, malleable iron, w't per doz. 48 lbs., per dozen $20.60

No. N472—Myers' Hoisting Singletrees, wood, with malleable iron attachment, w't 6½ lbs., per dozen $36.00

Rego Welding Apparatus
No. 6—$65

To Use With Tank Acetylene or Medium Pressure Generator

Particularly suitable for the welding and straightening in Automobile Repair Shops



ABOVE OUTFIT CONSISTS OF

1—Model S welding torch 17 in. over all, with 5 copper tips.

1—No. 1086 2 in. oxygen regulator with grilled safety bonnet, equipped with U. S. 3000 lb. and 30 lb. gauges.

1 No. 1063 2 in. acetylene regulator, equipped with U. S. 500 lb. and 30 lb. gauges. Prestolite lighting tank connection unless otherwise ordered. (If generator is to be used, so specify.)

2—12½ ft. lengths best quality corrugated, moulded hose.

1—Pair of fibre goggles.

1—Pyro Lighter.

Wrenches, hose connections, pressure chart, etc., complete, packed in a stout carrying case.

No. 6—Price, $65

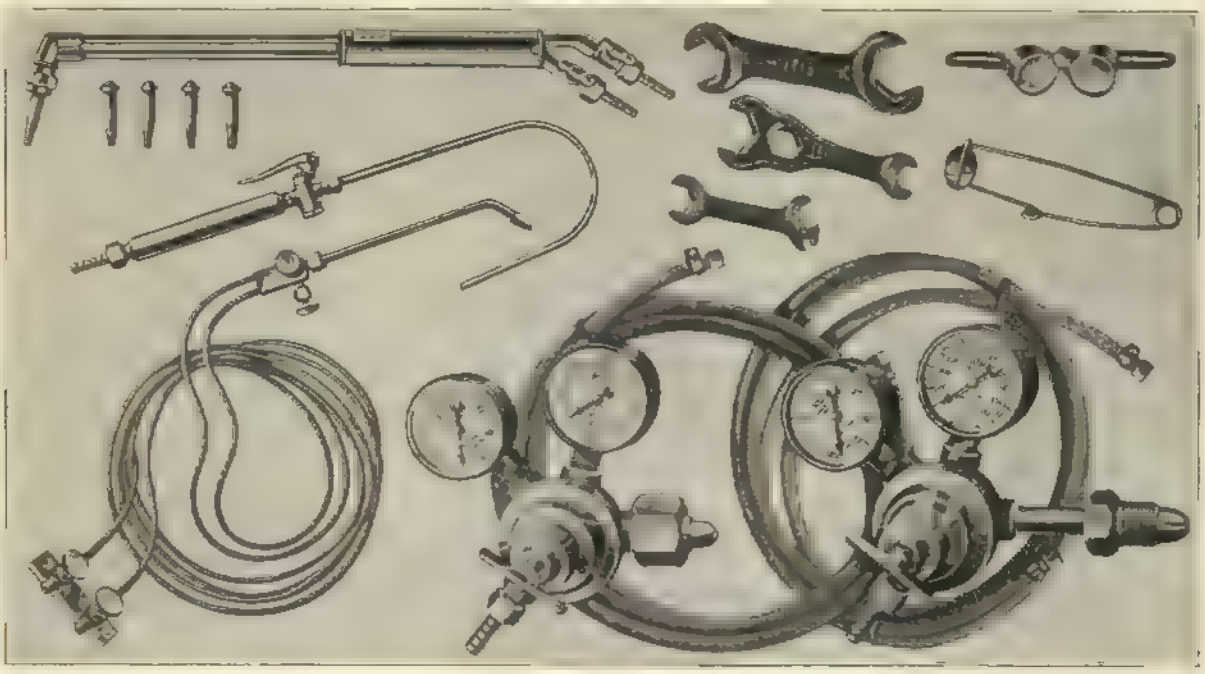
NOTE—Model C cutting torch may be used with this outfit for steel up to 2 in. Add $60.00 if cutter is desired. Model M welding torch for heavier work may be substituted in place of Model S for $5.00 additional.

Write for Special Catalog on Welding and Cutting Apparatus

Rego Auto Welding and Battery Service Outfit
No. 7—$75

To Use With Oxygen and Acetylene

Planned Especially for Automobile Repair Shops and Garages. Contains All the Equipment Necessary for the Usual Run of Automobile Welding, Lead Burning on Batteries, Carbon Removing and Radiator Repairs



ABOVE OUTFIT CONSISTS OF

1—Model S welding torch 17 in. over all, with 5 copper tips.

1—No. 1086 2 in. oxygen regulator with grilled safety bonnet, equipped with U. S. 3000 lb. and 30 lb. gauges.

1—No. 1063 2 in. acetylene regulator, equipped with U. S. 500 lb. and 30 lb. gauges. Prestolite lighting tank connection, unless otherwise specified.

2—12½ ft. lengths best quality corrugated, moulded hose.

1—Pair of fibre goggles.

1—Pyro Lighter.

1—Model D S decarbonizing torch.

1—Model B torch with 3 tips.

2—6 ft. lengths rubber tubing.

1—Bench block.

Wrenches, hose connections, pressure chart, etc., complete, packed in a stout carrying case.

No. 7—Price, $75

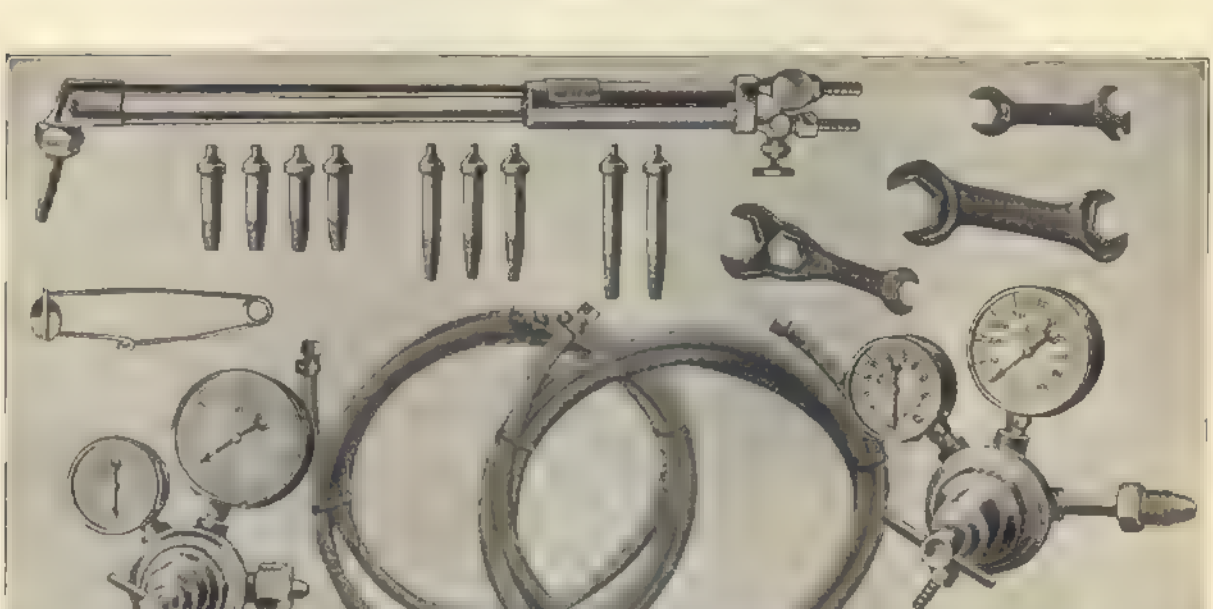
NOTE—Model C cutting torch may be used with this outfit for steel up to 2 in. Add $60.00 if cutter is desired. Model M welding torch for heavier work may be substituted in place of Model S for $5.00 additional.

Write for Special Catalog on Welding and Cutting Apparatus

Rego Welding Apparatus

No. 5—$105

To Use With Tank Acetylene or Medium Pressure Generator
For All Classes of Work



ABOVE OUTFIT CONSISTS OF

1—Model L welding torch 22 in. over all, with 10 tips, Nos. 1-5 nickel-copper, and Nos. 6-10 drawn copper; brass handle, straight or angle hose connections; 90, 75 or 35 degree angle head, optional; unless otherwise instructed, 75 degree, as shown, will be furnished.

1—No. 1105 2⅝ in. oxygen regulator with grilled safety bonnet, equipped with U. S. Solfrunt high pressure gauge, calibrated to 3000 lb., and U. S. 50 lb. low pressure gauge.

1—No. 1115 2⅝ in. acetylene regulator, equipped with U. S. 500 lb. tank pressure gauge and 50 lb. low pressure gauge; connection to fit Prestolite welding cylinders, unless otherwise specified. (If generator is to be used, so specify.)

2—12½ ft. lengths best quality corrugated, moulded hose.

1—Pair of fibre goggles, dark lens, entirely protecting eyes.

1—Pyro Lighter.

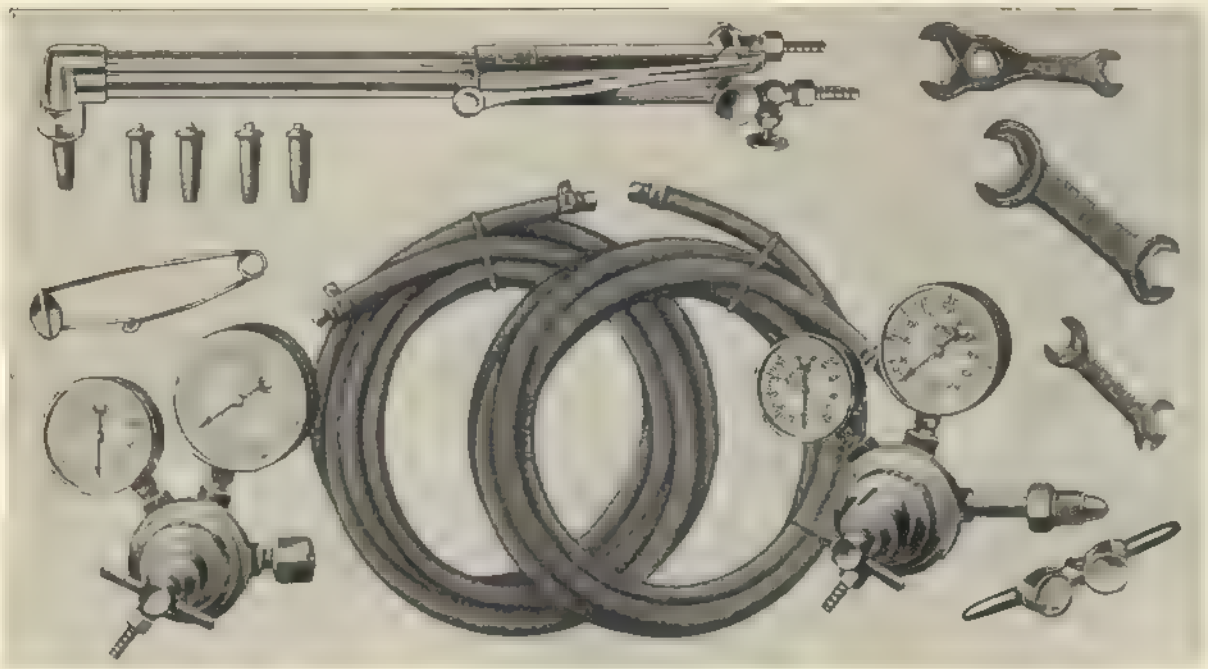
Wrenches, hose connections, pressure chart, etc., complete, packed in a stout carrying case.

No. 5—Price, $105

NOTE—Model C cutting torch may be used with this apparatus for steel up to 3 in. Add $60.00 if cutter is desired. We also furnish Tip CL at $3.00, for cutting steel up to 1 in.

Write for Special Catalog on Welding and Cutting Apparatus

Rego Cutting Apparatus



ABOVE OUTFIT CONSISTS OF

1—Model C cutting torch, with 5 nickel-copper one piece tips, cone seat, range up to 12 in.

1—No. 1109 2⅝ in. oxygen regulator with grilled safety bonnet, equipped with U. S. Solfrunt high pressure gauge, calibrated to 3000 lb., and 300 lb. U. S. low pressure gauge.

1—No. 1115 2⅝ in. acetylene regulator with grilled safety bonnet, equipped with U. S. 500 lb. tank pressure gauge and U. S. 50 lb. low pressure gauge, any tank connection desired. If not specified, will furnish thread fitting Prestolite welding cylinders.

2—25 ft. lengths of best quality 5 ply wrapped high pressure hose (steel woven hose optional).

1—Pair of fibre goggles, entirely protecting eyes.

1—Pyro Lighter.

Wrenches, hose connections, pressure chart, etc., complete, packed in a stout carrying case.

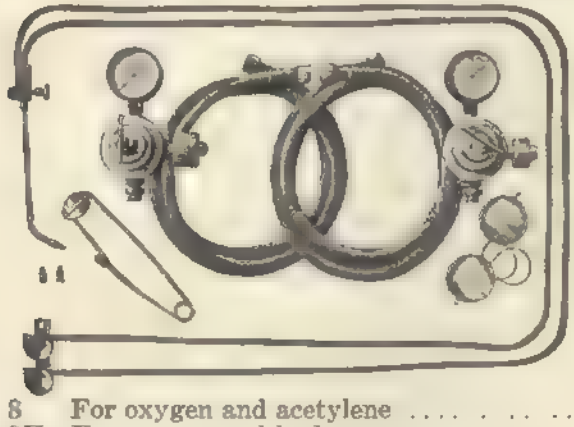
No. 1—For Oxygen and Acetylene—Price, $125

No. 3—For Oxygen and Hydrogen—Price, $130

Write for Special Catalog on Welding and Cutting Apparatus

Rego Lead Burning and Light Welding Apparatus

To Use with Oxygen and Acetylene, Hydrogen or Any Compressed Gas for Lead Burning, Sheet Metal Manufacturing to 16 Gauge, Plumbing and Tinsmithing, Jewelry Manufacturing and Repair, Etc.



CONSISTS OF

1—Model B torch with 3 tips.
1—2 in. oxygen regulator with 30 lb. gauge.
1—2 in. acetylene regulator with 30 lb. gauge; lighting tank connection.
2—6 ft. lengths welding hose.
2—6 ft. lengths rubber tubing.
1—Bench block.
1—Pyro Lighter.
1—Pair spectacles.

No. 8	For oxygen and acetylene	$35.00
No. 8H	For oxygen and hydrogen	35.00
No. 8A	Torch, tubing and bench block only	10.00
No. 10	For oxygen and city gas or natural gas	30.00

Decarbonizing Outfit No. 9—$16

THIS OUTFIT CONSISTS OF

1—Model DS decarbonizing torch with 15 in. length copper tubing, attached to spring valve by ground joint. (Not soldered.)
1—10 ft. length hose. 1 2 in. oxygen regulator. 1—30 lb. gauge.

No. 9	Decarbonizing Outfit complete	$16.00
Torch only (DS)		3.00

K-O STEEL TRUCKS—$18.50

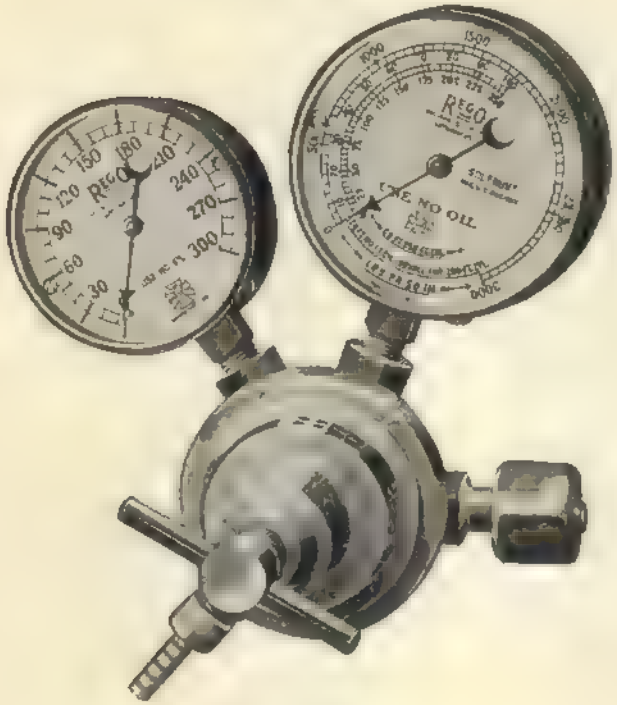
For gas tanks, complete with racks for apparatus, welding rods, etc. $18.50

These hand trucks are of strong construction, have large wheels and are very handy for moving gas cylinders and apparatus around, preventing the cylinders being knocked over and regulators and gauges becoming broken. A profitable investment.

Write for Special Catalog on Welding and Cutting Apparatus

Rego Regulators

Have Led the Field for Ten Years



OXYGEN

No. 1105	General Welding	$30.00
No. 1086	Light Welding	18.00
No. 1088	Light (1 gauge) Welding and Decarbonizing	11.00
No. 1109	General Cutting	30.00

ACETYLENE

No. 1115	General Welding and Cutting	$24.00
No. 1063	Light Welding and Cutting	16.00
No. 1065	Light (1 gauge) Welding and Cutting	11.00

HYDROGEN

No. 1150	General Cutting and Welding	$30.00
No. 1054	Light Cutting and Welding	18.00
No. 1088H	Light (1 gauge) Cutting and Welding	11.00

K-O Welding Rods

Prices on application

CAST IRON, 24 in. long
Size, 5/32, 1/4, 5/16, 3/8, 1/2 in. diameter

NORWAY IRON, 36 in. long, 99.84 pure
Size, 1/16, 5/32, 1/4, 5/16, 3/8, 1/2 in. diameter

NICKEL STEEL, 36 in. long
Size, 1/4 in. diameter

VANADIUM STEEL, 36 in. long
Size, 1/4 in. diameter

TOBIN BRONZE, 36 in. long
Size, 1/16, 5/32, 1/4 in. diameter

DRAWN AND CAST ALUMINUM
Size, 1/4, 5/16 in. diameter

SPECIAL BRAZING WIRE, in coils
Size, 5/32, 1/16 in. diameter

ALUMINUM SOLDER

K-O WELDING FLUX

K-O Cast Iron, in 1/2 lb. cans	$0.30
K-O Brass and Bronze, in 1/2 lb. cans	.50
K-O Aluminum Flux, 1/4 lb. cans	.75

WELDING AND CUTTING RUBBER HOSE

In 12½, 25 and 50 ft. lengths; 1/4 or 5/16 in. diameter

Oxygen Hose (red) per foot,	$0.22
Acetylene Hose (black) per foot,	.22

K-O WELDING PINCERS

Every welder uses them. They permit the use of short ends of welding rods and keep the hands in safe distance from the heat

Price $1.00

K-O WELDERS' GLOVES

No. 530 K-O Asbestos, 11 in. Gloves, with chrome leather palm and fireproofed duck gauntlet ..... per pair, $3.00

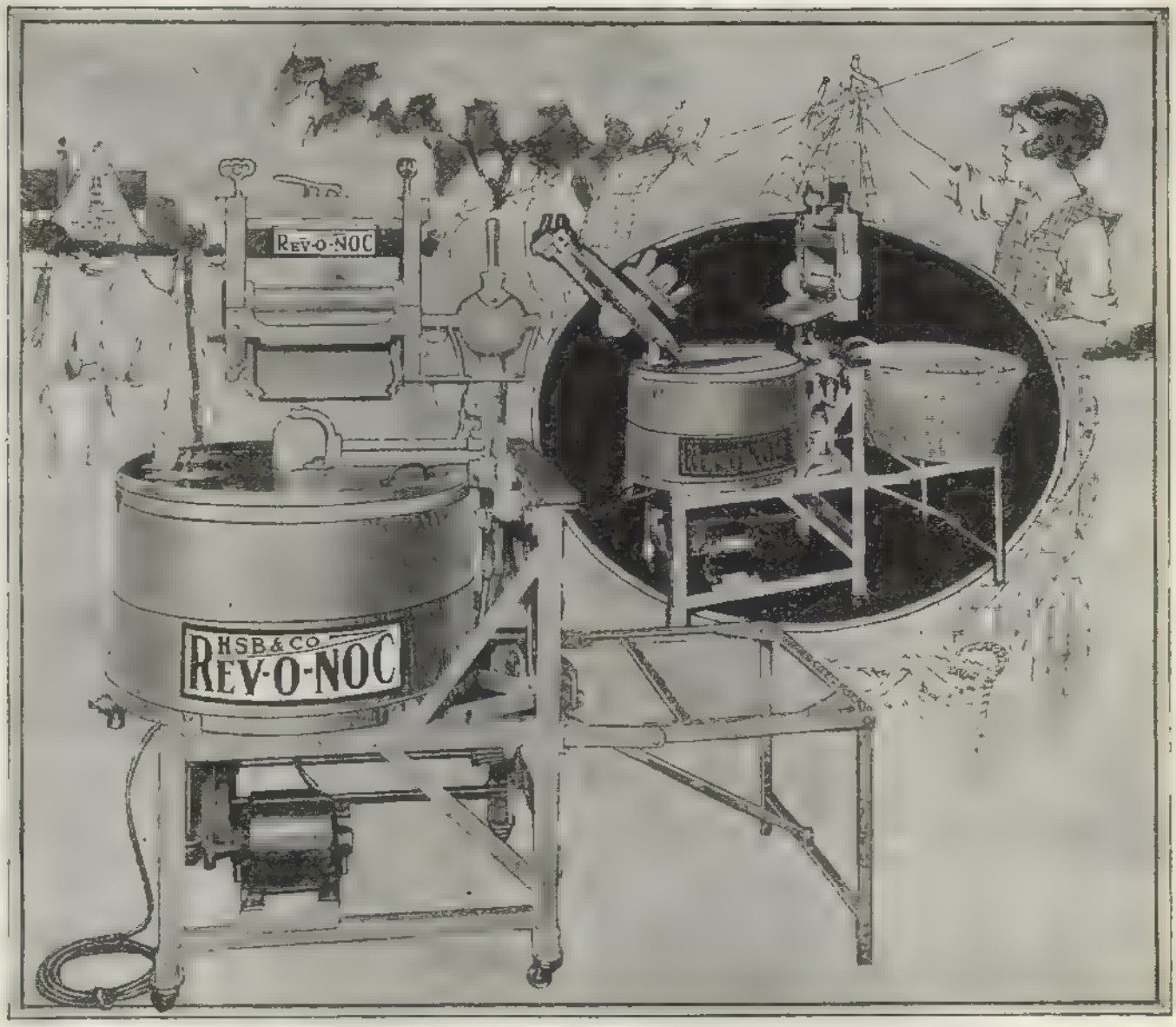
K-O WELDING GOGGLES

Fibre weld, with cover glasses	$2.50
Extra lenses each,	.75
Welding goggles, with leather frame	1.50

K-O SPARK LIGHTERS, 20c

Tip renewals $0.10

Write for Special Catalog on Welding and Cutting Apparatus



REV-O-NOC ELECTRIC AND POWER WASHERS

This is the same machine as the REV-O-NOC which we have handled so successfully for many years except that we have embodied in it the very latest improvements known to the manufacturers of power washing machines.

IMPORTANT FEATURES

Heavy angle iron platform with folding tub stand.

Large cedar, well seasoned and kiln-dried or copper tub with brass drain faucet.

The two bottom hoops are made of heavy wire. This is an improvement over the broad steel hoops which collect moisture and rust.

Motor and gearing placed underneath the tub on the platform, out of the way but still accessible.

Driving gears are all machine cut and have double bearings, insuring smooth and noiseless running.

Wringer swings all around the circle and locks at the four cardinal points.

Improved handy lever for controlling the wringer.

Driving gears are always in mesh (no clutch to be thrown in and out of mesh while running).

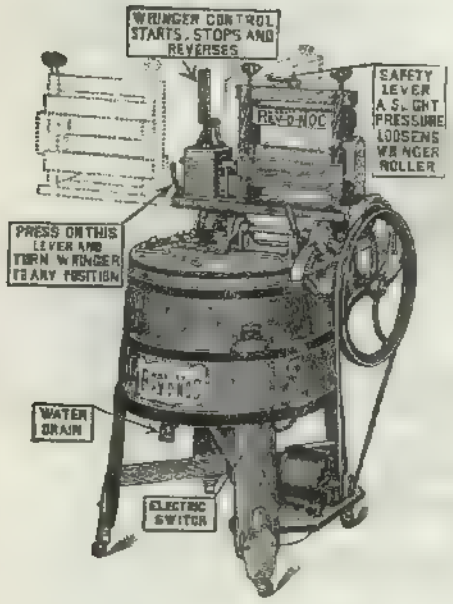
The Dolly is placed downward from the cover of the tub. This leaves the entire space in the bottom of the tub free from any shafts and stuffing boxes.

Latest improved safety features applied to washer wringer and motor.

Motor ½ horse power, 60 cycle, 110 volt, alternating current.

No. W180—Cedar tub, fitted with electric motor, w't 250 lbs. ..... each $128.00
No. W182—Copper tub, fitted with electric motor, w't 250 lbs. ..... each 142.00
No. W190—Cedar tub, fitted with pulley for gasoline power, w't 250 lbs. ..... each 88.00

REVONOC ELECTRIC WASHERS



The cheapest, most economical and most sanitary way to solve the problem of "Clean Clothes" is to have the family washing done in the home and by machine. This applies to families living either in city or farm homes. The scarcity of good household servants and the high wages that they are demanding is great, and the housewife's task of keeping the family clothes clean is her most difficult one.

THESE REVONOC WASHING MACHINES WILL SOLVE THIS PROBLEM

The REVONOC electric washing machine with swinging reversible wringer is efficient, practical, economical and durable, has machine-cut gears and babbitted bearings; strong electrical motor; Lowell wringer, made from best live rubber. Will retain the heat in the water, without which the fibres of the clothes will not swell exposing the dirt so it can be washed out. Gives great agitation to the clothes in the suds (85-90 turns of the dolly per minute). Dollyshaft covered by galvanized cap; geared so as to retain a uniform momentum from the flywheel, thereby relieving the motor of great strain and consequently saving current; has cut-off switch on the machine itself.

THE REVONOC ELECTRIC WASHER will wash clothes spotlessly clean in from eight to ten minutes. It will also do the wringing from the machine to the rinsing tub, from the rinsing tub to the bluing tub, and from the bluing tub to the clothes basket, while the machine is washing. Capacity of six sheets or equivalent.

Has an absolutely positive wringer shift that never misses and acts quickly; can be operated by hand utilizing the momentum from the flywheel as driving force; has ball bearing casters making it easy to move it into a corner after each washing. The simplest and easiest machine to understand, only one lever to attend to. Its first cost is less than that of other electric machines and it uses less current.

Height 28 in., Width at Top 19½ in., Width at Bottom 22 in., Depth of Tub 12½ in., Kiln Dried Cypress Tub, Grained, Corrugated Interior, Double Top, Hinged Cover, Cross Braced Legs. THE MOTOR is 1-5 H. P., 110 Volt, Either for Alternating or Direct Current., W't Crated, 200 Lbs.

In ordering state whether machine is wanted for direct or alternating current. If direct, give the voltage, if alternating, give both voltage and cycle.

No F18 REVONOC—For alternating current★ ..... each $114.80
No. F19 REVONOC—For direct current★ ..... each 114.80

★ **Items Marked Thus ★ Are Shipped From Factory Only.**

MAIL ORDER DEPARTMENT

Our constant attention in sixty-seven years of business has been given to the perfection of the system of handling mail orders. Our object has always been to handle them with the greatest possible speed, with the result that we are enabled, in most cases, to ship mail orders the same day they are received.

HSB&CO REV-O-NOC Hand Washers

Red Louisiana tub, grained, corrugated interior, double top, hinged cover, strong wringer attachment, double handle socket, cross braced legs, absolutely rigid.

Furnished with grooved fly wheel. Enables one change it to a power machine. Wheel makes seven revolutions to one downward thrust of the lever. The compound gearing together with the rapid motion of the fly wheel insures a uniform and non-jerking operation of the machine. The top is made double which eliminates warping.

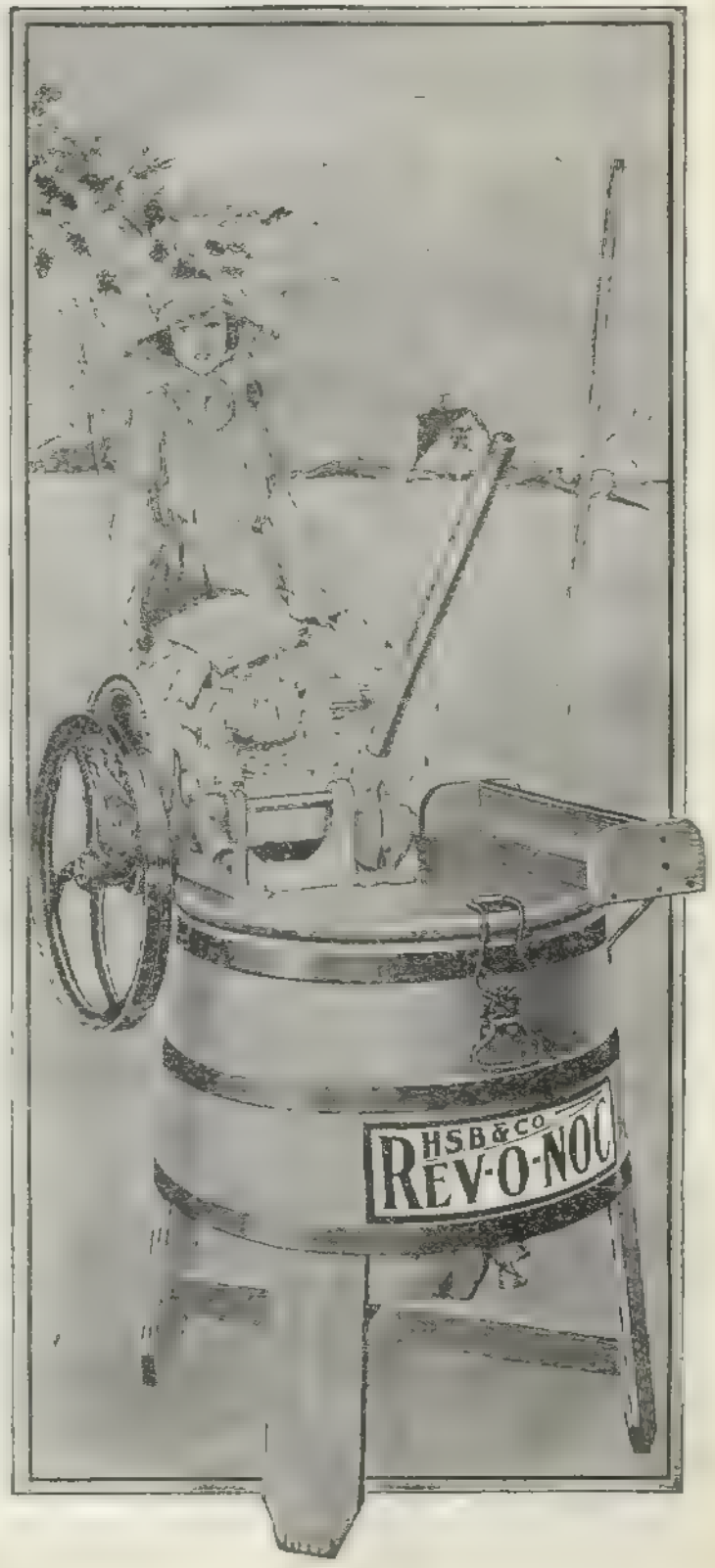
All gears are machine cut and covered.

The gearings are placed in such a position that the fly wheel remains stationary when the cover is opened or closed. It is not lifted with the cover, and for this reason it presents an ideal chance to connect the machine to gasoline or other power.

Brass drain faucet instead of wooden plug.

Height 30 in., width at top of tub 23 in., width at bottom of tub 25 in., diameter of fly wheel 17½ in.

No. W100—W't each 90 lbs., each $26.50



ONE IN A CRATE

REVONOC HAND WASHERS

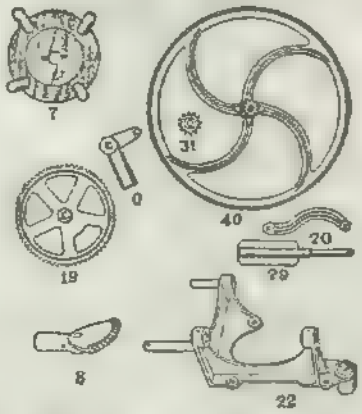
Easy Access to Tub.

Red Louisiana tub, grained, corrugated interior, double top, hinged cover, strong wringer attachment, double handle socket, cross braced legs, absolutely rigid.

The REVONOC lever arrangement is such, that the machine, when full, may be operated by a child, and the motion is such, as not to grow tiresome when continued. The fly wheel makes seven revolutions to one downward thrust of the lever. The compound gearing together with the rapid motion of the fly wheel insures a uniform and non-jerking operation of the machine. The top is made double which eliminates warping, and the metal parts are simple and strongly made.

No. W10 REVONOC—Height 30 in., width 23 in., diam. of fly wheel 19 in., w't per doz. 1080 lbs. .....each $22.00

REVONOC WASHER PARTS



For Nos. W10, F18, F19, F26

No. 7—Pinwheel, w't 2 lbs., each $1.00

No. 8—Gear segment, for new style, w't 2¼ lbs. .....each $1.00

No. 0—Handle socket, for new style, w't 2 lbs. .....each $1.00

No. 22—Main frame, for new style, w't 7½ lbs. .....each $3.00

No. 19—Gear wheel, 65 cogs, w't 3½ lbs each $1.60

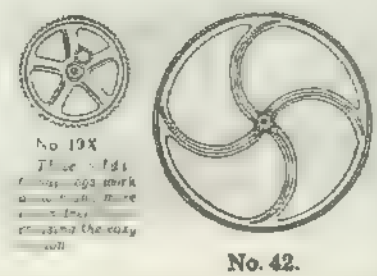
No. 20—Pitman, w't 14 oz., each $0 60

No. 29—Dasher center, w't 1⅝ lbs., each $1.00

No. 31—Pinion, w't 7 oz., each $0.30

No. 05—Extra wood handles, each $0.20

IMPROVED REVONOC PARTS



No. 42.

No. 19X—Gear wheel, 94 cogs, w't 3½ lbs. .....each $1.60

No. 42—Fly wheel, 15 cogs on pinion, w't 13½ lbs. .....each $5 00

Our OVB and REVONOC Tools are made by skilled workmen from Best Materials, with an Accurate Knowledge of the Requirements of each article.

That every Article bearing these brands shall be the Best of its kind on the Market has been our constant Aim.

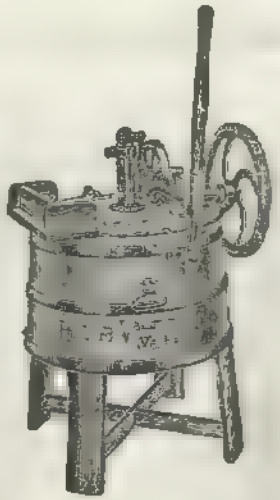
How well we have Succeeded is Shown by the Greater Number of Merchants who have Adopted these Brands as Their Standard and by the Increased Sales of Each.

Will you make these Slogans your Slogans?

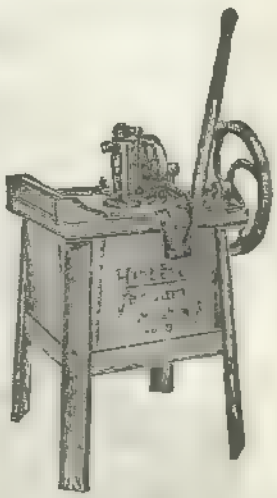
"Our Very Best is The Very Best."

"We Always Stand Behind the Brand."

HIBBARD BALL BEARING VACUUM WASHERS



No. W6.



No. W8.

Cold Rolled Steel Shafting, Best Quality Malleable and Gray Castings, and Brass Ferrules, Wood Parts of Selected Material, Natural Finish with Three Coats of Varnish, Metal Parts Finished in Bright Red Enamel Ornamented with Gold Bronze, Spiral Cut Gears, Extra Long Bearings on Counter Shaft.

The Hibbard is so designed that a small amount of effort will secure the maximum result in a very short time.

In use, hot suds are put in up to the marked water line together with the same quantity of clothes which are handled in the ordinary washer. The lid is closed, the lever set in motion and when the plunger head comes above the water line, its chambers are filled with air which is forced out through the fibers of the clothes on the downward stroke. On the upward movement a vacuum is formed in the plunger which sucks the suds back through the garments with a force which brings out all the dirt at a remarkable speed. This vacuum system is rapidly gaining recognition as the most efficient method of cleaning.

No. W6—Hibbard, Louisiana cypress tub, stave legs with cross braces double lids, reinforced wringer bottoms, inside of bottom and sides corrugated, height 36 in., width at top 22 in., at bottom 24 in., depth of tub 12½ in., w't each crated 90 lbs., each $27.00

ONE IN A CRATE

No. W8—Hibbard, 26 gauge galvanized metal tub, double lids, hinged cover, legs braced with steel truss rods, height 36 in., width at top 22 in., at bottom 24 in., depth of tub 12½ in., w't each crated 90 lbs., each $27.00

ONE IN A CRATE

POWER AND ELECTRIC WASHERS

No. W31.

No. W32.

The Horton washer with the new three way wringer is made on the Horton "Built on Honor" policy. Better made and has more special features than many machines selling at a higher price.

All driving gears are machine cut instead of cast reducing friction to a minimum and making it noiseless in operation. All exposed gears are covered to prevent accident.

Equipped with special two roll reversible ball bearing wringer rolls, 1¾×10 in., guaranteed 5 years, has a patent device to prevent injury. A simple movement of the hand swings wringer from one position to another to enable wringing between tubs and baskets.

Tub is made of highest grade Louisiana red cypress full corrugated on inside by a special process to avoid splinters.

Natural finish, mechanism gold bronze, fly wheel and hoops green enameled.

Hardwood dolly with four extra large pegs and guarded post, clothes cannot tear.

Brass drain faucet threaded and on bottom of tub.

HORTON ELECTRIC

No. W32—Height 31½ in., width at top 20¾ in., width at bottom 23 in., depth of tub 13¾ in., heavy ball bearing casters, specially designed Ft. Wayne motor has ample power to operate washer and wringer at the same time, best grade Tannate belt w't 200 lbs. ..... each **$120.00**

ONE IN A CRATE

Can also be operated by hand in case of temporary trouble with electricity.

HORTON FOR POWER

No. W31—Height 29½ in., width at top, 20¾ in., width at bottom 23 in., depth of tub 13¾ in., no tight or loose pulleys required as the pulley wheel stays in position when lid is opened, can be operated by hand, by interchanging pulley wheel with fly wheel, shipping w't 175 lbs. ..... each **$70.00**

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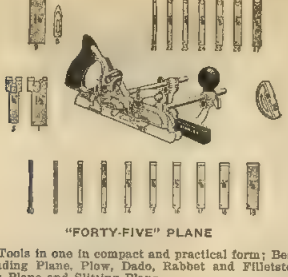
FANCY IRON PLANES



"FORTY-FIVE" PLANE

Seven Tools in one in compact and practical form; Beading and Center Beading Plane, Plow, Dado, Rabbet and Filletster, Match Plane, Sash Plane and Slitting Plane.

The Plane has two principal parts, a Main Stock and a Sliding Section. The Main Stock carries the Handle, Cutter Adjustment, a Slitting Tool, Depth Gauge, and forms a bearing for one edge of the Cutter. The Sliding Section slides on two Arms secured in the Stock and has a bearing for the other edge, allowing Cutters of different widths to be used. A Fence also slides on these Arms for use when working as a Plow, Beader or Filletster, to gauge the distance from the Cutter to the edge of the board, and to keep the Cutter at right angles to same. When used as a Filletster, the Fence slides under the Bottom of the Plane and determines the width of Cutter exposed to the work.

The Plane is fitted with spurs for use across the grain, etc., and can be used either right or left hand.

With each Plane are furnished 21 Cutters, all of which are shown in cut. Plane and Attachments packed in a neat Steel Box.

All Metal Parts are Nickel Plated. The Handle, Knob and Fence are made of Selected Rosewood.

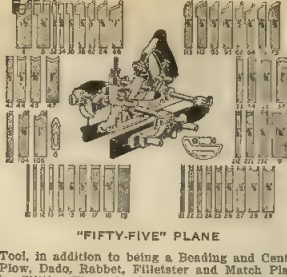
STANLEY

Each

No. 89-45—Nickel Plated; Complete with 21 Cutters.....$20.80
Weight 9½ Lbs. Each

The Following Cutters Are Furnished With Each Plane; the Price Is Given In Case Duplicates Should Be Required

Nos.	Size	Style	Each
1—	1½ in.	Sash Tool	.$1.60
5—	¼ in.	Match Tool	1.00
8—		Slitting Tool	.60
9—1	¼ in.	Filletster	.60
10—	⅛ in	Plow & Dado Tool	.30
11—	⅛ in.	Plow & Dado Tool	.30
12—	¼ in.	Plow & Dado Tool	.30
13—	⅜ in.	Plow & Dado Tool	.30
14—	⅜ in.	Plow & Dado Tool	.40
15—	½ in.	Plow & Dado Tool	.40
16—	½ in.	Plow & Dado Tool.	.40
17—	⅝ in.	Plow & Dado Tool.	$.40
18—	⅝ in.	Plow & Dado Tool	.40
19—	⅝ in.	Plow & Dado Tool.	.50
21—	⅛ in	Beading Tool	.30
22—	⅛ in	Beading Too.	.30
23—	¼ in.	Beading Tool	.30
24—	¼ in.	Beading Tool	.40
25—	⅜ in.	Beading Tool	.40
26—	½ in.	Beading Tool	.50
27—	½ in.	Beading Tool	.50



"FIFTY-FIVE" PLANE

This Tool, in addition to being a Beading and Center Beading Plane, a Plow, Dado, Rabbet, Filletster and Match Plane, a Sash Plane and a Slitting Plane, is also a superior Moulding Plane, and will accommodate Cutters of almost any shape and size; In fact, it is **"a planing mill within itself."**

The regular equipment sent with the Plane comprises 52 Cutters, all of which are shown in the cut. These Cutters, Plane and all its Attachments, are packed in a neat Steel Box.

All Metal Parts of the Plane are Nickel Plated. The Handle and Fences are made of Selected Rosewood, and every part is well finished.

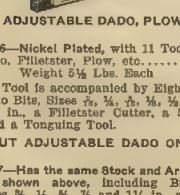
STANLEY

Each

No. 89-55—Nickel Plated; Complete with 52 Cutters.....$41.00
Weight 15¼ Lbs. Each

The Following Cutters Are Furnished With Each Plane; the Price Is Given in Case Duplicates Should Be Required

Nos.	Size	Style	Each
1—1	¼ in.	Sash Tool	.$1.60
5—	¼ in.	Match Tool	1.60
8—		Slitting Tool	.60
9—1	¼ in.	Filletster	.60
10—	⅛ in.	Plow & Dado Tool.	.30
11—	⅛ in.	Plow & Dado Tool.	.30
12—	¼ in.	Plow & Dado Tool.	.30
13—	⅜ in.	Plow & Dado Tool.	.30
14—	⅜ in.	Plow & Dado Tool.	.40
15—	½ in.	Plow & Dado Tool.	.40
16—	½ in.	Plow & Dado Tool.	.40
17—	⅝ in.	Plow & Dado Tool.	.40
18—	⅝ in.	Plow & Dado Tool.	.40
19—	⅝ in.	Plow & Dado Tool.	.50
21—	⅛ in	Beading Tool	.30
22—	⅛ in	Beading Tool	.30
23—	¼ in	Beading Tool	.30
24—	¼ in	Beading Tool	.40
25—	⅜ in	Beading Tool	.40
26—	½ in	Beading Tool	.50
27—	½ in	Beading Tool	.50
28—	⅝ in	Beading Tool	.50
29	¾ in	Beading Tool	.60
32—	¼ in	Thumb Tool	.60
34—	⅜ in	Fluting Tool	.60
36	½ in	Fluting Tool	.60
38—	⅝ in	Fluting Tool	.60
43—	⅛ in.	Hollow	.$0.40
44—	⅛ in.	Hollow	.40
45—	¼ in.	Hollow	.40
47—1	in.	Hollow	.40
53—	⅛ in.	Round	.40
54—	⅛ in.	Round	.40
55—	¼ in.	Round	.40
57—1	in.	Round	.40
62—	⅛ in.	Quarter Hollow	.$0.60
64—	¼ in.	Quarter Hollow	1.00
73—	⅛ in.	Quarter Round	.$0.60
75—	¼ in.	Quarter Round	1.00
82—	⅛ in.	Reverse Ogee	.$0.60
84—	¼ in.	Reverse Ogee	1.00
88—1	in.	Reverse Ogee	1.00
93—	⅛ in.	Roman Ogee	.$0.60
96—	¼ in.	Roman Ogee	1.00
102—	⅛ in.	Grecian Ogee	.$0.60
105—	¼ in	Grecian Ogee	1.00
109—1	in.	Grecian Ogee	1.00
113	⅛ in	½ Round with Bead	.$0.60
115—	⅛ in	¼ Round with Bead	1.00
212—	⅛ in	Reeding Tool, Two Beads	.40
222 -	⅛ in.	Reeding Tool, Two Beads	.40
232 -	¼ in	Reeding Tool, Two Beads	.40



TRAUT ADJUSTABLE DADO, PLOW, ETC.

Each

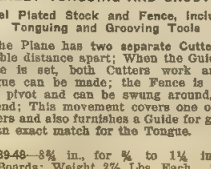
No. 89-46—Nickel Plated, with 11 Tools, Dado, Filletster, Plow, etc.....$14.70
Weight 5½ Lbs. Each

This Tool is accompanied by Eight Plow and Dado Bits, Sizes ⅛, ¼, ⅜, ½, ⅝, ¾ and 1¼ in., a Filletster Cutter, a Slitting Tool and a Tonguing Tool.

TRAUT ADJUSTABLE DADO ONLY

Each

No. 89-47—Has the same Stock and Arms as shown above, including Bits, Sizes ⅜, ½, ⅝, ¾ and 1¼ in., and Slitting Tool.....$11.60
Weight 4 Lbs. Each



STANLEY TONGUING AND GROOVING

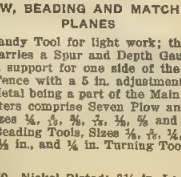
Nickel Plated Stock and Fence, including Tonguing and Grooving Tools

The Plane has two separate Cutters, a suitable distance apart; When the Guide or Fence is set, both Cutters work and a Tongue can be made; the Fence is hung on a pivot and can be swung around, end for end; This movement covers one of the Cutters and also furnishes a Guide for grooving an exact match for the Tongue.

Each

No. 89-48—8⅝ in., for ¾ to 1¼ in. Boards; Weight 2⅝ Lbs. Each...$7.80

No. 89-49—8 in., for ⅜ to ¾ in. Boards; Weight 2⅝ Lbs. Each..... 7.80



PLOW, BEADING AND MATCHING PLANES

A Handy Tool for light work; the Main Stock carries a Spur and Depth Gauge and forms a support for one side of the Cutter and a Fence with a 5 in. adjustment; Handle is Metal being a part of the Main Stock; the Cutters comprise Seven Plow and Dado Bits, Sizes ¼, ⅛, ⅜, ½, ⅝, ¾ and ⅞ in.; Seven Beading Tools, Sizes ⅛, ⅛, ¼, ⅛, ⅜, ⅛ and ½ in., and ¼ in. Turning Tool.

Each

No. 89-50—Nickel Plated; 9¼ in. Long; 15 Cutters.....$11.40
Weight 3½ Lbs. Each

PLANE HANDLES

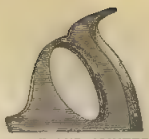
BAILEY

	Per Dozen
No. 92A—Rosewood; Fits Bailey Iron Planes, Nos. 4½ to 8; Weight 1½ Lbs. Dozen	$9 00
No. 92E—Beechwood; Fits Bailey Wood Bottom Planes, Nos. 26 to 34; Weight 2 Lbs. Dozen	4.50

JACK

Beechwood; For Wood Jack Planes

	92C
Weight Dozen, Lbs.	3
Per Dozen	$2.50



FORE AND JOINTER

Beechwood

	92D
Weight Dozen, Lbs.	4½
Per Dozen	$4 20

Above Handles Carried in Stock; Special Ones Shipped Direct from Factory

FLOOR SCRAPERS

ZENITH

A Hand Rest relieves the strain on wrist and arm; The Blade is clamped between two Spring Plates and fastened with a Cam Lock; Any Length of Blade may be used; Ball and Socket Joint allows adjustment in any direction.

Each

No. 92E Polished Steel Frame and Blade; 7 in. Mahogany Finished Handle; Complete with one 3x5 in. Blade...$2.70

One in Box
Weight 21 Lbs. Dozen

Per Dozen

No. 92F—Extra Blades for Zenith Scrapers.....$8.00

UNIVERSAL

The Blade has eight sharp cutting edges and any one of them can be brought into use by means of the Handle with its Ball and Socket connection; the Hand Guard can be used on either end or side of Blade.

Each

No. 92H—Polished Blade, 5¼x3¼ in.; 15 in. Handle.$2.70

One in Box
Weight 1 Lb. Each

Each

No. 92J—Extra Blades for Universal Scrapers.....$0.40

PERFECTION

Per Dozen

No. 92K—3x3 in., 16 Gauge Steel Cutter; Polished Blade, Malleable Iron Holder, Nickel Plated, 12 in. Long; Polished Hardwood Handle, Brass Ferrule $15.30

Half Dozen in Box
Weight 10 Lbs. Dozen

Per Dozen

No. 92L—Extra Blades for Perfection Scrapers.....$3.30

Half Dozen in Box
Weight 1⅞ Lbs. Dozen

FOX

Each

No. P92N—White, Enameled Cast Frame; Heavy Rubber Cushion Tired Wheels; Selected Oak Wood Handle reinforced with heavy Wrought Steel Braces, Width Blade 9 in.; Length Handle 42 in., Adjustable; Blades made from Special Knife Steel, tempered and ground; Wheels work independently of each other and are Rubber Tired; Complete with Tools for keeping Scraper sharp and in perfect condition.....$52.50

One in Crate
Weight 85 Lbs. Each

Per Dozen

No. 92N4—Extra Blades, for Fox Scrapers.....$24.00

FLOOR PLANES

For Scraping Off Old Paint, etc.; Adjustable Scrapers

STANLEY

Blades adjustable endwise and for angle; Simple locking device holds them firmly in position desired; Rosewood Handle and Knob

Each

No. 92-112—9 in. Long, 3 in. Cutter; Weight 4 Lbs. Each.....$5.10

EXTRA CUTTERS

Each

No. 92-112A—For Veneering $0.45

Per Inch

No. 92-112B—For Toothing 60

22, 28 or 32 Teeth to the inch

STANLEY

For Fine Work; Adjustable to any angle; Rosewood Bottom, Japanned Cast Iron Frame, Face and Clamp; Steel Adjusting Screws; Tool Steel Cutter, Tempered and Polished; Polished Rosewood Handle.

Each

No. 92-12—Length 6¼ in., 3 in Cut $5.85

One in Box
Weight 3 Lbs. Each

VENEER SCRAPERS

STANLEY

Adjustable to any thickness Blade; Blade can be sprung to slight curve by Knurled Thumb Screw.

Per Dozen

No. 92-80—2¾ in. Cut; Japanned, Raised Handles; Length 11 in.....$24.60

One in Box; Weight 19 Lbs. Dozen

Per Dozen

No. 92-80A—Extra Blades.....$4.80

CABINET SCRAPERS

HAND

High Grade Steel, Special Temper, Polished

Nos.	92P	92R
Size, In.	3x4	3½x5
Weight Dozen, Lbs.	1½	2¼
Per Dozen	$2.00	2.20

One Dozen in Box

BURNISHERS

For putting an edge on Floor and Cabinet Scrapers, etc., Oval Blade; Natural Wood Handle, Metal Ferrule.

Per Dozen

No. 92S—Length of Blade 4½ in.; Length Over-all 8 in.....$7.80

Half Dozen in Box; Weight 2 Lbs. Dozen

FANCY IRON PLANES

STANLEY

BULL NOSE RABBET

For working close up into corners or other difficult places; The Mouth can be adjusted for different widths by means of the Set Screw on top of Plane.

Each

No. 86-75—Length 4 in.; 1 in. Cutter; Japan Trimmings.....$1.10

Weight ⅝ Lb. Each

With Two Seats for the Cutter, one for regular work and the other where a Bull Nose is required, With Spur and removable Depth Gauge. Adjustable Fence can be used on either side and slides under the bottom, regulating the width of cut; To work same as a Rabbet Plane, remove Fence and Arms.

Each

No. 86-78—Length 8½ in.; 1½ in. Cutter; Japanned..... ...$4.90

Weight 3 Lbs. Each

HANDLED IRON RABBET

These Planes will lie perfectly flat on either side and can be used equally as well with Right or Left Hand while planing into corners or up against perpendicular surfaces; Fitted with Detachable Depth Gauge.

With Spur for working across the grain of wood; Length 8 in.; Japanned

Nos.	86-190	86-191	86-192
Cut. In.	1⅛	1¼	1
Weight Each, Lbs.	2½	2¼	2
Each	$4.40	4.10	3.90

SKEW CUTTER FILLETSTER AND RABBET

Extra Wide Skew Cutter; Adjustable Spur fitted to each side, Fence and Depth Gauge can be attached to either side for Right or Left Hand work; The Adjustable Fence slides under the bottom regulating width of cut; A Skew Cutter Rabbet Plane is obtained by removing Arms and Fence.

Each

No. 86-289—Length 8½ in.; 1¾ in. Cutter; Japanned.....$5.70

Weight 3¾ Lbs. Each

SIDE RABBET

Convenient for Side Rabbeting in trimming Dados, Mouldings and Grooves of all sorts; Reversible Nose Piece gives the Tool a form whereby it will work close up into corners.

Each

No. 86-98—Right Hand; Length 4 in.; ⅛ in. Cutter; Nickel Plated Frame; Rosewood Knob.. ... . $2.90

Weight ½ Lb. Each

Plane Set for Inside Work

Plane Set for Outside Work

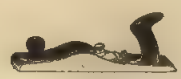
CIRCULAR

With Flexible Steel Faces which can be accurately adjusted for planing the inside or outside of Curved Surfaces; Face is fastened at its center to the Plane Body and adjusted at the ends by means of a Screw and Lever; A valuable feature is the Graduated Scale for setting the Face.

Each

No. 86-113—Length 10 in; 1¾ in. Cutter; Japanned.....$11 00

Weight 3½ Lbs. Each



LOW ANGLE JACK

Adapted for cutting across the grain on heavy work where more power is required than can be obtained by the use of the ordinary Block Plane.

Each

No. 86-62—Length 14 in.; 2 in. Cutter; Japanned Frame; Rosewood Handle and Knob $8.30

Weight 3⅝ Lbs. Each

SCRUB

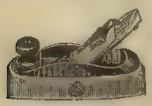
For quickly planing down to a rough dimension any board that is too wide to conveniently rip with a Hand Saw; Has Heavy Cutter with a Rounded Edge instead of Square; Beech Handle and Knob, Japanned Frame

Nos.	86-40	86-40½
Length, In.	9½	10½
Cutter, In.	1⅛	1½
Weight, Lbs.	2⅛	2½
Each	$3.20	4.30

ADJUSTABLE WOOD PLANES

STANLEY

Every Carpenter needs two or more Wood Planes in his Kit for rough outside work; Bottom, Handle and Knob made from selected and well seasoned Beech; Cutters adjustable both endwise and sidewise; Tops Japanned Cast Iron. Frog held in place by two Machine Screws which pass through top Iron and screw into two Brass Lugs; These Lugs are screwed and securely pinned into Wood Bottom; They hold the Wood Bottom and Top Iron together firmly, which greatly strengthens the Plane.



SMOOTH, WITHOUT HANDLE

No.	86-22
Length, In.	8
Cut. In.	1⅝
Weight, Lbs.	2¼
Each	$4.50

SMOOTH, WITH HANDLE

No.	86-35
Length, In.	9
Cut. In.	2
Weight, Lbs.	3¼
Each	$5.60

JACK

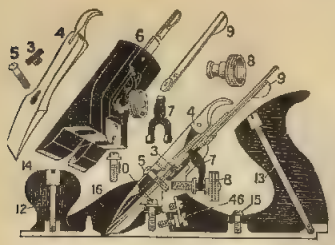
Nos.	86-26	86-27½
Length, In.	15	15
Cut. In.	2	2¼
Weight, Lbs.	3¾	4⅝
Each	$4.90	5.70

FORE

No.	86-29
Length, In.	18
Cut. In.	2⅜
Weight, Lbs.	5½
Each	$6 80

All Above, One in Box

BAILEY AND STANLEY PLANE PARTS



"BAILEY" IRON PLANES

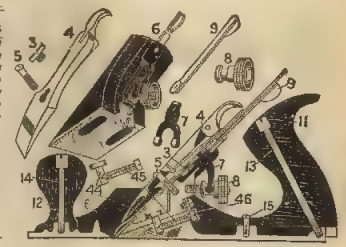
No.	No. of Plane:	1,2	3,3C	4,4C	4½,4½C	5,5C	5½,5½C	6,6C	7,7C	8,8C
3	Cap Screw	$0.10	.10	.10	.10	.10	.10	.10	.10	.10
4	Lever Cap	.50	.50	.50	.50	.50	.50	.50	.50	.50
5	Lever Cap Screw	.10	.10	.10	.10	.10	.10	.10	.10	.10
6	Frog Complete	.70	.70	.70	.70	.70	.70	.70	.70	.70
7	"Y" Adjusting Lever	.10	.10	.10	.10	.10	.10	.10	.10	.10
8	Adjusting Nut	.20	.20	.20	.20	.20	.20	.20	.20	.20
9	Lateral Adjust. Lever	.20	.20	.20	.20	.20	.20	.20	.20	.20
10	Frog Screw	.10	.10	.10	.10	.10	.10	.10	.10	.10
11	Plane Handle	.40	.40	.40	.40	.40	.40	.40	.40	.40
12	Plane Knob	.30	.30	.30	.30	.30	.30	.30	.30	.30
13	Handle Bolt and Nut	.20	.20	.20	.20	.20	.20	.20	.20	.20
14	Knob Bolt and Nut	.20	.20	.20	.20	.20	.20	.20	.20	.20
15	Plane Handle Screw	....	....	.10	.10	.10	.10	.10	.10	.10
16	Plane Bottom	1.20	2.00	2.00	2.40	2.40	3.80	4.70	6.70	
46	Frog Adjusting Screw	.10	.10	.10	.10	.10	.10	.10	.10	.10

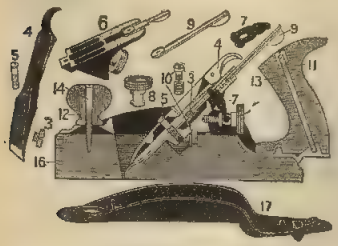
Add 10 per cent for Corrugated Bottoms

"BED ROCK" PLANES

No.	No. of Plane	602	603	603C	604	604C	604½	604½C	605	605C	605½	605½C	606	606C	607	607C	608	608C
3	Cap Screw	$0.10		.10		.10		.10		.10		.10		.10		.10		.10
4	Lever Cap	.60		.60		.60		.60		.60		.60		.60		.60		.60
5	Lever Cap Screw	.10		.10		.10		.10		.10		.10		.10		.10		.10
6	Frog Complete	1.00		1.00		1.00		1.00		1.00		1.00		1.00		1.00		1.00
7	"Y" Adjusting Lever	.10		.10		.10		.10		.10		.10		.10		.10		.10
8	Adjusting Nut	.20		.20		.20		.20		.20		.20		.20		.20		.20
9	Lateral Adjust. Lever	.20		.20		.20		.20		.20		.20		.20		.20		.20
11	Plane Handle	.40		.40		.40		.40		.40		.40		.40		.40		.40
12	Plane Knob	.30		.30		.30		.30		.30		.30		.30		.30		.30
13	Handle Bolt and Nut	.20		.20		.20		.20		.20		.20		.20		.20		.20
14	Knob Bolt and Nut	.20		.20		.20		.20		.20		.20		.20		.20		.20
15	Plane Handle Screw	....		....		....		.10		.10		.10		.10		.10		.10
16	Plane Bottom	2.20		2.50		2.50		3.00		3.00		3.20		4.40		6.20		7.00
44	Frog Pin	.20		.20		.20		.20		.20		.20		.20		.20		.20
45	Frog Clamping Screw	.10		.10		.10		.10		.10		.10		.10		.10		.10
46	Frog Adjusting Screw	.10		.10		.10		.10		.10		.10		.10		.10		.10

Add 10 per cent for Corrugated Bottoms





"BAILEY" WOOD PLANES

No.	No of Plane:	22	24	25,35	26	27½	28	31	32	36	37
3	Cap Screw	$0.10	.10	.10	.10	.10	.10	.10	.10	.10	.10
4	Lever Cap	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40
5	Lever Cap Screw	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10
6	Frog Complete	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60
7	"Y" Adjusting Lever	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10
8	Adjusting Nut	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20
9	Lateral Adjust. Lever	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20
10	Frog Screw & Bushing	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20
11	Plane Handle	....	.20	.20	.20	.20	.20	.20	.20	.20	.20
12	Plane Knob	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20
13	Handle Bolt and Nut	....	.20	.20	.20	.20	.20	.20	.20	.20	.20
14	Knob Screw	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10
16	Plane Bottom	.80	.80	1.00	1.00	1.40	1.60	1.70	1.00	1.40	
17	Top Casting	.40	.40	.40	.40	.40	.40	.40	.40	.40	

"BAILEY" AND STANLEY BLOCK PLANES

No.	No. of Plane:	9½,9¾	15,15½	16,17	18,19	60,60½	62	61,63	65	65½
1	Single Plane Iron	For Prices, See Page 80.								
4	Lever Cap	$0.20	.20	.30	.40	.30	.30	.30	.40	.20
5	Lever Cap Screw	.10	.10	.10	.10	.10	.10	.10	.10	.10
6	Frog Complete	....	....	....	....	.20	.20	.20	.20	.20
7	Adjusting Lever	.10	.10	.10	.10	....	....	....	....	....
8	Adjusting Nut	.20	.20	.20	.20	.20	.20	.20	.20	.20
9	Lateral Adjust. Lever	.20	.20	.20	.20	....	....	....	....	....
11	Plane Handle	.50	.50	....	....	....	.60	....	....	....
16	Plane Bottom	1.40	1.50	1.60	1.60	1.20	3.50	1.00	1.50	1.50
21	Eccentric Plate	20	.20	.20	.20	.20	.20	.20	.20	.20
22	Finger Rest Knob	.20	.20	.20	.20	.20	.30	.20	.20	20

STANLEY BLOCK PLANES

No.	No. of Plane:	100,101	102,103	110	120	130	131	140	203	220
1	Single Plane Iron	For Prices, See Page 80.								
4	Lever Cap	$0.10	.20	.20	20	.20	20	.30	.20	20
5	Lever Cap Screw	....	....	....	....	....	.10	.10	10	.10
6	Frog Complete	..	....	..	.30	. .	.30	.20	20	.20
8	Adjusting Nut	. .	....	..	....	..	.20	.20	20	20
12	Plane Knob	....	..	.20	.20	.20	.30	.30	30	.30
16	Plane Bottom	.20	.40	.50	.60	.70	1.40	1.50	50	.60
18	Detachable Side	....	.	....	..	..	.	.50	.	..
19	Side Screw (Pair)	....	.	.				.20		

IRON BENCH PLANES

STANLEY BED ROCK AND BAILEY

Stanley—Frog adjustable, either forward or backward, without removing Lever or Cutter; Cutter is adjustable endwise and sidewise; Japanned Cast Iron Frame; Rosewood Handle and Knob; Finest Quality English Thin Steel Tempered Cutter, Ground and Honed, ready for use.
Bailey—Width of Mouth may be regulated and made wider or narrower as Coarse or Fine work may require; Lever and Cutter must be removed to do this and Frog Screws adjusted to suit the requirement; Japanned Cast Iron Frame; Rosewood Handle and Knob; Finest Quality English Thin Steel Tempered Cutter; Ground and Honed, ready for use.

Shows Corrugated Bottom

SMOOTH PLANES

8 in. Smooth

A **Smooth Plane** is for finishing or smoothing off flat surfaces. Where the uneven spots are of slight area, its short length will permit it to locate these irregularities, leaving the work with a smooth surface when finished.

STANLEY

	Corrugated Bottom			Flat Bottom			
Nos. 80—	603C	604C	604½C	602	603	604	604½
Length, In.	8	8	10	7	8	9	10
Cut, In.	1¾	2	2⅜	1⅝	1⅝	2	2⅜
Weight, Lbs	3	3½	4½	2½	3	3½	4½
Each	$7.00	7.60	8.80	6.10	7.00	7.30	8.40

BAILEY

	Corrugated Bottom			Flat Bottom			
Nos. 80—	3C	4C	4½C	2	3	4	4½
Each	$6 30	6 90	7.90	5.70	5.80	6.50	7.50

Shows Flat Bottom

JACK PLANES

14 in. Jack

A **Jack Plane** is used to true up the edges of a board in the rough and prepare it for the Fore or Jointer

STANLEY

	Corrugated Bottom		Flat Bottom	
Nos. 80—	605C	605½C	605	605½
Length, In.	14	15	14	15
Cut, In.	2	2¼	2	2¼
Weight, Lbs.	4½	6	4½	6
Each	$8.80	9.60	8.40	9.20

BAILEY

	Corrugated Bottom		Flat Bottom		
Nos. 80—	5C	5½C	5¼	5	5½
Each	$7.80	8.90	6.70	7.50	8.50

FORE PLANES

18 in. Fore

A **Fore Plane** is simply a short Jointer, and being lighter, is preferred by some workmen to the longer Plane

STANLEY

	Corrugated Bottom	Flat Bottom
Nos. 80—	606C	606
Length, In.	18	18
Cut, In.	2⅜	2⅜
Weight, Lbs.	7¼	7¼
Each	$11 10	10 60

BAILEY

	Corrugated Bottom	Flat Bottom
Nos. 80—	6C	6
Each	$10.10	9.60

JOINTER PLANES

23 in. Jointer

A **Jointer** is a finishing Plane for large surfaces and is invariably used to true up the edges of boards so that they can be closely fitted or joined together.

STANLEY

	Corrugated Bottom		Flat Bottom	
Nos. 80—	607C	608C	607	608
Length, In.	22	24	22	24
Cut, In.	2⅜	2⅜	2⅜	2⅜
Weight, Lbs.	7¾	9	7¾	9
Each	$12.90	12.45	12.30	14.50

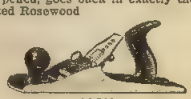
BAILEY

	Corrugated Bottom		Flat Bottom	
Nos. 80—	7C	8C	7	8
Each	$11.70	13.70	11.00	13.10

GAGE SELF-SETTING PLANES

The feature of a Self-Setting Plane is that the Plane Iron, if taken out to be honed or sharpened, goes back in exactly the same position as before removal; Handles and Knobs are made of selected Rosewood

SMOOTH



JACK

	Each
No. 80-G4—Flat Bottom; Length 9 in.; 2 in. Cutter	$6.80
No. 80-G5—Flat Bottom; Length 15 in.; 2 in. Cutter	$7.80

All Above, One in Box

PLANE IRONS

STANLEY AND BAILEY PATENT IMPROVED

Best Quality English Cast Steel, Perfectly Tempered, Polished, Ground and Honed

No. 80C—SINGLE IRONS
For Bailey Iron and Wood Planes

Cut, In.	1⅝	2	2⅛	2¼	2⅜	2⅝
Weight Dozen, Lbs.	2¼	3¼	3½	4	4¼	4½
Each	$0 80	.86	.94	1.02	1.04	1.08

No. 80D—DOUBLE IRONS
For Bailey Iron Planes, Only

Cut, In.	1⅝	2	2¼	2⅜
Weight Dozen, Lbs.	4½	5½	7½	7½
Each	$1.30	1.48	1.60	1.68

Irons for Stanley Planes, other than Block, Bed Rock and Stanley Wood Plane Double Irons will be ordered Special. These Irons are not interchangeable with any other make of Planes

No. 80E—BLOCK PLANE IRONS

	Per Dozen
Bailey Planes, Nos. 9½ 9¾, 15, 16, 17, 18, 19, 60, 65	$6.90
For Stanley Planes Nos. 102 and 103	3 50
For Stanley Planes, Nos. 110 and 130	5 20
For Stanley Planes, No. 220	6.90
For Stanley Planes, No. 100	2.00

No. 80F—EXTRA CAPS

	Per Dozen
For Stanley Planes, Nos. 102, 103, 110, 120, 130, 220	$3.40
For Bailey Planes, Nos. 9½, 9¾, 15 and 15½	3.40
	Each
For Bailey Planes, Nos. 16, 17 and 60	$0.42
For Bailey Planes, Nos. 18, 19 and 65	.56

Half Dozen in Box

IRON BLOCK PLANES

BAILEY

ADJUSTABLE THROAT AND CUTTER

Cutter Adjustable either endwise or sidewise; Throat easily opened or closed for Coarse or Fine Work, Handy Side Grip

Japan Trimmings; Ground Sides and Bottom; 1⅝ in. Cutter

Nos.	85–9½	85–15
Length, In.	6	7
Weight, Lbs.	1⅛	1⅝
Each	$3.40	3.60

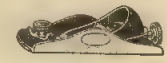
BAILEY

KNUCKLE JOINT LEVER

Fitted with Steel Lever or Cap with Knuckle Joint, which permits of great leverage, Easy to place in position or remove

Nickel Trimmings; Ground Sides and Bottom; 1⅝ in. Cutters

Nos.	85–18	85–19
Length, In.	6	7
Weight, Lbs.	1½	1⅝
Each	$4.20	4.40



STANLEY

LOW ANGLE

Cutter rests on Seat at angle of 12 degrees; Will work against grain of Wood with ease; Fitted with Steel Lever Cap

Each

No. 85–65—Nickel Trimmings; Ground Sides and Bottom; Length 7 in.; 1⅝ in. Cut $4.60

Weight 1⅝ Lbs. Each

STANLEY

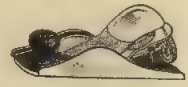
DOUBLE END

Two Slots and Two Cutter Seats; Center Seat and Slot for use when used as Block Plane, other Seat for use as Bull Nose

Each

No. 85–130—Japan Trimmings; Ground Bottom and Sides; Hardwood Knob; Length 8 in.; 1⅝ in. Cut $2.30

Weight 1⅝ Lbs. Each



STANLEY RABBET AND BLOCK

With detachable Side, so it can be changed from a Block to a Rabbet Plane and vice versa; Cutter is adjustable endwise and set on a skew.

Each

No. 85–140—Length 7 in., 1⅝ in. Cutter; Japan Trimmings; Rosewood Knob $4.50

Weight 1⅛ Lbs. Each

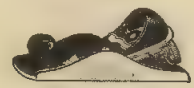
MANUAL TRAINING BLOCK

Bottom and Sides ground; Cutter fastened in place by Lever and Cam; Adjustable endwise by means of Thumb Screw

Each

No. 85–203—Length 5½ in., 1⅜ in. Cutter; Japan Trimmings; Rosewood Knob $2.20

Weight 1⅛ Lbs. Each



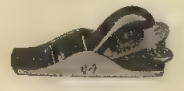
Cutter Fastened by Lever and Cam; Adjustable Endwise

STANLEY

Each

No. 85–220—Screw Adjustment; Ground Sides and Bottom, Rosewood Knob; Length 7⅛ in.; 1⅝ in. Cut $2.30

Weight 1⅛ Lbs. Each



For Light Work; Cutter Adjustable Endwise

STANLEY

Each

No. 85–103—Lever Adjustment; Ground Bottom, Japanned Sides; Finger Rest Boss on front end; Length 5½ in.; 1⅝ in. Cut. $1.70

Weight ⅞ Lb. Each

NON-ADJUSTABLE PLANES

STANLEY

Each

No. 85–110—Ground Bottom and Sides, Applewood Knob, Stained Black; Length 7½ in.; 1⅝ in. Cut $1.70

Weight 1⅝ Lbs. Each

Each

No. 85–102—Ground Bottom; Japanned Sides; Finger Rest Boss on front end; Length 5½ in.; 1⅝ in. Cut $1.20

Weight ⅞ Lbs. Each

All Above, One in Box

HAYING TOOLS

WOOD SHEAVE PULLEYS

Nos. 45-46-54

No. 43—Knot Passing

Malleable iron frame, with flanged edges to protect rope; hard maple sheaves, dipped in linseed oil; turn on 13/16-inch metal bearings; large swivel eye

No. 45—Pulley; 5 in. sheave; wgt. doz. 33 lbs. Doz $ 8 50
No. 46 Pulley; 6 in. sheave; wgt. doz. 40 lbs. Doz 11 25
No. 54 Pulley; 7 in. sheave; wgt. doz. 48 lbs. Doz 15 10
No. 43—Pulley; 6 in. sheave; wgt. doz. 45 lbs. Doz 12 80

IRON SHEAVE PULLEYS

No. 42 -With Eye

No. 42A—With Hook

Malleable iron frame; flanged edges; riveted top and bottom; iron sheave on ¼-inch roller bearing

No. 42 —Pulley; 5 in. sheave; wgt. doz. 63 lbs Doz. $17 95
No. 42A -Pulley; 5 in. sheave; wgt. doz. 64 lbs Doz. 17.95

BRACKET PULLEYS

Malleable iron frame and casing; iron sheave, on metal bearing; frame mortises into beam and permits draft to run down side of barn for hitch. Used with Advance equipment on end hoist barns, less rope is required than if run back to door for hitch, and carrier is easier to return to hoisting place. Weight 50 pounds per dozen.

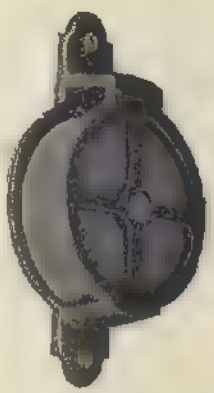
No. 70—Bracket Pulley; 6-in. sheave; malleable iron frame. Doz. $15.00

IRON SHEAVE PULLEY

Malleable iron frame, flanged edges; riveted at top; large swivel eye; iron sheave, on 5/16-inch steel roller bearings Weight 50 pounds per dozen

No. 45RB -Pulley; 5-in. sheave... Doz $15 40

SIDE PULLEYS



No. 47

No. 11

For balance weight ropes for raising and lowering doors

No. 47—Side Pulley; malleable frame; 4-in. hard maple sheave for 5/16-in. rope or smaller; wgt. per doz. 15 lbs..... Doz. $6.40
No. 11 Side Pulley; malleable frame; 3½-in. iron sheave for ⅛-in. cable or smaller; wgt. per doz. 24 lbs. ..... Doz. 6.40

GUIDE PULLEY

Required to run a carrier on a circular track; placed on inside of track in round barns to hold rope in line with track.

No. 30—Guide Pulley; wgt. 8 lbs..... Each $4.05

HAYING TOOLS

HAYING TOOLS FOR WIRE ROPE CABLE

No. 280.

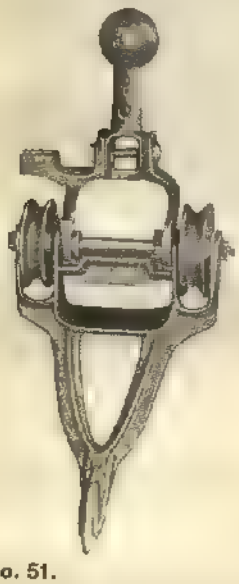
No. 50.

No. 280 Advance Compression Sling Pulley is the No. 51 main section used with No. 50 section; large wheels for $^3/_8$-inch or $^1/_2$-inch cable; for use with Nos. 1, 2, and 3 carrier when cable is used in place of fibre rope.

No. 280—Advance Compression Sling Pulley; complete with registering head; weight 19 pounds. Each $5 55

No. 50—Section Advance Compression Sling Pulley; used for end trip slings; weight 8 lbs. Each $3.40

CABLE FORK PULLEY



No. 51.

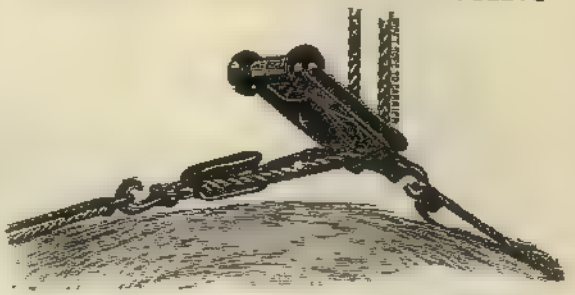
No. 52

No. 51 -Main Section used with No. 50 to make complete pulley No. 280

No. 51 -Main Section Advance Compression Sling Pulley; weight 11 pounds..... Each $2.35

No. 52—Cable Fork Pulley; has large iron sheaves suitable for $^3/_8$-inch or $^1/_2$-inch cable; for use with Nos. 1, 2 and 3 carrier; weight 8 pounds....Each $2 15

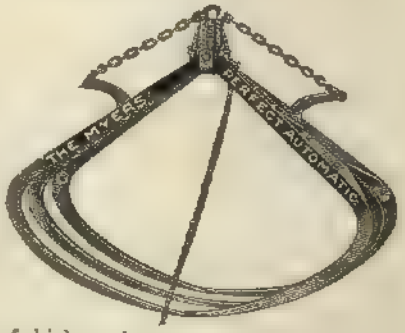
UNIVERSAL REVERSIBLE SLING PULLEYS



Can be used for slings with any make of hay carrier without a change of fork pulley for using a registering head; when bundle is compressed the fork pulley passes up against sling pulley trips and dislodges the center section and passes through, the bundle being tightly compressed; hay is deposited in mow in same relative position as on wagon. Weight 14½ pounds

Myers Universal Sling Pulleys . ... Each $3 75

AUTOMATIC GRAPPLE FORKS



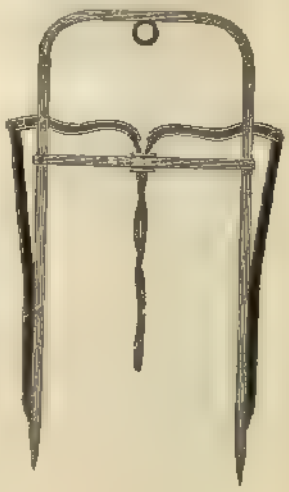
Made of high carbon spring steel; six tines; handles loose or baled hay; width of head 19 inches trips easily from any direction; has perfect balance; trip rope closes and locks fork, returns to load all ready to enter hay. Weight 48 pounds.

No. 1438—Myers Perfect Automatic Grapple Forks; six tines .....Each $12 00

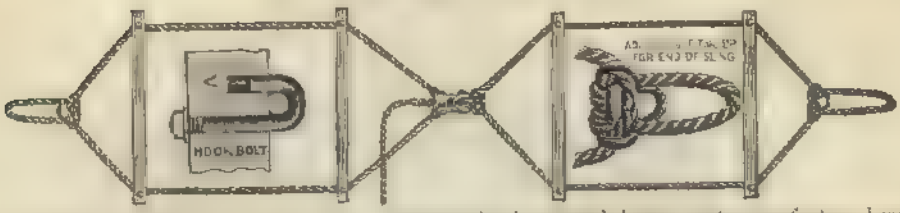
DOUBLE HARPOON HAY FORKS

Extra length, 31-inch tine; made from open hearth spring steel ¼x1¼ inches; strong steel cross bar; tripped from any direction. Weight 18 lbs.

No. 451 -Double Harpoon Hay Forks ..Each $5.00

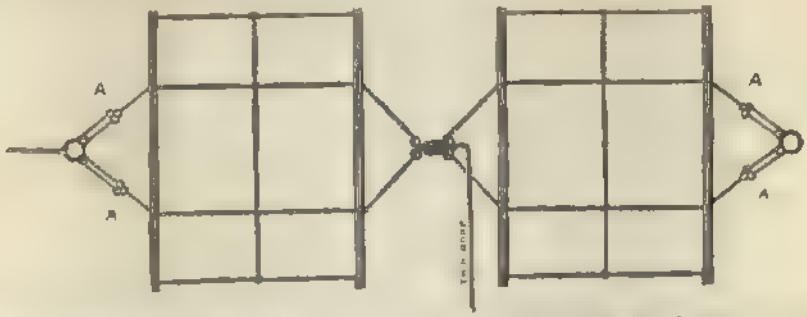


HAYING TOOLS



Center trip adjustable slings, 5 foot cross bars of seasoned Ash, 2½ inch Loose twist rope, fastened with Hook Weight 24 pounds.

No. 620—Center Trip Hay Slings; 5 ft. slats ..... Each $7.50



Utah center trip adjustable slings; has 6 foot cross bars which extend 18 inches beyond side ropes and to which is attached a double end rope, extra cross rope between slats Weight 51 pounds

No. 621 Utah Center Trip Slings; 6 ft. slats Each $8.60

"COMMON SENSE" ROPE SLINGS

No. 32

Showing Method of Attaching Extra Rope

Made from ½-inch pure Manila rope, two ropes 20 feet long; single eyelets one end; these are fastened by heavy metal after rope has been spliced in middle and reversed and made secure by clamping with rings around rope both ends shoulders on each of eyelets making it almost impossible for eyelets to pull out; other two ends fitted with large ring spliced in No slats necessary; will pick up all kinds of hay as clean as any style slat sling; a light, practical sling

No. 32 Common Sense Rope Hay Slings; sold in sets of three slings wgt per set 11 lbs. ..... Per set $4.90

No. 34 Third Ropes, for Common Sense Slings; has double eyelet one end and snap at other; attached or detached in an instant; sold in sets of three; wgt per set 6 lbs ..... Per set 2.35

No. 34

"COMMON SENSE" CHAIN SLINGS

Made of electric welded passing link chains, cannot tangle or kink; very smooth, will not stick under hay; tensile strength 2,000 pounds; length 20 feet. Weight 11 pounds each.

No. 36 Common Sense Chain Hay Slings; sold in sets of three Each $2.65

Third Chains, for Common Sense Chain Slings..... Each 1.05

HAYING TOOLS

TRACK COUPLER

Made from special rolled high carbon angle steel 1x¾x⅜ inch; two pieces, closely riveted with ⅜-inch rivets, separated by heavy square washers, making it exceptionally strong and rigid. Handy to install, as track hangers are inserted from under side and no bolts or rivets are required. Weight about 2¼ pounds per foot. In stock in 6, 8, 10 and 12 foot lengths.

No. 6—Steel Track; with couplings ..Per foot $0 22
Circular Track; for round barns, state radius of circle (when ordering send diagram and give radius of circle Per foot
Advance Track Coupler (when sold as extra Each 0 32

ADVANCE STEEL TRACK

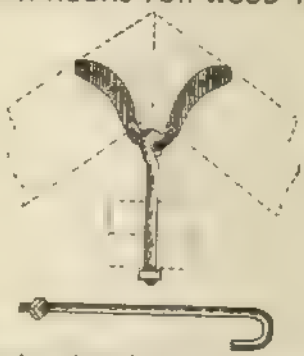
TRACK HANGERS

No. 7

No. 5

No. 7—Track Hangers; for ordinary use; weight per dozen 4½ pounds Dozen $1 90
No. 5 Track Hangers; split or open eye, weight per dozen 4½ pounds ..... Dozen 2 35

HANGER HOOKS FOR WOOD TRACK



Made from 1-inch round wrought iron.
No. 22 Hanger Hooks; 12-in Dozen $1 15

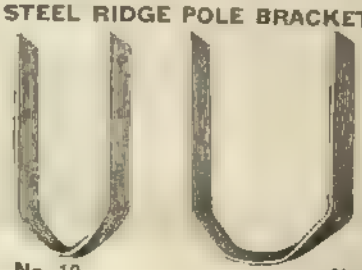
RAFTER BRACKETS

No. 8—Malleable Iron

No. 4 Steel

No. 8 Iron Rafter Brackets; weight per dozen 3½ pounds Per Doz $1 05
No. 4 Steel Rafter Brackets; weight per dozen 3½ pounds Per Doz 76

STEEL RIDGE POLE BRACKETS



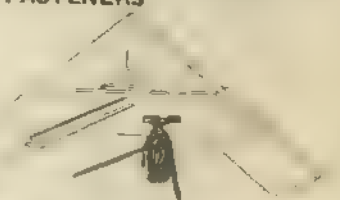
No. 10 No. 9

No. 10 Ridge Pole Brackets; 2 in. wide weight per dozen 4 pounds Dozen $1 05
No. 9—Ridge Pole Brackets; ½ in wide weight per dozen 5 pounds..... Dozen 1 30

FLOOR HOOKS

Wrought iron, sharp cut screw threads.
No. 12—Floor Hooks; diam. ⅝ in.; 8 in. long; 14 pounds per dozen ..... Dozen $1 90

PULLEY FASTENERS



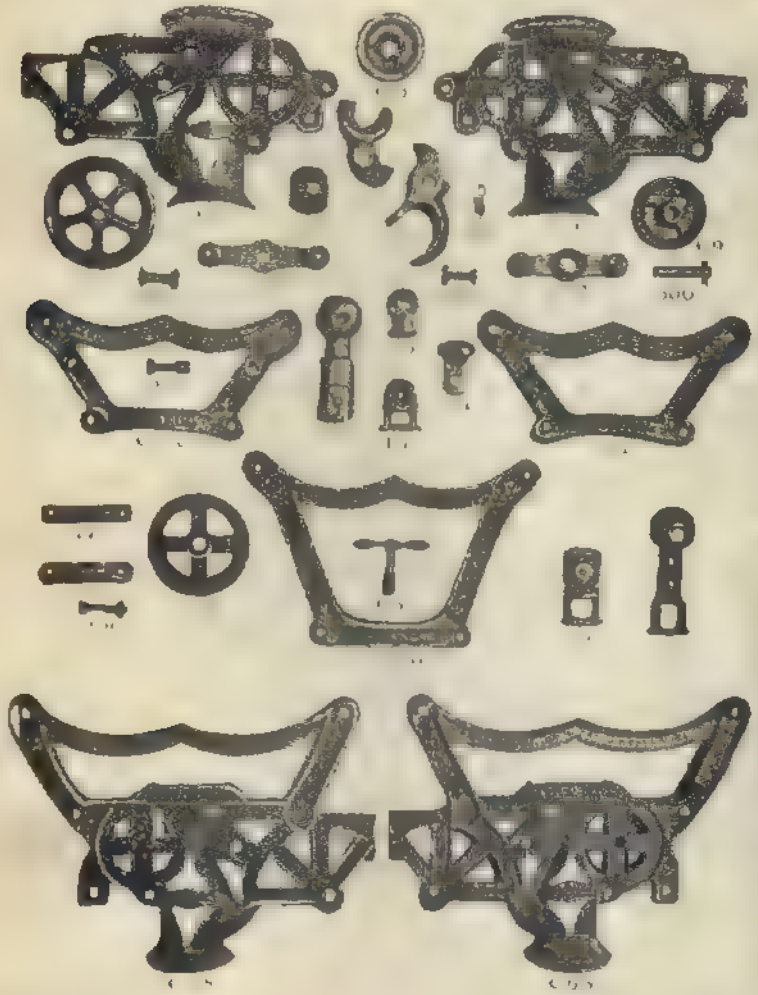
SWIVEL ROPE HITCHES

Malleable iron, with swivel hook.
No. 21 Rope Hitch; 19 lbs doz Dozen $3 85

For attaching pulley to track or may be bolted to sill or frame work of barn by using bolts. Safer than floor hook
No. 19—Pulley Fastener; 12 lbs. per dozen ...Dozen $3 85

Open stock. Second class freight

REPAIR PARTS FOR ADVANCE HAY CARRIERS

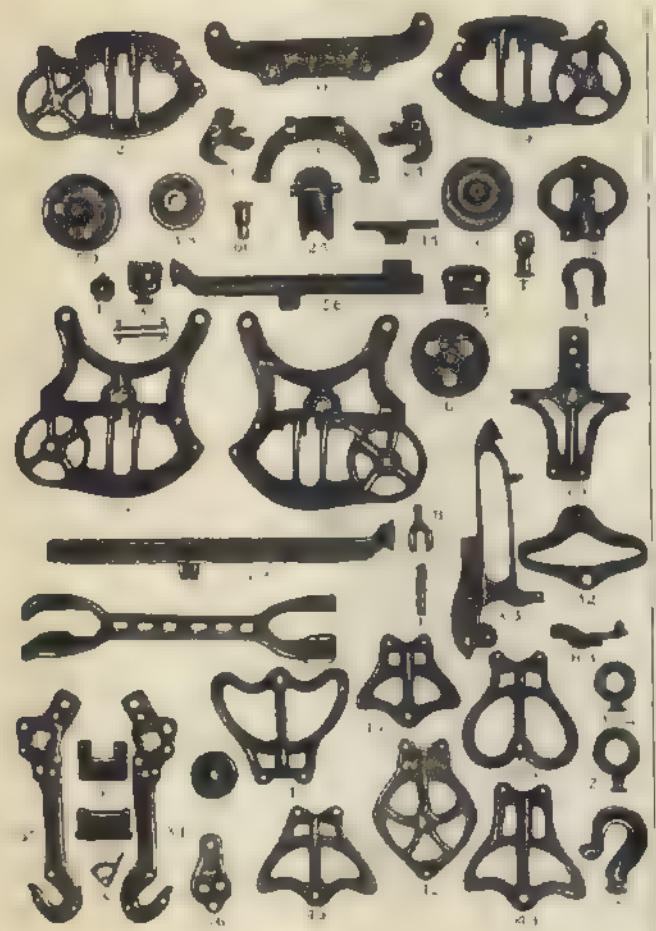


No.	Part	Each
300	Axle Pin	30
301	Small Spring in Car	.25
302	1½ inch Special Car Bolt for No. 2 and 3	.15
304	1¾ inch Special Car Bolt for No. 1.	.15
305	Guide Pin for No. 1 Car	15
27	Rope Swivel	80
26	R. H.	1 00
A-3	Pulley Frame for Fig. 24	1 75
H-3	Latch for Fig. 24	.50
6	Sheave for Comp. Pulley 24 and 25	.50
7	Grip Pulley for Car. 10 and 15	.50
8	Small Wheel for Comp. Pulley Fig. 23	.40
10	Hanger Arm for No. 10 Carrier	1.25
13-S	Track Wheel for No. 10 Carrier.	.40
014	Stop-Lock for No. 10 Carrier	1 00
19	Pulley Fastener	.30
22	Pulley Frame for Fork Pulley for Car. No. 10 and 15	.45
23	Grab Hook for Car. No. 10 and 15	.55
24	Grab Hook for Car. No. 10 and 15	55
25	Lock for Car. No. 10 and 15	1 00
28	Left Side for Car No. 10	1 75
29	Right Side for Car. No. 10	1 75
30	Swivel for Car. No. 10	1 25
31	Clevis for Pulley	15
32	Guard for Pulley, Fig. 24 and 25	60
34	Side Frame for Fig. 25	90
35	Side Frame for Fig. 22	90
36	Rope Guide for Fig. 25	40
37	Latch for Fig. 23	40
38	Bridge for Fig. 23	40
X	Latch for Fig. 23.	25
32-A	Swivel for Fig. 32-A	25
32-B	Frame for Fig. 32-A	50
39	Rope Swivel Casting	.40
40	Rope Clamp	.30
42	Frame for Fig. 42	.50
43	Frame for Fig. 43	50
45	Frame for Fig. 45 and 45 R. B.	.50

No.	Part	Each
C-1	Ball	$1 00
C-2	Push Block	25
C-3	Wrench	25
C-5	Right side for No. 1, 3, and 5 Carrier	2 25
C-5-S	Right side for No. 2 Carrier	3 50
C-6	Left side for No. 1, 3 and 5 Carriers	2 25
C-6-S	Left side for No. 2 carrier	3 50
C-7	Lower part of Lock	1 20
C-8	Upper part of Lock	1 00
C-9	Small sheave for No. 1, 2, 3 and 5	65
C-10	Large sheave for No. 1, 2, 3 and 5	75
C-11	Swivel arm for No. 3	1 75
C-11-A	Swivel arm for No. 1	1 75
C-11-W	Swivel arm for No. 5	2 00
C-12	Wheel arm, old style	1 25
C-12-A	Wheel arm, new style	80
C-13	Track Wheel	40
4-W	Track wheel for wood track	60
F-1	Lower part for trip F16	45
F-2	Head for trip F16	50
F-4	Clamp for trip F16	25
F-5	Swivel for trip F16	45
17	Top part for coupling	15
18	Bottom part for coupling	15
306	Coupling Bolt	10

No.	Part	Each
46	Frame for Fig. 46	50
47	Pulley for Fig. 47	50
48	Roller Bearing Wheel for No. 42	60
49	Roller Bearing Wheel for No. 45	60
50	R. B. Sheave for Car. No. 10 and 15	.60
53	Single Cable Clamp	.35
54	Frame for Fig. 54.	.50
55	Swivel Head for Stop-Lock for No. 4 and 15 Car.	.40
56	Stop-Lock for Car. No. 15	1 00
57	Left side for Car. No. 15	1 75
58	Right side for Car. No. 15	1 75
59	Cable Wheel for Car. No. 4	50
60	Double Cable Clamp	.60
61	Small Sheave for Sling-Lock	.15
62	Axle Pin for No. 10 and 15	25
63	Pulley Frame for Fig. 25	1 25
66	Axle Pin for No. 10 and 15	35
70	Bracket Pulley Frame	.60
71	Cable Attachment for No. 2 Car.	4 50
72	Stop-Lock for Car. No. 4.	1 25
75	Frame for Fork Pulley.	.60
78	Safety Stop	.30
T	Swivel for Fork Pulley.	.40
B	Hook for Sling-Lock Pulley	.40
J	Spring for Sling Lock Pulley	.20

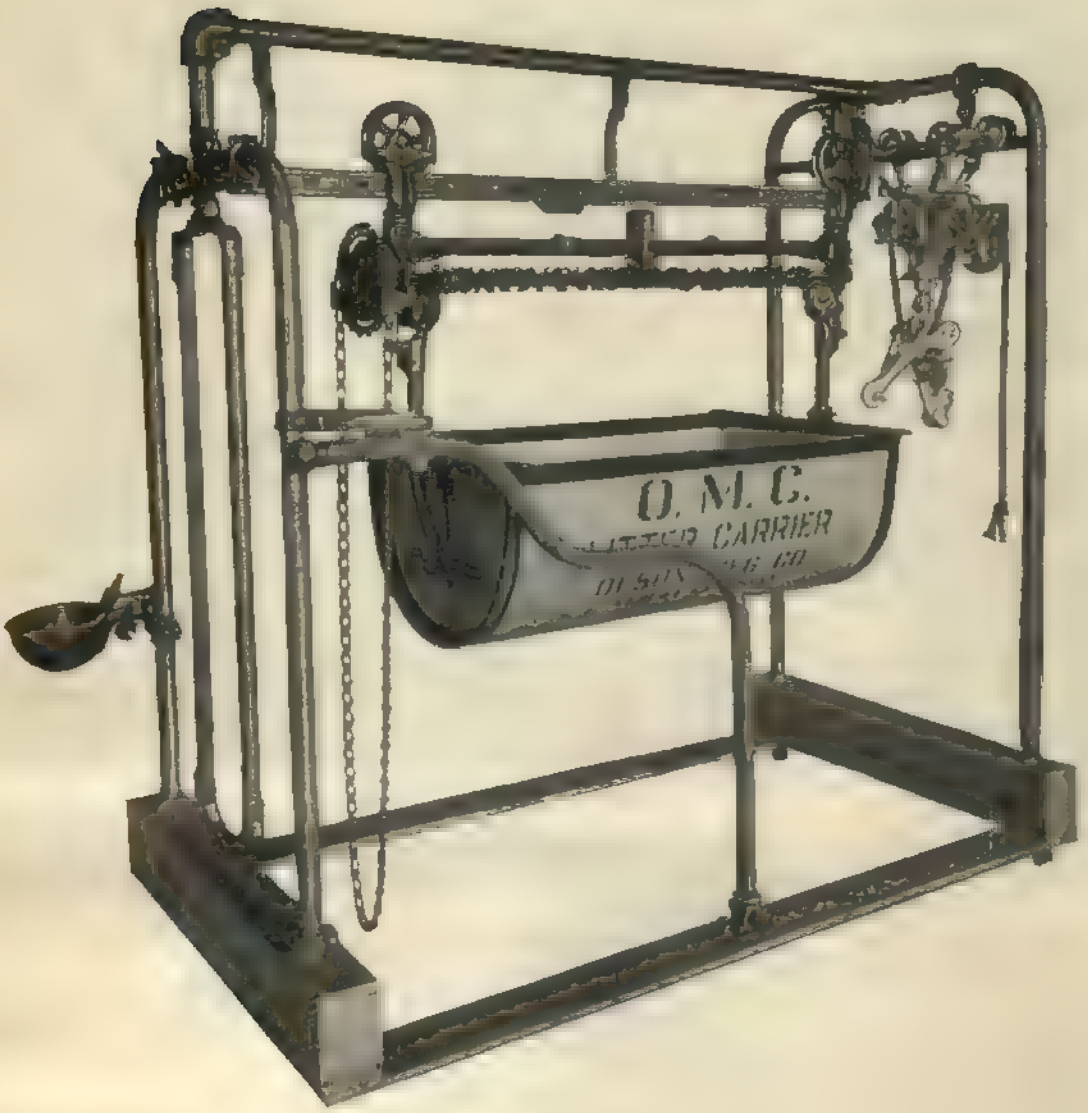
REPAIR PARTS FOR ADVANCE HAY CARRIERS



No.	Part	Each
S	Hook for Pulley No. 42-A	$0.30
Z	Eye for Pulley 42, 43, 45, 46 and 54	.25
A	Sling Lock Frame	.75
B	Sling Lock Hook	.40
C	Sling Lock Latch	.40
D	Rope Eye	.16
D-4	Rope Eye for 3d Rope	.16
E	Name Plate for Sling-Lock	.20
G	Sling-Loop	.40
GC	Sling Loop for Chain Sling	.40
S-1	Rope Snap	.15
K	Spring for Sling-Lock Pulley	.20
L	Spring for Sling-Lock	.20
M	Large Steel Plate for Door Latch	.30
N	Small Steel Plate for Door Latch	.20
O	Latch	.30
P	Outside Latch Handle	.20
132	Inside Latch Handle	.20

No.	Part	Each
133	Latch Pin	$0.10
134	Latch Catch	.10
144	Door Stay Roller	.30
F-6	Frame for S. L. Cable Pulley	1.50
F-7	Guard for S. L. Cable Pulley	.50
F-8	Main Frame for Cable Pulley	2.00
F-9	Wheel for Cable Pulley	.50
F-10	Wheel for Cable Pulley	.40
F-11	Latch	.30
F-12	Large Trip Lever	.30
F-13	Small Trip Lever	.20
F-14	Cable Guide	.30
F-15	Cable Guide	.20
B-4	Hook for Cable Pulley	.40
	4-inch Wood Sheave for Fig. 57	.20
	5-inch Wood Sheave for Fig. 45	.25
	6-inch Wood Sheave for Fig. 43, 46 and 32 A	.30
	7-inch Wood Sheave for Fig. 54	.35

ADVANCE DISPLAY OUTFIT

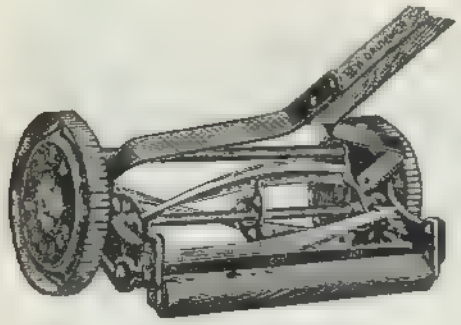


Advance Display Outfit.....Each $90.00

F. O. B. Albert Lea, Minn.

LAWN MOWERS

THE NEW DRUMMER



Guaranteed to be the best low-priced mower ever made. Design new and attractive, very popular on account of lightness of draught. All connecting points machined to exact dimensions, shoulders milled on ends of steel cross rod to produce rigid frame. Wheels made with spoked ring, making a raised tread. Reel shaft is made of best machinery steel, 9/16 in. in diameter and has adjustable brass brushings to make up wear.

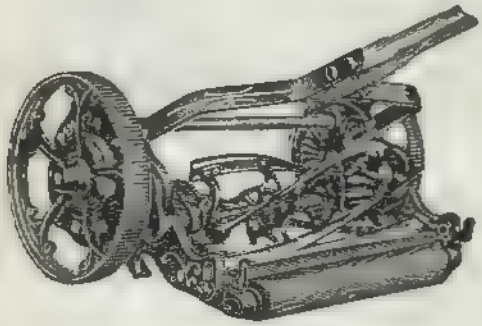
Decoration—Dark green wheels, apple green body and gold striping.

8½ in. wheels, 3 crucible steel blades carefully tempered and self-sharpening, reel 5½ in. in diameter, ⅝ in. cross-rod, screw adjusting cutter bar, malleable iron spiders, hard maple handle and roller.

Nos.	E812	E814	E816	E818
Cut, in.	12	14	16	18
W't, lbs.	40	42	45½	48½
Each	$10.40	11.00	11.70	12.40

ONE IN A CASE

PENNSYLVANIA JUNIOR BALL BEARING

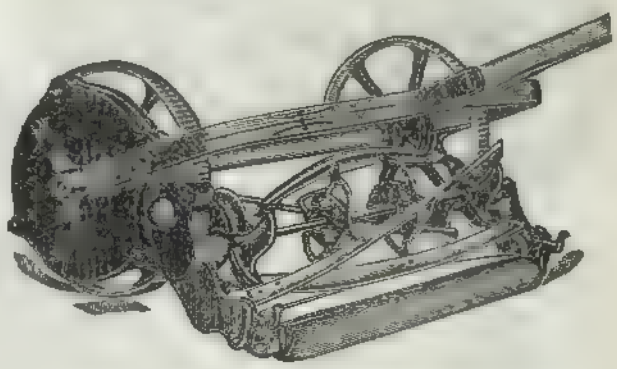


10 inch driving wheels, five tempered crucible steel blades, self-sharpening dead knife, ball bearing, cylinder journals, 6 inch cylinder, train of gears each side, hardwood roller and handle.

Nos.	E1015	E1017	E1019	E1021
Cut, in.	15	17	19	21
W't lbs.	71	74	77	80
Each	$40.50	45.90	51.30	56.70

ONE IN A CASE

PENNSYLVANIA HIGH WHEEL

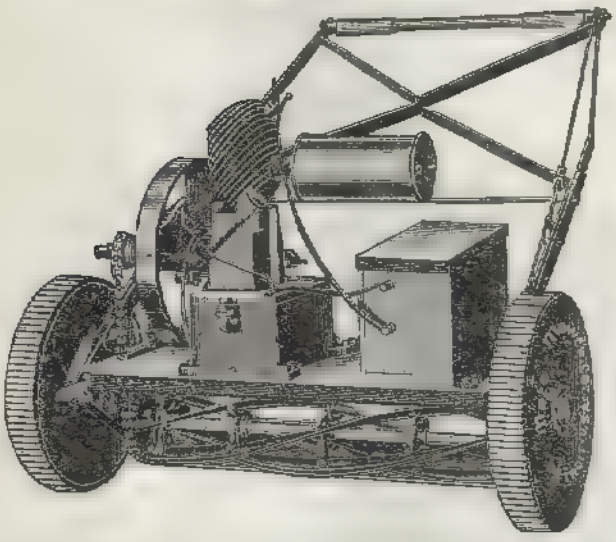


10 inch driving wheels, four crucible steel oil tempered blades, extra wide 6½ inch reel geared on one side with triple train of gears, hardwood roller and handles.

Nos.	E1115	E1117	E1119	E1121
Cut, in.	15	17	19	21
W't lbs.	78	82	85	97
Each	$40.50	45.90	51.30	56.70

ONE IN A CASE

MOTO-MOWERS



For use in parks, cemeteries, public grounds and private places where lawn is too large for hand mower. Will do as much work as five men with hand mowers.

Machine is made from best materials throughout and nicely finished and painted. Cutting Reel has 5 crucible steel blades, carefully tempered and hardened. The motive power is furnished by a 1½ H. P. reversible engine, fully guaranteed. There are no gears or clutches on the moto-mower. The power from engine is transmitted direct to cutting reel through chains and sprockets. The friction driven rollers on the ends of the reel-shaft are brought gently into engagement with the flange on the inner sides of the wheels by simply rotating the handle bars. This permits the machine to be started or stopped without shock or jar and allows you to turn to right or left or stop instantly. The Moto-Mower is provided with automatic friction release between the motor and cutting reel.

If a stone, root or other object becomes caught in the machine, this device by automatically slipping, protects the blades against injury or possible breakages.

The Machine cuts as close to trees and other objects, as a hand mower. It can operate on any terrace or hillside on which a man can walk.

FRAME

Width of Cut, 27 inches.
Cut Adjustable, ½ to 3 inches.
Cutting Speed, 2 to 3 mi. per hr.
Cutting Capacity, 5 acres per day.
Climbs, 35 per cent grade.
Color, French grey, gold striping.
Blades, 5, crucible steel.

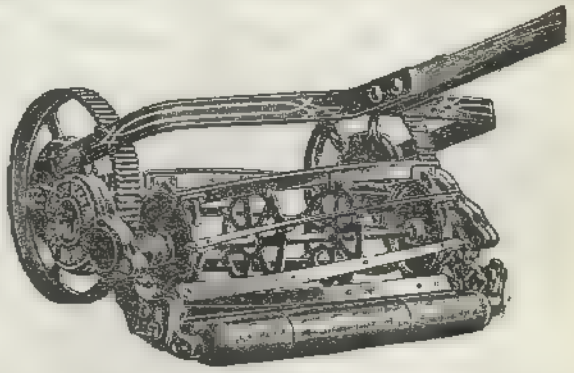
MOTOR

Single Cylinder, Air Cooled.

Gasoline Consumption per day, About 1 gallon.
Bore, 2½ inches.
Stroke, 2½ inches.
H. P. (A. E. S. rating), 1½.
Speed, 600 to 1200.
Ignition, Battery.
No. W124—24 in. cut, w't each 160 lbs. ....each **$300.00**
No. W127—27 in. cut, w't each 180 lbs. ....each **360.00**

ONE IN A CASE

PENNSYLVANIA BALL BEARING GOLF LAWN MOWER



9½ in. drive wheels, seven crucible steel blades, self-sharpening raised edge dead knife, ball bearing, cylinder journal, 6½ in. cylinder, sectional iron roller, cuts 5/16 to 1½ in. from ground. Especially adapted for golf links and tennis courts.

Nos.	E1217	E1219	E1221
Cut, in.	17	19	21
W't, lbs.	75	80	85
Each	$54.40	60.80	67.20

ONE IN A CASE

PUTTING GREEN MOWER

7 in. rollers, 5 in. six-blade cylinder, crucible steel blades; self sharpening raised edge dead knife; triple gears. The hardwood roller in front can be removed and mower supportd on caster wheels if preferred. Cuts 3-16 to 1½ in. This mower is unexcelled for cutting undulating or wavy greens, also tennis courts, cricket creases and other lawns requiring an exceptionally close and smooth cut. It can also be used as a border trimmer for the ordinary lawn.

Nos.	E1316	E1318
Cut, in.	16	18
Weight, lbs	85	94
Each	$51.20	57.60

ONE IN A CASE

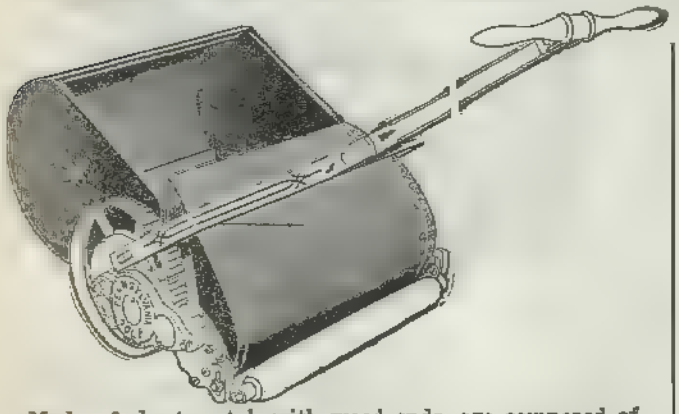
GRASS BOXES

Sheet metal with wood ends, for use on Pennsylvania Putting Green Mowers, easily attached and detached.

Nos.	E116	E118
Width, in.	16	18
Each	$11.70	12.00

LAWN MOWERS

GRASS BOXES FOR GOLF MOWERS



Made of sheet metal, with wood ends, are composed of two parts—the box proper and the shield or deflector, to deflect the grass forward into the box, for use only on Pennsylvania golf mowers, easily attached and detached.

Nos.	E217	E219	E221
Inches	17	19	21
W't, lbs.	32	33	34
Each	$11.70	12.00	12.20

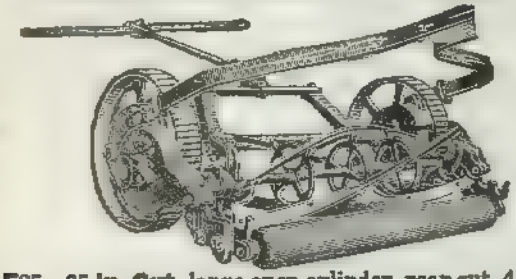
ONE IN A BOX

CHAMPION PONY

No. E30—30 Inch Cut, 10 in. driving wheels, 6½ in open cylinder, three tempered steel blades, high speed reel double drive, positive ratchet, very strong and neatly decorated, w't 120 lbs. .....each $60.00

ONE IN A CASE

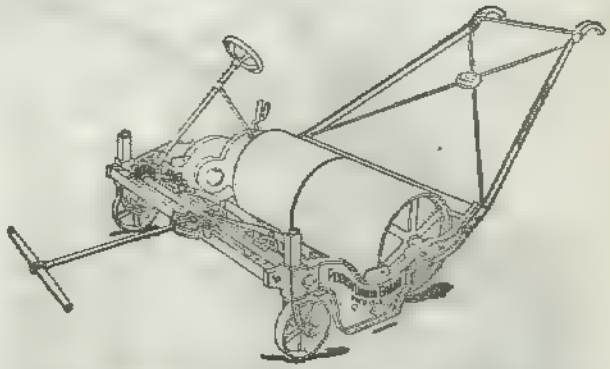
PENNSYLVANIA PONY OR TWO MAN



No. E25—25 In. Cut, large open cylinder, rear cut, 4 blades, Enos bed plate yielding bed knife, self-sharpening, shifting clutch for throwing out of gear, brass boxes, long bearings, complete with handle and draft irons, w't 153 lbs. .....each $100.00

ONE IN A CASE

PENNSYLVANIA GRAND HORSE



Crucible tool steel blades, 7½ inch open cylinder, diameter of rollers 15 inches, with handles and draft irons.

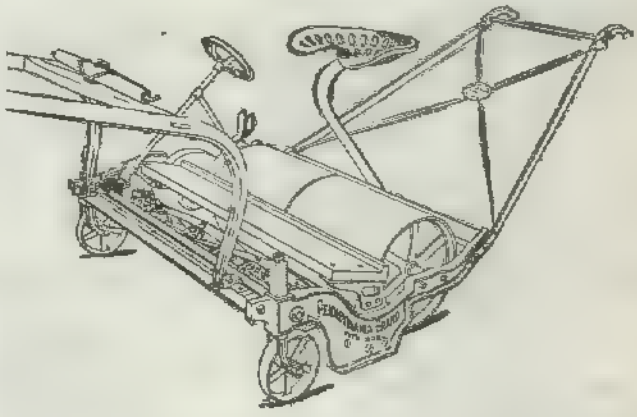
No. F101—Cut 30 in., 4 blades, w't 595 lbs., each★ $220.00

No. F102—Cut 30 in., 6 blades, w't 605 lbs., each★ $247.50

No. F104—Cut 38 in., 4 blades, w't 675 lbs., each★ $286.00

No. F105—Cut 38 in., 6 blades, w't 705 lbs., each★ $313.50

ONE IN A CASE



Crucible tool steel blades, 7½ in. open cylinder, diam. of roller 15 in., with seats, shafts and handles.

The wheel at the right of the driver's seat regulates the height of cut from ⅜ to 2¾ in. The operator, without leaving his seat, can instantly change from low to high cut or an intermediate one.

No. F111—30 in cut, 4 blades, w't 635 lbs., each★ $264.00

No. F112—30 in. cut, 6 blades, w't 645 lbs., each★ $291.50

No. F114—38 in. cut, 4 blades, w't 720 lbs., each★ $330.00

No. F115—38 in. cut, 6 blades, w't 750 lbs., each★ $237.50

ONE IN A CASE

★ Items Marked Thus ★ Are Shipped From Factory Only.

GRASS COLLECTORS

REVONOC

Galvanized steel bottom, octagonal back, heavy duck sides, new improved handle, front flange and hook brackets.

The special feature of above grass catchers is that they can be lifted off, free from the mower, can be raised or lowered, made wider or narrower, and when once fitted need no further attention. Guaranteed to give entire satisfaction.

Full Half Dozen Bundles.

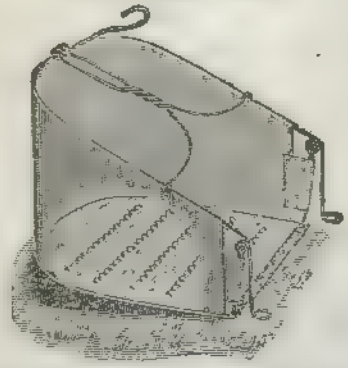
Nos.	EE8	EE10
For mowers, in.	12 to 18	16 to 22
Depth, in.	20	22
Width, in.	18	22
W't, doz., lbs.	54	62
Per dozen	$32.00	35.60

Less Than Half Dozen.

Nos.	E8	E10
Per dozen	$32.00	35.60

HALF DOZEN IN A BURLAP BUNDLE

EASY EMPTYING



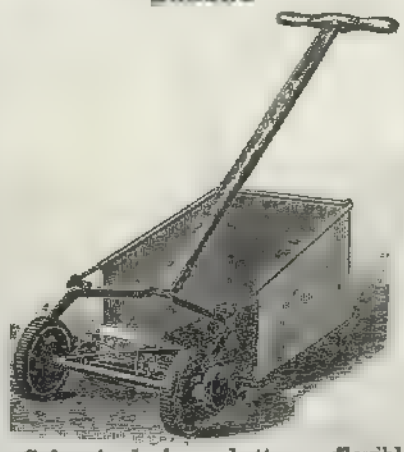
Galvanized steel bottom, round back, heavy duck sides, new improved handle, front flange and hook brackets.

The special feature of above grass catchers, is their construction, which allows of their being lifted off, free from the mower with one hand and emptied wherever desired. They can be readily adjusted to fit any size or make of lawn mower, by any one, in a few minutes. They can be raised or lowered, set forward or backward, made wider or narrower and when once fitted, need no further attention. Guaranteed to give entire satisfaction.

Nos.	E110	E112
For mowers, in.	12 to 18	16 to 22
Depth, in.	20	22
Width, in.	18	22
W't, doz., lbs.	50	68
Per dozen	$29.50	36.80

HALF DOZEN IN A CASE

BRAUNS



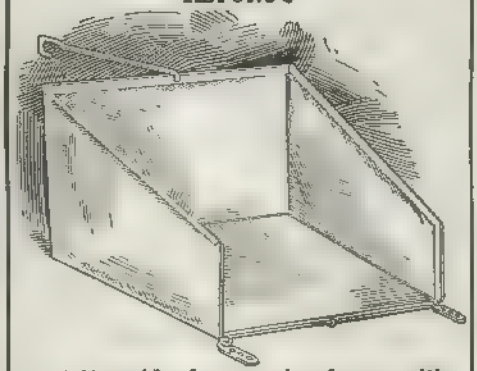
Galvanized iron bottom, flexible canvas sides, supported on truss rods, for high wheel mowers.

Supported on truss rods which gives strength and firmness, and permit its being folded flat; can be attached or detached in a moment with one motion; can be dumped forward without detaching. The bottom will not sag nor drag on the ground when filled.

Nos.	E15	E17
Width, in.	15	17
W't, lbs.	6	6½
Per dozen	$72.00	75.60
Nos.	**E19**	**E21**
Width, in.	19	21
W't, lbs.	7	7
Per dozen	$80 00	88.00

HALF DOZEN IN A CRATE

REVONOC



Adjustable, heavy wire frame with three stay wires on under side, blue and white canvas bag.

Full Dozen Cases.

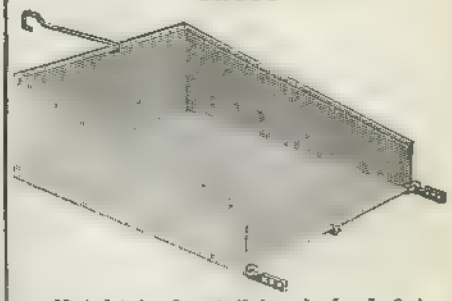
Nos.	EE1	EE2
For mowers, in.	12 to 16	18 to 21
Front, height, in.	8	8½
Back, height, in.	13	13
Width, in.	18	23½
W't, doz., lbs.	18½	21½
Per dozen	$14.00	15.60

Less Than Dozen.

Nos.	E1	E2
Per dozen	$14.00	15.60

ONE DOZEN IN A CASE

CRUSO



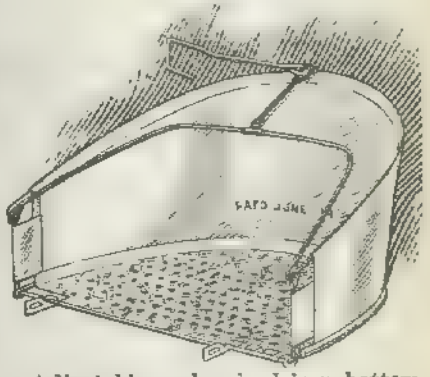
Height in front 5 in., in back 9 in., width 18 in., adjustable for 12 to 16 in. mowers, heavy wire frame with one stay wire on under side, blue and white canvas bag.

No. EE3—Full dozen cases, per dozen $12.00

No. E3—Less than dozen, per dozen $12.00

ONE DOZEN IN A CASE, W'T PER DOZ. 14 LBS.

CRUSO



Adjustable, galvanized iron bottom, good quality duck, easily detached from mower for emptying.

Full Case Lots.

Nos.	EE16	EE18
For mowers, in.	12 to 16	16 to 21
W't, doz., lbs.	40	50
Per dozen	$19.20	21.00

Less Than Case.

Nos.	E16	E18
Per dozen	$19 20	21.00

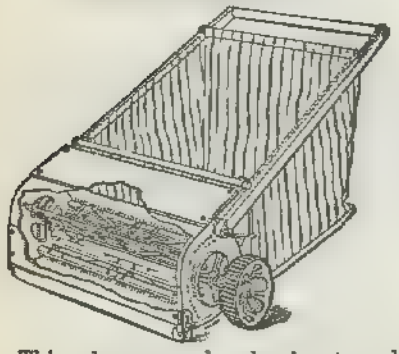
NO. E16—ONE DOZEN IN A CASE
NO. E18—HALF DOZEN IN A BUNDLE

EXTRA GRASS COLLECTOR HOOKS

Nos.	1H	2H	3H
For grass collectors	E1	E2	E3
Per dozen pairs	$1.50	1.50	1.50
Nos.	**16H**	**18H**	
For grass collectors	E16	E18	
Per dozen	$1.50	1.50	

W'T PER DOZEN PAIRS ONE POUND

PENNSYLVANIA LAWN CLEANER AND RAKE



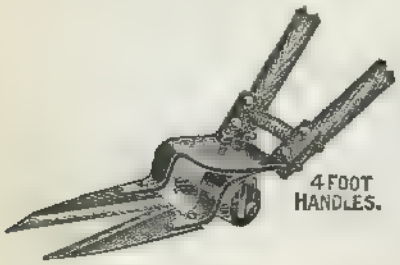
This cleaner and rake is strongly built, it has a revolving reel to which is fastened three rakes with short steel wire teeth, an adjustable roller in front for regulating height, a large canvas box for catching leaves and rubbish.

This machine will remove the cut grass, all sorts of leaves, litter and trash, its use has a benefical result to the lawn as it raises up the low growing crab grass and other spreading weeds, so that the mower will cut them, thus preventing their going to seed. Very easy to operate, and with it one man will do as much work as three men with hand rakes.

Nos.	E24	E36
Sizes, in.	24	36
W't, each, lbs.	80	125
Each	$47.30	67.70

ONE IN A CRATE

LAWN TRIMMERS



For trimming around trees and walks where lawn mower cannot be used.

No. 2—Pierce Improved, malleable iron castings, shears of best quality steel, aluminum bronzed finish, 7 in. blade, ball bearing, 4 ft. handle, w't per doz. 75 lbs. ...per dozen **$40.00**

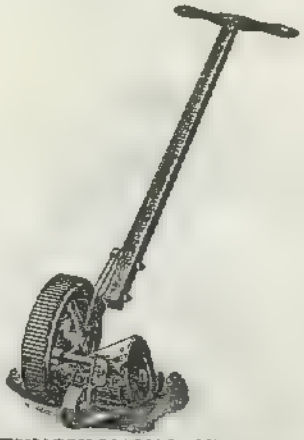
QUARTER DOZEN IN A BOX

LAWN TRIMMERS

This machine will cut within ¾ of an inch of wall or tree trunk and mow any border wide enough to run one wheel on.

No. E4—Pennsylvania, crucible steel teeth in both cylinder and stationary blades, self-sharpening, 8 in. wheel, 6 in. blade, ball bearings with Pennsylvania adjustments, bronzed finish, nicely trimmed, hardwood handle with cross-bar, 3 blades, w't 27 lbs. .....each **$16.80**

ONE IN A BOX



PENNSYLVANIA UNDERCUT

No. E5—9½ in. wheel, cuts 5½ in., four crucible steel blades, ball bearing, bronzed finish, nicely trimmed; hardwood handle with cross bar. The unique construction of the Undercut Trimmer with the slanting side plate and conical cylinder, permits cutting, not only close up to wall or fence, but it will cut the grass under a fence or rock cut base of tomb stones, house foundations, and other places hitherto out of reach of anything but hand shears; w't 32 lbs. .....each **18.00**

ONE IN A BOX

LAWN TRIMMERS

For trimming grass on edges next to walk. Leaves the walk neat and clean. Does not require a trench.

No. E6—Pines, 6 in. crucible steel polished blade, hardened and tempered, hard maple wood roller 2½x2 in., 42 in. wax finish ash handle, w't per doz. 42 lbs., per dozen **$24.00**

ONE IN A CASE

DUNHAM LAWN ROLLERS

Heavy Steel Plate Drum, Seams Electrically Welded; Outer Edges Rounded, Roller Bearings.

This style has patented "no tip" handle which locks the handle to the drum and holds it upright when not in use. All rollers have scrapers to remove dirt from rollers.

WATER WEIGHT

One Drum.

Nos.	W3B	W5B	W7B
W't, empty, lbs.	50	85	110
W't, filled with water, lbs.	200	310	500
Length, in.	20	24	24
Diam., in.	14	18	24
Each	$25.80	31.00	36.00

PONY WEIGHT

Two Drums.

No. W24—Drums each 35 in. wide, rolling surface 70½ in., diam. 23½ in., w't empty 372 lbs., w't filled with water 1405 lbs., w't filled with sand 2190 lbs. ..each **$140.00**

EXTRA PARTS FOR LAWN MOWERS

REPAIRS FOR [illegible] BARTLETT R. E. MOWERS

No. 43L—L. H. Side Plate, each $4.00
No. 44R—R. H. Side Plate, each $4.00
No. 1145—Drive Wheel, R. & L. H., each $3.00
No. 1104—Pinion, L. H., each $0.50
No. 1105—Pinion, R. H., each $0.50
No. 1106—Pawl ..... each $0.10
No. 1349—Ball Cup ..... each $0.60
No. 1350—Dust Cup ..... each $0.20
No. 1109—L. H. Cone ..... each $0.80
No. 1110—R. H. Cone ..... each $0.80
No. 1116—15 in. Cast Back for Stationary Knife ..... each $2.00
No. 1116—17 in. Cast Back for Stationary Knife ..... each $2.40
No. 1116—19 in. Cast Back for Stationary Knife ..... each $2.60
No. 1116—21 in. Cast Back for Stationary Knife ..... each $2.80
No. 1313—15 in. Steel Blade for Stationary Knife ..... each $1.50
No. 1313—17 in. Steel Blade for Stationary Knife ..... each $1.70
No. 1313—19 in. Steel Blade for Stationary knife ..... each $1.90
No. 1313—21 in. Steel Blade for Stationary knife ..... each $2.10
No. 1321—15 in. Wood Roller, each $1.00
No. 1321—17 in. Wood Roller, each $1.10
No. 1321—19 in. Wood Roller, each $1.20
No. 1321—21 in. Wood Roller, each $1.30
No. 118—L. H. Bracket Roller, each $0.30
No. 119—R. H. Bracket Roller, each $0.30
No. 1124—Steel Pin for Cone, each $0.10
No. 1125—Set Screw for Cone, each $0.10
No. 127—Set Screw for regulating Cast Back ..... each $0.10
No. 126—Set Screw for Stationary Knife Blade ..... each $0.10
No. 29—Bolt for Cast Back, each $0.10
No. 723—Bolt for Wheel Bearing, each $0.20
No. 1338—Washer for Wheel Bearing, each $0.10
No. 1133—Washer for Cast Back, each $0.10
No. 136—Nut for End Shaft, each $0.10
No. 1036A—Wrench ..... each $0.40
No. 1344—Sharpening Crank, each $0.20
No. 1351—Balls ..... per set $0.60
No. 137—Roller Pin, each $0.15
No. 1146—Washer for Wheel, each $0.10
No. 1147—Bolt for Wheel, each $0.20
Wood Handle ..... each $1.50

REPAIRS FOR [illegible] LAWN MOWERS

No. 56H or 560—Wheel, each $2.00
No. 655H or 65H—Side Plate, R. H. each $2.00
No. 666H or 66H—Side Plate, L. H., each $2.00
No. 15C—Pinion, R. H., each $0.25
No. 16C—Pinion, L. H., each $0.25
No. 614A or 614B—Cutter Bar complete $2.00
No. 616A or 616B—Cutter Bar complete $2.00
No. 618A or 618B—Cutter Bar complete $2.00
No. 620A or 620B—Cutter Bar complete $2.00
No. 10—Set Screw for regulating Cutter Bar ..... each $0.05
Flat Pawl, both alike, each $0.10
Wood Roller, all sizes, each $0.50
Wood Handle ..... each $1.60

REPAIRS FOR IL-A-NOY AND CRUSO LAWN MOWERS

No. 34 or 340—Wheel, each $1.60
No. 41 or 411—Side Plate, R. H., each $2.00
No. 42 or 422—Side Plate, L. H., each $2.00
No. 3—Pinion Cap ..... each $0.20
No. 5B—Pinion, R. H., each $0.25
No. 6B—Pinion, L. H., each $0.25
No. 614A or 614B—Cutter Bar complete $2.00
No. 616A or 616B—Cutter Bar complete $2.00
No. 618A or 618B—Cutter Bar complete $2.00
No. 620A or 620B—Cutter Bar complete $2.00

REPAIRS FOR IL-A-NOY AND CRUSO LAWN MOWERS. Continued—

Wheel Washer ..... each $0.10
Metallic Sleeve ..... each $0.30
No. 10—Set Screw for regulating Cutter Bar ..... each $0.05
Flat Pawls, both alike, each $0.10
Wood Roller, all sizes, each $0.50
Wood Handle ..... each $1.60

REPAIRS FOR SUBURB AND GLENCOE LAWN MOWERS

No. 34 or 340—Wheel, each $2.00
No. 31 or 311—Side Plate, R. H., each $1.60
No. 32 or 322—Side Plate, L. H. each $1.60
No. 3—Pinion Cap, ... each $0.15
No. 5B—Pinion, R. H., each $0.25
No. 6B—Pinion, L. H., each $0.25
No. 514A or 514B—Cutter Bar complete, Glencoe only, each $2.00
No. 516A or 516B—Cutter Bar complete, Glencoe only, each $2.00
No. 518A or 518B—Cutter Bar complete, Glencoe only, each $2.00
No. 614A or 614B—Cutter Bar complete, Suburb only, each $2.00
No. 616A or 616B—Cutter Bar complete, Suburb only, each $2.00
No. 618A or 618B—Cutter Bar complete, Suburb only, each $2.00
No. 10—Set Screw for regulating Cutter Bar ..... each $0.05
Flat Pawls, both alike, each $0.10
Wood Roller, all sizes, each $0.50
Wood Handle ..... each $1.60

REPAIRS FOR NEW DRUMMER

No. 20—Drive Wheel, each $1.60
No. 11 or 111—Side Plate, R. H., each $1.60
No. 12 or 122—Side Plate, L. H., each $2.25
No. 5B—Pinion, R. H. each $0.25
No. 6B—Pinion, L. H., each $0.25
No. 512A or 512B—Cutter Bar complete $2.00
No. 514A or 514B—Cutter Bar complete $2.00
No. 516A or 516B—Cutter Bar complete $2.00
No. 518A or 518B—Cutter Bar complete $2.00
Flat Pawls, both alike, each $0.10
Wood Rollers, all sizes, each $0.50
Wood Handle ..... each $1.60

ELECTRIC LIGHTING PLANTS

JUPITER

Specifications do not include Engines.

SYSTEM No. 13—110 VOLT

Battery. Sixty Faure type, 100 ampere hour, 11 plate Perfection, sealed in glass jar cells, dust proof. Size of plates 5x6 in.; continuous 8 hour discharge rate, 12½ amperes.

Generator. 3 K. W. 110-125 volt, 1700 R. P. M., 4 inch pulley.

Switchboard and Accessories. Type G, 30 ampere, 1 hydrometer testing outfit.

CAPACITY—

Battery. 1500 watts for 8 hours continuously or 75, 20 watt lamps. 2400 watts for 5 hours continuously or 120, 20 watt lamps.

Generator. 3000 watts continuously or 150, 20 watt lamps.

Battery and Generator Combined. 4500 watts for 8 hours continuously or 225, 20 watt lamps. Maximum capacity of battery on 72 hour intermittent discharge 16000 watt hours.

Engine. Requires a 5 H. P. engine. See general description.

	Each
No. 13—Complete plants (less engine)	*$1225 00* ✣2481 00
No. 13G—Generator only	*290 00* ✣ 630 00

Shipping weight 1980 lbs.

SYSTEM No. 14—110 VOLT

Battery. Sixty Faure type, 160 ampere hour 9 plate Perfection, sealed in glass jar cells, dust proof. Size of plates 7¾x7¾ in.; continuous 8 hour discharge rate, 20 amperes.

Generator. 6 K. W. 110 volt, 1400 R. P. M. 6 inch pulley.

Switchboard and Accessories. Type G, 60 ampere, 1 hydrometer testing outfit.

CAPACITY—

Battery. 2400 watts for 8 hours continuously or 120, 20 watt lamps, 3840 watts for 5 hours continuously or 192, 20 watt lamps.

Generator. 6000 watts continuously or 300, 20 watt lamps.

Battery and Generator Combined. 8400 watts for 8 hours continuously or 420, 20 watt lamps. Maximum capacity of battery on 72 hour intermittent discharge 25600 hours.

Engine. Requires a 10 H. P. engine. See general description.

	Each
No. 14—Complete plant (less engine)	*$2000 00* ✣4050 00
No. 14G—Generator only	*460 00* ✣ 931 50

Shipping weight 2870 lbs.

SYSTEM No. 15—110 VOLTS

Battery. Sixty Faure type, 200 ampere hour 11 plate Perfection, sealed in glass jar cells, dust proof. Size of plates 7¾x7¾ in.; continuous 8 hour discharge rate, 25 amperes.

Generator. 7½ K. W. 110-125 volt, 1400 R. P. M. 7 inch pulley.

Switchboard and Accessories. Type G, 60 ampere, 1 hydrometer testing outfit.

CAPACITY—

Battery. 3000 watts for 8 hours continuously or 150, 20 watt lamps. 4800 watts for 5 hours continuously or 240, 20 watt lamps.

Generator. 7500 watts continuously or 375, 20 watt lamps.

Battery and Generator Combined. 10500 watts for 8 hours continuously or 525, 20 watt lamps. Maximum capacity of battery on 72 hour intermittent discharge 32000 watt hours.

Engine. Requires a 12 H. P. engine. See general description.

	Each
No. 15—Complete plant (less engine)	*$2400 00* ✣4860 00
No. 15G—Generator only	*470 00* ✣ 951 75

Shipping weight 4025 lbs.

✣F. O. B. Illinois Factory Only.

ELECTRIC LIGHTING PLANTS

JUPITER

Specifications do not include Engines.

SYSTEM No. 16—110 VOLTS

Battery. Sixty Faure type, 320 ampere hour, 11 plate Perfection, sealed in glass jar cells, dust proof. Size of plates 7¾x7¾ in.; continuous 8 hour discharge rate, 40 amperes.

Generator. 10 K. W. 110-125 volt, 1400 R. P. M. 7 inch pulley.

Switchboard and Accessories. Type G, 60 ampere, 1 hydrometer testing outfit.

CAPACITY—

Battery. 4400 watts for 8 hours continuously or 220, 20 watt lamps, 7040 watts for 5 hours continuously or 352, 20 watt lamps.

Generator. 10000 watts continuously or 500, 20 watt lamps.

Battery and Generator Combined. 14400 watts for 8 hours continuously for 720, 20 watt lamps. Maximum capacity of battery on 72 hour intermittent discharge 45700 watt hours.

Engine. Requires a 16 H. P. engine. See general description.

	Each
No. 16—Complete plant (less engine)	*$3800 00* ✣6682 50
No. 16G—Generator only	*575 00* ✣1164 75

Shipping weight 9500 lbs.

ELECTRICAL WIRES

National Code Standard.

SINGLE CONDUCTOR WIRE

Rubber Covered, National 1911 New Code Standard.

Rubber Covered Wire, National 1911 New Code Standard is made to conform to the latest specifications of the National Board of Fire Underwriters, and MUST be used wherever the wiring is done under the inspection of this Board, or a local board of Fire Underwriters.

The quality of this wire is such as to make it an absolute standard for interior wiring and to give the best possible fire protection. Each foot is carefully inspected in the various stages of manufacture and, when completed, is finally inspected by an authorized representative of the National Board of Fire Underwriters.

Single Braid; Solid Wire.

Nos.	14SBRC	12SBRC	10SBRC	8SBRC	6SBRC
Size (B. & S.)	14	12	10	8	6
Approx. diam. over all, in.	11/64	14/64	18/64	17/64	21/64
Weight per 1000 feet, lbs.	33	43	57	83	128
List Per 1000 Feet	*$9 75*	*12 55*	*17 35*	*24 27*	*33 27*
Per 1000 Feet					

Prices on application

Double Braid; Solid Wire.

Nos.	14DBRC	12DBRC	10DBRC	8DBRC	6DBRC
Size (B. & S.)	14	12	10	8	6
Approx. diam. over all, in.	13/64	17/64	21/64	29/64	31/64
Weight per 1000 feet, lbs.	41	53	69	97	128
List Per 1000 Feet	*$12 35*	*14 80*	*19 95*	*27 10*	*33 27*
Per 1000 Feet					

Prices on application.

In coils of 500 feet.

✣F. O. B. Illinois Factory Only.

ELECTRIC LIGHTING PLANTS

JUPITER

Specifications do not include Engines.

SYSTEM No. 4—30 VOLT

Battery. Sixteen Faure type, 100 ampere hour, 11 plate Perfection, sealed in glass jar cells, dust proof. Size of plates 5x6 in.; continuous 8 hour discharge rate, 12½ amperes.

Generator. 20 ampere, 30-40 volt, 1800 R. P. M. ball-bearing, 4 inch pulley.

Switchboard and Accessories. Type FN, 30 ampere, 1 hydrometer testing outfit.

CAPACITY—

Battery. 400 watts for 8 hours continuously or 20, 20 watt lamps. 640 watts for 5 hours continuously or 32, 20 watt lamps.

Generator. 720 watts continuously or 35, 20 watt lamps.

Battery and Generator Combined. 1120 watts for 8 hours continuously or 55, 20 watt lamps. Maximum capacity of battery on 72 hour intermittent discharge, 4150 watt hours.

Engine. Requires a 2 H. P. engine. See general description.

		Each
No. 4—Complete plant (less engine)	*$425 00*	✦861 00
No. 4G Generator only	*150 00*	✦324 00

Shipping weight 720 lbs.

SYSTEM No. 5—30 VOLT

Battery. Sixteen Faure type, 120 ampere hour, 13 plate Perfection, sealed in glass jar cells, dust proof. Size 5x6 in.; continuous 8 hour discharge rate, 15 amperes.

Generator. 20 ampere, 30-40 volt, 1800 R. P. M. ball-bearing 4 inch pulley.

Switchboard and Accessories. Type FN, 30 ampere, 1 hydrometer testing outfit.

CAPACITY—

Battery. 480 watts for 8 hours continuously or 24, 20 watt lamps 760 watts for 5 hours continuously or 38, 20 watt lamps.

Generator. 720 watts continuously or 35, 20 watt lamps.

Battery and Generator Combined. 1200 watts for 8 hours or 59, 20 watt lamps. Maximum capacity of battery on 72 hour intermittent discharge, 5000 watt hours.

Engine—Requires a 2 H. P. engine. See general description.

		Each
No. 5—Complete plant (less engine)	*$450 00*	✦911 25
No. 5G—Generator only	*150 00*	✦324 00

Shipping weight 800 lbs.

SYSTEM No. 8—30 VOLT

Battery. Sixteen Faure type, 200 ampere hour, 11 plate Perfection, sealed in glass jar cells, dust proof. Size plates 7¾x7¾ in.; continuous 8 hour discharge rate, 25 amperes.

Generator. 30 ampere, 30-40 volt, 1900 R. P. M. ball-bearing, 4 inch pulley.

Switchboard and Accessories. Type FN, 30 ampere, 1 hydrometer testing outfit.

CAPACITY—

Battery. 800 watts for 8 hours continuously or 40, 20 watt lamps, 1280 watts for 5 hours continuously or 64, 20 watt lamps.

Generator. 1080 watts continuously or 54, 20 watt lamps.

Battery and Generator Combined. 1880 watts for 8 hours or 94, 20 watt lamps. Maximum capacity of battery on 72 hour intermittent discharge 8300 watt hours.

Engine. Requires a 3 H. P. engine. See general description.

		Each
No. 8—Complete plant (less engine)	*$750 00*	✦1520 25
No. 8G—Generator only	*185 00*	✦ 399 75

Shipping weight 1480 lbs.

✦F. O. B. Illinois Factory Only.

ELECTRIC LIGHTING PLANTS

JUPITER

Specifications do not include Engines.

SYSTEM No. 5T—30 VOLT

Battery. Sixteen Faure type, 160 ampere hour, 11 plate Perfection, sealed in glass jar cells, dust proof. Size of plates 4⅜x8¾ in., continuous 8 hour discharge rate, 20 amperes.

Generator. 25 ampere, 30-40 volt, 1400 R. P. M. ball-bearing, 4 inch pulley.

Switchboard and Accessories. Type FN, 30 ampere, 1 hydrometer testing outfit.

CAPACITY—

Battery. 615 watts for 8 hours continuously or 30, 20 watt lamps. 1025 watts for 5 hours continuously or 51, 20 watt lamps.

Generator. 1240 watts continuously or 62, 20 watt lamps.

Battery and Generator Combined. 1735 watts for 8 hours continuously or 86, 20 watt lamps. Maximum capacity of battery on 72 hour intermittent discharge, 6650 watt hours.

Engine. Requires a 3 H. P. engine. See general description.

		Each
No. 5T—Complete plant (less engine)	*$800 00*	✦1215 00
No. 5TG—Generator only	*185 00*	✦ 399 75

Shipping weight 1200 lbs.

SYSTEM No. 5U—30 VOLT

Battery. Sixteen Faure type, 180 ampere hour, 11 plate Perfection, sealed in glass jar cells, dust proof. Size of plates 4⅜x8¾ in.; continuous 8 hour discharge, rate 22½ amperes.

Generator. 25 ampere, 30-40 volt, 1400 R. P. M. ball-bearing, 4 inch pulley.

Switchboard and Accessories. Type FN, 30 ampere, 1 hydrometer testing outfit.

CAPACITY—

Battery. 720 watts for 8 hours continuously or 36, 20 watt lamps, 1150 watts for 5 hours continuously or 57, 20 watt lamps.

Generator. 1240 watts continuously or 62, 20 watt lamps.

Battery and Generator Combined. 1840 watts for 8 hours continuously for 90, 20 watt lamps. Maximum capacity of battery on 72 hour intermittent discharge, 73, 90 watt hours.

Engine. Requires a 3 H. P. engine. See general description.

		Each
No. 5U Complete plant (less engine)	*$825 00*	✦1266 00
No. 5UG—Generator only	*185 00*	✦ 399 75

Shipping weight 1300 lbs.

60 VOLT SYSTEMS

These systems are recommended when the distance from the plant to lamps ranges from 250 to 500 feet.

SYSTEM No. 6—60 VOLT

Battery. Thirty-two Faure type, 80 ampere hour, 9 plate Perfection, sealed in glass jar cells, dust proof. Size of plates 5x6 in.; continuous 8 hour discharge rate, 10 amperes.

Generator. 15 amperes, 60-80 volt, 2000 R. P. M. ball-bearing, 4 inch pulley.

Switchboard and Accessories. Type FN, 30 ampere, 1 hydrometer testing outfit.

CAPACITY—

Battery. 720 watts for 8 hours continuously or 36, 20 watt lamps. 1150 watts for 5 hours continuously or 57, 20 watt lamps.

Generator. 1080 watts continuously or 54, 20 watt lamps.

Battery and Generator Combined. 1720 watts for 8 hours continuously or 90, 20 watt lamps. Maximum capacity of battery on 72 hour intermittent discharge 7488 watt hours.

Engine. Requires a 2 to 2½ H. P. engine. See general description.

		Each
No. 6—Complete plant (less engine)	*$635 00*	✦1266 00
No. 6G—Generator only	*180 00*	✦ 414 00

Shipping weight 1160 lbs.

✦F. O. B. Illinois Factory Only.

(Continued on next page).

ELECTRIC LIGHTING PLANTS

Illustrations below show a few Applications of Electricity to the Common Needs of the Country Home.

Lighting Outfit in a Country Home.

Ironing.

Electric portable lamp as compared with old style dirty oil lamp.

Vacuum Sweeping.

Washing.

Illumination.

Churning.

Jupiter Electric Lighting Plants consist essentially of an Engine (Gasoline or Kerosene), a Dynamo, a Switch Board and a Perfection Storage Battery. These plants are designed and built especially for people who have no knowledge of electricity. Detailed explanations and directions accompany every piece of apparatus, so that any man with ordinary mechanical intelligence can set up and operate any of these plants, small or large.

Jupiter plants are simple, economical and efficient, and are giving perfect satisfaction. They are built in several sizes and in a variety of combinations. In order that every plant sold may be perfectly adapted to the conditions under which it is to be operated, salesmen and prospective customers should send us with their orders the following data:

(Continued on next page)

ELECTRIC LIGHTING PLANTS

JUPITER

Specifications do not include Engines.

SYSTEM No. 7—60 VOLT

Battery. Thirty-two Faure type, 100 ampere hour, 11 plate Perfection, sealed in glass jar cells, dust proof. Size of plates 5x6 in.; continuous 8 hour discharge rate, 12½ amperes.

Generator. 15 ampere, 60-80 volt, 2000 R. P. M. ball-bearing, 4 inch pulley.

Switchboard and Accessories. Type FN, 30 ampere, 1 hydrometer testing outfit.

CAPACITY—

Battery. 800 watts for 8 hours continuously or 40, 20 watt lamps. 1280 watts for 5 hours continuously or 64, 20 watt lamps.

Generator. 1080 watt continuously or 54, 20 watt lamps.

Battery and Generator Combined. 1800 watts for 8 hours continuously or 94, 20 watt lamps. Maximum capacity of battery on 72 hour intermittent discharge 8300 watt hours.

Engine. Requires a 2 to 2½ H. P. engine. See general description.

	Each	
No. 7—Complete plant (less engine)	*$700 00*	**+1417 50**
No. 7G—Generator only	*190 00*	**+ 411 00**

Shipping weight 1320 lbs.

SYSTEM No. 8—60 VOLT

Battery. Thirty-two Faure type, 120 ampere hour, 13 plate Perfection, sealed in glass jar cells, dust proof. Size of plates 5x6 in.; continuous 8 hour discharge rate, 15 amperes.

Generator. 25 ampere, 60-80 volt, 2000 R. P. M. bronze sleeve bearing, 4 inch pulley.

Switchboard and Accessories. Type FN, 30 ampere, 1 hydrometer testing outfit.

CAPACITY—

Battery. 1080 watts for 8 hours continuously or 54, 20 watt lamps. 1730 watts for 5 hours continuously or 86, 20 watt lamps.

Generator. 1800 watts for 8 hours continuously or 90, 20 watt lamps.

Battery and Generator Combined. 2800 watts for 8 hours continuously or 144, 20 watt lamps. Maximum capacity of battery on 72 hour intermittent discharge 11200 watt hours.

Engine. Requires a 3 H. P. engine. See general description.

	Each	
No. 8—Complete plant (less engine)	*$745 00*	**+1465 50**
No. 8G—Generator only	*200 00*	**+ 432 00**

Shipping weight 1570 lbs.

SYSTEM No. 9—60 VOLT

Battery. Thirty-two Faure type, 160 ampere hour, 9 plate Perfection, sealed in glass jar cells, dust proof. Size of plates 7¼x7¾ in.; continuous 8 hour discharge rate, 20 amperes.

Generator. 25 ampere, 60-80 volt, 2000 R. P. M. bronze bearing, 4 inch pulley.

Switchboard and Accessories. Type FN, 30 ampere, 60 volt, 1 hydrometer testing outfit.

CAPACITY—

Battery. 1400 watts for 8 hours continuously or 72, 20 watt lamps. 2300 watts for 5 hours continuously or 115, 20 watt lamps.

Generator. 1800 watts continuously or 90, 20 watt lamps.

Battery and Generator Combined. 3240 watts for 8 hours continuously or 162, 20 watt lamps. Maximum capacity of battery on 72 hour intermittent discharge 15976 watt hours.

Engine. Requires a 3 H. P. engine. See general description.

	Each	
No. 9—Complete plant (less engine)	*$880 00*	**+1741 50**
No. 9G—Generator only	*200 00*	**+ 432 00**

Shipping weight 2115 lbs.

+F. O. B. Illinois Factory Only.

ELECTRIC LIGHTING PLANTS

JUPITER

Specifications do not include Engines.

SYSTEM No. 10—60 VOLT

Battery. Thirty-two Faure type, 200 ampere hour, 11 plate Perfection, sealed in glass jar cells, dust proof. Size of plates 7¾x7¾ in.; continuous 8 hour discharge rate, 25 amperes.

Generator. 30 ampere, 60-80 volt, 2000 R. P. M. 4 inch pulley.

Switchboard and Accessories. Type FN, 30 ampere, 60 volt, 1 hydrometer testing outfit.

CAPACITY—

Battery. 1800 watts for 8 hours continuously or 90, 20 watt lamps. 2800 watts for 5 hours continuously or 140, 20 watt lamps.

Generator. 2160 watts continuously or 108, 20 watt lamps.

Battery and Generator Combined. 3960 watts for 8 hours continuously or 198, 20 watt lamps. Maximum capacity of battery on 72 hour intermittent discharge 18720 watt hours.

Engine. Requires a 4 H. P. engine. See general description.

	Each	
No. 10—Complete plant (less engine)	*$1100 00*	**+2227 50**
No. 10G—Generator only	*290 00*	**+ 626 40**

Shipping weight 2465 lbs.

110 VOLT SYSTEMS

These systems are recommended where the distance from plant to lamps exceeds 500 feet.

SYSTEM No. 11—110 VOLT

Battery—Sixty Faure type, 60 ampere hour, 7 plate Perfection, sealed in glass jar cells, dust proof. Size of plates 5x6 in.; continuous 8 hour discharge rate, 7½ amperes.

Generator. 2 K. W. 110-125 volt, 2000 R. P. M. 4 inch pulley.

Switchboard and Accessories. Type G, 30 ampere, 1 hydrometer testing outfit.

CAPACITY—

Battery. 900 watts for 8 hours continuously or 45, 20 watt lamps, 1440 watts for 5 hours continuously or 72, 20 watt lamps.

Generator. 2000 watts continuously or 100, 20 watt lamps.

Battery and Generator Combined. 2900 watts for 8 hours or 145, 20 watts lamp. Maximum capacity of battery on 72 hour intermittent discharge 9360 watt hours.

Engine. Requires a 4 H. P. engine. See general description.

	Each	
No. 11—Complete plant (less engine)	*$950 00*	**+1923 75**
No. 11G—Generator only	*200 00*	**+ 432 60**

Shipping weight 1450 lbs.

SYSTEM No. 12—110 VOLT

Battery. Sixty Faure type, 80 ampere hour, 9 plate Perfection, sealed in glass jar cells, dust proof. Size of plates 6x6 in.; continuous 8 hour discharge rate, 10 amperes.

Generator. 3 K. W. 110-125 volt, 1700 R. P. M. 4 inch pulley.

Switchboard and Accessories. Type G, 30 ampere, 1 hydrometer testing outfit.

CAPACITY—

Battery. 1200 watts for 8 hours continuously or 60, 20 watt lamps. 1920 watts for 5 hours continuously or 96, 20 watt lamps.

Generator. 3000 watts continuously or 150, 20 watt lamps.

Battery and Generator Combined. 4200 watts for 8 hours continuously or 210, 20 watt lamps. Maximum capacity of battery on 72 hour intermittent discharge 12800 watt hours.

Engine. Requires a 5 H. P. engine. See general description.

	Each	
No. 12—Complete plant (less engine)	*$1100 00*	**+2227 50**
No. 12G—Generator only	*290 00*	**+ 626 40**

Shipping weight 1695 lbs.

+F. O. B. Illinois Factory Only.

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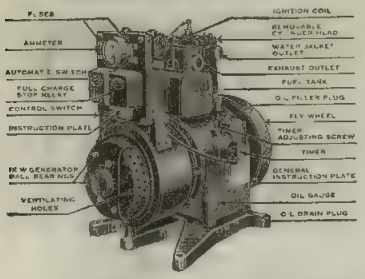
ELECTRIC LIGHTING PLANTS

PERFECTION



Engine. 3¼ inch bore x 3¼ inch stroke, rating 3½ H. P. normal speed 1150 R. P. M., water cooled, L type motor governed electrically, all castings of highest grade semi-steel.

Piston. Semi-steel, with 3 high-grade piston rings, insuring perfect compression. Hollow ground piston. Drop forged connecting rod with high-grade die cast babbitt bearing.

Crank Shaft. Large drop forged steel connecting rod of extra length, which insures smooth running and minimizes vibration. The crank shaft is accurately counter balanced and supported in extra long bearings.

Cam Shaft. The cam shaft is large and massive and cast in one piece.

Gears. The time gears are made of hardened steel, one being integral with the cam shaft; cut in helical form to insure absolute quietness and long wearing qualities.

Carburetor. The carburetor used is designed especially for this engine; efficiency is very high on either gasoline, kerosene or alcohol.

The carburetor draws its air through crank case and maintains a slight vacuum in crank case, preventing leakage of oil through bearings, also eliminates bad smelling fumes from crank case.

Lubrication. Splash system. Only one place to oil.

Fuel Supply. Fuel tank supported on crank case arranged for suction feed to carburetor, which meets the requirements of the board of underwriters.

Cooling System. Thermo Syphon water cooled.

Ignition. 32-volt jump spark.

ELECTRICAL SPECIFICATIONS

Generator. 1150 R. P. M. normal speed, ball-bearing, guaranteed against defective workmanship and material for 1 year. Form wound armature coils, large commutator. Generator direct connected to crank shaft, eliminating belt losses. Wound for shunt operation while charging and compound with high torque for starting.

(Continued In Next Column)

ELECTRIC LIGHTING PLANTS

PERFECTION

Switchboard. Switchboard is bolted to top of generator. The board is made of slate, which is a material approved by the board of underwriters, equipped as follows:

Zero center ammeter registering charge and discharge of battery.

Automatic cut-in and cut-out switch, for generator circuit.

Automatic engine stop relay, to stop engine when battery is fully charged, or being charged at a high injurious rate.

Combination engine cranking and ignition switch. Generator and light fuses.

Battery. Perfection sealed-in type, high efficiency. Guaranteed for two years. Sizes and capacities as shown in table.

Closing starting switch starts engine electrically. When generator gets up to speed, battery charges automatically. Opening switch stops engine. High starting torque enabling engine to be cranked electrically while battery is in low state of charge.

Automatic electric stop positively stops engine when battery is fully charged. Also stops engine if battery is charged at a high injurious rate.

In case battery is discharged too low to crank engine electrically, battery spark is available for cranking engine by hand.

Engine will charge battery and supply current for lighting and motors, and deliver belt power at same time.

If most of engine capacity is required for belt power, electric load may be reduced to a few amperes, and 80 per cent of engine capacity delivered in the form of belt power.

In case battery wire should come loose or break, engine will not run away, as is the case with some other makes of plants, but will stop immediately.

Compare these features with those of any other make of plant.

Generating Unit for Following Systems, 32 Volts, 30 Amperes, Capacity Fifty 20 Watt Lamps. 1,200 Watts.

Complete with Water Tank Battery.

Nos.	Battery Capacity 8 Hour Rate		72 Hour Intermittant Rate		Combined Capacity Battery and Gen. 6 Hours	Approximate Shipping Weight, Pounds	Each
	Amp. Hours	Capacity 20-Watt Lamps	Amp. Hours	Cap. 20 Watt 16 C. P. Lamps			
SA-1	80	16	112	22	66	960	*$635 00* +1503 75
SA-2	100	20	140	28	70	1060	*675 00* +1549 50
SA-3	120	24	168	34	74	1120	*695 00* +1595 25
SA-4	160	32	222	45	82	1350	*790 00* +1813 50
SA-5	200	40	280	56	90	1580	*860 00* +1974 00
SA-6	40	16	56	22	66	1150	*780 00* +1790 25
SA-7	60	24	84	34	74	1220	*810 00* +1859 25
SA-8	80	32	112	45	82	1400	*845 00* +1939 50
SA-9	100	40	140	56	90	1550	*880 00* +2019 75
SA-10	40	40	56	42	80	1950	*980 00* +2249 25
SA-11	60	45	84	63	95	2000	*1050 00* +2409 75
SA-12	80	60	112	84	110	2400	*1100 00* +2524 50

Each

No. SA—Generating unit only, consisting of engine, dynamo and switchboard. Capacity 32-40 volts, 30 ampere; weight 500 lbs..... *$475 00* +1090 50

(Continued On Next Page.)

+F. O. B. Illinois Factory Only.

ELECTRIC LIGHTING PLANTS

PERFECTION

Generating Unit for Following Systems, 32 Volts, 30 Amperes. Capacity Fifty 20 Watt Lamps. 1500 Watts.

Complete With Radiator and Battery.

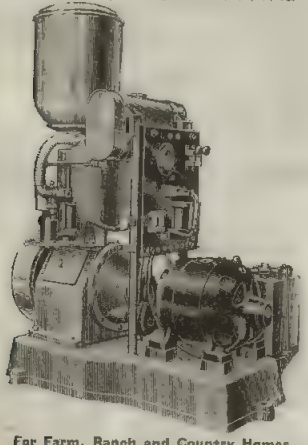
Nos.	Battery Capacity 8 Hour Rate Amp. Hours	Cap. 20-Watt Lamps	72 Hour Intermittant Rate Amp. Hours	Cap. 20 Watt and 16 C. P. Lamps	Cookin'd Capacity Battery and Gen. 8 Hours	Approximate Shipping Weight, Pounds	Each	
SAR-1	80	16	112	22	66	960	$725 00	✚1664 25
SAR-2	100	20	140	28	70	1060	755 00	✚1733 25
SAR-3	120	24	168	34	74	1120	795 00	✚1824 75
SAR-4	160	32	222	45	82	1350	825 00	✚1947 75
SAR-5	200	40	280	56	90	1580	950 00	✚2180 25
SAR-6	40	16	56	22	66	1150	800 00	✚1836 00
SAR-7	60	24	84	34	74	1220	825 00	✚1893 75
SAR-8	80	32	112	45	82	1400	900 00	✚2064 00
SAR-9	100	40	140	56	90	1550	975 00	✚2184 00
SAR-10	40	30	56	42	80	1950	1050 00	✚2409 75
SAR-11	60	45	84	63	96	2000	1100 00	✚2524 50
SAR-12	80	60	112	84	110	2400	1150 00	✚2639 25

No. SAR—Generating unit only, consisting of engine, dynamo and switchboard. Capacity 32-40 volts, 30 ampere; weight 500 lbs. Each $575 00, ✚1320 00

No. 5AC Generating unit only, consisting of engine, dynamo and switchboard. Capacity 110 or 220 volts, A. C.; 5 K. W.; weight 700 lbs. 1300 00, ✚2983 50

No. 15AC—Generating unit only, consisting of engine, dynamo and switchboard. Capacity 110 or 220 volts, A. C.; 15 K. W.; weight 850 lbs. 2400 00, ✚3569 19

HOLT, 110 Volt Direct Current.



For Farm, Ranch and Country Homes.

110 volt Direct current standard equipment burns lights directly off generator. Uses no storage battery except small six volt battery for starting.

Simple, sturdy and strong. Built for a long life and continuous service. Will furnish power for thirty 110 volt lights of 25 watt capacity or thirty seven 20 watt lamps, or supplying current for ironing, washing, cleaning, operating water systems, etc.

✚F. O. B. Illinois Factory Only.

ELECTRIC LIGHTING PLANTS

HOLT, 110 Volt Direct Current.

The elimination of the storage batteries in the Holt allows it to deliver direct to the lights or other appliances every bit of the power created. Regardless of the number of lamps used up to the capacity of the plant, the flow of current is even, giving a steady white light at all times under all conditions.

The engine is controlled by a specially designed electric governor directly connected to the carburetor. In this way the voltage is maintained constantly and the light is without flicker. When additional lamps are turned on, the governor opens the carburetor to take care of the additional load. With this automatic governor, gasoline consumption is proportionate to the load, thus making the machine very economical.

Specifications.

Engine. Single cylinder, 4 cycle, 2¾ inch bore x 3 inch stroke, rating 1.7 H. P.; normal speed 1600 R. P. M., water cooled, valves in head, mounted in cages, built for heavy duty, continuous service and dependability.

Crank Shaft. Oversized and counter balanced.

Main Bearings. 1¼x4 inches; made of high speed babbitt.

Connecting Rod Bearings. 1¼x1.8 inches.

Oiling. Combined splash and force feed. Only one place to oil.

Ignition. Atwater-Kent "CC".

Carburetor. Schebler "AL"; special design for this plant.

Cooling. Water, by percolation with large surfaced copper tank "Radiator".

Fuel. Gasoline; supply for 8 hour at full load.

Coupling. Silent; of special design.

Generator. 750 watt capacity General Electric; duplex wound; 7 volt for charging battery; 110 volt for lighting and power.

Engine Starter. Included in generator winding.

Battery. None in lighting circuit; Columbia 3 cell 80 ampere hour for starting only.

Governor. Electro magnetic; designed especially for this plant.

Control Board. Holt semi-automatic and mounts voltmeter, main switch, fuses, battery protective device and automatic 6 volt switch. Mounted on two vertical standards. Complete plant assembled on substantial iron base.

Control. Plant may be started or stopped from any one of three different points by means of snap or push switches. It is not necessary to go to the engine in order to start or stop it.

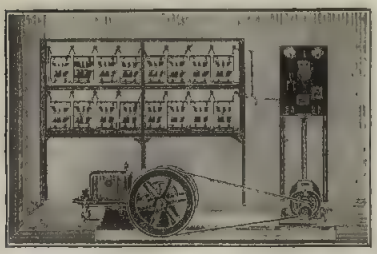
	Each
No. H-110-PC 110 volt Direct current, 750 watt capacity	$490 00, ✚1170 00

Shipping weight each, about 685 lbs.

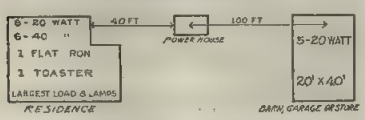
✚F. O. B. Michigan Factory Only.

ELECTRIC LIGHTING PLANTS

JUPITER



1st—A sketch similar to the one below, showing the relative positions of the power plant and the buildings to be lighted, with the distance between them indicated.



2nd—The number of lamps of each size (wattage) to be wired in each building.

3rd—The maximum number of lamps that will be burned at any one time in each building.

4th—If a pump, washing machine, feed cutter, sewing machine, flat iron or other piece of electrical apparatus is to be operated, specify it.

5th—If the purchaser already has a engine, give us the make and speed of engine and diameter and face of hte flywheel.

The above data will enable us to make what-ever corrections may be necessary in the order, to advise the customer as to sizes of wire to be used between the power plant and the various buildings and to give him whatever information may be needed in addition to that accompanying the apparatus.

All of the plants listed are rated in terms of 20 watt, 16 candle power lamps. This standard has been adopted by nearly all the manufacturers of domestic lighting plants. 20 watt lamps are too small for most purposes where good illumination of a whole room is desired. 40 watt lamps are commonly used in homes that are supplied with current from municipal plants. In order to determine the capacity in 40 watt lamps of any of the plants listed, divide the listed capacity in 20 watt lamps by 2.

Selection of an Engine.

If lights are to be operated direct from the generator, an engine with **throttle governor must be used.** See Fuller and Johnson Engines, our Catalogue, page 438, and T. & M. Engines, page 434. If the lights are to be operated from battery only, a "hit and miss" governed engine may be used but we do not recommend it because of its varying speed. See Monarch Engines, pages 434 and 435.

ELECTRIC LIGHTING PLANTS

JUPITER

Specifications do not include Engines.

30 VOLT SYSTEMS

30 Volt systems are recommended when the distance from the plant to the lamps ranges from 60 to 250 feet.

SYSTEM NO. 1—30 VOLT

Battery. Sixteen Faure type, 40 ampere hour, 5 plate Perfection, sealed in glass jar cells, dust proof, size of plate 6x6 in.; continuous 8 hour discharge rate, 5 amperes.

Generator. 15 amperes 30-40 volt, 1850 R. P. M.; ball-bearing 4 inch pulley.

Switchboard and Accessories. Type FN. 30 ampere, 1 hydrometer testing outfit.

CAPACITY—

Battery. 160 watts for 8 hours continuously or 8, 20 watt lamps. 260 watts for 5 hours continuously or 13, 20 watt lamps.

Generator. 540 watts continuously or 27, 20 watt lamps.

Battery and Generator Combined. 700 watts for 8 hours, or 35-20 watt lamps. Maximum capacity of battery on 72 hour intermittent discharge 1840 watt hours.

Engine—Requires a 1½ to 2 H. P. engine. See general description.

		Each
No. 1—Complete plant (less engine)	*$340 00*	**+688 50**
No. 1G—Generator only	*140 00*	**+302 40**

Shipping weight 450 lbs.

SYSTEM NO. 2—30 VOLT

Battery—Sixteen Faure type, 60 ampere hour, 7 plate Perfection, sealed in glass jar cells, dust proof. Size of plates 5x6 in.; continuous 8 hour discharge rate, 7½ amperes.

Generator. 15 ampere, 30-40 volt, 1850 R. P. M. ball-bearing 4 inch pulley.

Switchboard and Accessories. Type FN, 30 ampere, 1 hydrometer testing outfit.

CAPACITY—

Battery. 240 watts for 8 hours continuously or 12, 20 watt lamps. 400 watts for 5 hours continuously or 20, 20 watt lamps.

Generator. 540 watts continuously or 27, 20 watt lamps.

Battery and Generator Combined. 780 watts for 8 hours or 39, 20 watt lamps. Maximum capacity of battery on 72 hour intermittent discharge, 27-20 watt hours.

Engine—Requires 1½ to 2 H. P. engine. See general description.

		Each
No. 2—Complete plant (less engine)	*$370 00*	**+749 25**
No. 2G—Generator only	*140 00*	**+302 40**

Shipping weight 530 lbs.

SYSTEM NO. 3—30 VOLT

Battery. Sixteen Faure type, 80 ampere hour, 9 plate Perfection, sealed in glass jar cells, dust proof. Size of plates 5x6 in.; continuous 8 hour discharge rate, 10 amperes.

Generator. 15 ampere, 30-40 volt, 1850 R. P. M. ball-bearing 4 inch pulley.

Switchboard and Accessories. Type FN, 30 ampere, 1 hydrometer testing outfit.

CAPACITY—

Battery. 320 watts for 8 hours continuously or 16, 20 watt lamps. 520 watts for 5 hours continuously or 26, 20 watt lamps.

Generator. 540 watts continuously or 27, 20 watt lamps.

Battery and Generator Combined. 860 watts for 8 hours or 43, 20 watt lamps. Maximum capacity of battery on 72 hour intermittent discharge, 3320 watt hours.

Engine—Requires a 1½ to 2 H. P. engine. See general description.

		Each
No. 3—Complete plant (less engine)	*$400 00*	**+810 00**
No. 3G—Generator only	*140 00*	**+302 40**

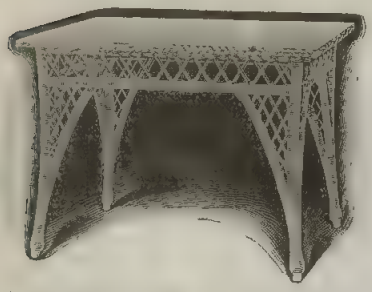
Shipping weight 610 lbs.

+F. O. B. Illinois Factory Only.

(Continued on next page.)

FIBRE FURNITURE

TABLE



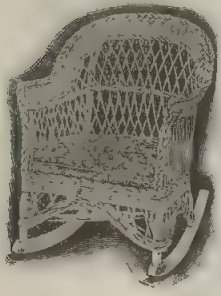
Oak top 24x36 inches; height 30 inches; legs covered with woven fibre

Each

No. BG03FT—Ivory enamel finish **$51 75**

Wrapped singly; shipping weight each 45 lbs.

ROCKERS



Selected fibre; loose springfilled cushion; upholstered in a beautiful pattern of extra quality cretonne, that will harmonize with any kind of furnishings.

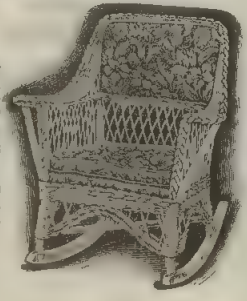
Width of seat 18 inches height of back 21 inches.

Each

No. 12BR—Frosted brown finish ...**$38 55**

No. 12FR Baronial brown finish **32 25**

Wrapped singly; shipping weight each 24 lbs.



Width of seat 17 inches; height of back 23 inches.

Each

No. 14BR Frosted brown finish.....**$41 25**

No. 14FR—Baronial brown finish..... **34 50**

Wrapped singly; shipping weight each 35 lbs.

FIBRE FURNITURE

Selected fibre; loose springfilled cushions; upholstered in a beautiful combination of black, green, blue and tan extra quality cretonne, that will harmonize with any kind of furnishings.

CHAIR

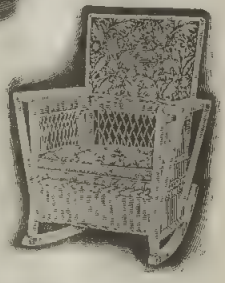
Width of seat 20 inches; height of back 27 inches.

Each

No. 02FC—Ivory enamel finish **$48 75**

Packed singly; shipping weight each 30 lbs.

ROCKER



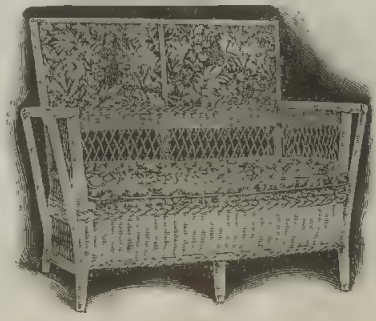
Width of seat 20 inches height of back 27 inches.

Each

No. 02FR Ivory enamel finish..**$48 75**

Packed singly; shipping weight each 30 lbs.

SETTEE



Length of seat 4 feet; height of back 27 inches.

Each

No. 02FS-4—Ivory enamel finish..... **$90 00**

Wrapped singly; shipping weight each 45 lbs

FIBRE FURNITURE

Selected fibre; loose springfilled cushions; upholstered in a beautiful combination of green, blue and rose extra quality tapestry, that will harmonize with any kind of furnishings.

CHAIR

Width of seat 19 inches; height of back 25 inches.

Each

No. 15BC—Frosted brown finish $82 50

Wrapped singly: shipping weight each 30 lbs.

ROCKER

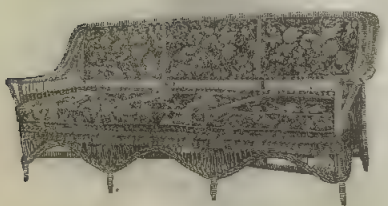
Width of seat 19 inches; height of back 25 inches.

Each

No. 15BR—Frosted brown finish $82 50

Wrapped singly; shipping weight each 35 lbs.

SETTEE



Length of seat 6 feet; height of back 25 inches.

Each

No. 15BS—Frosted brown finish $204 00

Wrapped singly; shipping weight each 46 lbs.

FIBRE FURNITURE

Selected fibre; loose springfilled cushions; upholstered in a beautiful combination of green, blue, and rose extra quality tapestry that will harmonize with any kind of furnishings.

CHAIR

Width of seat 19 inches; height of back 27 inches.

Each

No. 2BC—Frosted brown finish $57 00

No. 2FC Baronial brown finish 50 25

Wrapped singly; shipping weight each 30 lbs.

ROCKER

Width of seat 19 inches; height of back 27 inches.

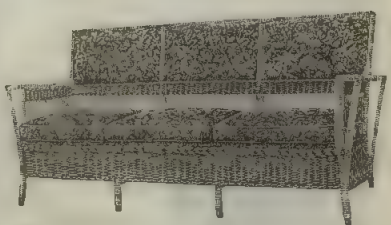
Each

No. 2BR Frosted brown finish $57 00

No. 2FR Baronial brown finish 50 25

Wrapped singly; shipping weight each 35 lbs.

SETTEE



Height of back 27 inches.

Each

No. 2BS-4—Frosted brown finish; length 4 ft $105 75

No. 2BS-6—Frosted brown finish; length 6 ft 181 50

No. 2FS-4—Baronial brown finish; length 4 ft 94 50

No. 2FS-6—Baronial brown finish; length 6 ft 165 00

Wrapped singly; shipping weight 4 ft. 46 lbs; 6 ft. 60 lbs.

FIBRE FURNITURE

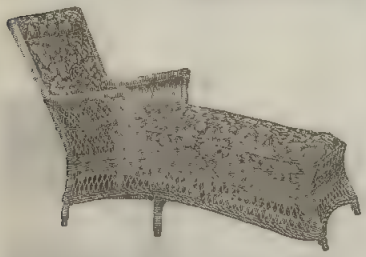
DAY BED

Selected fibre; double construction box spring cushion; upholstered in a beautiful combination of green, blue and rose extra quality tapestry, that will harmonize with any kind of furnishings. Width 30 inches; length 78 inches; height 26 inches.

		Each
No. 16BB	Frosted brown finish	$204 00
No. 16FB	Baronial brown finish	198 00

Wrapped singly; shipping weight each 90 lbs.

CHAISE LOUNGE



Selected fibre; loose springfilled cushion; upholstered in a beautiful combination of green, blue and rose extra quality tapestry, that will harmonize with any kind of furnishings. Width 19 inches; length 66 inches; height of back 27 inches.

		Each
No. BG8FL	Baronial brown finish	$115 50

Wrapped singly; shipping weight each 90 lbs.

Selected fibre; loose springfilled cushions; upholstered in a beautiful combination of green, blue and rose extra quality tapestry that will harmonize with any kind of furnishings.

ROCKER

Width of seat 20 inches; height of back 23 inches.

		Each
No. 2GFR	Baronial brown finish	$69 75

Wrapped singly; shipping weight each 32 lbs.

FIBRE FURNITURE

Selected fibre; loose springfilled cushions; upholstered in a beautiful combination of green, blue and rose extra quality tapestry that will harmonize with any kind of furnishings.

ROCKER

Width of seat 19 inches; height of back 26 inches.

		Each
No. 1FR	Baronial brown finish	$48 00

Wrapped singly; shipping weight each 30 lbs.

CHAIR

Width of seat 19 inches; height of back 30 inches.

		Each
No. BG8FC	Baronial brown finish	$61 50

Wrapped singly; shipping weight each 35 lbs

ROCKER

Width of seat 19 inches; height of back 30 inches.

		Each
No. BG8FR	Baronial brown finish	$61 50

Wrapped singly; shipping weight each 37 lbs.

FIBRE FURNITURE

Selected fibre; loose springfilled cushions; upholstered in a beautiful combination of green, blue and rose, extra quality tapestry that will harmonize with any kind of furnishings.

CHAIR

Width of seat 19 inches; height of back 24 inches.

Each

No. BG7FC Baronial brown finish.....$54 75

Wrapped singly; shipping weight 26 lbs.

ROCKER

Width of seat 19 inches; height of back 24 inches.

Each

No. BG7FR—Baronial brown finish.....$54 75

Wrapped singly, shipping weight 28 lbs.

ROCKER

Width of seat 20 inches; height of back 25 inches.

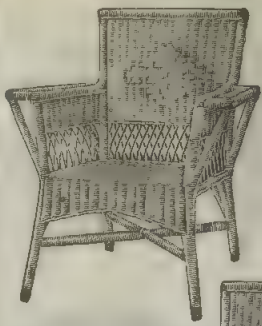
Each

No. BG4FR—Baronial brown finish.....$65 25

Wrapped singly; shipping wt. each 30 lbs.

FIBRE FURNITURE

—BLUE RIBBON—



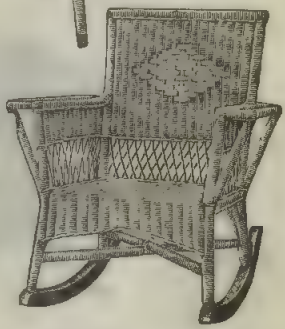
CHAIR

(Shown also on page 3138)

Each

No. BR2FC—Select fibre, baronial brown finish; wide arms; seat 20x20 ins.; height 33 inches.. $32 25

Wrapped singly; shipping weight each 22 lbs.



ROCKER

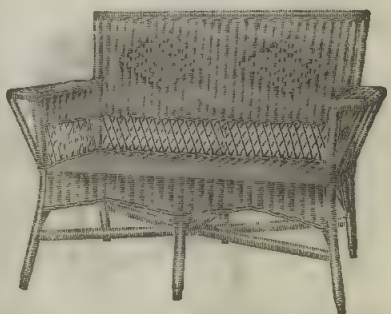
(Shown also on page 3138)

Each

No. BR2FR—Select fibre, baronial brown finish; wide arms; seat 20x20 ins.; ht. 33 ins..$32 25

Wrapped singly; shipping weight each 24 lbs

SETTEE



(Shown also on page 3138)

Each

No. BR2FS—Select fibre, baronial brown finish; wide arms; length 40 inches; height 33 inches.....$53 25

Wrapped singly; shipping weight each 34 lbs.

FIBRE FURNITURE

CHAIR

Made of select fibre, closely woven seat and back. Width seat 19 inches; height back from seat 21 inches.

Each

No. 5FC—Baronial brown finish . . . $36 30

Wrapped singly; shipping weight each 20 lbs.

ROCKER

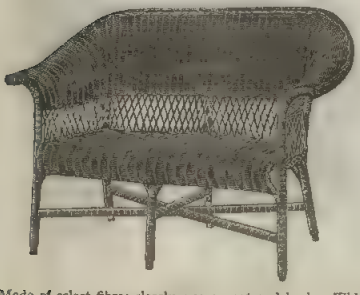
Made of select fibre; closely woven seat and back. Width seat 19 in.; height back from seat 21 inches.

Each

No. 5FR—Baronial brown finish . . . $36 30

Wrapped singly, shipping weight each 22 lbs.

SETTEE



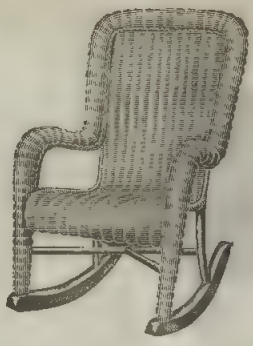
Made of select fibre; closely woven seat and back. Width seat 40 inches; height 34 inches.

Each

No. 5FS—Baronial brown finish $62 25

Wrapped singly; shipping weight each 36 lbs.

FIBRE ROCKERS



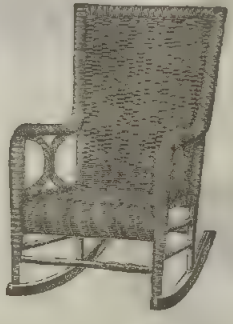
Hardwood frame; closely woven seat; back and arms. Width seat 20 inches; height back from seat 27 inches.

(Shown also on page 3137)

Each

No. 944RB—Baronial brown finish $20 70

One in a bundle; shipping weight each 16 lbs.



Hardwood frame; closely woven seat and arms, fancy open-work back. Width seat 20 inches; height back from seat 27 inches.

(Shown also on page 3139)

Each

No. 943RB Baronial brown finish $22 50

One in a bundle; shipping weight each 16 lbs.

FIBRE FURNITURE

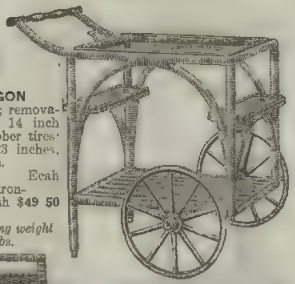
FERN STAND

Selected fibre; length 28 inches; width 12 inches; height 35 inches. Furnished with galvanized pan 24½ inches long, 7½ inches wide and 6½ inches deep.

Each

No. 13F—Baronial brown finish $25 50

Wrapped singly; shipping weight each 35 lbs.



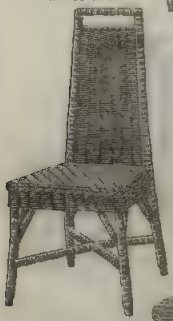
TEA WAGON

Selected fibre; removable glass tray; 14 inch wheels with rubber tires; size top 17x23 inches, height 31 inches.

Each

No. BG4FW—Baronial brown finish $49 50

Crated; shipping weight each 35 lbs.



BREAKFAST TABLE CHAIR

Hardwood frame; closely woven seat and back. Width seat 16 inches; height back from seat 19 inches.

Each

No. 392FC—Baronial brown finish $24 75

One in a bundle; shipping weight each 14 lbs

BREAKFAST TABLE

Legs are of hardwood, covered with woven fibre; quarter sawed oak top.

Each

No. 30FT—Baronial brown finish; diam. top 42 inches; height 30 ins. $65 25

Crated; shipping weight each 75 lbs.

FIBRE FURNITURE

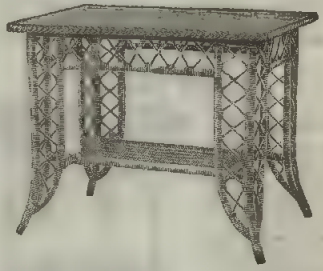
TABLES

Oak top 16x29 inches; height 28 inches; fibre shelves; legs covered with fibre.

Each

No. BG2FT—Baronial brown finish $32 25

Wrapped singly; shipping weight each 30 lbs.



Oak top 24x36 inches; height 30 inches; fibre shelf, legs covered with fibre.

Each

No. 38T—Frosted brown finish $55 50

No. BG3FT—Baronial brown finish 46 50

Wrapped singly; shipping weight each 40 lbs.

Oak top 28x40 inches; height 30 inches; fibre shelf, legs covered with fibre.

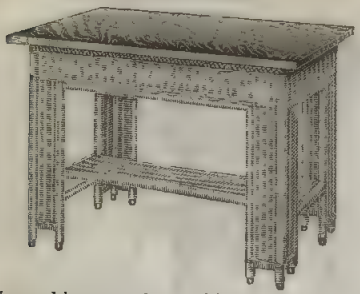
Each

No. 18BT—Frosted brown finish $71 25

No. 18FT—Baronial brown finish 61 50

Wrapped singly; shipping weight each 55 lbs.

FIBRE TABLES



Legs and braces are of seasoned hardwood, covered with woven fibre, quarter sawed oak top; fumed finish. Size top 26x42 inches. Height 30 inches.

Each

No. 402FT—Baronial brown finish $78 00

Crated; shipping weight each 80 lbs.

FIBRE TABLES

—BLUE RIBBON—

A stylish and well built veranda table. Legs are of seasoned hardwood, covered with woven fibre; quarter sawed oak top and shelf.

(Shown also on page 3139)

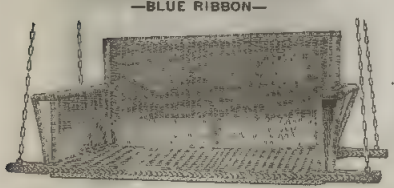
Each

No. BR3FT—Baronial brown finish; diameter top 27 in., height 30 inches $32 25

Wrapped singly; shipping weight each 24 lbs

FIBRE PORCH SWINGS

—BLUE RIBBON—



Hardwood frame, covered with woven fibre, baronial brown finish. Complete with chains.

(Shown also on page 3139)

Nos.	BR20F-4	BR20F-5	BR20F-6
Length, feet	4	5	6
Weight each, lbs	48	58	68
Each	$58 50	68 25	81 00

Well wrapped in heavy paper.

TABOURETTES

Per Dozen

No. 489K Imitation quartered oak finish; 13½ inch top; height 20½ inches $34 50

Six in a crate, K. D.; shipping weight per dozen 75 lbs.

PEDESTALS

Each

No. 910K—Imitation quartered oak finish, highly polished; 12 inch top; 4 inch column; height 32 inches $13 95

One in a crate; shipping weight each 24 lbs.

Handsomely turned column; 12 inch top; height 32 inches.

Each

No. 911-O—Imitation quartered oak finish, highly polished $21 45

No. 911-M Imitation mahogany finish, highly polished 21 45

One in a crate; shipping weight each 26 lbs.

FOLDING TABLES

—BLUE GRASS—

Fibre board top, covered with green felt, hardwood legs, with rubber tips. Wood rim around top, mahogany finish; corners reinforced with angle irons on inside; wire braces of tempered steel work automatically when legs are opened out. Nickel plated trimmings. Folds into space 1¼ inch thick. Size of top 30x30 inches.

Each

No. 102F—Height 27 inches $9 90

One in a carton, six in a crate; shipping weight each about 14 lbs.

—BLUE RIBBON—

Fibre board top, covered with imitation leather, hardwood legs, with rubber tips; mahogany finish; corners reinforced with angle irons on inside; wire braces of tempered steel work automatically when legs are opened out. Nickel plated trimmings. Folds into space 1¼ in. thick. Size top 30x30 in.; height 27 inches.

Each

No. 101-L—One in a carton, six in a crate $9 00

No. 101½-L—Three in a carton; will not break cartons 8 25

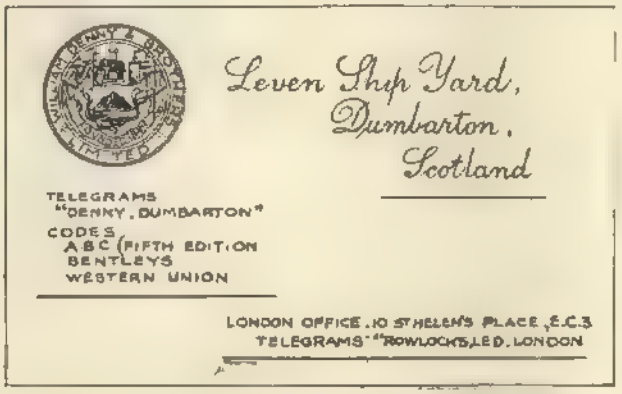
Shipping weight each 14 lbs.

WILLIAM DENNY & BROTHERS, LTD.,

Telegrams / *Télégrammes* / Telegramas } "DENNY, DUMBARTON." **DUMBARTON, SCOTLAND.** Codes / *Codes* / Códigos } A B C (5th Edition). BENTLEY'S. WESTERN UNION.

The following eight pages are devoted to the products of the Firm of William Denny & Brothers, Ltd., Shipbuilders and Engineers. Their works are situated at Dumbarton, Scotland, and give employment to some 4,400 persons.

The firm was established in 1844, and the fourth generation is now engaged in carrying on the business. In 75 years they have constructed more than 1,140 vessels, their output including express passenger steamers, high class passenger and cargo ships, plain cargo boats, paddle craft, luxurious private yachts, tugs, light draught vessels of all types for inland waterways, crane lighters, train ferries, destroyers, submarines and many other interesting vessels for special service.



The firm possesses the first private Experimental Tank, which has enabled them to cope successfully with many of the difficult problems of economical and high speed propulsion.

To the credit of Dumbarton belongs the first ocean-going vessel constructed in mild steel, the first turbine merchant vessel, the first merchant ship with combined reciprocating and turbine machinery, the first geared turbine vessel for the British Navy and other notable craft.

The Firm specialises in light draught high speed passenger vessels and in shipment work for abroad, in both of which respects they have a long and varied experience.

See also our pages in Marine Engine and Marine Boilers Sections.

Les pages ci-après sont consacrées à l'énumération des produits de la firme William Denny & Brothers, Ltd., Constructeurs navals et Ingénieurs. Leurs usines sont situées à Dumbarton (Ecosse), et emploient un personnel d'environ 4,400 employés et ouvriers.

La Maison a été fondée en 1844 et c'est la quatrième génération qui continue les affaires en ce moment. Au cours de 75 années, elle a construit plus de 1,140 navires, parmi lesquels des paquebots rapides, des navires mixtes pour passagers et marchandises, des navires marchands ordinaires, des navires à aubes, de luxueux yachts privés, des remorqueurs, des navires de faible tirant d'eau, de tous types, pour navigation intérieure, des bateaux-grues, des bateaux-transbordeur, des contre-torpilleurs, sous-marins et de nombreux autres navires intéressants pour des services spéciaux.

La Maison a été la première à posséder un réservoir d'expérience, ce qui lui a permis de résoudre avec succès, un grand nombre de problèmes ardus de la propulsion économique à grande vitesse.

Dumbarton peut se vanter d'avoir construit le premier navire de haute mer, en acier doux, le premier navire marchand à turbines, le premier navire marchand avec machines alternatives et turbines combinées, le premier navire à turbines pour la Marine de guerre britannique, ainsi que d'autres bâtiments notables.

La Maison se spécialise dans la fabrication de paquebots rapides à faible tirant d'eau et de navires pour l'étranger, branches dans lesquelles elle a acquise une grande expérience.

Voir aussi nos pages dans la Section de Machines de Marine et Chaudières Marines.

Las 8 páginas siguientes están consagradas á los productos de la firma William Denny & Brothers, Ltd., Constructores navales é Ingenieros. Sus talleres están situados en Dumbarton, Escocia, en donde se emplean alrededor de 4,400 obreros.

La casa fué fundada en 1844, y la cuarta generación está hoy día al frente de aquellos negocios. En 75 años ellos han construido 1,140 buques, incluyendo vapores rápidos de pasajeros, vapores de carga y de pasajeros de alta clase, vapores de carga, buques á ruedas, remolcadores, buques de poco calado de todos los tipos para la navegación fluvial, yachts lujosos particulares, barcos-grúas, tren "ferry," destróyers, submarinos y muchos otros navíos interesantes para servicios especiales.

La casa posee el primer tanque experimental privado, lo cual ha facilitado con gran éxito una serie de problemas difíciles referentes á la propulsión económica y de gran velocidad.

Al crédito de la casa Dumbarton pertenece el primer buque transatlántico construido de acero dulce, el primer buque mercante con maquinaria alternativa y turbinas combinadas, el primer buque á turbina de engranaje para la flota Británica, y otros barcos notables.

La firma se especializa en los vapores de pasajeros de poco calado y de gran velocidad, y en trabajos de buques para el extranjero, operaciones en las cuales tienen una larga y variada experiencia.

Véanse también nuestros anuncios en la Sección Máquinas Marinas y Calderas.

WILLIAM DENNY & BROTHERS, LTD.,
DUMBARTON, SCOTLAND.

EXPRESS PASSENGER VESSELS.

The successful construction of this class of vessel calls for wide experience and technical skill of a high order. Each ship is a problem in itself; high powers must be produced on the minimum of weight, the best design of hull must be associated with suitable propellers, and the whole wedded to accommodation in which the comfort of the passenger is carefully studied.

The Firm took up the construction of such craft in 1894, and is at present engaged in turning out the largest and fastest Channel steamer in the world. Among their clients are the Union Steamship Coy. of New Zealand, the Canadian Pacific Railway Coy., Messrs. Huddart Parker, and most of the prominent railway companies in Britain. The development of these fast ships was made possible by the advent of the turbine, latterly geared, and by the Michel thrust block. In the introduction of these Messrs. Denny were pioneers.

The blocks show the "Paris" and the "Princess Margaret." Of these the former holds the blue ribbon of the English Channel, having steamed from England to France at an average speed of 25 knots. The "Princess Margaret" developed over 23 knots, and was luxuriously fitted up for a large number of passengers.

For machinery see our pages in Marine Engines and Marine Boilers Sections.

PAQUEBOTS RAPIDES.

La construction de ce genre de navire exige une grande expérience et une habileté technique consommée de la part des constructeurs. Chaque navire est un problème en lui-même: il faut produire le maximum de vitesse avec des machines présentant le minimum de poids; le meilleur modèle de coque doit être combiné avec les hélices les mieux appropriées; et le tout doit s'associer avec un aménagement réunissant les meilleures conditions de confort pour les passagers.

La Maison a entrepris la construction de navires de cette classe en 1894 et possède en ce moment sur chantier le plus grand et le plus rapide paquebot au monde entier. Parmi ses clients, citons la "Union Steamship Coy of New Zealand" la "Canadian Pacific Railway Coy," MM. Huddart Parker, ainsi que nombreuses des plus importantes compagnies de chemins de fer de Grande-Bretagne. L'extension qu'a prise la construction de ces navires rapides est due à l'invention de la turbine, ensuite de la turbine à engrenages et butée à collets Michel. La firme Denny a été le promoteur de l'application de ces brevets.

Les clichés ci-dessus représentent le "Paris" et le "Princess Margaret." Le premier peut être considéré comme le champion de la Manche, ayant voyagé d'Angleterre en France, à une vitesse moyenne de 25 noeuds. Le "Princess Margaret" a développé plus de 23 noeuds et est luxueusement aménagé pour un grand nombre de passagers.

Voir les pages dans les Sections "Machines de Marine" et "Chaudières de Marine."

BUQUES RAPIDOS DE PASAJEROS.

El éxito de la construcción de esta clase de buques, exige una amplia experiencia y una habilidad técnica de alto grado. Cada buque constituye él mismo un problema: es necesario producir una gran potencia en un mínimo de peso; el mejor diseño del casco debe estar combinado con propulsores apropiados y el todo unido á una acomodación, en la cual el confort de los pasajeros es cuidadosamente estudiado.

La Casa emprendió la construcción de estos navíos en 1894, y está en la actualidad produciendo los más grandes y rápidos vapores de travesía en el mundo. Entre sus clientes figuran la "Union Steamship Coy" de Nueva Zelandia, la compañía Canadiense ferroviaria del Pacífico, la firma Huddart Parker y las compañías ferroviarias más prominentes de la Gran Bretaña. El desarrollo de esos vapores rápidos se hizo posible con el advenimiento de la turbina, y más tarde del sistema de turbina á engranajes, y por el soporte de empuje de Michel (Thrust Block). En la intruducción de estas los Señores Denny tienen los empeñadores.

Los grabados muestran los vapores "Paris" y el "Princess Margaret" de los cuales el primero ostenta el galardón azul en el Canal de la Mancha, navegando marchando de Inglaterra á Francia, á una velocidad de 25 nudos. El "Princess Margaret" desarrolló alrededor de 23 nudos, estando lujosamente equipado para un gran número de pasajeros.

Para maquinarias, véase nuestra anuncio en la Sección Máquinas de Marina y Calderas.

WILLIAM DENNY & BROTHERS, LTD.,

DUMBARTON, SCOTLAND.

PASSENGER AND CARGO VESSELS.

The largest part of the ocean-going tonnage constructed by the Firm falls into this category. They are represented in the fleets of the British India Steam Navigation Coy., the Australasian United, the Russian Steam Navigation, the Compañia Trasatlántica of Barcelona, the British and Burmese, the New Zealand Shipping Coy, the United Steam Ship Coy. of New Zealand, and other famous lines.

The largest vessel of this type which the firm has built is the "Remuera" with a tonnage of 11,276, trading between Great Britain and New Zealand. Besides accommodation for first, second and third class passengers, she is completely refrigerated and carries immense quantities of mutton, butter cheese and other perishable goods.

An earlier vessel for the same company was the "Otaki," notable for being the first merchant ship ever fitted with combined turbines and reciprocating machinery.

The left-hand block shows the "Indarra," while the other illustrates the "Infanta Isobel de Borbon." The "Indarra" is a popular ship in Australian waters. She carries a large number of passengers in luxurious accommodation, which includes a passenger lift, a swimming bath and gynasium. The "Infanta Isobel" trades between Spain and South America, and also conforms to the exacting requirements of the present-day travelling public.

For machinery see our pages in Marine Engines and Marine Boilers Sections.

BATEAUX MIXTES POUR PASSAGERS ET MARCHANDISES.

La plus grande partie du tonnage de navires de haute mer, construite par la Maison, appartient à cette catégorie. Ils sont représentés dans les flottes de la "British India Steam Navigation Co.," la "Australasian United," la "Russian Steam Navigation," la "Compañia Transatlantica de Barcelona," la "British & Burmese," la "New Zealand Shipping Coy" la "United Steam Ship Coy of New Zealand" et autres lignes de navigation célèbres.

Le plus grand navire de ce type construit par la Maison est le "Remuera" de 11,276 tonnes, assurant le service entre la Grande-Bretagne et la Nouvelle Zélande. Outre les aménagements de première, deuxième et troisième classe pour passagers, il est entièrement refrigéré et peut donc porter d'immenses quantités de viande, beurre, fromage et autres marchandises de ce genre.

Un navire fourni précédemment à la même Compagnie le "Otaki" est un exemple remarquable parce qu'il était le premier bateau marchand muni de machines alternatives et à turbines combinées.

Le cliché de gauche représente le "Indarra," celui de droite le "Infanta Isobel de Borbon." Le "Indarra" est un navire très connu dans les eaux australiennes.

Il possède de luxueux appartements pour un grand nombre de passagers et, entre autres, un ascenseur, un bain de natation et un gymnase. Le "Infanta Isobel" fait le service entre l'Espagne et l'Amérique du Sud et possède tous les perfectionnements modernes.

Les machines font l'objet de sections spéciales de Machines de Moteurs et Chaudières.

BUQUES DE CARGA Y PASAJEROS

La parte más grande de tonelaje de navíos de ultra mar construido por la casa está dentro de esta categoría, y está representado por las flotas de la "British India Steam Navigation Co.," la "Australasian United," la "Russian Steam Navigation," la "Compañia Transatlántica de Barcelona," la "British & Burmese," la "New Zealand Shipping Co., la "United Steam Ship Co. of New Zealand" y otras líneas de vapores renombrados.

El buque más grande de este tipo construido por la casa es el "Remuera" con un tonelaje de 11,276 viajes entre la Gran Bretaña y Nueva Zelandia. Además de acomodación para pasajeros de primera, segunda y tercera clase posee cámaras frigoríficas para un gran cargamento de carnes, mantequilla, queso y otros víveres frescos.

Uno de los primeros buques para la misma compañía fué el "Otaki" notable por ser el primer buque mercante equipado con turbinas y máquinas alternativas combinadas.

El grabado á la izquierda muestra el "Indarra" y el otro grabado representa el "Infanta Isobel de Borbon." El "Indarra" es un buque popular en las aguas Australianas. Tiene alojamiento para un gran número de pasajeros en [illegible] Isobel" viaja entre España y América del Sur y también posee todas las ventajas de las modernas [illegible].

Las máquinas son objeto de secciones especiales de Máquinas de Marina y Calderas.

WILLIAM DENNY & BROTHERS, LTD.,
DUMBARTON, SCOTLAND.

PADDLE STEAMERS.

In the development of the high-speed paddle steamer the Firm's Experimental Tank played a large part. As long ago as 1888 the "Princess Henriette," built for the Belgian Government, attained the then remarkable speed of over 21 knots. The right-hand block illustrates the "Leopold II," a third order for the same Government. This ship attained a speed of over 22 knots.

The Paddle Steamer was a familiar craft in the early days of English Channel services, and the Dumbarton firm was called upon to supply ships for this traffic. In recent years, of course, the geared turbine has superseded paddles for this particular trade, but here again Denny's products were chosen to satisfy the requirements of continental traffic. (See page 19.)

The firm has also built numerous paddle steamers for the heavy excursion traffic of the Clyde and the Thames.

Denny's Paddlers are found further afield than in British waters however. For instance, the left-hand block shows the "Corumba," built for service in South America for Messrs. Mihanovich.

This page deals only with Paddle Steamers launched and delivered complete at Dumbarton for service in more or less open water.

For Paddle Vessels delivered in pieces for river service, see page 23.

NAVIRES À AUBES

Dans le développement des navires à aubes à grande vitesse, le réservoir d'expérience de la Maison a joué un rôle très important. Déjà en 1888, le "Princesse Henriette," construit pour le Gouvernement belge, atteignait la vitesse, très remarquable à cette époque, de 21 noeuds. Le cliché de droite représente le "Léopold II," troisième navire commandé pour le même Gouvernement. Ce navire a atteint une vitesse de plus de 22 noeuds.

Le navire à aubes était un bâtiment d'un modèle très populaire au début des services réguliers dans la Manche, et la Maison Denny a fourni de nombreux navires pour ce genre de trafic. Dans les dernières années, la turbine à engrenages a détrôné les navires à aubes, d'un modèle plutôt désuet pour ces services particuliers. Mais, cette fois encore, les bâtiments de las Maison Denny ont été choisis pour répondre à toutes les exigences du trafic continental. (Voir page 19.)

La Maison a également construit de nombreux navires à aubes pour le service d'excursions sur la Clyde et sur la Tamise.

Toutefois, on rencontre les navires à aubes Denny bien plus loin que dans les eaux britanniques, par exemple, le cliché de gauche représente le "Corumba," construit pour un service intérieur dans l'Amérique du Sud, pour MM Mihanovich.

La présente page ne trait qu'à des navires à aubes, lancés et fournis à Dumbarton, pour la navigation en eaux plus ou moins profondes.

Voir page 23 pour les navires à aubes fournis en pièces détachées pour la navigation intérieure.

VAPORES Á RUEDAS.

En el desarrallo de la gran velocidad en los vapores á ruedas, los tanques experimentales de la casa juegan un papel muy importante. Desde 1888 el vapor "Princess Henriette," construido por el Gobierno Belga, había obtenido la entonces notable velocidad de 21 nudos. El grabado de la derecha muestra el "Leopold II," el tercer pedido del mismo gobierno, este vapor desarrollaba una velocidad de 22 nudos.

El vapor á ruedas era una nave familiar en los primeros días del servicio regular de navegación en el Canal de la Mancha y la firma Denny fué entonces llamada para suministrar buques para este tráfico. En recientes años, naturalmente, la turbina á engranaje ha reemplazado las ruedas de paletas para este servicio, pero, he aquí, que de nuevo los productos Dennys fueron escogidos para las necesidades del tráfico continental. (Véase página 19.)

La casa ha construido también numerosos vapores á ruedas para el tráfico pesado de recreo de los ríos Támises y Clyde.

Los vapores á ruedas Dennys sin embargos, son encontrados aún más lejos que en las aguas británicas. Por ejemplo, el grabado de la izquierda muestra el "Corumba," construido para los Srcs. Mihanovich, para prestar servicios en las aguas de la América del Sur.

Esta página se refiere sólamente á los vapores á ruedas botados al agua y entregados completos en Dumbarton, para la navegación en ó menos, en aguas profundas.

Por buques á ruedas entregados en secciones para la navegación fluvial, véase página 23.

WILLIAM DENNY & BROTHERS, LTD.,
DUMBARTON, SCOTLAND.

FOREIGN RIVER SCREW VESSELS.

The craft described on this page are all shipment jobs, of which the Firm has made a speciality.

When the draught is not too restricted the screw ship is sometimes preferred to the paddler. In special instances, however, the screw is adopted for very small draughts in which case tunnels may be built aft, and the Firm have designed and constructed vessels of this type.

Denny's have designed and built more than 100 twin screw vessels for foreign river traffic, some for towing purposes, others for the carriage of passengers and general cargo. They have varied in length from 75 feet to 180 feet, and in draught from 3 feet up to 6½ feet.

The hull structure is often completely galvanised in order to prevent corrosion.

As feeders to large main line steamers this class of little vessel has proved most profitable, being largely run by native labour alone.

The left-hand block shows a vessel 165 feet long in the service of the Irrawaddy Flotilla Coy., while the companion block illustrates one of a large class of steamer, 100 feet long, also plying in Burmese waters. Both these craft have accommodation for Europeans as well as for cargo and native passengers.

For machinery see our pages in Marine Engines and Marine Boilers Sections.

NAVIRES À HÉLICES POUR NAVIGATION FLUVIALE ÉTRANGÈRE.

Les bâtiments décrits dans la présente page constituent des travaux pour l'exportation dans laquelle la Maison s'est spécialisee.

Le bateau à hélice est souvent préférable au bateau à aubes, lorsque le tirant d'eau n'est pas trop réduit. En certains cas, cependant, le type à hélice à été adopté même pour de très faibles tirants d'eau, et dans ces cas, l'hélice est placée dans un tunnel aménagé à l'arrière. La Maison a étudié et construit de nombreux navires de ce type.

La Maison Denny a étudié et construit plus de 100 bateaux à double hélices pour la navigation fluviale à l'étranger, parmi lesquels quelques remorqueurs, les autres pour marchandises et transport de passagers. Leur longueur varie de 22,50 m. à 54 m., et leur tirant d'eau est de 0,90 m. à 2 m.

La coque est parfois complètement galvanisée pour prévenir la rouille

Ces petits bâtiments sont d'un emploi très avantageux pour l'approvisionnement des grands paquebots, car leur équipage peut se composer presqu'exclusivement d'indigènes

Le cliché de gauche représente un navire de 50 m. de long dans le service de l'Irrawaddy Flotilla Coy., tandis que le cliche de droite représente un des nombreux bâtiments de cette classe, de 30 m. de long, navigant également dans les eaux Birmanes. Ces deux bateaux sont pourvus d'installations pour passagers européens, ainsi que pour le transport de marchandises et de passagers indigènes

Voir Sections "Machines de Marine" et "Chaudières de Marine."

NAVÍOS Á HÉLICES PARA LA NAVEGACION FLUVIAL EXTRANJERA.

Los buques á los cuales se refiere esta página son trabajos para la exportación que es la especialidad de la casa.

El vapor á hélices es comunmente preferible al de ruedas, cuando el calado no es demasiado reducido. En circunstancias especiales, sin embargo las helices son adoptadas para calados muy pequeños, en cuyo caso, se llevan túneles posteriores. La firma ha diseñado y construido navíos de este tipo.

La casa Denny ha diseñado y construido más de cien barcos de doble hélice para la navegación en ríos extrangeros, algunos para el remolque y otros para pasajeros y carga general, aquellos han variado en eslora desde 22,50 m hasta 54 m., y calado desde 0,90 m. hasta 2 m.

El casco es a menudo completamente galvanizado para evitar la corrosión.

Como auxiliares para los vapores trasatlánticos principales esta clase de barco pequeño ha desmostrado ser muy satisfactorio siendo manejados solamente por brazos indígenas.

El grabado de la derecha muestra un buque de 50 m. de eslora que presta servicios para la Irrawaddy Flotilla Coy., mientras que el grabado que le acompaña enseña uno de los vapores de la clase más grande de 30 m de eslora, que también está navegando en las aguas Burmeses. Ambos buques poséen acomodación para pasajeros y carga, tanto europeos como indígenos.

Por maquinarias véanse nuestras páginas de anuncios de la Sección Máquinas de Marine y Calderas.

WILLIAM DENNY & BROTHERS, LTD.,
DUMBARTON, SCOTLAND.

FOREIGN RIVER PADDLE STEAMERS.

Denny's have built nearly two hundred examples of this class of vessel, delivered in pieces. Their output includes large express passenger ships, towing steamers (see page 24 for illustration), small despatch vessels, stern wheelers, and other paddle craft for special service. Their experience ranges from vessels of 326 feet in length, carrying 200 tons of cargo and 2,600 passengers, and steaming 18 miles per hour, down to the smallest units with the minimum of draught. An example of the former type is shown in the left-hand block. Of stern wheelers also a long list could be given. The right-hand block shows an example of the class. This particular ship was launched at Dumbarton for the purpose of running full trials. Much valuable data was obtained on the design of suitable wheels before she was finally dismantled and shipped to her destination.

The Firm is conversant with the peculiar difficulties which have to be met in the design of river paddle craft. Provision is made to guard against the ill effects of rapid corrosion, frequent grounding, muddy water, uneven loading, inferior fuel and the presence of snags and weeds in shallow waters.

For machinery see our pages in Marine Engines and Marine Boilers Sections.

NAVIRES À AUBES POUR LA NAVIGATION FLUVIALE ÉTRANGÈRE

La Maison Denny a construit environ 200 spécimens de ce genre de navires, qui ont été livrés, démontés. Ce nombre comprend de grands paquebots rapides, des remorqueurs (voir gravure à la page 24), des petites vedettes, des sternwheelers et autres bateaux à aubes pour usage spécial. L'expérience de la Maison s'étend à des bâtiments mesurant jusqu'à 99.36 m., et pouvant transporter 200 tonnes de marchandises et 2,500 passagers, d'une vitesse de 15 [illegible] à l'heure, jusqu'aux plus petits bâtiments pour le tirant d'eau le plus réduit. Le cliché de gauche représente un bateau de la première catégorie citée ci-dessus. Nous pourrions également donner une longue liste de sternwheelers, dont le cliché de droite représente un spécimen. Ce dernier fut lancé à Dumbarton en vue d'épreuves complètes; ces épreuves permirent de recueillir de précieux renseignements et données au sujet des meilleures roues à aubes à employer, avant que ce navire soit démonté et expédié à sa destination.

La Maison est parfaitement au courant de toutes les difficultés qui se présentent dans la construction de bâtiments à aubes pour la navigation fluviale. Des dispositions spéciales sont prises en vue d'éviter les effets désastreux de la corrosion rapide, de fréquents [illegible] contre le fond des rivières, des eaux boueuses, le manque d'équilibrage du chargement, de l'emploi de combustible de qualité inférieure, et de la présence de souches et lianes dans des eaux peu profondes.

Voir aussi Sections Machines de Marine et Chaudières de Marine

VAPORES Á RUEDAS PARA LA NAVEGACIÓN EN RIOS EXTRANGEROS.

La Casa Denny ha construido cerca de 200 ejemplares de esa clase de buques, los cuales han sido entregados en piezas. Entre su producción están incluidos buques grandes rápidos de pasajeros, remolcadores (véanse grabados en página 24), pequeños buques avisos, buques de rueda á popa y otros navios á rueda para servicios especiales. Su construcción comprende buques de 99.36 m. de eslora llevando 200 toneladas de carga y 2,500 pasajeros, marchando á una velocidad de 15 millas por hora, hasta las unidades más pequeñas con un mínimo de calado. Un ejemplo de los primeros modelos está representado en el grabado de la izquierda. También se puede dar una larga lista de los de rueda á popa. El grabado de la derecha muestra un ejemplo de los de esta clase. Este buque fué botado al agua en Dumbarton para las pruebas de marcha, las cuales permitieron que se obtuvieran datos muy importantes en el diseño conveniente para las ruedas, antes que fuera desarmado y embarcado para su destino.

La Casa conoce las dificultades especiales que se presentan en el diseño de buques fluviales á ruedas. Se han tomado disposiciones especiales para evitar los efectos desastrosos de la rápida [illegible] varadas frecuentes por las aguas fangosas [illegible] empleo de combustibles inferiores y por la presencia de [illegible] y yerbas nocivas en las aguas de poco calado.

Véanse también secciones, Máquinas Marinas y Calderas Marinas

WILLIAM DENNY & BROTHERS, LTD.,
DUMBARTON, SCOTLAND.

BARGES.

From express high-powered passenger vessels to the humble barge is a big step, yet a large part of the Firm's output of shipment work is made up of this latter class of craft. The Firm has designed and built barges of various types and for many waters. Their output ranges from small types of only 65 feet in length to craft of 285 feet long for the carriage of oil in bulk on the Irrawaddy river.

For one company alone the Firm has constructed more than 100 barges.

Though a few barges have been launched, by far the greater number have been "shipment" jobs, that is to say, the vessels are erected complete in Dumbarton, then dismantled and shipped abroad for erection and launching at their destination. Great care is taken to mark all parts clearly, and fully detailed plans are supplied to ensure ease in re-erection.

Much of the Firm's output of barges has been put together by native labour without difficulty.

The Firm has executed work for service in Russia, Burma, Persia, India, Mexico, and Siberia, as well as for use in home waters.

The left-hand block shows a Denny built paddler towing two oil flats, also products of Dumbarton.

BARGES

Du grand paquebot rapide à [illegible] il y a un grand pas, et cependant, une grande partie des [illegible] pour l'exportation de la Maison [illegible] à cette [illegible]

La Maison a étudié et construit de [illegible] variés, pour la navigation dans toutes les eaux. Ses modèles comprennent tous les types, depuis la petite barge de 19,50 m. jusqu'à des bâtiments de 77,70 m. tels que ceux employés sur l'Irrawaddy pour le transport des huiles brutes.

La Maison a construit plus de 100 barges pour la même compagnie. Quoiqu'un petit nombre d'entre elles aient été [illegible] dans nos chantiers, pour la plus grande partie, nos barges [illegible] montées complètement à Dumbarton, ensuite démontées et expédiées à l'étranger pour y être remontées et lancées à leur destination.

Le plus grand soin est apporté dans le marquage des pièces séparées, et des plans détaillés sont fournis pour le remontage facile de ces bateaux.

La plupart [illegible] de ces barges ont été réassemblées par un [illegible] exclusivement composé d'indigènes, et ce, sans la moindre difficulté.

La Maison a construit des bâtiments pour la navigation en Russie, Birmanie, Perse, Inde, Mexique, et Sibérie, aussi bien que pour la navigation fluviale dans le pays.

Le cliché de gauche représente un remorqueur à aubes "Denny" remorquant deux barges à huile, produits exclusifs des chantiers navals de Dumbarton.

LANCHONES

Desde el paquebote rápido de gran poder para pasajeros hasta el humilde lan[illegible]n existe un paso inmenso, y sin embargo una gran parte de las construcciones para la exportación de la Casa pertenece [illegible] categoría.

La Casa ha diseñado y construido lanchones de diversos tipos desde hace muchos años para distintos calados. Su producción varía entre las clases pequeñas de 19,50 m. de eslora y naves de 77,70 m., tales como las empleadas en el transporte de aceite en el río "Irrawaddy."

La Firma ha construido para una casa solamente más de 100 lanchones. No obstante que sólo una pequeña cantidad de lanchones han sido botados en nuestras aguas, la gran mayoría ha sido construida completamente en Dumbarton, luego desarmados y embarcados para el extranjero para ser re-armados y botados a su destinación.

Se toma gran cuidado para marcar claramente todas las partes, y se suministran detalles y croquis completos para el montaje fácil de estos lanchones.

Un buen número de los lanchones construidos por esta Casa ha sido armado por mano de obra indígena sin ninguna dificultad.

La Casa ha ejecutado trabajos para el servicio de navegación en Rusia, Burma, Persia, India, Méjico, y Siberia, así como para la navegación en nuestras aguas.

El grabado de la izquierda muestra uno de nuestros remolcadores á ruedas "Denny," conduciendo dos chatas de aceite, también construidas en Dumbarton.

AUTOMOBILE CLOCKS

Eight Day Movement.

Steel case black enameled finish, polished nickel plated bezel; 2½ in. iveroid dial with second hand; depth 3⅛ inches.

Made in the latest model with up-to-date features, this clock combines an attractive appearance with remarkable timekeeping qualities. Convenient to use, with outside wind and set.

Each

No. A-2—Complete with necessary screws and complete directions for using $12 00

One in a cardboard box; weight each about 2 lbs.

Eight Day Movement.

Steel case, nickel plated; brass rim and bezel, highly nickel plated and polished; 2½ in. iveroid dial with second hand; extreme diameter of rim 3½ in.; depth 2½ inches.

Designed to be sunk into the dash and makes a very neat appearance. Has a new patent spring catch, which holds the movement firmly in position. The face of the clock lies very close to the dash as no part need project for winding purposes. Each

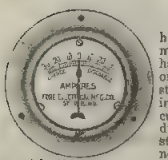
No. A-3—Complete with necessary screws and complete directions for using $12 00

One in a cardboard box; weight each about 2½ lbs.

AUTOMOBILE AMMETERS

FORE

Flush Type.



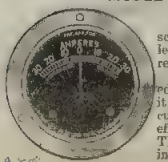
The movement of the indicator hand being extremely dead-beat, all moving parts being assembled to a hardened steel shaft which is mounted on pivots, with this means of construction the indicator hand will instantly follow the smallest change of current flow, and as the tongue produced by the magnetic field is very strong the vibration of the car will not affect the reading of the instrument in any way.

The scale board on the scale plate as well as the figures and letters are raised which enables you at a glance to get the reading. The instant the motor stops the indicator hand returns to zero. Each

No. A-541—Standard range 30-0-30; diameter case 2 inches; diameter flange 2¾ inches $5 85

One in a carton; weight each ½ lb.

MODLE DA FLUSH TYPE



Nickel plated flange; black japanned scale board with white enamled raised letters and figures which enable correct reading at a glance.

The indicator hand is so constructed and being extremely sensitive it will follow the smallest change of current flow. Vibration will not effect the reading of the instrument. The instant the motor stops, the indicator hand returns to zero.

Each

No. A26A—Standard range 30-0-30; diameter of case 2 1/16 inches $2 00 3 00

One in a carton; weight each ¼ lbs.

HUB ODOMETERS

VEEDER

For Ford Cars and Trucks.

Especially adapted to show how far a Ford car or truck travels per gallon of gasoline, per pint of oil, per battery renewal, etc.

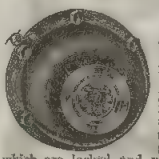
Made of hardened steel, black japanned. Studs upon which the dials revolve are of copper nickel alloy which will not rust or corrode. A special stuffing box prevents oil or grease from leaking in on the dials, which are locked and prevented from turning except when driven by the mechanism. Each

No. A-15VHO—Weight each 4 lbs. $35 40

One in a carton.

VEEDER

For Trucks Other Than Fords.



Especially adapted to tell what distance is possible to run on a gallon of gasoline, a pint of oil, a battery renewal, a tire life, etc.

Made of hardened steel; black japanned. Studs upon which dials revolve are of copper-nickel alloy and will not rust or corrode. A special stuffing box prevents oil or grease from leaking in on the dials, which are locked and prevented from turning except when driven by the mechanism.

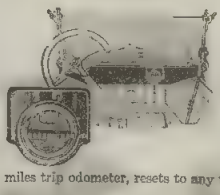
Note—When ordering specify make, model, year of car and size of front wheel. Each

No. A-16VHO—Weight each about 6 lbs. ..... ✣$47 25

One in a carton.

SPEEDOMETERS

STEWART'S FOR FORD CARS



Black enameled flange, with nickeled rim; black dial with large indicating figures. Tungsten steel magnet. Fully jeweled. French plate dial glass. Beveled odometer openings make figures easily read from driver's seat.

Rotating speed dial, 60 miles capacity, 100,000 miles season and 10 miles trip odometer, resets to any tenth mile.

Each

No. A-160A—For 1919 and 1921 models Ford Cars, that are equipped with instrument or cowl boards by the Ford Company. Board not furnished ... $30 00

No. A-160B—For 1918 or previous year model Ford Cars, that are not equipped with instrument or cowl boards; complete with instrument board ... ✣ 32 51

No. A-160C—For closed cars, Sedans and Couplets; complete with instrument board ..... ✣ 32 51

No. A-160D—For Ford Cars, where no board is used; equipped with adjustable bracket for installation on the dash ..... ✣ 30 00

One in a cardboard box; weigh each 10 lbs.

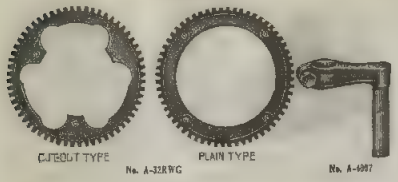
✣**Hub Odometers—F. O. B. Connecticut Factory Only.**

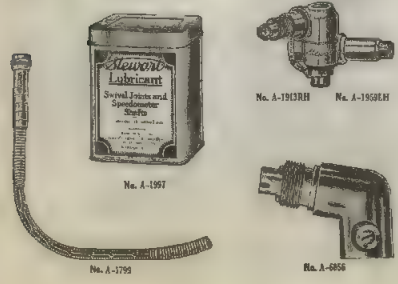
✣**Speedometers—F. O. B. Illinois Factory Only.**

D 10

STEWART SPEEDOMETER PARTS

GENUINE





STEWART SPEEDOMETER PARTS

GENUINE

	Each
No. A-1913RH—Right hand swivel joint	$7 50
No. A-1959LH—Left hand swivel joint	7 50
No. A-2931—Grease cup cap	✣ 42
No. A-1799—Flexible shaft, complete without leather covering; length 66 inches. Fits any Ford car	9 00
No. A-1911—Flexible shaft casing, without leather covering	5 01
No. A-1880—Upper end clutch of chain	51
No. A-617—Sliding bar and lower end clutch of chain	72
No. A-32RWG—Road wheel gear, complete with washer and screws	✣3 51

	Per Set
No. A-33WS—Washers and screws for use on road wheel gear (set of 3)	✣$0 30

	Each
No. A-2301—Pinion or small gear (fibre)	$0 72
No. A-512—Clamp for steering arm, complete including part No. 400	✣4 02
No. A-34SBC—Stud bolt clamp complete	✣5 01
No. A-35TC—Clamp for steering arm, complete with No. 4007	✣4 02

	Each
No. A-4003—Clamp part (upright)	$1 71
No. A-4025—Clamp part (swivel block)	72
No. A-4015—Clamp part (cross bar)	✣1 11
No. A-4017—Clamp part (axle clip)	51
No. A-4014—Clamp part ("S" clamp link)	✣1 11
No. A-4007—Clamp part (cross bar and straight link one piece)	✣1 20
No. A-36DB—Dash bracket, single instrument	✣2 52
No. A-1956—Rubber fender washer	30
No. A-7208—Strap or hanger for flexible shaft	42
No. A-6056—Angle sleeve	✣6 00

	Per Ft.
No. A-38ELS—Extra length shaft (over 78 inches)	✣$1 62
No. A-1902—Flexible shaft chain (10 links to a foot)	1 02

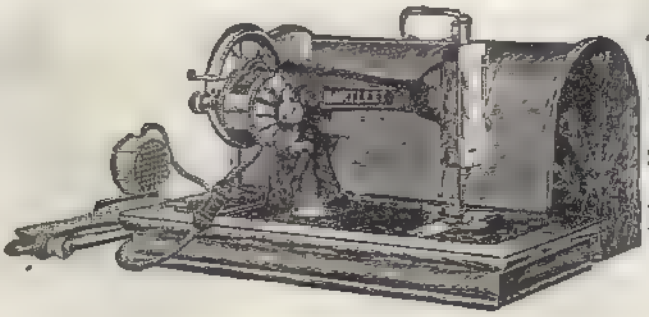
	Per Can
No. A-1997—Stewart flexible shaft lubricant	✣$1 02

	Each
No. A-616—Flexible shaft ferrule and union	✣$0 51
No. A-4032—Clamp set screw	21

✣F. O. B. Illinois Factory Only.

The "Bartlett" Electric Sewing Machine

Vibrating shuttle—
Automatic Tension Release—
Automatic Bobbin Winder—



Just a pressure of the foot on the foot control starts the Motor, regulates its speed or stops it.

No. W110—W't each 60 Lbs. ..... each $69.40

The Bartlett Electric is a marvel of Efficiency, Convenience and Economy. It is compact and simple, occupies only a small amount of space and is conveniently used on any table or stand.

Small Cost of operation.—Two to four cents daily is but a trifle when compared to the saving in health and energy.

Adapted to Direct or Alternating Current, 110 volt, 60 cycle.—It makes no difference whether the electric current available is direct or alternating. The Motor is universal—that is, it can be operated, and satisfactorily so, in connection with either direct or alternating current.

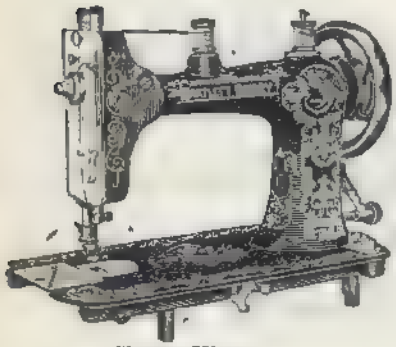
The Bartlett Electric Portable Sewing Machine is a first-class, ten year warranted sewing machine of the highest quality. It is well finished in black enamel, makes the Double Lock Stitch and has many desirable and practical features, including: disc tension, automatic release, positive takeup, positive double width feed, automatic bobbin winder, improved stitch regulator and self threading shuttle. All working parts are made of best quality hardened steel, while all bright parts are heavily nickel plated.

The cabinet Work is designed with a view to convenience, compactness and durability. The hansomely designed bent cover is built of choice quarter-sawed oak, and is equipped with a substantial nickel plated metal handle. The wooden case on which the sewing head rests is also built of quarter sawed oak. The cover is attached to base by a convenient locking device.

The Complete Nickel Plated Steel Attachments of highest quality are supplied **FREE** of extra charge. They are packed in a neat paste-board box. It is a real pleasure to use these attachments on the **Bartlett-Electric,** as the operator's attention is not distracted by the necessity of operating the machine because **"The Motor Does the Work."**

Showing Machine Closed.

OVB Bartlett Rotary Sewing Machines

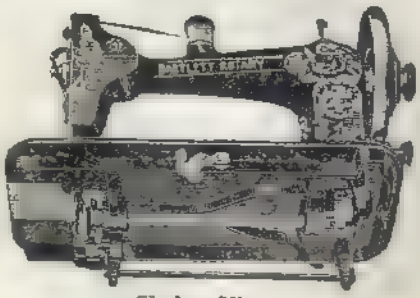


Upper View.

Equipped With All Latest Time and Labor Saving Devices.

Smooth and Easy Running Without Friction or Vibration.

Fully Guaranteed For Ten Years



Under View.

The OVB Bartlett Rotary Sewing Machine is an innovation in the sewing machine world, as it is the only machine of the rotary type that is so simply constructed, so easily understood and operated and so self guarded against trouble attending other machines of like type that it may be safely marketed by dealers who have no mechanical knowledge of sewing machines and who heretofore have been unable to successfully sell a Rotary machine because of their troublemaking proclivities. It is universally acknowledged that the rotary type of machine is superior to all others in easy running qualities and in speed. This is due to the fact that the under-stitch forming mechanism revolves continuously, and has no lost motion on which account the rotary machines are geared higher than vibrating machines, consequently more work can be done with them in the same amount of time.

FEATURES—Among the many important features of the Bartlett Rotary sewing machine is the automatic tension which is a feature exclusive to this machine. This feature enables you to sew on any class of work without changing the tension. In other words, it automatically adjusts itself to a perfect stitch on all classes of work from the flimsiest chiffons to the heaviest woolens—on other machines it is necessary to change the tension when sewing on different classes of goods. Some of the other features are. self-setting needle, self-threading shuttle, automatic bobbin winder, two spool pins, a steel capped needle bar, which prevents dust and grit from entering bearings, positive cam driven takeup and automatic gear releasing device.

STITCH—Is known as double lock stitch and is formed by two threads being drawn together and locked in the center of the goods, and presents a finished and smooth appearance on both sides, in fact it is hard to distinguish the under side—which is commonly known as the wrong side—from the upper.

SEWING HEAD—Is most attractive in appearance and substantial in construction. It is well finished in highest quality black enamel, and decorated with an imported decalcomania of Egyptian design, covered by a glass hard, smooth, transparent varnish of very best quality.

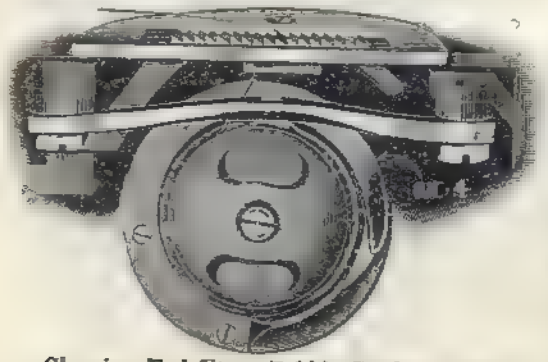
THE ARM Is of generous size, the clear space underneath for sewing being 5¼x3 inches. There are two spool pins on the arm.

THE NEEDLE BAR—Is round, accurately finished and thoroughly hardened. It is equally rigid in every direction, has no lost motion and consequently operates freely, easily and without noise. The upper end of the needle bar is covered and protected by a handsome nickel plated steel cap which insures absolute cleanliness in the bearings, thereby preventing the accumulation of dust and grit and the ensuing hard and noisy running which is common to other machines less fortunately equipped. The needle is short, strong and self-setting. It is so made that it is impossible for one to place it in the needle bar incorrectly, thereby causing trouble.

THE UNDER STITCH FORMING MECHANISM—Consists of a hook which rotates around bobbin case, the latter answering the same purpose as a shuttle. This rotating movement is responsible for the easy running qualities of the OVB Bartlett Rotary, in which respect, as in others, it is superior to vibrating machines. A splendid feature of this is that under no conditions can it clog of choke up—in this respect it is an innovation, as all other rotary machines are handicapped by the clogging complaint.

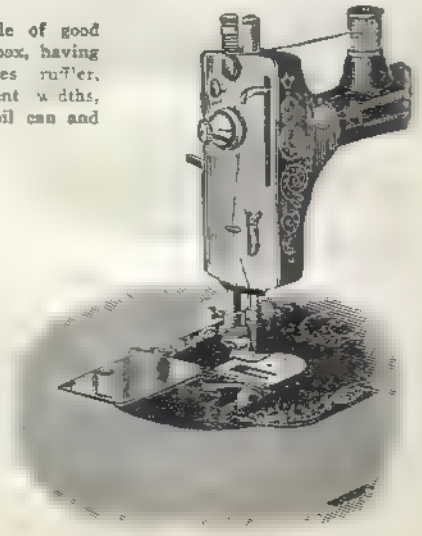
THE BOBBIN CASE—May be removed handily from above by opening the hinged plate shown in illustration, which is provided for that purpose. The tension is in the bobbin case—accompanying bobbin holds 500 yards of ordinary sized thread, so the user is not annoyed by the necessity of changing or refilling the bobbins at frequent intervals.

ATTACHMENTS—The attachments furnished free of charge with each machine are made of good quality spring steel and are packed in a neat and substantial black enameled velvet lined metal box, having metal racks for holding each individual attachment. The full set consists of the following pieces ruffler, tucker, binder, braider-foot, under braider plate, shirring plate, feller, four hemmers of different widths, quilter, cloth guide, thread cutter, two screw drivers, twelve assorted needles, six bobbins, filled oil can and well illustrated book of instructions.



Showing End View, Bobbin Hook and Race

The OVB Bartlett Rotary is an ideal family sewing machine. Its price is moderate, and because of its very many good points, we are confident it will soon be a leader in sales and popularity of the entire Bartlett line.



Showing Face Plate and Hook Cover.

Bartlett Rotary Sewing Machines

This Bartlett Rotary sewing machine is without a doubt the most handsome and magnificently equipped machine that the present market affords. The case is substantial in construction and different in appearance from all others. It is built on beautiful lines, which immediately appeal to the eye of the discriminating. It has six full length side drawers which are encased in dust proof panels. The beautiful paneled drop front piece, and the hand rubbed mirror finish of the quarter sawed oak case are exclusive features which are not incorporated in other machines. It is equipped with a tested steel chain automatic lifting device which with one motion of the hand lifts the sewing head to position and at the same time automatically pulls back the front panel thereby leaving ample knee room for the operator.

THE STAND on this machine is ball bearing type, a marvel of simplicity, noiselessness and speed. The new steel pitman has non-binding easily adjusted connections at either end. The belt retaining guard is a device of much merit and eliminates all fussing and straining incident to belting machines less fortunately equipped

THE ATTACHMENTS are packed in an elaborate velvet lined metal box and consist of the following: tucker, ruffler, braider, binder, four hemmers of different widths, shirring slide, feller, quilter, cloth guide, four bobbins, six needles, two screw drivers, filled oil can and illustrated book of directions.

No. W91R—6 drawer, w't 135 lbs. ....each $75.30

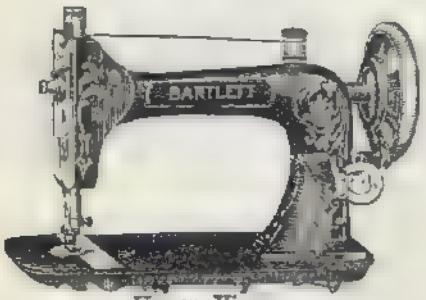
This attractive model of the Bartlett Rotary sewing machine has four side drawers, with most attractive embossed pulls. These drawers are encased in solid panels which have ornamentation, in harmony with that of the center panel. The entire case throughout is made of choicest selected quarter sawed oak, which is given a high finish. There is an 18-in. tape measure transferred on the front of table, handy for the operater. It is equipped with a tested steel chain automatic lifting device which automatically lifts sewing head to position, and at the same time moves the center panel back, leaving sufficient knee room for the operator.

THE STAND is finished in best quality enamel and is ball bearing type which makes it noiseless and speedy. It has the steel pitman and also the belt retaining guard, which prevents machine from becoming unbelted.

THE ATTACHMENTS which are supplied with this model are complete in every detail and are of best nickeled steel. They consist of the following: tucker, ruffler, braider, binder, four hemmers of different widths, shirring slide, feller, quilter, cloth guide, four bobbins, six needles, two screw drivers, filled oil can and illustrated book of directions.

No. W81R—4 drawer, w't 130 lbs. ....each $72.70

CVB Bartlett Sewing Machines

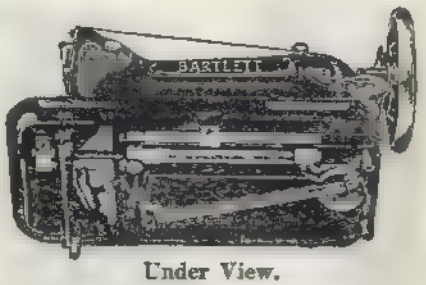


Upper View.

Fully Guaranteed for Ten years

Full size arm, Automatic Tension and Double Lock stitch Regulator.

Full Set of Attachments.



Under View.

The CVB Bartlett is a family sewing machine of the very highest grade embracing the most complete combination of modern time and labor-saving improvements ever combined in one machine and is presented to the trade and public as an ideal embodiment of the very best in modern sewing machine manufacture.

The basic construction is on the gear principle. These gears are so accurately fitted and adjusted that they operate most quietly and easily. They are riveted to the shafts by steel pins and cannot become loose. In this particular alone, the CVB Bartlett has a great advantage over other sewing machines, which make us of eccentric shafts with many screws and parts, any one of which, if loosened will destroy the perfect action and cause a poor stitch to be made. In a large measure, the gears are responsible for the wonderfully easy running qualities and the almost entire absence of the objectionable noise accompanying other machines. The clever adoption of the gear principle gives the CVB Bartlett a simplicity of construction which makes it ideal for family use. Not only is the user assured that the CVB Bartlett will always operate correctly, but the necessity of constant payment of money to sewing machine repair men is done away with. It is interesting to know that no other high grade up-to-date family sewing machine has this form of construction.

The CVB Bartlett head has 15 per cent less parts than any other sewing machine on the market. The result is obvious; less wear, less friction, and less power required to operate.

SPECIFICATIONS

THE STITCH—Formed, is what is known as the double lock stitch, made by two threads which are firmly locked in the center of the goods, presenting a smooth and finished appearance on either side. It is recognized to be the best all around, serviceable stitching for family sewing.

THE SEWING HEAD—Is unusually handsome and well proportioned—it is elaborately finished in three durable coats of hand rubbed and polished baking japan with handsome imported decalcomania decorations in gold and bright colors covered with an imported English varnish, hard baked.

THE ARM—Is of the largest size furnished with a family sewing machine and is very strong and perfectly proportioned. The clear space underneath is 5½x8 inches, thus permitting the easy and convenient handling of the bulkiest materials.

AUTOMATIC SELF-REGULATING TENSION—Is absolutely automatic in its action and is a special exclusive feature of the CVB Bartlett machine.

Unlike the common form, it is not necessary to adjust the CVB Bartlett tension to the different classes of goods which are being used from time to time. This tension makes a perfect and even stitch on the lightest chiffons without puckering and at the same time will produce equally good results on the heaviest woolens without any changing of the adjustment whatever. The convenience and importance of this great feature will be best appreciated by actual test by those who have had their troubles with the ordinary form of tension.

The release of the CVB Bartlett tension is entirely automatic and is put into operation when the pressure foot is raised to permit removal of work. When this is done, there is absolutely no tension on the upper thread and the goods may be removed without bending or breaking the needle.

FEATURES—Among many of the features exclusive to the Bartlett sewing machine are the following: positive double width steel forged feed, self-threading shuttle, positive cam driven takeup, automatic bobbin winder, and automatic gear releasing device.

CABINET STYLE

The full cabinet Bartlett machine is without a doubt the best in construction and equipment that the present market affords. It is of the highest grade throughout and handsome in design. It is compact and solid and takes up but a comparatively small amount of floor space. The door has hand carving of neat design. On inside of door there is a handy pocket for holding attachments, etc. It is equipped with the automatic lifting device which raises sewing head to position, and locks it firmly in place.

THE STAND mechanism which is inclosed in the case is simple and noiseless. There is ample knee room for the operator.

THE ATTACHMENTS, which are complete in every detail are packed in a well finished metal box, and consist of the following:

Tucker, ruffler, braider, binder, four hemmers of different widths, shirring slide, feller, quilter, cloth guide, four bobbins, six needles, two screw drivers, filled oil can and illustrated book of directions.

No. W64—Cabinet, w't 150 lbs. .....each $69.30

CYB Bartlett Sewing Machines

This handsome model is of exclusive design, and is constructed throughout of the highest quality hand polished quarter sawed oak. It has six side drawers with embossed pulls. These drawers are encased in solid dust proof panels, which design is in complete harmony with the design on the front panel. An 18 in. tape measure is transferred on front of the table. It is equipped with the tested chain automatic lifting device which automatically lifts the sewing head to position.

THE STAND is finished in best quality enamel, and is ball bearing type. It has the steel pitman and runs quietly and smoothly. It is equipped with the belt retaining device, which keeps machine belted at all times.

THE ATTACHMENTS are packed in a substantial velvet lined metal box, and consist of the following: tucker, ruffler, braider, binder, four hemmers of different widths, shirring slide, feller, quilter, cloth guide, four bobbins, six needles, two screw drivers, filled oil can and illustrated book of directions.

No. W71—6 drawers, w't 125 lbs. .....each $65.40

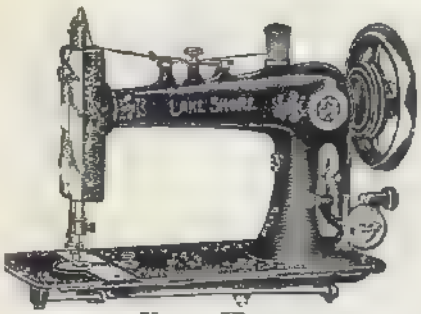
This Colonial design Bartlett machine is built on graceful and beautiful lines. It has four full length side drawers which are fitted with lock and key. The beautiful carved drop front piece is in complete harmony with the rest of this exclusive design, and the entire case is built of best hand rubbed mirror finish quality quarter sawed oak. It is equipped with the automatic lifting device which automatically lifts sewing head to position and at the same time raises the front panel, to allow ample knee room for the operator.

THE STAND is noiseless and speedy, well braced, simple yet strong in construction. It has the steel pitman, and the device for keeping machine belted at all times.

THE ATTACHMENTS consist of a complete set which are neatly packed and are as follows: tucker, ruffler, braider, binder, four hemmers of different widths, shirring slide, feller, quilter, cloth guide, four bobbins, six needles, two screw drivers, filled oil can and illustrated book of directions.

No. W49—4 drawers, w't 120 lbs., each $62.90

The Lake Shore Sewing Machines



Upper View.

Full Size Arm Improved Stitch Regulator. Automatic Bobbin Winder. Well Finished with all Exposed Parts Heavily Nickel Plated.

Under View.

In The Lake Shore machine we have a medium grade, thoroughly dependable, well equipped machine, which compares most favorably with other machines sold at much higher prices. The machine througout is constructed of good sound material, and with proper care should last a long term of years.

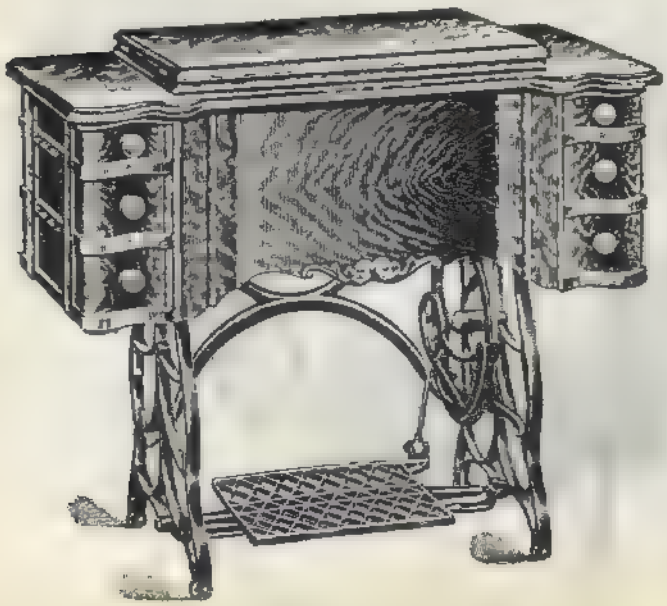
SPECIFICATIONS

The Stitch is known as a double lock stitch, which is formed by two threads being drawn together, and locked in the center of the goods, and finished alike on both sides.

The Sewing Head has full sized arm, well finished in best black enamel, relieved by attractively designed decorations. All exposed metal parts are heavily nickel plated.

The Working Parts are made of best quality steel hardened in oil, and with proper care will last a life time.

The Features of this machine compare very favorably with those of machines of much higher value, and consist in part of the following: Automatic gear releasing device, which automatically throws it out of gear when winding bobbins, automatic bobbin winder, which winds bobbins evenly and smoothly, improved stitch regulator, providing for any length of stitch, self setting needle, positive steel forged four motion feed, and a device for producing the proper stitch for any class of goods.



DROP FRONT

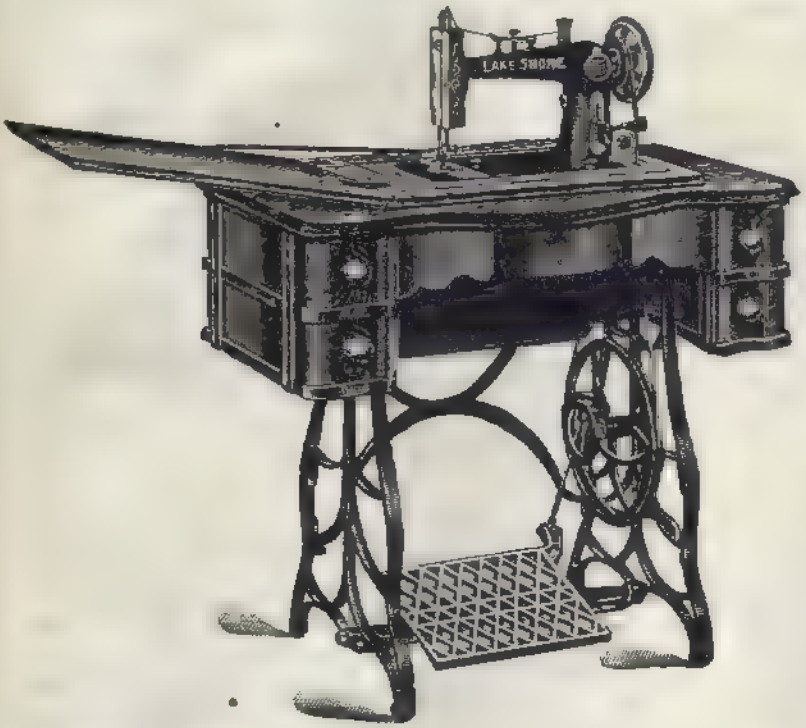
This attractive Lake Shore model is attractively designed and built throughout of well finished oak, and has six large well built side drawers. These drawer fronts together with front panel and lid are made of selected quarter sawed oak, which gives the machine an unusually attractive appearance. It is equipped with the chain automatic lifting device which automatically raises the sewing head to position with one motion of the arm.

THE STAND is ribbon design, well finished in best black baking enamel. It is quiet and easy running. The pitman connecting the treadle and wheel has non-binding ball and socket connections. It is equipped with belt retaining wheel guard which keeps machine belted when not in use.

THE ATTACHMENTS are packed in a velvet lined metal box, complete in every detail and consist of the following: tucker, ruffler, braider, binder, four hemmers of different widths, shirring slide, feller, quilter, cloth guide, four bobbins, six needles, two screw drivers, filled oil can, and illustrated book of directions.

No. 328—6 drawer, w't 130 lbs. .....each $60.40

The Lake Shore Sewing Machines



This Lake Shore model which we term medium grade to distinguish it from the strictly high grade models. It is complete and up-to-date in all respects, so far as sewing qualities are concerned.

THE CASE is attractive in appearance and substantial in construction. It is equipped with four side drawers and handy center drawer. These drawer fronts are made of quarter sawed oak. An 18 in. tape measure is transferred on table for the convenience of the operator. It is equipped with the automatic lifting device, which automatically raises the sewing head to position.

THE STAND is well braced and simple in construction. It runs exceedingly easy and smooth. The belt retainer on wheel guard is so made that it holds belt on wheel at all times.

THE ATTACHMENTS, which are exceedingly good for a machine of this grade are equipped in a metal box, and consist of the following: tucker, ruffler, braider, binder, four hemmers of different widths, shirring slide, feller, quilter, cloth guide, four bobbins, six needles, two screw drivers, filled oil can, and illustrated book of directions.

No. W226—5 drawers, w't 120 lbs. ..... each **$53.80**

La Belle Sewing Machines

This model is the best low priced machine that the present market affords. It is strictly dependable and within its limitations will perform good work, and give excellent service for a number of years.

THE CASE, which is in the form of a semi-drop cabinet, is plain and substantially built of a very good grade of oak, which is given a high varnish finish. It has four large side drawers equipped with wood pulls, and a handy center drawer. An 18 in. tape measure is inlaid on the front of table.

THE SEWING HEAD is raised to position by hand and locked in place by a simple device provided for that purpose.

THE STAND, while lighter than our better grade machines, is nevertheless strong and well braced and of excellent finish.

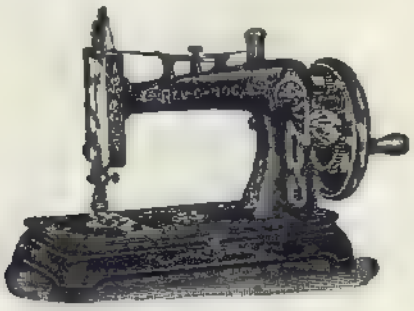
THE ATTACHMENTS furnished with this machine are packed in a neat box and consist of the following: tucker, ruffler, braider, binder, four hemmers of different widths, shirring slide, feller, quilter, cloth guide, four bobbins, six needles, two screw drivers, filled oil can and illustrated book of directions.

No. W226—5 drawers, w't 110 lbs. ..... each **$44.80**

REVONOC

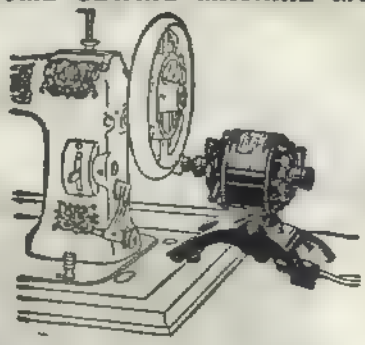
Description—These are reliable Hand Machines that may be operated by hand at high speed, as it makes three complete stitches to each revolution of the handle. Well finished with black enamel and transfer decorations and equipped wth a complete set of hemmers and accessories, including hemmer and feller, 4 hemmers of different widths, cloth guide, quilter, 6 needles, 3 bobbins, filled oil can, thread cutter and illustrated instruction book.

The mechanism of the head is the same as the La Belle, see preceding page.



No. W1000 REVONOC—W't 35 lbs. .....each $22.90

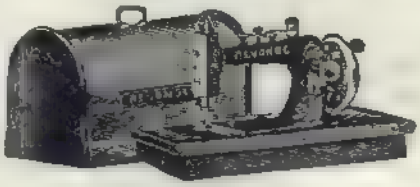
HOME SEWING MACHINE MOTORS



Easily adjusted, no tools or screws. Just place Sew-E-Z on your machine next the wheel. Attach the plug to any electric light socket and place the little pedal on the floor. A slight pressure of your foot starts the wheel.

Don't work your foot, just press a bit harder to go faster. No effort is required; no exertion whatever. So simple a child can operate it. Makes such light work that Grandma can use it. You never touch the wheel; Sew-E-Z makes it turn automatically right. No broken threads; no jerks—just a silent, steady motion which stops the instant you remove foot from pedal— and you sit in any position you please.

No. 10E—Instantly attached to any standard make sewing machine, plain or drop head cabinet style, will operate on either direct or alternating current, 60 cycles, 110 volts, consumes no more current than an ordinary lamp, 10 ft. cord and plug, w't each 10 lbs., each $26.00



Equipped with hand polished oak base and cover. Cover is fitted with a substantial metal handle so the machine may be conveniently carried.

No. W1100 REVONOC—W't 49 lbs. .....each $35.80

SEWING MACHINE BELTS

No. 69—3/16x69 in., oak tanned leather, round, solid, with hooks .....per dozen $2.90

SEWING MACHINE BELTING

Oak Tanned Leather, Round, Solid.

IN 100 FT. SPOOLS

Nos.	6	7	8	10	12
Size, in.	3/16	7/32	1/4	5/16	3/8
Per 100 ft.	$6.50	6.50	9.20	13.70	19.00

IN CUT LENGTHS

Nos.	10C	12C
Size, in.	5/16	3/8
Per 100 ft.	$19.70	25.00

The spool keeps the belting in good condition and prevents waste.

BROAD CROSS CUT SAWS

Handles must be ordered separate from saws.

—BLUE GRASS—

Blue Grass Cross Cut Saws are made of the same extra quality materials and the same infinite care characterizes their production as with other Blue Grass tools.

The needs of the Lumbermen and the peculiarities of the different timbers have been carefully studied in order to make the Blue Grass Cross Cut saw a tool that in real use would respond readily and constantly to the demands of the user under any and all conditions.

All Blue Grass Cross Cut saws are ground an even gauge throughout the entire tooth edge, and then tapered to an extra thin back, which insures quick cutting and ease of operation, with just the right flexibility and stiffness to prevent buckling.

Each saw is beautifully polished and etched altogether a tool in a class by itself —unequaled in appearance—unapproachable in performance, and covered from tip to tip with our guarantee.

Extra quality crucible spring steel, evenly tempered, polished and etched. Ground gradually thinner from teeth to back, filed and set ready for use.

—BLUE GRASS—

Canadian, Lance Tooth, Perforated, 14 gauge at tooth edge, 19 gauge at center of back, extra thin back.

Nos.	6-5½	6-6	6-6½	6-7
Length, feet	5½	6	6½	7
Width at center, inches	6⅜	6½	6⅝	6¾
Width at ends, inches	3¼	3¼	3¼	3¼
Weight each about, lbs	5	6	7¼	8½
Each	$14 40	15 75	16 95	18 00

Shipped fastened to board.

—BLUE GRASS—

Rainbow, Canadian, Lance Tooth, Perforated, 14 gauge at tooth edge, 18 gauge at center of back, thin back.

Nos.	5-5½	5-6	5-6½
Length, feet	5½	6	6½
Width at center, inches	5¾	6¼	6½
Width at ends, inches	3⅜	3¾	3¾
Weight each about, lbs	5	6	7¼
Each	$14 25	15 30	16 20

Shipped fastened to board.

—BLUE GRASS—

Polished. Half Wide. Lance Tooth, 14 gauge at tooth edge, 18 gauge at center of back, thin back.

Nos.	16-5½	16-6	16-6½
Length, feet	5½	6	6½
Width at center, inches	5½	5⅝	5¾
Width at ends, inches	3	3¼	3¼
Weight each about, lbs	6	7¼	8½
Each	$13 65	14 70	15 75

Shipped fastened to board.

—BLUE GRASS—

Lance Tooth, 14 gauge at tooth edge, 19 gauge at center of back, extra thin back.

Nos.	1-5½	1-6	1-6½	1-7
Length, feet	5½	6	6½	7
Width at center, inches	6½	7	7¼	8
Width at ends, inches	3¼	3½	3½	3½
Weight each about, lbs	6½	7¼	8½	9½
Each	$14 85	15 75	16 50	17 70

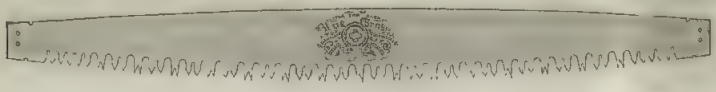
Shipped fastened to board.

BROAD CROSS CUT SAWS

Handles must be ordered separate from saws.

—BLUE GRASS—

Extra quality crucible spring steel, evenly tempered, etched. Ground gradually thinner from teeth edge to back; filed and set ready for use.



Polished. Diamond Tooth, 14 gauge at tooth edge, 19 gauge at center of back, extra thin back.

Nos.	3-5½	3-6	3-6½
Length, feet	5½	6	6½
Width at center, inches	6½	7	7⅜
Width at ends, inches	3¼	3½	3½
Weight each about, lbs	6	7¼	8½
Each	$14 85	15 75	16 50

Shipped fastened to board.

—BLUE GRASS—

Polished. Half Wide. Diamond Tooth, 14 gauge at tooth edge, 18 gauge at center of back; thin back.

Nos.	14-5½	14-6	14-6½
Length, feet	5½	6	6½
Width at center, inches	5½	5⅝	5¾
Width at ends, inches	3	3⅛	3¼
Weight each about, lbs	5¼	6	6½
Each	$12 30	13 35	14 40

Shipped fastened to board.

—BLUE GRASS—

Polished. Tuttle Tooth.

Length, feet		5	5½	6	6½	7
Width at center, inches		6¾	6⅞	7	7⅛	7¼
Width at ends, inches		3	3¼	3¼	3½	3½
Weight each about, lbs		5½	6	7¼	8½	9½
14-18 Gauge	Nos.	8-5	8-5½	8-6	8-6½	8-7
	Each	$10 35	11 40	12 30	13 20	14 55
14-19 Gauge	Nos.		9-5½	9-6	9-6½	9-7
	Each		$12 30	13 35	14 40	15 60
14-20 Gauge	Nos.		11-5½	11-6	11-6½	
	Each		$13 05	14 10	15 45	

Shipped fastened to board.

NARROW CROSS CUT SAWS

Handles must be ordered separate from saws.

—BLUE GRASS—

Extra quality spring steel, evenly tempered, etched, filed and set, ready for use. Designed for small timber.

Polished. Canadian Lance Tooth, perforated, width at ends and center 3¼ inches.

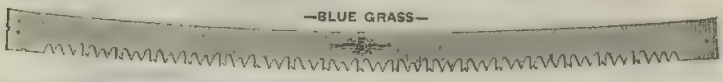
Length, feet		5	5½	6	6½
Weight each about, lbs		3	3¼	3½	4
14 Gauge throughout	Nos.	5-05	5-05½	5-06	5-06½
	Each	$6 45	7 20	7 95	9 00
14-16 Gauge, Thin Back	Nos.	6-05	6-05½	6-06	
	Each	$7 50	7 95	8 55	

—BLUE GRASS—

Polished. Great American Tooth, 14 gauge at tooth edge, width ends and center 3¼ inches.

Nos.	4-05	4-05½	4-06
Length, feet	5	5½	6
Weight each about, lbs	3	3¼	3½
Each	$6 00	6 45	7 05

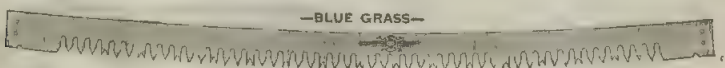
—BLUE GRASS—



Polished. Tuttle Tooth, 14 gauge at tooth edge, width at ends and center 3¼ inches.

Nos.	0-5	0-5½	0-6	0-6½
Length, feet	5	5½	6	6½
Weight each about, lbs	3	3¼	3½	4
Each	$5 40	6 00	6 45	7 05

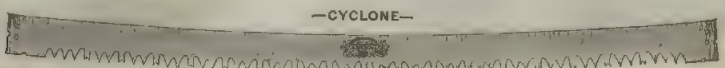
—BLUE GRASS—



Polished. Diamond Tooth, 14 gauge at tooth edge, width at ends and center 3¼ inches.

Nos.	2-05	2-05½	2-06	2-06½
Length, feet	5	5½	6	6½
Weight each about, lbs	3	3¼	3½	4
Each	$6 00	6 45	7 05	7 95

—CYCLONE—



First quality steel, tempered, polished and etched; filed and set, ready for use.

Polished. Tuttle Tooth, 14 gauge at tooth edge, width at ends and center 3¼ inches.

Nos.	10-5	10-5½	10-6	10-6½
Length, feet	5	5½	6	6½
Weight each about, lbs	3	3¼	3½	4
Each	$4 80	5 25	5 70	6 30

All of above saws shipped fastened to board.

D1

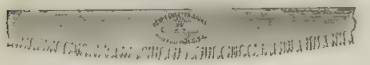
BROAD CROSS CUT SAWS

Handles Must Be Ordered Separate From Saws.

DISSTON

First quality crucible steel, evenly tempered, polished and etched; ground gradually thinner from teeth to back; filed and set, ready for use.

DISSTON SUWANEE



Lance Tooth, Perforated. 14 gauge at tooth edge, 20 gauge at back. Being 6 gauges thinner on back than on cutting edge, insures free running and fast cutting.

Nos.	35½	36	36½
Length, feet	5½	6	6½
Width at center, in.	6½	7	7¾
Width at ends, in.	3¾	3¼	3⅜
Weight each, lbs.	5½	7	8
Each	$16 20	18 45	21 75

Shipped fastened to board.

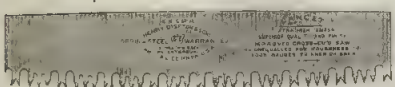
DISSTON BUZZ

Lance Tooth, Perforated. 14 gauge at tooth edge, 19 gauge at back. 5 gauges thinner on back than on cutting edge.

Nos.	470-5½	470-6	470-6½
Length, feet	5½	6	6½
Width at center, in.	5¾	6	6¼
Width at ends, in.	3¼	3¼	3¼
Weight each about, lbs.	6	7	8
Each	$16 20	18 45	21 75

Shipped fastened to board.

DISSTON



Lancet Tooth, 14 gauge at tooth edge, 18 gauge at center of back; thin back.

Nos.	363-5½	363-6	363-7
Length, feet	5½	6	7
Width at center, inches	6⅞	7⅛	7¾
Width at ends, inches	3½	3⅝	3⅞
Weight each about, lbs	6½	8	9½
Each	$13 50	14 70	15 90

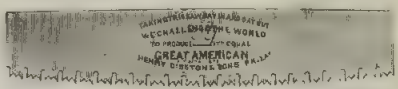
Shipped fastened to board.

BROAD CROSS CUT SAWS

Handles Must Be Ordered Separate From Saws.

DISSTON

First quality crucible steel, evenly tempered; polished and etched; ground gradually thinner from teeth to back; filed and set, ready for use.

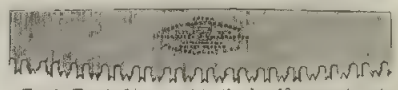


Great American Tooth, 14 gauge at tooth edge, 18 gauge at center of back; thin back.

Nos.	1GA-5	1GA-5½	1GA-6
Length, feet	5	5½	6
Width at center, inches	6¾	7	7¾
Width at ends, inches	3⅜	3½	3⅝
Weight each about, lbs.	5½	7	7½
Each	$11 25	12 45	13 50

Shipped fastened to board.

DISSTON

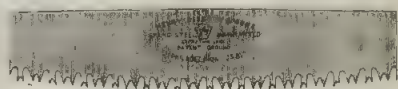


Tuttle Tooth, 14 gauge at tooth edge, 18 gauge at center of back; thin back.

Nos.	DT18-5½	DT18-6	DT18-7
Length, feet	5½	6	7
Width at center, in.	7	7¼	7¾
Width at ends, in.	3½	3⅝	3⅞
Wt. each about, lbs.	6½	8	9
Each	$11 40	12 45	14 55

Shipped fastened to board.

DISSTON

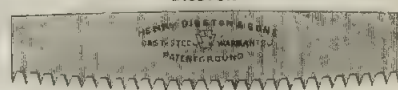


Tuttle Tooth, 14 gauge at tooth edge, 16 gauge at center of back; thin back.

Nos.	2-5½	2-6	2-6½
Length, feet	5½	6	6½
Width at center, inches	7	7¼	7½
Width at ends, inches	3½	3⅝	3½
Weight each about, lbs	6½	8	8½
Each	$9 90	10 80	11 70

Shipped fastened to board.

DISSTON



Plain or Peg Tooth, 14 gauge at tooth edge, 16 gauge at center of back; thin back.

Nos.	2P-5½	2P-6
Length, feet	5½	6
Width at center, in.	7	7¼
Width at ends, in.	3⅜	3⅝
Wt. each about, lbs.	5½	7
Each	$9 90	10 80

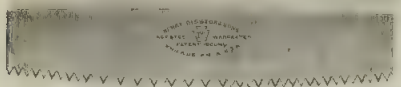
Shipped fastened to board.

BROAD CROSS CUT SAWS

Handles Must Be Ordered Separate From Saws.

DISSTON

First quality crucible steel, evenly tempered, polished and etched, ground gradually thinner from teeth to back; filed and set, ready for use.



Tenon Tooth.

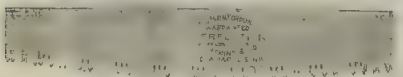
Fourteen gauge at tooth edge, 16 gauge at center of back; thin back.

Nos.	2T-4½	2T-5	2T-5½	2T-6
Length, feet	4½	5	5½	6
Width at center, inches	6⅛	6⅝	7	7⅛
Width at ends, inches	3⅜	3⅝	3⅞	3⅞
Weight each about, lbs	4½	5½	5½	7
Each	$8 10	9 00	9 90	10 80

Shipped fastened to board

ATKINS

High grade saw steel, thoroughly tempered; polished and etched; ground gradually thinner from teeth to back; filed and set, ready for use.



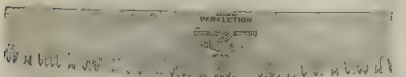
Perfection Tooth, Perforated.

Silver steel, perfection tooth, perforated, **Segment Ground;** 14 gauge at tooth edge, 20 gauge at center of back; extra thin back.

Nos.	5A-5½	5A-6	5A-6½
Length, feet	5½	6	6½
Width at center, inches	6⅞	7	7⅛
Width at ends, inches	3⅛	3¼	3⅜
Weight each about, lbs	5	7	7½
Each	$16 14	18 54	21 72

Shipped fastened to board.

ATKINS



Perfection Lance Tooth, Perforated.

Silver steel, perfection lance tooth, perforated, **Half Wide Segment Ground;** 14 gauge at tooth edge, 20 gauge at center of back; extra thin back.

Nos.	4-5½	4-6	4-6½	4-7
Length, feet	5½	6	6½	7
Width at center, inches	5½	6	6⅛	6⅛
Width at ends, inches	3¼	3¼	3⅜	3⅜
Weight each about, lbs	5	6	6½	7
Each	$15 90	18 54	21 60	23 58

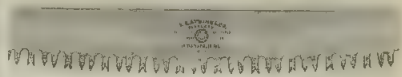
Shipped fastened to board.

BROAD CROSS CUT SAWS

Handles Must Be Ordered Separate From Saws.

ATKINS

High grade saw steel, thoroughly tempered, polished and etched; ground gradually thinner from teeth to back; filed and set, ready for use.



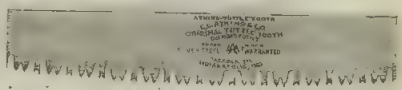
Tuttle Tooth.

Peerless Silver steel, Tuttle tooth, half wide, 14 gauge at tooth edge, 20 gauge at center of back; extra thin back.

Nos.	3A-5½	3A-6	3A-6½	3A-7
Length, feet	5½	6	6½	7
Width, at center, ins.	5⅛	6	6⅛	6⅛
Width at end, ins	3¼	3¼	3¼	3¼
Weight each about, lbs.	5	6	6½	7
Each	$16 14	18 54	21 72	23 58

Shipped fastened to board.

ATKINS



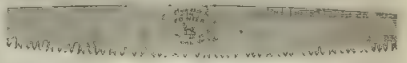
Tuttle Tooth.

Made from Atkins Silver Steel and ground extra thin back. 14 gauge at tooth edge, 20 gauge at center of back.

Nos.	517-5½	517-6	517-6½	517-7
Length, feet	5½	6	6½	7
Width center, in	6⅞	7	7⅛	7⅞
Width ends, in	3¼	3¼	3½	3½
Weight each, lbs	6	7	8	10
Each	$16 14	18 51	21 75	23 58

Shipped fastened to board.

ATKINS



Dexter Tooth Pointer, special steel, Dexter tooth, 14 gauge at tooth edge, 18 gauge at center of back; thin back.

Nos.	APD18-5½	APD18-6	APD18-6½	APD18-7
Length, feet	5½	6	6½	7
Width at center, inches	6⅜	7	7⅜	8
Width at ends, inches	3	3½	3½	3¼
Weight each about, lbs.	6	7	8½	10
Each	$12 30	13 35	14 40	15 60

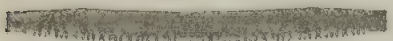
Shipped fastened to board.

BROAD CROSS CUT SAWS

Handles must be ordered separate from saws.

ATKINS

High grade saw steel, thoroughly tempered, polished and etched; ground gradually thinner from teeth to back; filed and set, ready for use.

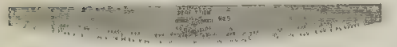


Dexter Tooth, Moss Back—High grade special steel; Dexter tooth; 14 gauge at tooth edge, 18 gauge at center of back; thin back.

Nos.	276-5½	276-6	276-6½
Length, feet	5½	6	6½
Width at center, inches	5¾	6⅝	6½
Width at ends, inches	3⅝	3¾	3⅞
Weight each, lbs	6¼	6½	7½
Each	$16 35	17 85	19 35

Packed loose; cutting edge protected with wood strip.

PERFECTION FALLING



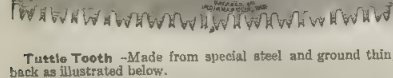
Perfection Tooth, Perforated.

Silver steel perfection tooth, perforated, 14 gauge at toothed edge; 17 gauge at center of back; extra thin back.

Nos.	12-5	12-5½	12-6
Length, feet	5	5½	6
Width at center, inches	4	4⅝	5¼
Width at ends, inches	3¼	3⅜	3½
Weight each about, lbs	3¾	4¼	5
Each	$13 74	16 14	18 54

Shipped fastened to board.

ATKINS



Tuttle Tooth—Made from special steel and ground thin; back as illustrated below.

Length, feet	5	5½	6	6½	7
Width center, in	6¾	6⅞	7	7⅛	7¼
Width ends, in	3	3¼	3½	3⅝	3¾
Weight each, lbs	4¾	5	7	8	10
14-19 Gauge Nos.		332-5½	332-6	332-6½	332-7
14-19 Gauge Each		$12 30	13 35	14 40	15 60
14-18 Gauge Nos.	331-5	331-5½	331-6	331-6½	331-7
14-18 Gauge Each	$10 35	11 40	12 45	13 50	14 55
14-20 Gauge Nos.	332½-5	332½-5½	332½-6	332½-6½	
14-20 Gauge Each	$11 88	13 11	14 25	15 51	

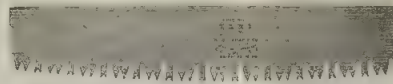
Shipped fastened to board.

BROAD CROSS CUT SAWS

Handles must be ordered separate from saws.

ATKINS

High grade saw steel, thoroughly tempered, polished and etched; ground gradually thinner from teeth to back; filed and set, ready for use.

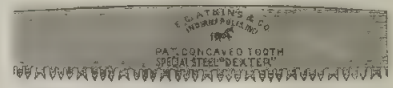


Tuttle Tooth—Hero, special steel, Tuttle tooth, 14 gauge at tooth edge, 18 gauge at center of back; thin back.

Nos.	AHT18-5½	AHT18-6	AHT18-6½
Length, feet	5½	6	6½
Width at center, inches	6⅞	7	7½
Width at ends, inches	3¼	3¼	3½
Weight each about, lbs	5	7	8
Each	$9 90	10 68	11 58

Shipped fastened to board.

ATKINS

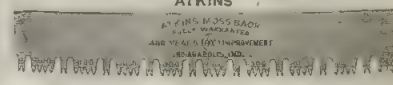


Dexter Tooth—Special steel, Dexter tooth, 14 gauge at tooth edge, 19 gauge at center of back; extra thin back.

Nos.	220A-5½	220A-6	220A-6½	220A-7
Length, feet	5½	6	6½	7
Width at center, inches	6½	7	7¾	8
Width at ends, inches	3¼	3½	3⅝	3¾
Weight each about, lbs	6	7	8½	10
Each	$13 50	14 70	15 90	17 10

Shipped fastened to board.

ATKINS

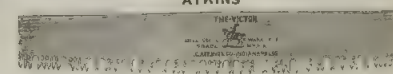


Lance Tooth, Perforated, Moss Back—Special nickel steel, lance tooth, perforated, diamond point, 14 gauge at tooth edge, 18 gauge at center of back; thin back.

Nos.	278-5½	278-6	278-6½	278-7
Length, feet	5½	6	6½	7
Wth. at center, in	5¾	6¼	6¾	6¾
Wth. at ends, in	3⅝	3¾	3¾	3¾
Wght. each about, lb.	5	6	7	7½
Each	$14 04	15 45	16 95	18 21

Shipped fastened to board.

ATKINS



Victor Tooth, Perforated—Special steel, Victor tooth perforated, 14 gauge at tooth edge, 18 gauge at center of back. Thin back.

Nos.	225-5½	225-6	225-6½
Length, feet	5½	6	6½
Width at center, inches	6¼	6¾	6¾
Width at ends, inches	4	4	4
Weight each about, lbs	5	6	7
Each	$14 40	15 75	17 10

Shipped fastened to board.

D 1

BROAD CROSS CUT SAWS

Handles must be ordered separate from saws.

ATKINS

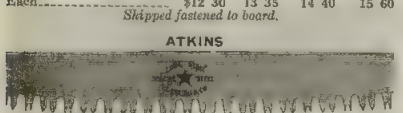
High grade saw steel, Atkins tempered, polished and etched, ground gradually thinner from teeth to back, filed and set, ready for use.

Diamond Tooth—Special steel, diamond tooth, 14 gauge at tooth edge, 18 gauge at center of back; thin back.

Nos.	222-5½	222-6	222-6½	222-7
Length, feet	5½	6	6½	7
Wth. at center, in	6½	7	7¾	8
Wth. at ends, in	3¼	3¼	3¼	3¼
Wght. each about, lbs	5	6	6¼	7
Each	$12 30	13 35	14 40	15 60

Shipped fastened to board.

ATKINS



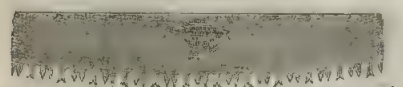
Diamond Tooth, Lone Star Special steel, diamond tooth, 14 gauge at tooth edge, 18 gauge at center of back; thin back.

Nos.	223-5½	223-6	223-6½
Lgth., feet	5½	6	6½
Wth. center, in	5¾	5⅞	5¾
Wth. ends, in	3	3	3
Wt. each about, lbs	5	6	6½
Each	$12 30	13 35	14 40

Shipped fastened to board.

SIMONDS

High grade crucible steel, crescent ground and tempered, polished and etched; filed and set, ready for use.

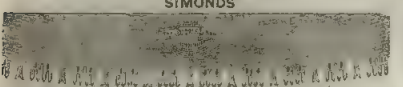


Champion Tooth—14 gauge at tooth edge, 16 gauge on back at ends, 19 gauge on back at center; extra thin back.

Nos.	13-5	13-5½	13-6
Length, feet	5	5½	6
Width at center, inches	6	6⅝	7
Width at ends, inches	3¼	3¼	3¼
Weight each about, lbs	6½	6	7½
Each	$14 25	16 20	18 90

Shipped fastened to board.

SIMONDS



Lance Tooth, Perforated—14 gauge at tooth edge 16 ga. on back at ends, 19 ga. on back at center; extra thin back

Nos.	22-5½	22-6	22-6½	22-7
Length, feet	5½	6	6½	7
Width at center, inches	6⅝	7	7¾	7⅞
Width at ends, inches	3¼	3¼	3¼	3¼
Weight each about, lbs	5½	7¼	8½	9½
Each	$16 20	18 90	21 90	24 90

Shipped fastened to board.

BROAD CROSS CUT SAWS

Handles must be ordered separate from saws.

SIMONDS

High grade crucible steel; **radial** ground and tempered; polished and etched; filed and set ready for use.

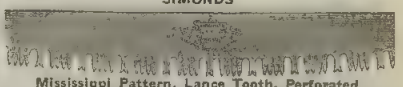
Mississippi Pattern, Diamond Tooth.

Fourteen gauge at tooth edge, 16 gauge on back at ends, 19 gauge on back at center; extra thin back.

Nos.	316-5½	316-6	316-6½	316-7
Length, feet	5½	6	6½	7
Width at center, inches	5⅝	5⅞	6⅛	6⅜
Width at ends, inches	3¼	3¼	3¼	3¼
Weight each about, lbs	5	6	7	8
Each	$16 20	18 90	21 90	24 90

Shipped fastened to board.

SIMONDS



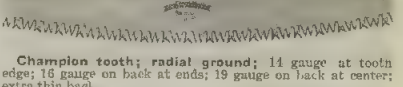
Mississippi Pattern, Lance Tooth, Perforated.

Fourteen gauge at tooth edge, 16 gauge on back at ends, 19 gauge on back at center; extra thin back.

Nos.	324-5½	324-6	324-6½	324-7
Length, feet	5½	6	6½	7
Width at center, inches	5⅝	5⅞	6⅛	6⅜
Width at ends, inches	3¼	3¼	3¼	3¼
Weight each about, lbs	5	6	7	8
Each	$16 20	18 90	21 90	24 90

Shipped fastened to board.

SIMONDS

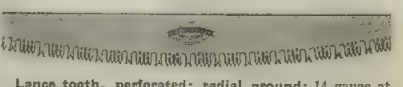


Champion tooth; radial ground; 14 gauge at tooth edge; 16 gauge on back at ends; 19 gauge on back at center; extra thin back.

Nos.	1300-5½	1300-6
Length, feet	5½	6
Width at center, ins	6⅝	7
Width at ends, inches	3¼	3¼
Weight each about, lbs	6½	7
Each	$17 55	20 25

Shipped fastened to board.

SIMONDS



Lance tooth, perforated; radial ground; 14 gauge at tooth edge; 16 gauge on back ends; 19 gauge on back at center; extra thin back.

Nos.	2200-5½	2200-6
Length, feet	5½	6
Width at center, inches	6⅝	7
Width at ends, inches	3¼	3¼
Weight each about, lbs	5⅝	6½
Each	$17 55	20 25

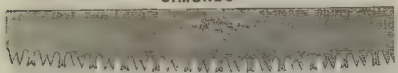
Shipped fastened to board.

D 1

BROAD CROSS CUT SAWS

Handles must be ordered separate from the saws.

SIMONDS



Mississippi Pattern, Champion Tooth.

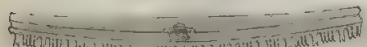
High grade crucible steel, crescent ground and tempered, polished and etched; filed and set, ready for use.

Fourteen gauge at tooth edge, 16 gauge on back at ends, 19 gauge on back at center; extra thin back.

Nos.	326-6	326-6½	326-7
Length, feet	6	6½	7
Width at center, inches	5⅞	6⅛	6⅜
Width at ends, inches	3¼	3⅜	3½
Weight each about, lbs	6½	7⅛	8
Each	$18 90	21 90	24 90

Shipped fastened to board.

SIMONDS



Lance Tooth, Perforated.

High grade crucible steel, crescent ground and tempered, polished and etched; filed and set, ready for use.

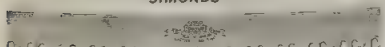
14 gauge at tooth edge; 16 gauge on back at ends, 19 gauge on back at center; extra thin back.

Nos.	133-5½	133-6	133-6½
Length, feet	5½	6	6½
Width at center, inches	5½	5¾	6
Width at ends, inches	3¼	3¼	3¼
Weight each about, lbs	4½	5	5½
Each	$16 20	18 90	21 90

Shipped fastened to board.

NARROW CROSS CUT SAWS

SIMONDS



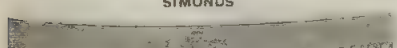
Tuttle Tooth. High grade crucible steel, crescent ground and tempered, polished and etched; filed and set, ready for use.

Fourteen gauge at tooth edge, width at ends 3¼ in.

Nos.	315-5	315-5½	315-6
Length, feet	5	5½	6
Width at center, in	4⅝	4⅞	4⅞
Weight each about, lbs	3½	4	5
Each	$14 25	16 20	18 90

Shipped fastened to board.

SIMONDS



Lance Tooth, Perforated. High grade crucible steel, evenly tempered, polished and etched; carefully filed and set, ready for use. Fourteen gauge at tooth; width at ends 3¼ ins.

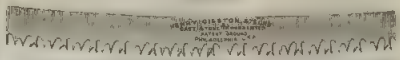
Nos.	325-5	325-5½	325-6
Length, feet	5	5½	6
Width at center, in	4⅜	4⅝	4⅞
Weight each about, lbs	3½	4	5
Each	$14 25	16 20	18 90

Shipped fastened to board.

NARROW CROSS CUT SAWS

Handles must be ordered separate from the saws.

DISSTON



Champion Tooth.

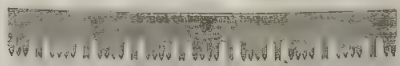
First quality crucible steel, evenly tempered, polished and etched; carefully filed and set, ready for use.

Fourteen gauge at tooth edge, width at ends and center 3¼ inches.

Nos.	286-5	286-5½	286-6
Length, feet	5	5½	6
Weight each about, lbs	3½	4	5
Each	$6 60	7 20	7 95

Shipped fastened to board.

ATKINS



Victor Tooth, Perforated.

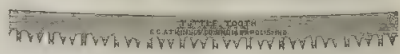
Special saw steel, thoroughly tempered, polished and etched filed and set, ready for use.

Fourteen gauge at tooth edge, width at ends and center 3¼ inches.

Nos.	386-5	386-5½	386-6
Length, feet	5	5½	6
Weight each about, lbs	3½	4	4½
Each	$7 05	7 80	8 40

Shipped fastened to board.

ATKINS



Tuttle Tooth.

High grade saw steel, thoroughly tempered, polished and etched, ground gradually thinner from teeth to back, filed and set, ready for use.

Fourteen gauge at tooth edge, width at ends and center 3¼ inches.

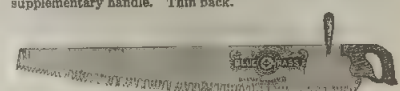
Nos.	379-5	379-5½	379-6	379-6½
Length, feet	5	5½	6	6½
Weight each about, lbs	3½	4	4½	5
Each	$6 00	6 60	7 20	7 80

Shipped fastened to board.

ONE MAN CROSS CUT SAWS

—BLUE GRASS—

Special steel, evenly tempered, polished and etched; filed and set, ready for use. Beechwood handle, varnished edges, one supplementary handle. Thin back.



Canadian Lance Tooth, Perforated.

Nos.	23-3	23-3½	23-4	23-4½
Length, feet	3	3½	4	4½
Weight each about, lbs	3½	4	5	6
Each	$6 60	7 95	8 70	9 90

Twenty-five in a wood case.

MOSSBERG WRENCH SETS

Automobile Set

Set consists of 1 ratchet handle, No. 350; 1 extension bar No 351, 9½ in long; 1 universal joint No 336; double end offset screw driver, 21 hexagon rust proof sockets, as follows

Hexagon

Hexagon Sockets, In	FITTING U. S. Nuts & Bolts, In....	S. A. E. Nuts & Screws, In.	Mfgrs' Std Bolts, In....	Cap Screws Size Inches
15-32	-	1-4	-	1-4
1-2	-	-	5-16	-
17-32	1-4	5-16	-	5-16
19-32	-	3-8	3-8	3-8
5-8	5-16	-	-	-
21-32	-	7-16	-	7-16
11-16	-	-	7-16	-
23-32	3-8	-	-	-
25-32	-	1-2	1-2	1-2
13-16	7-16	-	-	-
27-32	-	-	-	9-16
7-8	-	-	9-16	-
29-32	1-2	9-16	-	5-8
31-32	-	5-8	5-8	-
1	9-16	-	-	-
1 1-32	-	11-16	-	3-4
1 3-32	5-8	3-4		-
1 5-32	-	-	3-4	7-8
1 9-32	3-4	7-8	-	1

Two Special Hex Spark Plug Sockets 29-32 x 4 in and 1 5-32 x 4 in.

NO.	Wgt Set	SET
10	8 lb.	$9 00

ONE SET IN WOODEN CASE (HINGED LID HOOK FASTENER.)

Ford Double End

Set consists of 1 oval socket to fit main bearing nuts and bolts of models 10 to 21, 5 round steel bars 8 inches long fitting nuts, bolts and screws, as follows:

Hexagon

Hexagon Sockets, In	FITTING U. S. Bolt Inches	Mfgrs' Std. Hex. In.	Mfgrs' Std. Nut Inches	S. A. E. Screw, Inches	Wentworth Bolt Inches	Cap Screws Size Inches
17-32	1-4	-	-	5-16	1-4	5-16
19-32	-	3-8	-	3-8	-	3 8
21-32	-	-	3-8	7-16	-	7-16
23 32	3-8	-	-	-	3-8	-
25-32	-	1-2	-	1-2	-	1-2
29-32	1-2	-	-	9-16	-	5-8
31-32	-	5-8	-	5-8	-	-

One Hex. Socket 3-32 to fit Champion "X" Plug

Square

Square Sockets, In	FITTING U. S. Bolt Inches	Mfgrs' Std. Hexd. In.....	Mfgrs' Std. Nut Inches	Set Screws Size Inches	Clutch Screws Size Inches	Cap Screws Size Inches
19-32	-	3-8	5-16	9-16	3-8	7-16

NO.	Wgt Set	SET
17	5 lb.	$3 00

ONE SET IN CANVAS KIT

Automobile and Motor Boat Sets

Set consists of 1 ratchet wrench handle No 350- 1 extension tube No 351, 9½ in long; 15 mottled, pressed steel rust - proof black sockets, fitting the standard size bolts and screws, as follows -

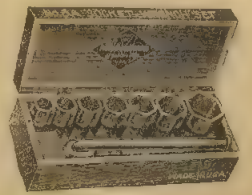
Hexagon

Hexagon Sockets In	FITTING U. S. Nuts & Bolts In	S. A. E. Nuts & Screws, In	Cap Screws Size Inches
13-32	-	-	-
15-32	-	1 4	1-4
17-32	1-4	5-16	5-16
19-32	-	3-8	3-8
5-8	5-16	-	-
21-32	-	7-16	7-16
23-32	3-8	-	-
25-32	-	1-2	1-2
13-16	7 16	-	-
27 32	-	-	9-16
29-32	1-2	9-16	5-8
1	9-16	-	-
1 1-32	-	11-16	3-4
1 3-32	5-8	3 4	-

One Special Hexagon Spark Plug Socket 29-32 x 4 in.

NO.	Wgt Set	SET
11	6 lb.	$6 50

ONE SET IN WOODEN CASE (HINGED LID FASTENER)



Gas Engine and Pump Sets

Consists of 1 folding socket wrench handle No 310, 5½ in long, two sizes screw driver bits, rust - proof black sockets, to fit nuts, set screws and bolts as follows:

Hexagon

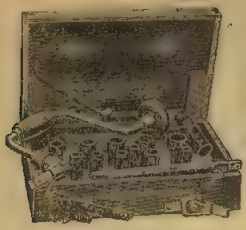
Sizes of Hexagon Sockets	FITTING U. S. Std Nuts and Bolts—Bolt Sizes, In	Cap Screws— Screw Sizes, Inches	S. A. E. Std. Nuts and Screws—Screw Sizes, In
17-32	1-4	5-16	5-16
19-32	-	3-8	3-8
21-32	5-16	7-16	7-16
23-32	3-8	-	-
13-16	7-16	1-2	-
29-32	1-2	5-8	9-16
1 3-32	5-8	3-4	3-4

Including one Special Spark Plug Socket Wrench 29-32x4 inches.

NO.	Wgt. Set	SET
6-A	3 lb.	$3.00

ONE SET IN STRONG LEATHEROID CASE

MOSSBERG WRENCH SETS



Ford Sets

These wrenches are particularly adapted to Ford work—two sockets are tapered to fit small clearance places (the rear axle housing nuts, cylinder head cap screws, etc.) Set consists of 1 No. 358 ratchet brace socket wrench handle; 1 extension bar, No. 351; 1 universal joint, No. 336; 1 double end offset screw driver; 1 monkey wrench, 5 inches long; special 19-32 in. oval socket for three crank shaft bearing bolts (the 19-32 in. square socket fits the latest crank shaft bearing nuts and bolts); 8 hexagon and 4 square pressed steel rust-proof sockets, as follows·

Hexagon

Sizes of Hexagon Sockets, Inches	FITTING				
	U.S.S. Nuts and Bolts—Bolt Sz., In.	S.A.E. Nuts and Screws—Scr. Sz., In.	Monitor Nuts and Bolts—Bolt Sz., In.	Cap Screws—Screw Size, Inches	Coach Screws—Screw Size, Inches
17-32	1-4	5-16	-	5-16	-
19-32	-	3-8	3-8	3-8	3-8
21-32	-	7-16	-	7-16	-
23-32	3-8	-	7-16	-	-
25-32	-	1-2	1-2	1-2	1-2
29-32	1-2	9-16	-	5-8	-
31-32	-	5-8	5-8	-	5-8

One Hexagon Spark Plug Socket, 31-32 inch.

Square

Sizes of Square Sockets, Inches	FITTING				
	Cap Screws—Screw Size, Inches	Set Screws—Screw Size, Inches	Coach Screws—Screw Size, Inches	U. S. Nuts—Bolt Size, Inches	
15-32	5-16	7-16	-	-	
19-32	7-16	9-16	3-8	-	

19-32 Square Socket to serve as connection fitting.

NO.	Wt. Set	SET
49	7 lb.	$8.50

Ford Wrench Sets

Five sizes of sockets that fit the nuts that need the most adjustments and handles especially designed for this work. Two sizes of these sockets are tapered to fit nuts otherwise difficult to adjust: 17-32 hexagon socket for rear axle housing nuts, and 19-32 hexagon for engine base bolts. Set consists of 1 double end vertical or offset handle; 17-32 tapered hexagon socket; 19-32 tapered hexagon socket; 21-32 cylinder head cap screws; 25-32 hexagon; oval for main bearing bolts. Rust-proof black finish.

NO.	Wgt. Set	SET
33	1¼ lb	$2.75

Same as No. 33, except has ratchet handle No. 355

NO.	Wgt. Set	SET
34	1¼ lb.	$3.75

ONE SET IN ENAMELED DUCK CASE

Automobile, Motor Boat and Aeroplane Sets

Set consists of one offset socket wrench handle No. 320, 10 inches long; one take-down T socket wrench handle No. 340; fifteen hexagon rust-proof black sockets, to fit nuts, bolts and screws, as follows—

Hexagon

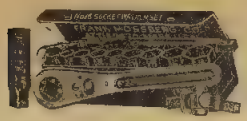
Sizes of Hexagon Sockets, Inches	FITTING		
	U.S. Std. Nuts and Bolts—Bolt Sz., In.	Cap Screws—Screw Size, Inches	Coach Screws—Screw Size, Inches
13-32	-	-	1-4
15-32	-	1-4	-
17-32	1-4	5-16	5-16
19-32	-	3-8	3-8
5-8	5-16	-	-
21-32	-	7-16	-
23-32	3-8	-	7-16
25-32	-	1-2	1-2
13-16	7-16	-	-
27-32	-	9-16	-
29-32	1-2	5-8	9-16
1	9-16	-	5-8
1 1-32	-	3-4	-
1 3-32	5-8	-	-

Including one Hexagon Spark Plug Socket Wrench 29-32x4 inches.

NO.	Wgt. Set	SET
7	6 lb.	$5.50

ONE SET IN WOODEN CASE. (HINGED LID, HOOK FASTENER.)

MOSSBERG WRENCH SETS



Concentrated Equipment Sets

Sets consist of one Mossberg No. 350 handle; one No. 351 tubular extension bar, 9½ inches long; one No. 336 universal joint; one double end offset screw driver; 14 sizes of guaranteed pressed steel sockets, hexagon and square, rust-proof, black finish, as follows:

Hexagon

Sizes of Hexagon Sockets, Inches	FITTING: U. S. Std. Nuts and Bolts—Bolt Sz., In.	S. A. E. Std. Nuts and Screws—Scr. Sz., In.	Manufacturers' Std. Bolts—Bolt Sz., In.	Cap Screws—Screw Sizes, Inches	Coach Screws—Screw Sizes, Inches
17-32	1-4	5-16	-	5-1■	-
19-32	-	3-8	3-8	3-8	3-8
21-32	-	7-16	-	7-16	-
23-32	3-8	-	-	-	-
25-32	-	1-2	1-2	1-2	1-2
27-32	-	-	-	9-16	-
29-32	1-2	9-16	-	5-8	-
31-32	-	5-8	5-8	-	5-8

One Spark Plug Socket 29-32x4 inch opening

Square

Sizes of Square Sockets, Inches	FITTING: Cap Screws—Screw Sizes, Inches	Set Screws—Screw Sizes, Inches	Coach Screws—Screw Sizes, Inches	U. S. Std. Nuts—Bolt Sizes, Inches
13-32	1-4	3-8	1-■	-
15-32	5-16	7-16	-	-
17-32	3-8	1-2	5-16	1-4
19-32	7-16	9-16	3-8	-
21-32	1-2	5-8	-	5-16
23-32	9-16	-	-	3-8
25-32	5-8	3-4	1-2	-
29-32	3-4	7-8	-	1-2
1 1-32	-	1	-	9-16
1 5-32	7-8	-	3-4	-
1 9-32	1	-	-	3-4

NO. 16 — Wgt. Set 10 lb. — SET $18.00

ONE SET IN WOODEN CASE. (HINGED LID, HOOK FASTENER.)

Automobile Socket Wrench Sets

Especially adaptable for automobile and shop work, and cover a range of sizes which will enable the user to do quick and efficient work.

Set consists of 1 take-down reversible handle wrench, nickel plated; 1 swivel or universal joint; 1 9½-in. extension bar; 1 1⅝-in. extension bar; 1 offset screw driver; 28 hexagon and 8 square pressed steel rust-proof black sockets, as follows—

Hexagon

Sizes of Hexagon Sockets, Inches	FITTING: U. S. Std. Nuts and Bolts—Bolt Sz., In.	S. A. E. Std. Nuts and Screws—Scr. Sz., In.	Manufacturers' Std. Bolts—Bolt Sz., In.	Cap Screws—Screw Sizes, Inches	Coach Screws—Screw Sizes, Inches
5-16	-	-	-	-	-
11-32	-	-	-	-	-
3-8	-	-	-	-	-
13-32	-	-	1-4	-	1-4
7-16	-	-	-	-	-
15-32	-	1-■	-	1-4	-
1-2	-	-	5-16	-	5-16
17-32	-	5-16	-	5-16	-
9-16	1-4	-	-	-	-
19-32	-	3-8	3-8	3-8	3-8
5-8	5-16	-	-	-	-
21-32	-	7-16	-	7-16	-
11-16	-	-	7-16	-	7-16
23-32	3-8	-	-	-	-
3-4	-	-	-	-	-
25-32	7-16	1-2	1-2	1-3	1-2
13-16	-	-	-	-	-
27-32	-	-	-	9-16	-
7-8	-	-	9-16	-	9-16
29-32	1-2	9-16	-	5-8	-
15-16	-	-	-	-	-
31-32	-	5 8	5-8	-	5-8
1	9-16	-	-	-	-
1 1-32	-	11-16	-	3-4	-
1 3-32	5-8	3-4	-	-	-
1 5-32	-	-	3-4	7-8	3-4
1 9-32	3-4	7-8	-	■	-

One Special Hexagon Spark Plug Socket Wrench 29-32x4 inches.

Square

Sizes of Square Sockets, Inches	FITTING: U. S. Standard Nuts—Bolt Sz. In.	Cap Screws—Screw Sizes, Inches	Set Screws—Screw Sizes, Inches	Coach Screws—Screw Sizes, Inches
13-32	-	1-4	3-■	1-4
17-32	1-4	3-8	1-2	5-16
21-32	5-16	1-2	5-8	-

NO. 1-AC — Wgt. Set 10 lb. — SET $15 00

ONE SET IN WOODEN CASE. (HINGED LID, HOOK FASTENER.

MOSSBERG WRENCH SETS

Machinists' Sets

Ideal repair and assembly set of socket wrenches for factory & general shop work. Set consists of one ratchet handle No. 350; 1 extension bar No. 351, 9½ in. long; universal joint No. 336; double end offset screw driver; 26 pressed steel rust - proof black sockets, as follows—

Hexagon

Hexagon Sockets, In.	FITTING: U.S. Nuts & Bolts, In...	FITTING: Mfgrs' Bolts, In...	FITTING: S.A.E. Nuts & Screws, In.	FITTING: Cap Screws Size Inches
15-32	-	-	-	1-4
1-2	-	5-16	-	-
17-32	1-4	-	5-16	5-16
19-32	-	3-8	3-8	3-8
5-8	5-16	-	-	-
21-32	-	-	7-16	7-16
11-16	-	7-16	-	-
23-32	3-8	-	-	-
25-32	-	1-2	1-2	1-2
13-16	7-16	-	-	-
27-32	-	-	-	9-16
7-8	-	9-16	-	-
29-32	1-2	-	9-16	5-8
31-32	-	5-8	5-8	-
1	9-16	-	-	-
1 1-32	-	-	11-16	3-4
1 3-32	5-8	-	3-4	-
1 5-32	-	3-4	-	7-8
1 9-32	3-4	-	7-8	1

Square

Square Sockets, In.	FITTING: Cup Screws Size Inches	FITTING: Set Screws Size Inches	FITTING: Couch Scrs. Size Inches	FITTING: U. S. Bolt Sizes Inches
13-32	1-4	3-8	1-4	-
17-32	3-8	1-2	5-16	1-4
19-32	7-16	9-16	3-8	-
21-32	1-2	5-8	-	5-16
25-32	5-8	3-4	1-2	-
1 1-32	-	1	-	9-16
1 5-32	7-8	-	3-4	-

NO. Wgt. Set — SET

2 8 lb. $9.00

ONE SET IN WOODEN CASE. (HINGED LID, HOOK FASTENER.)

Heavy Duty Socket Sets

In this set is a connection bushing that fits both No. 357 handle and the long extension tube, which reduces opening and enables the user to employ them on the small series sets, which embrace sizes 5-16 to 1 9-32 in. The universal joint and long handled wrench are essential features. This set is composed of ratchet socket wrench handle No. 357, 18 in. long; offset socket wrench handle No. 324; 10-in. extension tube No. 348; 18-in. extension tube No. 349; universal joint No. 337; connection bushing for small series sockets No. 338; 15 heavy duty pressed steel rust-proof black sockets, as follows—

Hexagon

Sizes of Hexagon Sockets, Inches	FITTING: U. S. Standard Bolt Size, Inches	FITTING: S. A. E. Standard Screw Size, Inches
29-32	1-2	9-16
1 3-32	5-8	3-4
1 9-32	3-4	7-8
1 15-32	7-8	1
1 21-32	1	1 1-8
1 27-32	1 1-8	1 1-4
2 1-32	1 1-4	1 3-8
2 7-32	1 3-8	1 1-2
2 13-32	1 1-2	

Square

Sizes of Square Sockets, Inches	FITTING: U. S. Standard Bolt Size, Inches	FITTING: Set Screws— Screw Size, Inches
29-32	1-2	7-8
1 3-32	5-8	—
1 9-32	3-4	1 1-4
1 15-32	7-8	—
1 21-32	1	—
2 1-32	1 1-4	—

NO. Wgt. Set — SET

20 10 lb. $20.00

ONE SET IN WOODEN CASE. (HINGED LID, HOOK FASTENER.)

Socket Assortment

This assortment of sockets and handles has been carefully made up from a year's record of sales, and the quantity of each unit is in direct proportion to its demand.

Empty kits are included in the assortment for containers of special sets made up from this stock.

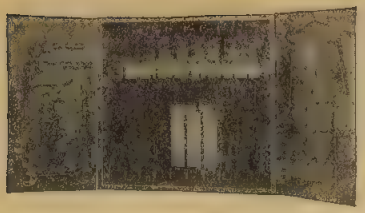
Chest is a beautifully finished store fixture made of selected wood and is 14¾ inches high, 21 inches wide, 12¾ in. deep, with eight drawers. Assortment includes:

- 300 Regular Guaranteed Pressed Steel Rust-proof Black Sockets, assorted sizes.
- 21 Pressed Steel Spark Plug Sockets, assorted.
- 4 No. 350 Reverse Ratchet Socket Handles.
- 4 No. 355 Ratchet Handles.
- 4 No. 322 Double End Offset and Vertical Handles
- 4 No. 340 Take-down T Handles.
- 4 No. 336 Universal Joints.
- 4 No. 351 Extension Tubes.
- 5 Canvas Tool Rolls, circulars, etc.

NO. Wgt. Ass't — ASSORTMENT

300 Asst. 112 lb. $85.00

MOSSBERG WRENCHES



Mechanics' Garage Cabinet

This handy collection of tools, every one of which was designed and manufactured for a purpose in garage work, furnished in a finished western chesnut wall cabinet with lock and key, gives the mechanic a range of tools which will enable him to handle all repair work in an effective manner.

Ten all-steel indestructible socket speed braces, all-steel socket handles, reversible ratchet connecting rod wrench for Ford cars, all-steel wheel puller for Ford cars, universal valve lifter, brace-valve grinder for all types of valves, complete set of 9 open double-end wrenches (each wrench fitting the same bolt or nut diameter) either in U.S. or S.A.E. Standard.

This set consists of forty-one tools—one each of the following:

Speed Braces No.	12 in. T Handles No.	Size of Sockets Inches	FITTING OF SOCKETS U. S. Stand. Nuts—Bolts Inches	Manf. Stamped Head Inches	Nut Inches	S.A.E. Screw Size Inches	Hex. Head Cap Screws Inches	Whitworth Bolt Sizes Inches
1733		33-64 in.	1-4 in.			5-16 in.	5-16 in.	1-4 in.
1737	1337	37-64 in.		3-8 in.		3 8 in.	3-8 in.	
1739		39-64 in.	5-16 in.					5-16 in.
1741	1341	41-64 in.			3-8 in	7-16 in	7-16 in.	
1745	1345	45-64 in.	3-8 in.					3 8 in.
1749	1349	49-64 in.		1 2 in.		1-2 in.	1-2 in	
1051		51-64 in.	7-16 in.					
1753		53-64 in			1-2 in		9-16 in.	7-16 in.
1757	1357	57-64 in.	1-2 in.			9-16 in	3-8 in.	
1761		61-64 in.		5 8 in		3-8 in.		

Flit ter of No.	Engineer's Wrenches Openings						
220	5-16x3-8		1-4 in				
232	1-2x7-16	1-4 in.		1-4 in.	1-4x5-16	1-4 in.	1-4 in.
234	19-32x1-2	1-4x5-16			5-16 in	5-16 in.	5-16x1-4
244	11-16x9-16	3-8 in.			3-8 in	3 8 in.	
254	25-32x5-8	7-16 in		3 8 in.	7-16 in.	7-16 in.	
267	7-8x3-4	1-2 in.	1-2 in		9 16x1 2	5-8x1-2	
274	31-32x7-8	9-16x1-2			9-16 in.	5-8 in.	
278	1 1-16x15-16	5-8 in.	5-8 in		5 8 in.		
293	1 1-4x1 1-16	5-8x3-4			7-8x3-4	1 in.	

Each of the above tools guaranteed by the manufacturers to be of good material and workmanship, and to give satisfaction.

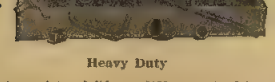
NO.	Size Cabinet	Wt Complete	COMPLETE
1000	30x11x27 in.	150 lb.	$38.00

Tools

T4	4½ in Adjustable Wrench
K 11	6½ in. Adjustable Wrench with Cire Lever.
K 11	11 in. Adjustable Wrench
3	Cotter Pin Extractor
G16	Universal Valve Grinder
301	Demountable Rim Brace Wrench for Kelsey Rims
302	Demountable Rim Brace Wrench for Firestone Rims
303	Demountable Rim Brace Wrench for Baker and other rims
100	Sterling Pliers
655	Universal Valve Lifter

Special Wrenches for Fords

624	Ratchet Socket Wrench for Connecting Rods
635	Spark Plug and Cylinder Head Screw Wrench
637	Flywheel Cap Screw Wrench
636	Wheel Puller for Ford and Ford
630	Triple End Cylinder Head Screw and Rear Axle Housing Nut Wrench
650	Hub Cap Wrench
645	Ratchet Reverse and Brake Ped Tension Spring Wrench



Heavy Duty

This set consists of fifteen different sized heavy duty sockets and one speed brace wrench. All sockets are interchangeable with the speed brace and are held to the handle by ball spring friction. Brace, with socket attached, is 19½ inches long. Finished in black, rust-proof.

NO.	Wt. Set	SET
45	9 lb.	$8.00

*Add 5 mm. over exact diameter of nut for clearance.

IN HINGED WOODEN CASE

NO.	Size of Hex Sockets, Inches	U. S. Std. Nuts & Bolts, Inches	Mfg. Std. Hexagon Nuts, Inches	Std. Nut, Inches	S. A. E. Standard Screw & Bolt Sizes, Inches	Hex. Head Cap Screws, Inches	Whitworth Std. Bolt Sizes, Inches	Decimal Equivalents.	*Millimeter Equivalents
1029	29-64	-	-	-	1-4	1-4	-	.448	11 38
1033	33-64	1-4	-	-	5 16	5-16	1-4	.511	12 97
1037	37-64	-	3-8	-	3-8	3-8		.573	14 56
1039	39 64	5-16	-	-	-	-	5-16	.604	15 35
1041	41-64	-	-	3-8	7 16	7-16	-	.635	16.13
1045	45 64	3 8	-	-	-	-	3 8	.698	17 73
1049	49-64	-	1-2	-	1-2	1-2	-	.761	19 32
1051	51-64	7 16	-	-	-	-	-	.792	20 12
1053	53 64	-	-	1 2	-	9-16	7-16	.823	20 91
1057	57 64	1-2	-	-	9-16	5-8		.886	22 50
1061	61-64	-	5-8	-	5 8	-	-	.948	24 08
1063	63 64	9-16	-	-	-	-	-	.979	24.87
1065	1 1-64	-	-	5-8	11-64	3-4	9-16	1.011	25.67
1069	1 5-64	5-8	-	-	3-4	-	-	1.073	27.26
1081	1 17-64	3-4	-	-	7-8	1 -	11-16	1.261	32.02

One speed brace handle No. 359, one universal joint No. 336, one connecting rod socket No. 167 17-32 inches square for use as connection unit.

MOSSBERG WRENCHES

Mossberg Master Assortment

This Display Board is provided with hooks which hold two wrenches of each size, the assortment being made up of the sizes which are in most popular demand. These wrenches are made from good stock, handles being ¼-inch round wire, sockets of drawn flat steel. The board contains following wrenches:

Coin, T Handle Wrench No.	Quantity	15 in T Handle Wrench No.	Quantity	10 Inch Offset Wrench No.	Quantity	Sizes of Hex. Sockets, Inches.	U S Std Bolt Sizes, Inches	Sheet Std Head Scr., Inches	Sheet Std Nut Sizes Inches	S. A. E. Standard Screw Sizes, In.	Whitworth Bolt Sizes, Inches	Flat Head Cap Screws—Screw Sizes, Inches	Decimal Equivalents	*Millimeter Equivalents
1129	3	1329	4			29-64	-	-	1-4	1-4	-	1-4	.448	11.38
1133	5	1333	6	1533	4	33-64	1-4	-	-	3-16	1-4	5-16	.511	12.97
1137	5	1337	6	1537	4	37-64	-	3-8	-	3-8	-	3-8	.573	14.56
1139	5	1339	6	1539	4	39-64	5-16	-	-	-	5-16	-	.604	15.35
1141	8	1341	8	1541	6	41-64	-	-	3-8	7-16	-	7-16	.635	16.13
1145	5	1345	6	1545	4	45-64	3-8	-	-	-	3-8	-	.698	17.73
1149	5	1349	6	1549	4	49-64	-	1-2	-	1-2	-	1-2	.761	19 32
1151	3	1351	4			51-64	7-16	-	-	-		-	.792	20.12
1153	3	1353	4			53-64	-	-	1-2	-	7-16	9-16	.823	20.91
1157	5	1357	6	1557	4	57-64	1-2	-	-	9-16	-	5-8	.886	22.50
1161	3	1361	4	1561	2	61-64	-	5-8	-	5-8		-	948	24.08
1163	3	1363	3			63-64	9-16	-	-	-	-	-	.979	24.87
1165	3	1365	3		1	1-64	-	-	5-8	11-16	9-16	3-4	1.011	25.67
1169	2	1369	2		1	5-16	5-8	-		3-4	-	-	1 073	27.26
1181	2	1381	2		1	17-64	3-4		-	7 8	11-16	1	1.261	32 02

This display contains 162 wrenches, all guaranteed by the manufacturer to give perfect satisfaction when used for the purpose for which they are made.

*Add 5 mm. over exact diameter of nut for clearance.

NO.	Size Board	Wgt. Asst.	ASSORTMENT
H Asst.	24x70 in.	315 lb.	$128.00

MOSSBERG SOCKETS AND BRACES

MOSSBERG SOCKETS

These sockets are drawn from flat steel cold, and therefore embody and keep the long straight grain that is so desirable in a wrench—to resist a twisting strain. They are accurate to size stamped upon each one, and are guaranteed. The material and workmanship are the best that can be had.

In specifying, dimensions of nuts should be taken measured "across the flats," or, in other words, the smallest diameter of nut or bolt head, and unless actual size of socket is ordered, we allow .030 inch for clearance.

HEX HEAD NO.	Size Sockets, Inches	SQR. HEAD NO.	Size Sockets, Inches	U. S. Std. Nuts & Bolt Size In.	Mfgr. Std. Hex. Head, Inches	Mfgr. Std. Hex. Nuts, Inches	Mfgr. Std. Sqr. Head, Inches	Mfgr. Std. Sqr. Nuts, Inches	S. A. E. Standard Screw Size, In	Mfgr. Std. Sqr. Sockets—N. F. Inches	Sqr. Head Set Screw, Inches	Hex. Head Cap Screw, Inches	Sqr. Head Cap Screw, Inches	Sqr. Std. Coach Screw, Inches	Whitworth Std. Bolt Size, In.	Decimal Equivalents	Millimeter Equivalents	PRICE EACH
110M	5-16															.312	7.94	$2.40
111M	11-32															.344	8 73	2.40
112M	3-8															.375	9.52	2.40
113M	13-32	163M	13-32		1-4		1-4				3-8		1 4	1-4		.406	10.32	2.40
114M	7-16															.437	11.11	2.40
115M	15-32	165M	15 32			1-4		1-4	1-4	7-16	1-4	5 16				.469	11.91	2.40
116M	1-2				5 16											.500	12 70	2.40
117M	17-32	167M	17-32	1-4	1-4		5-16		5-16	1-2	5 16	3-8	5-16	1 4		.531	13 49	2.40
118M	9-16					5-16										.562	14.29	2.40
119M	19-32	169M	19-32		3-8		3 8	5-16	3-8	9-16	3-8	7-16	3-8			.594	15 08	2.40
120M	5 8			5-16		3-8								5 16		.625	15.87	2.40
121M	21-32	171M	21-32		5-16		3-8		3-8	7-16	5-8	7-16	1-2			.656	16.67	2.40
122M	11-16					7-16										.687	17.46	2.40
123M	23 32	173M	23-32	3-8	3-8		7-16						9-16	7-16	3-8	.719	18.25	2.40
124M	3-4					7-16										.750	19.05	2.40
125M	25-32	175M	25-32			1-2		1-2	7-16	1 2	3-4	1-2	5-8	1-2		.781	19.84	2.40
126M	13-16			7-16												.812	20.64	2.40
127M	27-32					1-2										.844	21.43	2.40
128M	7-8				9-16							9 16			7 16	.875	22.22	2.40
129M	29 32	170M	29-32	1-2	1-2			9-16	1-2	9-16	7-8	5-8	3-4	9-16		.906	23.02	2.40
130M	15-16					9-16									1-2	.937	23.81	2.40
131M	31-32				5 8				5-8							.969	24 60	2.40
132M	1			9-16												1.000	25.40	2.40
133M	1 1-32	183M	1 1-32		9-16		5-8	5-8	5-8	11-16	1	3-4			9-16	1.031	26 19	2.40
135M	1 3-32			5-8						3-4						1.094	27.78	2.40
137M	1 5 32	187	1 5-32			3-4		3-4				7-8	7-8	3-4	5-8	1.156	29.37	2.40
141M	1 9-32	191M	1 9-32	3-4	3-4				7-8		1	1		11-16	11-16	1.281	32.54	2 40

*Add 7 mm. over exact diameter of nut, for clearance.

MOSSBERG BRACE WRENCHES

Speed Brace Socket

The sockets are drawn from cold rolled strip steel, with accurate hex. openings, but are perfectly round outside. The addition of this extra metal across outside faces of sockets causes these sockets to be virtually indestructible. All sockets are case hardened. Handle of ½ inch bar steel, with bell-shaped steel swivel top handle 19½ inches long. Black rust-proof finish. Sizes and price as given in table below. Weight each, approximately 1¾ pounds.

NO.	Size of Hex Sockets, Inches	U. S. Std. Nuts & Bolts, Bolt Size In Inches	Mfgr. Std. Hex. Head Inches	Mfgr. Std. Nut Inches	S. A. E. Std. Screw Size, In	Hex. Head Cap Screw, Inches	Whitworth Std. Bolt Size, In.	Decimal Equivalents	Millimeter Equivalents	EACH
1729	29-64	-	-	1-4	1-4	1-4	-	.448	11.38	$1.00
1733	33-64	1-4	-	-	5-16	5-16	1-4	.511	12.97	1.00
1737	37-64	-	3-8	-	3-8	3-8	-	.573	14 56	1.00
1739	39-64	5-16	-	-	-	-	5-16	.604	15 35	1.00
1741	41-64	-	-	3-8	7-16	7-16	-	.635	16 13	1.00
1745	45-64	3-8	-	-	-	-	3-8	698	17.73	1.00
1749	49-64	-	1-2	-	1-2	1-2	-	.761	19.32	1.00
1751	51-64	7-16	-	-	-	-	-	.792	20 12	1.00
1753	53-64	-	-	1-2	-	9-16	7-16	.823	20.91	1.00
1757	57 64	1-2	-	-	9-16	5-8	-	.886	22 50	1.00
1761	61-64	-	5-8	-	5-8	-	-	.948	24.08	1.00
1763	63-64	9-16	-	-	-	-	-	.979	24.87	1.00
1765	1 64	-	-	5-8	11-16	3-4	9-16	1 011	25.67	1.00
1769	1 5-64	5-8	-	-	3-4	-	-	1.073	27.26	1.00
1781	1 17-64	3-4	-	-	7-8	1	11-16	1.261	32.02	1.00

*Add 5 mm. over exact diameter of nut, for clearance.

SIX IN A CARDBOARD BOX

MOSSBERG WRENCHES

6 in. Handle

T Handle Socket Wrenches

The heavy duty indestructible sockets which are a part of these wrenches are drawn from steel of analysis that is scientifically determined as the best possible for resisting a twisting strain, which is the exact work demanded of these wrenches. All sockets are case hardened. Handle made of ¾-inch steel bar, rust-proof black finish. Weight each approximately 1½ pounds.

12 in. Handle

6-in. HANDLE NO.	EACH	12-in. HANDLE NO.	EACH	Size of Hex. Sockets, Inches	U.S.Std. Nuts & Bolts, Bolt Size Inches	Manf.Std.Head Inches	Manf. Std. Nut Inches	S.A.E.Std. Screw & Bolt, In.	Hex. Head Cap Screws, Inches	Whitworth Std. Bolt Size, Inches	Decimal Equivalents	*Millimeter Equivalents
1120	$0 72	1320	.78	29-64	-	-	1-4	1-4	1-4	-	.448	11.38
1133	.72	1333	.78	33-64	1-4	-	-	5-16	5-16	1 4	511	12.97
1137	.72	1337	.78	37-64	-	3 8	-	3 8	3-8	-	573	14.56
1137	.12	1337	.78	39-64	5-16	-	-	-	-	5 16	.604	15 35
1139	.72	1339	.78	41-64	-	-	3-8	7 16	7-16	-	.635	16 13
1141	.72	1341	.78	45-64	3 8	-	-	-	-	3-8	698	17.73
1145	.72	1345	.78	49-64	-	1-2	-	1-2	1-2		761	19.32
1149	.72	1349	.78	51-64	7-16			-	-	-	792	20 12
1151	.72	1351	.78	53 64	-	-	1-2	-	9 16	7-16	823	20 91
1153	.72	1353	.78	57-64	1-2	-	-	9-16	5-8	-	.886	22.50
1157	.72	1357	.78	61-64	-	5-8	-	5-8	-	-	.948	24.08
1161	.72	1361	.78	63-64	9-16	-	-	-	-	-	.979	24.87
1163	.72	1363	.78	1 1-64		-	5-8	11-16	3-4	9 16	1.011	25.67
1165	.72	1365	.78	1 5 64	5 8	-	-	3-4	-		1.073	27.26
1169	.72	1369	.78	1 17-64	3-4	-	-	7-8	1	11-16	1.261	32.02
1181	.72	1381	.78									

*Add 5 mm. over exact size of nut, for clearance

SIX OF A KIND IN A CARDBOARD CARTON

Offset Socket Wrenches

The indestructible steel sockets and 10-inch handle of these wrenches give them strength and leverage sufficient for all work. The sockets are made from drawn flat steel, round outside, with no more clearance needed than the other types, but with about twice the strength. Guaranteed for accuracy and strength. All sockets are case hardened. Finished rust-proof black. Weight each approximately 1 pound.

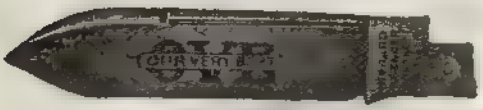
NO.	Size of Hex. Sockets, Inches	U.S.Std. Nuts & Bolts, Bolt Size Inches	Manf.Std.Head Inches	Manf. Std. Nut Inches	S.A.E.Std. Screw Size, In.	Hex. Head Cap Screws, Inches	Whitworth Std. Bolt Size, In.	Decimal Equivalents	*Millimeter Equivalents	EACH
1520	29-64	-	-	1-4	1-4	1-4	-	.448	11.38	$0.56
1533	33-64	1-4	-	-	5-16	5-16	1-4	.511	12.97	.56
1537	37-64	-	3-8	-	3-8	3-8	-	.573	14.56	.56
1539	39-64	5-16	-	-	-	-	5-16	.604	15.35	.56
1541	41-64	-	-	3-8	7-16	7-16	-	.635	16.13	.56
1545	45-64	3-8	-	-	-	-	3-8	.698	17.73	.56
1549	49-64	-	1-2	-	1-2	1-2	-	.761	19.32	.56
1551	51-64	7-16	-	-	-	-	-	.792	20.12	.56
1553	53-64	-	-	1-2	-	9-16	7-16	.823	20.91	.56
1557	57-64	1-2	-	-	9-16	5-8	-	.886	22.50	.56
1561	61-64	-	5-8	-	5-8	-	-	.948	24.08	.56
1563	63-64	9-16	-	-	-	-	-	.979	24.87	.56
1565	1 1-64	-	-	5-8	11-16	3-4	9-16	1.011	25.67	.56
1569	1 5-64	5-8	-	-	3-4	-	-	1.073	27.26	.56
1581	1 17-64	3-4	-	-	7-8	1	11-16	1.261	32.02	.56

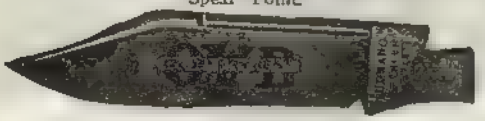
*Add 5 mm. over exact diameter of nut, for clearance.

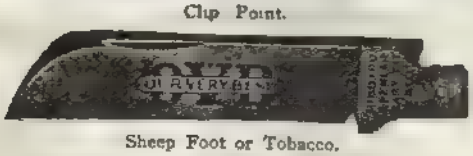
SIX OF A SIZE IN A CARDBOARD CARTON

POCKET KNIFE BLADES.

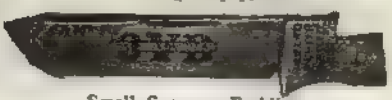
USED IN [redacted] POCKET KNIVES.

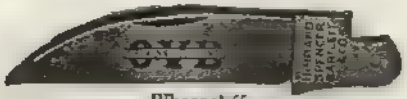

Spear Point.


Clip Point.

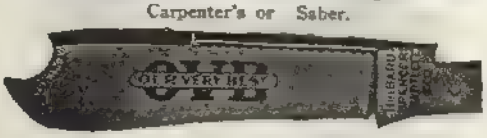

Sheep Foot or Tobacco.

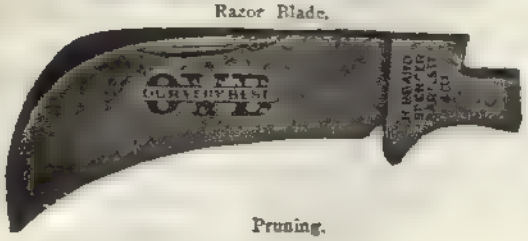
Large Spey.


Small Spey or Budding.

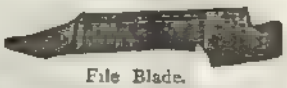

Wharncliffe.

Carpenter's or Saber.


Razor Blade.


Pruning.

Pen Blade.


File Blade.

Harrison Patent Punch Blade.

Corn.

Eraser.

Screw Driver.

Spatula.

Tumber Scribe.

Cotton Sampler

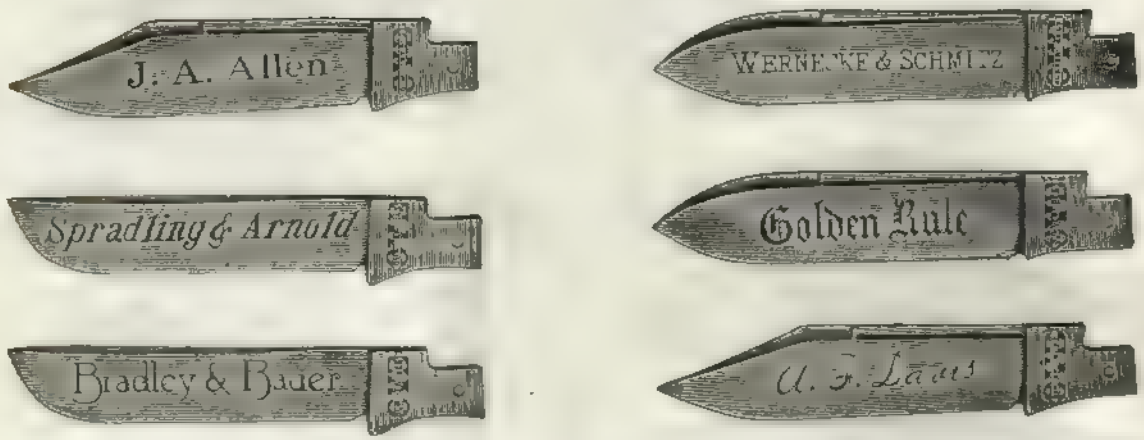
We do not carry pocket knife blades in stock. The illustrations shown on this page being reproductions of the different styles used in [redacted] pocket knives. Slight variations are made to adapt them to the different knives of which they form a part. All are made from Wardlow's Celebrated English crucible steel. Each blade is forged in the most approved manner by expert workmen. Great care is taken to avoid overheating the metal, the forging being done at a very low heat, thereby condensing the metal and making it extremely tough. The tempering is done by a new method which insures a uniform and lasting edge. All blades bearing the [redacted] trademark are carefully ground and finished. The shank is carefully shaped and finished. Every blade is inspected, whetted to a fine cutting edge and warranted to be free from flaws and neither too hard or too soft.

In material, workmanship and design, the [redacted] pocket knife blades are equal, if not superior to any made in this or any other country. They are and always have been the product of an American factory which has in its employ cutlers who have served thirty, forty and fifty years in their service.

ETCHING CUTLERY

Etching Department.

STYLES OF ETCHING



The very best way of increasing trade in pocket cutlery is through the dealer's advertisement on the large blade of his best knives. If this is done wisely, it establishes a reputation for all knives bearing the dealer's name, adding his reputation to that of the maker, and thus is a convincing argument to the quality of the article. The consumer is sure of a double guaranty, and if the brand is unknown, he at least knows that the dealer would not have his name on inferior goods. It is also a strong safeguard against theft. Several times every year we hear of stolen goods recovered which had been etched by us, the name on the blade identifying the knives and establishing evidence to convict the thieves. Numbers of our customers have informed us that they have been robbed, the thieves leaving the etched knives untouched.

Our etching department, beginning in 1896 in a very modest way, has grown to an important adjunct to our cutlery business. Our etchers have become artists in their work, having every appliance necessary or desirable to produce fine results.

Etching has become popular, and the public is quick to notice the enterprise of a dealer who has something new to offer.

We make no charge whatever for this work, feeling that we are amply repaid by the increased business the dealer is sure to give us in consequence of adding to the selling quality of his knives. Our only requirements are that a sufficient—not a large—quantity is ordered each time to warrant it, and that the goods are such that we as a firm would care to affix our guaranty.

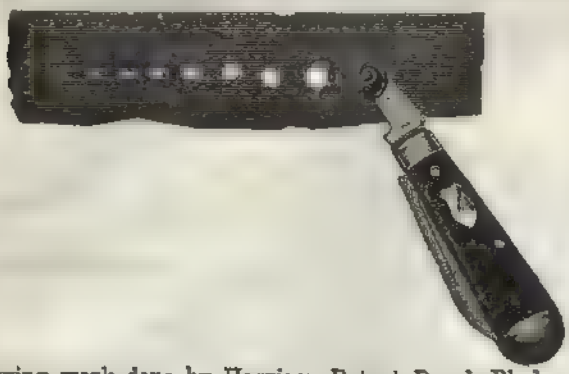
We shall be glad to explain more fully through our representatives or by letter our position in this matter and show samples of the work.

OVD POCKET KNIVES

FULLY GUARANTEED TO GIVE PERFECT SATISFACTION

Made by American workmen. Blades are finest quality Crucible Steel, TEMPERED BY A NEW METHOD WHICH INSURES A UNIFORM AND LASTING EDGE. Sharpened ready for use. In whetting, hold at an angle of 18 degrees on an OIL STONE, not a grindstone.

WE ETCH YOUR NAME, FREE OF CHARGE, ON THESE KNIVES WHEN REQUESTED



Showing work done by Harrison Patent Punch Blade.

All the pocket knives on this page are supplied with a **Harrison patent punch blade** as illustrated above. **It is the only knife ever made that will cut perfectly round and smooth holes** in leather. Will cut holes of any size up to ¾ inch in diameter, and can be used to enlarge holes already made. Much more convenient to use than a punch, being always at hand, and making just the right size hole wanted every time.

Invaluable for Belting, etc. An invaluable tool for repairing belting, for mending harness or making buckle holes. The curling upper face of the punch extending slightly over the end of the knife making it easy to open, even if the user has on gloves. **It is very strong and will hold its sharp-cutting edge a long time** without re-sharpening. **This is the only punch blade** manufactured **that will cut a perfectly round, smooth hole of any desired size without damaging the leather.**

The Very Best Quality. Both the patented punch blade, and the other blades are hand **forged from the finest grade of crucible steel, highly tempered and warranted free from flaws. These knives are positively without equal for practicability.**

No 1327 OVD—2 blades including **leather punch,** highly finished, **stag** handle, brass lined, nickel silver bolster and shield, 3½ **in.** closed .....per dozen **$15.50**

HALF DOZEN IN A BOX

No. 1305 OVD—3 blades including **leather punch,** highly finished, **stag** handle, brass lined, nickel silver bolsters and shield, 3½ **in.** closed .....per dozen $30.00

HALF DOZEN IN A BOX

Three blades including **leather punch,** highly finished, **stag** handles, brass lined, nickel silver bosters and shields.

No. 1090 OVD—Length 3¾ **in.** closed ....per dozen **$30.00**

HALF DOZEN IN A BOX

Three blades including **leather punch,** highly finished, **stag** handles, brass linings, nickel silver bolsters and shields.

No. 1312 OVD—**Spear,** pen and punch blades, 3¾ **in.** closed .....per dozen $30.00
No. 1313 OVD—**Clip,** pen and punch blades, 3¾ **in.** closed .....per dozen $30.00
No. 1309 OVD—**Spear,** spey and punch blades, 3¾ **in.** closed .....per dozen $30.00
No. 1309½ OVD—**Clip,** spey and punch blades, 3¾ **in.** closed .....per dozen $30.00
No. 1440 OVD—**Spear,** spey and punch blades, 3¾ **in.** closed .....per dozen $29.00

HALF DOZEN IN A BOX

No. 657 OVD 3 blades including **leather punch,** full crocus polished, **stag** handle, nickel silver lined, milled, nickel silver bolsters and shield, 4 **in.** closed, per dozen $42.00

HALF DOZEN IN A BOX

Our stock consists of a large assortment of Pocket Knives and other Cutlery. WE ILLUSTRATE OUR LEADING PATTERNS ONLY. Ask our salesman to show you samples of our complete line.

GVB POCKET KNIVES

FULLY GUARANTEED TO GIVE PERFECT SATISFACTION

Made by American workmen. Blades are finest quality Crucible Steel, TEMPERED BY A NEW METHOD WHICH INSURES A UNIFORM AND LASTING EDGE. Sharpened ready for use. In whetting, hold at an angle of 18 degrees on an OIL STONE, not a grindstone.

WE ETCH YOUR NAME, FREE OF CHARGE, ON THESE KNIVES WHEN REQUESTED

Three blades including leather punch, full crocus polished, nickel silver lined, milled, nickel silver bolsters.

No. 658 GVB—Stag handle, nickel silver shield, per dozen $42.00

No. 656½ GVB—Color Red Pearl shell celluloid handle, not shielded .....per dozen $46.00

HALF DOZEN IN A BOX

Four blades including leather punch, highly finished, stag handles, nickel silver lined, milled, nickel silver bolsters and shield, length closed 3⅞ inches.

No. 929½ GVB—Clip, spey, sheep foot and punch blades .....per dozen $45.00

HALF DOZEN IN A BOX

No. 630.

PREMIUM STOCK KNIVES

Three blades, highly finished, brass linings, nickel silver bolsters and shield, stag handle, length closed 3⅞ inches.

No. 630 GVB—Clip, spey and sheep foot blades, per dozen $30.00

No. 630½ GVB—Clip, pen and sheep foot blades, nickel silver shield .....per dozen $30.00

HALF DOZEN IN A BOX

No. 632.

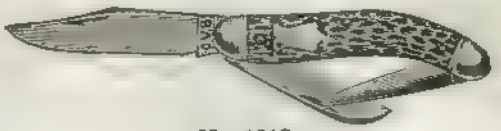
PREMIER STOCK KNIVES

Highly finished stag handles, brass lined, nickel silver bolsters and shield, length closed 3⅞ inches.

No. 632 GVB—3 blades including large **clip** blade, per dozen $30.00

No. 1412 GVB—2 blades, **clip** blade in one end and **spey** blade in other end .....per dozen $23.00

HALF DOZEN IN A BOX



No. 1318.

STOCK KNIVES

Three blades, highly finished, brass linings, nickel silver bolsters and shield.

No. 1318 GVB—Clip, spey and punch, length closed 3½ in. .....per dozen $30.00

No. 1362 GVB—Clip, spey and punch blade, length closed 3½ in. .....per dozen $36.00

HALF DOZEN IN A BOX

No. 648.

EVERETT STOCK KNIVES

Three blades, full crocus polished, nickel silver linings, milled, nickel silver bolsters and shield, stag handle.

No. 648 GVB—Length closed 4 in. .....per dozen $39.00

No. 655 GVB—Length closed 3½ in. ....per dozen 36.00

HALF DOZEN IN A BOX

STOCK KNIVES

No. 637 GVB—Three blades, highly finished, stag handle, brass linings, nickel silver shield and bolsters, length when closed 3½ in. .....per dozen $29.00

HALF DOZEN IN A BOX

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OVB POCKET KNIVES

FULLY GUARANTEED TO GIVE PERFECT SATISFACTION

Made by American workmen. Blades are finest quality Crucible Steel, TEMPERED BY A NEW METHOD WHICH INSURES A UNIFORM AND LASTING EDGE. Sharpened ready for use. In whetting, hold at an angle of 18 degrees on an OIL STONE, not a grindstone.

WE ETCH YOUR NAME, FREE OF CHARGE, ON THESE KNIVES WHEN REQUESTED

No. 1321.

STOCK KNIVES

Four blades, highly finished, linings, milled, nickel silver bolsters and shield.

No. 1321 OVB—Stag handle, nickel silver shield, 3½ **in.** closed .....per dozen **$32.00**

No. 838 OVB—Stag handle, nickel silver shield, 3⅞ **in.** closed .....per dozen **$42.00**

HALF DOZEN IN A BOX

No. 1016 OVB—2 blades, highly finished, finest quality **pearl** handle, brass lined nickel silver bolsters, 2⅝ **in.** closed .....per dozen **$29.00**

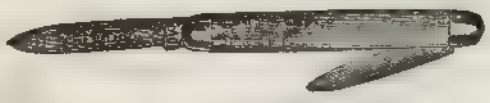
HALF DOZEN IN A BOX

CATTLE KNIVES

Three blades, highly finished, brass linings, nickel silver bolsters and shields, length closed 3⅝ inches.

No. 685 OVB—Stag handle .....per dozen **$30.00**

HALF DOZEN IN A BOX



CATTLE KNIFE

No. 584½ OVB—3 blades, highly finished, **stag** handle, brass lined, nickel silver bolsters and shield, 3⅝ **in.** closed .....per dozen **$30.00**

HALF DOZEN IN A BOX

CATTLE KNIFE

No. 718 OVB—3 blades, highly finished **stag** handle brass lined, steel bolsters and shield, 3⅝ **in.** closed, per dozen **$34.00**

HALF DOZEN IN A BOX

No. 786.

No. 786 OVB—3 blades, including finger nail blade, highly finished, pearl handle of finest quality, **very** neat **thin pattern, 3 in.** closed. per dozen **$65.00**

No. 560 OVB—2 blades, including finger nail blade, highly finished, **pearl** handle of finest quality, very neat per dozen **$56.00**

HALF DOZEN IN A BOX

No. 530 OVB—2 blades, polished pearl, brass lined, 2⅝ in. closed .....per dozen **$29.00**

HALF DOZEN IN A BOX

Cocobola handles, iron lined, steel bolsters, nickel silver shields, length closed 3⅛ inches.

No. 147 OVB—1 **Spear** blade, highly finished, per dozen **$8.00**

HALF DOZEN IN A BOX

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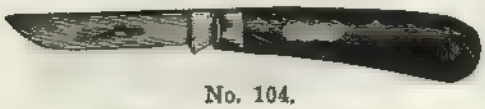
H.S.B.&S. POCKET KNIVES

FULLY GUARANTEED TO GIVE PERFECT SATISFACTION

Made by American workmen. Blades are finest quality Crucible Steel, TEMPERED BY A NEW METHOD WHICH INSURES A UNIFORM AND LASTING EDGE. Sharpened ready for use. In whetting, hold at an angle of 18 degrees on an OIL STONE, not a grindstone.

WE ETCH YOUR NAME, FREE OF CHARGE, ON THESE KNIVES WHEN REQUESTED



No. 104.

Iron lined, nickel silver shield, steel bolster, length closed 3⅞ inches.

No. 103 H.S.B.&S.—1 blade, **cocobola** handle, per dozen $6.00

No. 104 H.S.B.&S.—1 blade, **Stag** handle, per dozen $6.00

No. 342 H.S.B.&S.—2 blades, **cocobola** handle, per dozen $11.50

No. 342½ H.S.B.&S.—2 blades, **stag** handle, per dozen $11.50

HALF DOZEN IN A BOX

No. 208.

Two blades, highly finished, iron linings, steel bolsters.

No. 208 H.S.B.&S.—**Cocobola** handle, 3½ **in.** closed, per dozen $8.00

No. 224 H.S.B.&S.—**Stag** handle, 3½ **in.** closed, per dozen $8.00

HALF DOZEN IN A BOX

No. 594

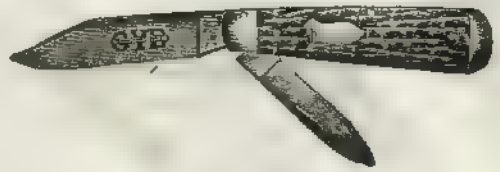
Two blades, highly finished, nickel silver shield.

No. 594 H.S.B.&S.—**Cocobola** handle, **brass lined,** nickel silver bolsters, 3⅞ **in.** closed .....per dozen $16.00

No. 598 H.S.B.&S.—**Rosewood** handle, **brass lined,** nickel silver bolsters, 3⅞ **in.** closed .....per dozen $16.00

No. 596 H.S.B.&S.—**Stag** handle, **brass lined,** nickel silver bolsters, 3⅞ **in.** closed .....per dozen $16.00

HALF DOZEN IN A BOX



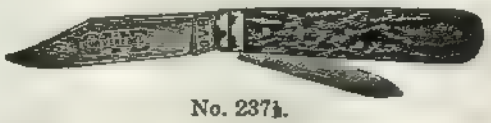
No. 1336

Two blades, highly finished, nickel silver shield.

No. 595 H.S.B.&S.—**Cocobola** handle, **brass lined,** nickel silver bolsters, 3⅞ **in.** closed .....per dozen $16.00

No. 1336 H.S.B.&S.—**Stag** handle, **brass lined,** nickel silver bolsters, 3⅞ **in.** closed .....per dozen $16.00

HALF DOZEN IN A BOX



No. 237½.

Two blades, highly finished, iron linings, steel bolsters.

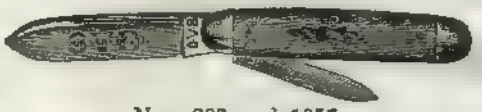
No. 233 H.S.B.&S.—**Cocobola** handle, 3½ **in.,** closed, per dozen $8.00

No. 255 H.S.B.&S.—**Ebony** handle, 3½ **in.,** closed, per dozen $8.00

No. 237½ H.S.B.&S.—**Stag** handle, 3½ **in.,** closed, per dozen $8.00

No. 238½ H.S.B.&S.—**Stag** handle, large **sheep foot** blade, 3½ **in.,** closed .....per dozen $8.00

HALF DOZEN IN A BOX



Nos. 298 and 1057

Two blades, highly finished, brass linings, nickel silver bolsters and shield.

No. 298 H.S.B.&S.—**Cocobola** handle, 3½ **in.** closed, per dozen $16.00

No. 1060 H.S.B.&S.—**Stag** handle, 3½ **in.** closed, per dozen $16.00

No. 1057 H.S.B.&S.—**Cocobola** handle, 3⅞ **in.** closed, per dozen $16.00

No. 1058 H.S.B.&S.—**Stag** handle, 3⅞ **in.** closed, per dozen $16.00

HALF DOZEN IN A BOX

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H&B POCKET KNIVES

FULLY GUARANTEED TO GIVE PERFECT SATISFACTION

Made by American workmen. Blades are finest quality Crucible Steel, TEMPERED BY A NEW METHOD WHICH INSURES A UNIFORM AND LASTING EDGE. Sharpened ready for use. In whetting, hold at an angle of 18 degrees on an OIL STONE, not a grindstone.

WE ETCH YOUR NAME, FREE OF CHARG E, ON THESE KNIVES WHEN REQUESTED

No. 1331

Two blades, highly finished, brass linings, nickel silver bolsters and shield, length closed 3¼ inches.

No. 1330 H&B—**Cocobola** handle ....per dozen **$15.00**

No. 1331 H&B—**Stag** handle .....per dozen **15.50**

HALF DOZEN IN A BOX

No. 1039 H&B—2 blades, highly finished, **stag** handle, brass lined, nickel silver bolsters and shield, 3¼ **in.** closed .....per dozen **$16.00**

HALF DOZEN IN A BOX

OFFICE KNIFE

No. 589 H&B—2 blades, highly finished, **white ivoroid** handle, brass lined, 3¼ **in.** closed .....per dozen **$18.00**

HALF DOZEN IN A BOX

PHYSICIANS' KNIFE

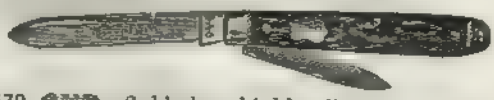
No. 375 H&B—2 blades, highly finished, **stag** handle, brass lined, nickel silver bolster and cap, 3¼ **in.** closed, per dozen **$22.50**

HALF DOZEN IN A BOX

Two blades, highly finished, stag handles, brass linings, nickel silver bolsters.

No. 548 H&B—Length 3¼ **in.** closed, nickel silver shield, per dozen **$16.00**

HALF DOZEN IN A BOX



No. 579 H&B—2 blades, highly finished, **stag** handle, brass lined, nickel silver bolsters and shield, 4¼ **in.** closed .....per dozen **$24.00**

HALF DOZEN IN A BOX

No. 783

CARPENTERS' KNIFE

Three blades, highly finished, brass linings, nickel silver bolsters, length closed 3⅝ inches.

No. 783 H&B—**Stag** handle with nickel silver shield, per dozen **$28.00**

No. 785 H&B—**Pearl** handle of finest quality, plain without shield .....per dozen **$50.50**

HALF DOZEN IN A BOX

CARPENTERS' KNIFE

No. 798 H&B—3 blades, large blade **extra heavy** and extra strong, **sabre pattern,** highly finished, **ebony** handle, brass lined, nickel silver bolsters and shield, 3¾ **in.** closed .....per dozen **$29.00**

HALF DOZEN IN A BOX

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H&S POCKET KNIVES

FULLY GUARANTEED TO GIVE PERFECT SATISFACTION

Made by American workmen. Blades are finest quality Crucible Steel, TEMPERED BY A NEW METHOD WHICH INSURES A UNIFORM AND LASTING EDGE. Sharpened ready for use. In whetting, hold at an angle of 18 degrees on an OIL STONE, not a grindstone.

WE ETCH YOUR NAME, FREE OF CHARGE, ON THESE KNIVES WHEN REQUESTED

Four blades, highly finished, stag handles, brass linings, steel bolsters and nickel silver shields.

No. 845 H&S—3½ **in.** closed .....per dozen **$27.50**

HALF DOZEN IN A BOX

Nos. 2546P and 2597P

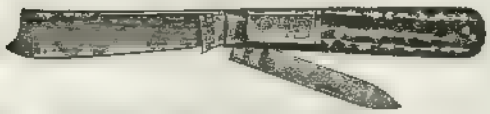
Two blades, highly finished, **genuine buck horn** handles, iron linings, steel bolsters.

No. 2597P H&S—Large **spear** blade, 3⅜ **in.** closed, per dozen **$15.50**

No. 2598P H&S—Large **clip** blade, 3⅜ **in.** closed, per dozen **$15.50**

No. 2546P H&S—Large **spear** blade, 3¾ **in.** closed, per dozen **$16.00**

HALF DOZEN IN A BOX



Nos. 2548P and 2600P

Two blades, highly finished, **genuine buck horn** handles, iron linings, steel bolsters.

No. 2600 H&S—Length closed 3¾ **in.**, per dozen **$15.50**

No. 2548P H&S—Length closed 3¾ **in.**, per dozen **$16.00**

HALF DOZEN IN A BOX

No. 2584P H&S—2 blades, highly finished, **genuine buck horn** handle, iron lined, steel bolster, 3¼ **in.** closed, per dozen **$16.00**

HALF DOZEN IN A BOX

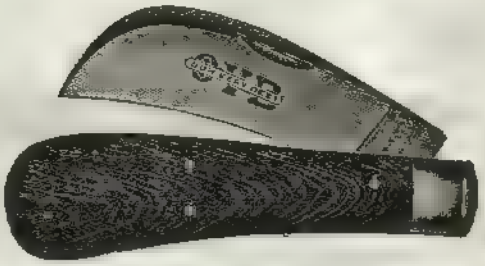
No. 2599P

Two blades, highly finished, **genuine buck horn** handles, iron linings, steel bolsters, length closed 3⅜ in.

No. 2599P H&S—Large **Spey** blade ....per dozen **$15.50**

No. 2601P H&S—Large **sheep foot** blade, per dozen **$15.50**

HALF DOZEN IN A BOX



No. 128

PRUNING KNIFE

No. 128 H&S—1 blade, highly finished cocobola handle, iron lined, steel bolster, **4 in.** closed ...per dozen **$14.00**

HALF DOZEN IN A BOX

PRUNING KNIFE

No. 129 H&S—1 blade, highly finished, **cocobola** handle, iron lined, steel bolster and cap, 4½ **in.** closed, per dozen **$23.00**

HALF DOZEN IN A BOX

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PYREX Transparent OVEN-WARE

(TRADE MARK REG.) Has the name on every piece

Made of special materials, much harder than ordinary glass, having a hard, smooth surface. Does not absorb odors or flavors. Easy to clean. Sanitary does not lose brilliancy, even with long and constant use. Enables you to bake and serve in the same dish.

CASSEROLES

Round, with Covers.

Nos.	100	101	102
Size, in.	9¾×3½	9×3¼	8½×2⅞
Capacity, qts.	2½	2	1½
W't per doz., lbs.	50	42½	36
Per dozen	$30.00	24.00	21.00

Nos.	103	104
Size, in.	7½×2½	6½×2½
Capacity, qts.	1	½
W't per doz., lbs.	28	15
Per dozen	$18.00	12.00

ONE IN A CARTON

Round, with covers, fit standard metal frames

Nos.	167	168
Size, in.	7½×2⅝	8½×2⅞
Capacity, qts.	1	1½
W't per doz., lbs.	25½	35
Per dozen	$18.00	21.00

ONE IN A CARTON

Round, Shallow, with Covers.

No. 112—Capacity 1 qt., size 7⅞×2¼ in., w't per doz. 28 lbs., per dozen $18.00

TWO IN A CARTON

OVAL CASSEROLES

Oval with covers. Fit Standard metal frames.

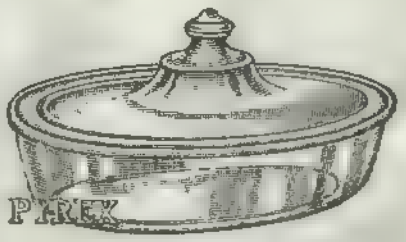
Nos.	190	193	194
Size, in.	10½×8×4½	8⅜×6½×2⅞	9½×7×3½
Cap., qts.	3½	1	2
W't doz., lbs.	55	27	40
Per dozen $.....		18.00	24.00

ONE IN A CARTON

DEEP

No. 197—1½ qt. deep, 8⅛×6½×3⅜ in., w't per doz. 30 lbs., per dozen $21.00

ONE IN A CARTON



Oval, Shallow with Covers.

Nos.	183	184	185
Size, in.	9×6½×2⅜	10⅜×7⅜×2⅜	12×8¾×2½
Cap., qts.	1	1½	2
W't, doz., lbs.	30	39	40
Per doz.	$18.00	21.00	24.00

ONE IN A CARTON

CASSEROLES

ROUND, DEEP

Nos.	169	170
Size, in.	9½×3½	9½×3½
Cap., qts.	2	2½
W't, doz., lbs.	42½	50
Per dozen	$24.00	30.00

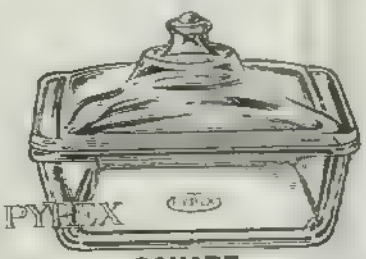
ONE IN A CARTON

ROUND, SHALLOW

No. 113—Size 8½×2½ in., cap. 1½ qts., per dozen $21.00

ONE IN A CARTON

CASSEROLES



SQUARE

No. 800—Size 8½×3 in., cap. 1½ qts., per dozen $27.00

ROUND INDIVIDUAL

No. 164—Size 4½×2 in., cap. 8 oz., per dozen $8.40

ONE IN A CARTON

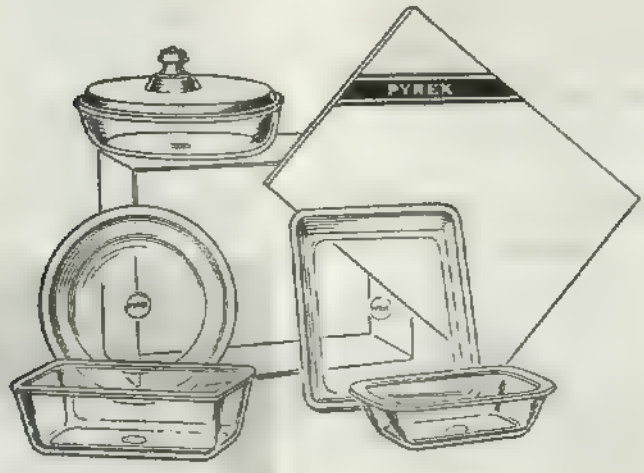
PYREX Transparent OVEN-WARE

TRADE MARK REG.

Has the name on every piece

GIFT SETS

FOR WEDDINGS, ANNIVERSARIES, PRIZES, BIRTHDAYS, SHOWERS—IN FACT, ANY TIME WHEN A GIFT OF DISTINCTION IS DESIRED. PACKED IN SPECIALLY ATTRACTIVE BOXES.



PLAIN WARE

No. 5—

Each set contains

1 No. 284 — 1½ qt. Oval Casserole.

1 No. 212—9⅛×5⅛×2⅞ in. Bread Pan.

1 No. 208 — 8⅛ in. Pie Plate.

1 No. 234—9⅛×7⅝×1½ in. Biscuit Pan.

1 No. 145—7¾×5¾×2 in. Baker.

W't per set 10 lbs.,

per set $5.00

ENGRAVED WARE

No. 5E2—

Each set contains:

1 No. 284E—1½ qt. Oval Casserole.

1 No. 212E—9⅛×5⅛×2⅞ in. Bread Pan.

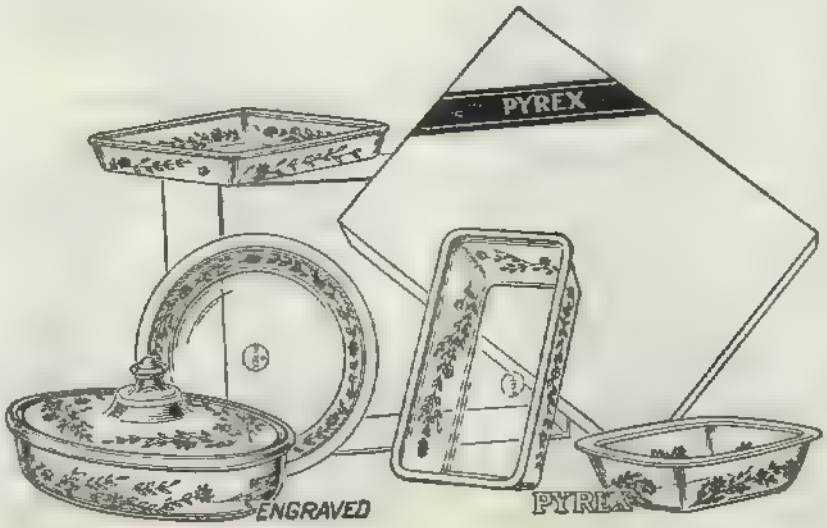
1 No. 208E—8⅛ in. Pie Plate.

1 No. 234E — 9⅛×7⅝×1½ in. Biscuit Pan.

1 No. 145E—7¾×5¾×2 in. Baker.

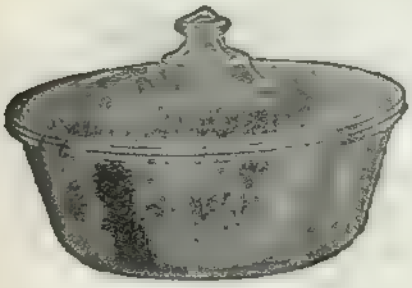
W't per set 10 lbs.,

per set $8.00

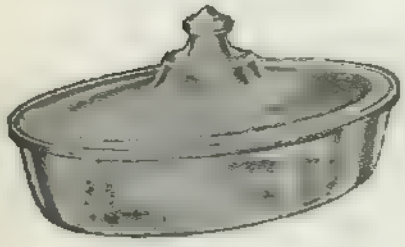


SPECIAL

Selected Order of PYREX Transparent Baking Ware



No. 101 Casserole



No. 184 Casserole

No. 121 and 122 Baking Dish

No. 212 and 214 Bread Pan

Attracts Womens' Trade is Nationally Advertised, Guaranteed Against Oven-Heat, Remains New Forever, Stainless, Never Sold in Seconds, Not Used By 5 and 10 Cent Store Competition.

There are no Slow Moving Items in this Selected Stock Order.

Assortment Contains the Following:

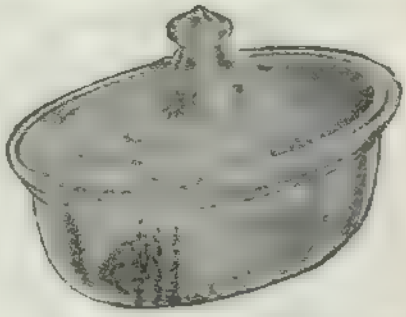
Only No.		Retail Each
1	—101—Round 2 qt. Casserole	$2.00
3	—168—Round 1½ qt. Casserole	1.75
1	—197—Oval 1½ qt. Casserole, Deep	1.75
1	—184—Oval 1½ qt. Casserole, Shallow	1.75
1	—193—Oval 1 qt. Casserole	1.50
6	—212—Oblong 8½ in. Bread Pans	.90
2	—214—Oblong 10 in. Bread Pans	1.50
3	—231—Oblong 10 in. Utility Pans	1.00
2	—232—Oblong 12 in. Utility Pans	1.75
3	—202—Round 8 in. Pie Plates	.75
3	—203—Round 9 in. Pie Plates	.90
1	—121—Round 2 qt. Baking Dishes	1.20
1	—122—Round 1½ qt. Baking Dishes	1.00
12	—423—Round 4 oz. Custard Cups (Set of Six)	1.20

(No. 168, 197 an 193 fit Standard Metal Frames).

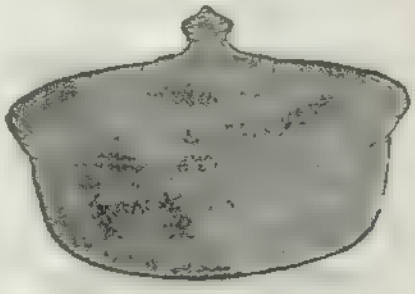
No. R848—40 pieces, total retail value $36.70, (retail in the west, approximately 12½% more), w't per assortment 91 lbs...per assortment **$46.50**

Buying this famous ware in solid carload lots, places us in position to know the best selling items and we have used care in making up this Perfect Stock Order. It will be equally satisfactory to a dealer putting in an initial stock or to one who is generally low on the line.

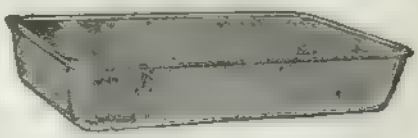
Packed in Case, Ready to Ship, Advertising Matter Included.



No. 197 Casserole

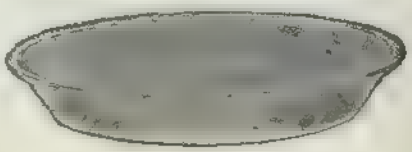


No. 168 Casserole



No. 231 and 232 Utility Pans

No. 423 Custard Cup



No. 202 and 203 Pie Plate

Pyrex, Aluminum and Nickel Plated Ware

QUICK INDEX

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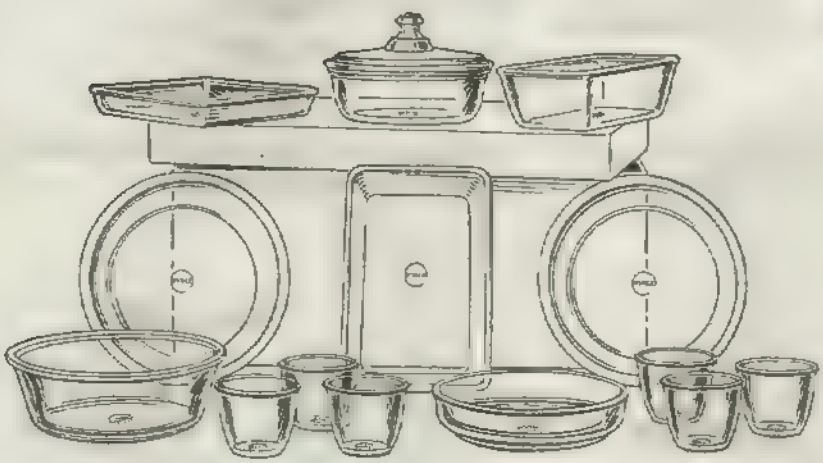
CAST ALUMINUM WARE	870	PYREX WARE	852
NICKEL PLATED WARE	873	PYREX FRAMES	860
PERCOLATORS	871	STAMPED ALUMINUM WARE ...	862

PYREX HOUSEHOLD



Four of the most useful items—Packed in handsome Gift Box—White with Blue Ribbon Band.

Containing 14 staple items—Useful for many purposes in every kitchen, every day—

Contents

1 268 1½ qt. Round Casserole
1 231 10⅛×6½×2 in. Utility Pan
1 135 1 qt. Round Baker
1 466 2 qt Round Pudding
1 212 9½×5½×2⅝ in. Bread Pan
2 209 9½ in. Pie Plates.
1 234 9⅛×7⅜×1¼ in. Biscuit Pan
6 426 6 oz. Custards

No. 10—Set of 14 pieces, per set *$10.00*

No. 1416—Set of four pieces, per set *$7.00*

ONE SET IN A BOX

CASSEROLES

Round, With Engraved Covers.

No. 167-E7—Capacity 1 quart, per dozen *$33.60*

No. 168-E7—Capacity 1½ quarts, per dozen *$42.00*

No. 101-E7—Capacity 2 quarts, per dozen *$38.60*

Oval, With Engraved Covers.

No. 193-E7—Capacity 1 quart, per dozen *$38.60*

No. 194-E7—Capacity 2 quarts, per dozen *$45.60*

ONE IN A CARTON

IRIDESCENT PYREX CASSEROLES

Possessing the same heat resisting qualities as the regular line. With a beautiful iridescent color.

ROUND CASSEROLES

Nos.	167I	168I
Size, in.	7¼×2⅝	8¼×2⅞
Capacity, qts.	1	1½
W't per doz., lbs.	25	35
Per dozen	*$36.00*	*42.00*

OVAL CASSEROLES

Nos.	193I	194I
Size, in.	8⅝×6¼×2⅛	9½×7×3⅜
Style	Regular	Deep
Capacity, qts.	1	2
W't per dozen, lbs.	27	40
Per dozen	*$36.00*	*48.00*

Nos.	184I
Size, in.	10⅜ 7¾×2⅜
Style	Shallow
W't per doz., lbs.	39
Per dozen	*$42.00*

WHITE PYREX CASSEROLES

Has the same heat resisting properties as the regular line—and the added advantage of being white in color.

ROUND CASSEROLES

Nos.	167W	168W
Size, in.	7¼×2⅝	8¼×2⅞
Capacity, qts.	1	1½
W't per doz., lbs.	25	35
Per dozen	*$36.00*	*42.00*

OVAL CASSEROLES

Nos.	193W	194W
Size, in.	8⅝-6¼-2½	9½-7-3⅜
Style	Regular	Deep
Capacity, qts.	1	2
W't per doz., lbs.	27	40
Per dozen	*$36.00*	*48.00*

Nos.	184W
Size, in.	10⅜-7¾-2⅜
Style	Shallow
Capacity, qts.	1½
W't per doz., lbs.	39
Per dozen	*$42.00*

PYREX Transparent OVEN-WARE

TRADE MARK REG.

Has the name on every piece

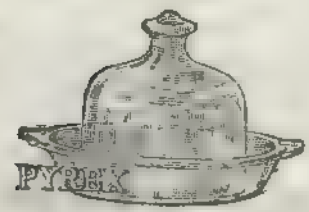
Made of special materials, much harder than ordinary glass, having a hard, smooth surface. Does not absorb odors or flavors. Easy to clean. Sanitary, does not lose brilliancy, even with long and constant use. Enables you to bake and serve in the same dish.

BEAN POTS

Nos.	502	504	506
Size, in.	5⅜×3⅛	6¾×4⅛	7¼×5⅜
Capacity, pts.	1	2	3
W't per doz., lbs.	15	25	35
Per dozen	$12.00	21.00	30.00

ONE IN A CARTON

MUSHROOM DISHES



Round, with handles and bell covers.

Nos.	642	645
Size, in.	6⅞	9⅛
W't per doz., lbs.	14½	22
Per dozen	$15.00	18.00

ONE IN A CARTON

SHALLOW BAKING DISHES

Nos.	132	155
Capacity, qts.	1	1½
Size, in.	7⅞×2⅛	8½×2½
W't per doz., lbs.	18	21½
Per dozen	$10.20	12.00

ONE IN A CARTON

PUDDING DISHES

Oblong.

No. 145—Size 7¾×5¾×2 in. doz., $10.20

Deep, with handles, round.

No. 450—Size 8½×2⅞ in., cap. 1½ qts., per dozen $15.00

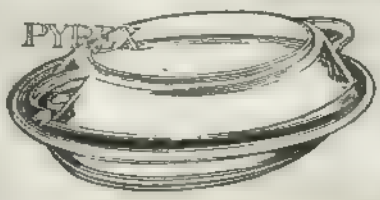
Square.

No. 800B—Size 8½×3 in., cap. 1½ qts., per dozen $15.00

BAKING DISHES

Round, shallow.

No. 135—Size 8×1½ in., cap. 1 qt., w't per doz. 21 lbs. ....per dozen $12.00



Covered, two-piece, oval.

No. 110—Size 10×7⅛×2⅞ in., dz. $24.00

ONE IN A CARTON

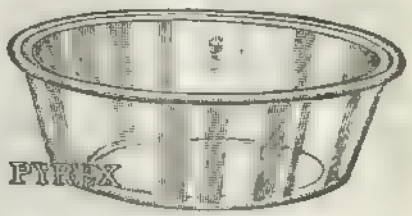
PUDDING OR BAKING DISHES

Round.

Nos.	120	121	122	123
Size, in.	9⅝×3½	9×3⅛	8½×2⅞	7½×2⅛
Cap., qts.	2½	2	1½	1
W't per doz., lbs.	32	27	22	16
Per dozen	$16.80	14.40	12.00	10.20

ONE IN A CARTON

UNCOVERED BAKING OR PUDDING DISHES



Nos.	464	465	466
Size, in.	7½×2½	8½×2⅞	9½×3
Capacity, qts.	1	1½	2
W't per doz., lbs.	15	20	31
Per dozen	$10.20	12.00	14.40

ONE IN A CARTON

OBLONG UTILITY PAN

No. 231—10½×6½×2 in., w't per doz. 26 lbs. .....per dozen $12.00
QUARTER DOZEN IN A CARTON

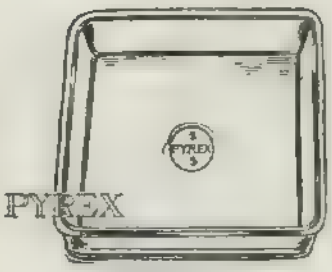
No. 232—12⅝×8½×2 in., w't per doz. 42 lbs. .....per dozen $21.00
ONE IN A CARTON

PYREX Transparent OVEN-WARE

TRADE MARK REG.

Has the name on every piece

BISCUIT PANS



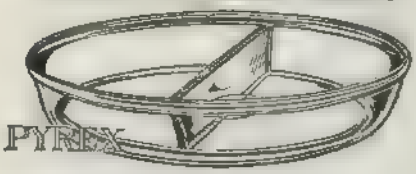
OBLONG

No. 234—Size 9⅛×7⅝×1⅛ in., dz. *$10.20*

No. 235—Size 11⅛×8⅝×1⅛ in., dz. *$15.00*

ONE IN A CARTON

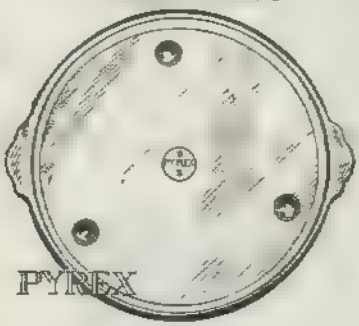
ROUND VEGETABLE DISHES



DOUBLE COMPARTMENT

No. 130—Size 9½×1⅞ in., per dozen *$18.00*

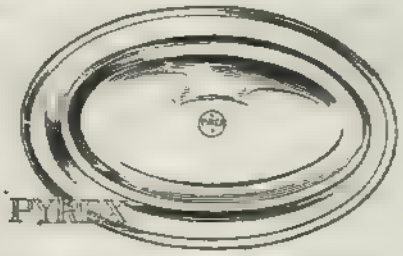
ROUND TRAYS



No. 706—Size 7×¾ in., per dozen *$6.00*

ALL ABOVE ONE IN A CARTON

FISH OR MEAT PLATTERS



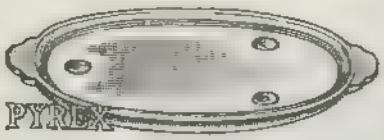
OVAL

No. 313—Size 13¾×8¾×1½ in., dz. *$18.00*

No. 315—Size 15¾×10¾×1½ in., per dozen *$24.00*

ALL ABOVE ONE IN A CARTON

SERVING TRAYS



No. 710—11×8 in. round, w't per doz. 21 lbs. .....per dozen *$12.00*

HALF DOZEN IN A CARTON

CUSTARD CUPS

Nos.	422	423	427
Size, in...	4×2¼	3¼×2	4⅜×3¼×1⅛
Cap., oz.	6	4	5
W't, doz., lbs.	4½	3½	3½
Per dozen	*$3.00*	*2.40*	*3.60*

HALF DOZEN IN A CARTON

RAMEKINS

No. 432—3¼×1⅛ in., 3½ oz., w't per doz. 3 lbs. .....per dozen *$1.80*

HALF DOZEN IN A CARTON

No. 442—Flange 3¾×1⅛ in., capacity 4 oz., w't per doz. 4 lbs., per dozen *$2.40*

Carry a line of goods upon which you can rely.

The dealer who carries H. S. B. & Co. Brands marks his store as a place where the better goods are sold.

A house with over sixty-seven years' experience stands back of our brands.

H.S.B.&CO. OUR VERY BEST O.V.B.

Our Very Best is the Very Best.

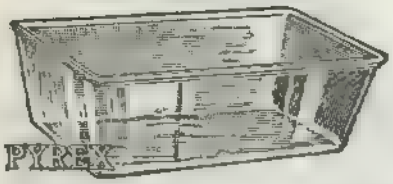
H.S.B. & CO. REV-O-NOC

We Stand Behind Our Brand.

PYREX Transparent OVEN-WARE

Has the name on every piece

DEEP BREAD PANS



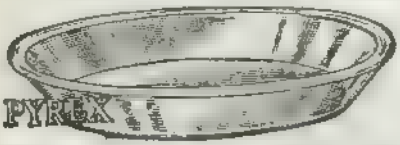
No. 212—9⅛x5¼x2⅝ in., w't per doz. 16 lbs. .....per dozen *$10.80*
QUARTER DOZEN IN A CARTON

No. 214—10⅛x5⅝x3⅜ in., w't per doz. 30 lbs. .....per dozen *$18.00*
ONE IN A CARTON

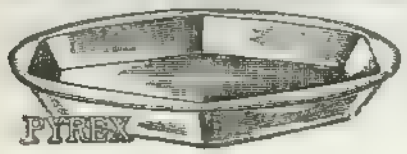
PIE PLATES

Wide Flange.

No. 201—Diam. inside 9⅛x1⅛ in., w't per doz. 19 lbs., per dozen *$10.80*

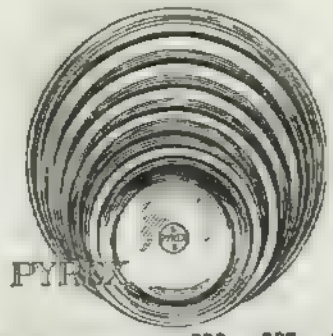


Nos.	202	203
Size, in.	8⅛x1⅛	9⅛x1⅛
W't per doz., lbs.	16	20
Per dozen	*$ 9.00*	*10.80*



No. 1203—Six sided, 9⅛x1⅛ in., w't per doz. 21 doz., ...per dozen *$12.00*
THREE IN A CARTON

PIE PLATES

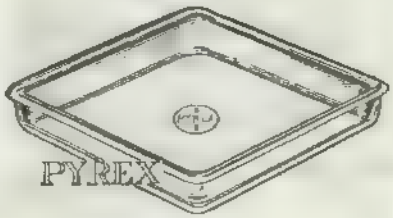


Nos.	206	207	208
Size, in.	6⅛x1⅛	7⅛x1⅛	8⅛x1⅛
Per dozen	*$6.00*	*7.20*	*9.00*

Nos.	210	211
Size, in.	10⅛x1⅛	11⅛x1⅛
Per dozen	*$12.00*	*13.20*

ONE IN A CARTON

CAKE DISHES



SQUARE

Nos.	809	810
Size, in.	9⅛x1⅛	10⅛x1⅛
Per dozen	*$12.00*	*18.00*

ROUND, SHALLOW

No. 220—Size 9⅛x1 in. ....doz. *$9.00*

ROUND CAKE DISHES

No. 221—9⅛x1⅛ in., w't per doz. 19 lbs. .....per dozen *$9.00*
QUARTER DOZEN IN A CARTON

ROUND DISHES WITH HANDLES

Nos.	301	302
Size, in.	8⅛x1⅛	6⅞x1⅛
W't per doz., lbs.	13	7½
Per dozen	*$10.80*	*8.40*

HALF DOZEN IN A CARTON

OVAL AU GRATIN DISHES

No. 322—10x6⅛x1⅛ in., w't per doz. 13 lbs. .....per dozen *$10.20*
HALF DOZEN IN A CARTON

ROUND BAKING OR INDIVIDUAL PIE DISHES

Nos.	452	453	455
Size, in.	4⅛x1⅛	4⅛x1⅛	5⅛x1⅛
Capacity, ozs.	6	8	12
Per dozen	*$3.00*	*3.60*	*4.80*

HALF DOZEN IN A CARTON

BAKING DISHES

OVAL SHALLOW

Nos.	400	401	402	403
Size, in.	6⅛x4⅛x1⅛	6⅛x4⅛x1⅛	7⅛x5⅛x1⅛	8⅛x6x1⅛
Capacity, ozs.	9	10	12½	18½
Per dozen	*$4.80*	*5.40*	*6.60*	*7.20*

HALF DOZEN IN A CARTON

REMINGTON POCKET KNIVES

Remington

R 71

Redwood Handle, Spear and Pen Blades, Blue Glazed, Master Blade Etched, Brass lined, Steel Bolster.
Length, 3½ inches.
Weight, per dozen, 2¼ pounds.

NO.	DOZEN
R71	$12.00

Remington

No. R 83

Stag Handle, Clip and Pen Blades, Blue Glazed and Etched, Brass lined, Steel Cap.
Length, 3½ inches.

NO.	DOZEN
R83	$12.00

Remington

R 152

Black Handle, Clip Blade Crocus Polished and Etched, Pen Blade Blue Glazed, Brass Lined, Nickel Silver Cap and Bolster.
Length, closed, 3⅛ inches.
Weight, per dozen, 2⅛ lbs.

NO.	DOZEN
R152	$15.00

Remington

No. R 73

Stag Handle, Spear and Pen Blades, Blue Glazed and Etched, Brass lined, Steel Cap.
Length, 3½ inches.

NO.	DOZEN
R73	$12.00

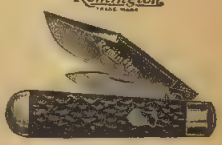
Remington

R 133

Stag Handle, Spear and Punch Blades, Spear Blade Blue Glazed and Etched, Punch Blade Blued and Polished, Brass lined, Steel Cap and Bolster.
Length, 3½ inches.

NO.	DOZEN
R133	$15.00

Remington



R 153

Stag Handle, Clip and Pen Blades, Blades Blue Glazed, Clip Blade Etched, Brass lined, Nickel Silver Cap and Bolster.
Weight, per dozen, 2¼ lbs.
Length, closed, 3½ inches.

NO.	DOZEN
R153	$15.00

Remington

R 82

Black Handle, Clip and Pen Blades, Blue Glazed, Master Blade Etched, Brass lined, Steel Bolster.
Length, 3½ inches.
Weight, per dozen, 2¼ pounds.

NO.	DOZEN
R82	$12.00

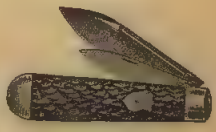
Remington

R 143

Stag Handle, Spear Blade Crocus Polished and Etched, Pen Blade Blue Glazed, Brass Lined, Nickel Silver Cap and Bolster.
Length, closed, 3⅛ inches.
Weight, per dozen, 2⅛ lbs.

NO.	DOZEN
R143	$15.00

Remington



R 163

Stag Handle, Spear Blade Crocus Polished and Etched, Pen Blade Blue Glazed, Brass Lined, Nickel Silver Cap and Bolster.
Length, closed, 3⅛ inches.
Weight, per dozen, 2⅛ lbs.

NO.	DOZEN
R163	$15.00

REMINGTON POCKET KNIVES

Remington

R 413

Stag Handle, Easy Opener, Spear and Pen Blades, Blue Glazed, Master Blade Etched, Brass lined, Steel Cap and Bolster.

Length, 3½ inches.
Weight, per dozen, 2¼ pounds.

NO.	DOZEN
R413	$15.00

Remington

R 775

Pyremite Handle, Clip and Pen Blades Blue Glazed, Clip Blade Etched, Brass Lined, Polished Steel Cap and Bolster.

Length, closed, 3⅛ inches.
Weight, per dozen, 2⅛ lbs.

NO.	DOZEN
R775	$15.00

Remington

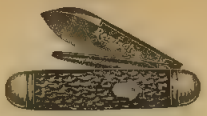
R 393

Stag Handle, Spear and Pen Blades, Blue Glazed and Etched, Brass lined, Steel Cap and Bolster.

Length, 3⅛ inches.

NO.	DOZEN
R393	$15.00

Remington



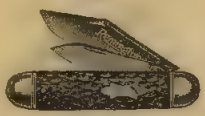
R 563

Stag Handle, Spear Blade Blue Glazed and Etched, Punch Blade Blued and Polished, Brass Lined, Steel Cap and Bolster.

Length, closed, 3¼ inches.
Weight, per dozen, 1¾ lbs.

NO.	DOZEN
R563	$15.00

Remington



R 573

Stag Handle, Clip and Pen Blades Blue Glazed, Clip Blade Etched, Brass lined, Nickel Silver Cap and Bolster.

Length, closed, 3¼ inches.
Weight, per dozen, 1¾ pounds.

NO.	DOZEN
R573	$15.00

Remington

R 575-G

Pyremite Handle, Clip Blade Crocus Polished and Etched, Pen Blade Blue Glazed, Brass Lined, Nickel Silver Cap and Bolster.

Length, closed, 3¼ inches.
Weight, per dozen, 1¾ lbs.

NO.	DOZEN
R575-G	$15.00

Remington

R 473

Stag Handle, Clip and Pen Blades Blue Glazed, Clip Blade Etched, Brass lined, Diagonal Nickel Silver Cap and Bolster.

Length, closed, 3⅝ inches.
Weight, per dozen, 1½ pounds.

NO.	DOZEN
R473	$15.00

Similar to R573 except has large spear blade.

NO	DOZEN
R483	$21.00

Remington

R513

Stag Handle, Clip Blade Crocus Polished and Etched, Pen Blade Blue Glazed, Brass Lined, Nickel Silver Cap and Bolster.

Length, closed, 3⅛ inches.
Weight, per dozen, 2¼ lbs.

NO.	DOZEN
R513	$21.00

REMINGTON POCKET KNIVES

Remington

R 383

Stag Handle, Clip and Pen Blades, Blue Glazed, Clip Blade Etched, Brass Lined, Nickel Silver Cap and Bolster.
Length, closed, 3¾ inches.
Weight, per dozen, 2¼ lbs.

NO.	DOZEN
R383	$18.00

Remington

R 363

Stag Handle, Spear and Pen Blades, Spear Blade Crocus Polished and Etched, Pen Blade Blue Glazed, Brass Lined, Polished Diagonal Nickel Silver Bolster.
Length, closed, 3¾ inches.
Weight, per dozen, 2¼ lbs.

NO.	DOZEN
R363	$18.00

Pruning Knife, One Blade, Coco Handle.

NO.	DOZEN
R498	$15.00

Remington

R 745

Pyremite Handle, Spear Blade Crocus Polished and Etched, Pen Blade Blue Glazed, Brass Lined, Polished Steel Cap and Bolster.
Length, closed, 3½ inches.
Weight, per dozen, 2½ lbs.

NO.	DOZEN
R745	$15.00

Remington

R 3443

Stag Handle, Spear Blade Crocus Polished and Etched, Pen Blade Blue Glazed, Brass lined, Nickel Silver Bolsters.
Length, closed, 3¼ inches.
Weight, per dozen, 1½ pounds.

NO.	DOZEN
R3443	$15.00

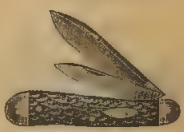
Remington

R 3435-N

Pyremite Handle, Spear Blade Crocus Polished and Etched, Pen Blade Blue Glazed, Brass lined, Nickel Silver Saw Rivets.
Length, closed, 3¼ inches.
Weight, per dozen, 1½ pounds.

NO.	DOZEN
R3435N	$15.00

Remington



R 673

Stag Handle, Spear and Pen Blades Blue Glazed, Spear Blade Etched, Brass lined, Nickel Silver Cap and Bolster.
Length, closed, 3 inches.
Weight, per dozen, 18 ounces.

NO.	DOZEN
R673	$15.00

Remington

R 875-G

Pyremite Handle, Spear Blade Crocus Polished and Etched, Pen Blade Blue Glazed, Brass lined, Nickel Silver Cap and Bolster.
Length, closed, 3¼ inches.
Weight, per dozen, 16 ounces.

NO.	DOZEN
R875G	$15.00

Remington

R 263

Stag Handle, Clip and Pen Blades Blue Glazed, Clip Blade Etched, Brass lined, Nickel Silver Cap and Bolster.
Length, closed, 3⅛ inches
Weight, per dozen, 2 lbs.

NO.	DOZEN
R263	$18.00

REMINGTON POCKET KNIVES

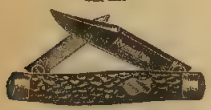
Remington

R 3203

Stag Handle, Blades Blue Glazed, Clip Blade Etched, Brass Lined, Polished Steel Bolsters.
Length, closed, 3½ inches.
Weight, per dozen, 2¼ lbs.

NO.	DOZEN
R3203	$21.00

Remington

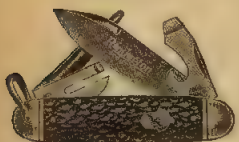


R 3533

Stag Handle, Clip Blade Crocus Polished, and Etched, Pen Blade Blue Glazed, Brass Lined, Nickel Silver Bolsters.
Length, closed, 3⅜ inches.
Weight, per dozen, 1⅛ lbs.

NO.	DOZEN
R3533	$21.00

Remington



R 3333

Scout Knife, Stag Handle, Spear and Punch Blades, Screw Driver-Cap Lifter and Can Opener, Spear Blade Crocus Polished and Etched, Punch Blade Blued and Polished, other Blades Blue Glazed, Milled Brass Lining, Nickel Silver Bolsters and Shackle.
Length, closed, 3¾ inches.
Weight, per dozen, 2¾ lbs.

NO.	DOZEN
R3333	$27.00

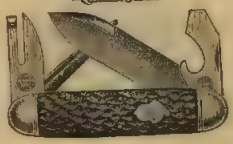
Remington

R 3335-U

Scout Knife, Pyremite (Red, White and Blue) Handle, Spear and Punch Blades, Screw Driver-Cap Lifter and Can Opener, Spear Blade Crocus Polished and Etched, Punch Blade Blued and Polished, other Blades Blue Glazed, Milled Brass Lining, Nickel Silver Bolsters and Shackle.
Length, closed, 3¾ inches.
Weight, per dozen, 2¾ lbs.

NO.	DOZEN
R3335U	$27.00

Remington



R 3863

Stag Handle, Spear Blade Crocus Polished and Etched, Punch Blade Blued and Polished, Other Blades Blue Glazed, Milled Brass Lining, Nickle Silver Bolsters.
Length, closed, 3¾ inches.
Weight, per dozen, 2¾ lbs.

NO.	DOZEN
R3863	$27.00

Remington

R 6193

Stag Handle, Spear Blade Crocus Polished and Etched, Pen Blade Blue Glazed, Brass lined, Nickel Silver Bolsters.
Length, closed, 3¼ inches.
Weight, per dozen, 12 ounces.

NO.	DOZEN
R6193	$15.00

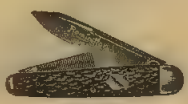
Remington

R 6473

Stag Handle, Spear Blade Crocus Polished and Etched, File Blade Blue Glazed, Brass Lined, Nickel Silver Bolsters.
Length, closed, 3 inches.
Weight, per dozen, 12 ozs.

NO.	DOZEN
R6473	$15.00

Remington



R 6633

Stag Handle, Blades Crocus Polished and Etched, Brass lined, Nickel Silver Bolster and Tip.
Length, closed, 3⅛ inches.
Weight, per dozen, 16 ounces.

NO	DOZEN
R6633	$18.00

Remington

R 6203

Stag Handle, Spear Blade Crocus Polished and Etched, File Blade Blue Glazed, Brass Lined, Nickel Silver Tips.
Length, closed, 3¼ inches.
Weight, per dozen, 12 oz.

NO	DOZEN
R6203	$18.00

REMINGTON POCKET KNIVES

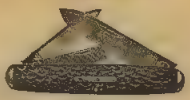
Remington

R 6205

Stag Handle, Spear Blade Crocus Polished and Etched, Other Blades Blue Glazed, Brass Lined, Nickel Silver Bolsters.
Length, closed, 3¼ inches.
Weight, per dozen, 12 ozs.

NO.	DOZEN
R6205N	$18.00

Remington

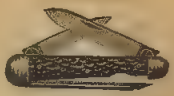


R 6533

Stag Handle, Spear Blade Crocus Polished and Etched, Pen and Manicure Blades Blue Glazed, Brass Lined, Nickel Silver Tips.
Length, closed, 3 inches.
Weight, per dozen, 14 ozs.

NO.	DOZEN
R6533	$24.00

Remington



R 6443

Stag Handle, Spear Blade Crocus Polished, Other Blades Blue Glazed, Milled Brass Lining, Nickel Silver Bolsters.
Length, closed, 2¾ inches.
Weight, per dozen, 12 oz.

NO.	DOZEN
R6443	$30.00

Remington

R 6243

Stag Handle, Blades Crocus Polished, Spear Blade Etched, Milled Brass Lining, Nickel Silver Tips.
Length, closed, 3⅛ inches.
Weight, per dozen, 15 oz.

NO	DOZEN
R6243	$21.00

Remington

R 6233

Stag Handle, Spear, Pen, Cut-off Pen and Manicure Blades, Spear Blade Crocus Polished, Pen Blades Blue Glazed, Brass Lined, Nickel Silver Tips.
Length, closed, 3¼ inches.
Weight, per dozen, 16 ozs.

NO.	DOZEN
R6233	$27.00

Two blade penknife. Pyremite handle

NO	DOZEN
R6635P	$18.00

Remington

R 6333

Stag Handle, Spear Blade Crocus Polished and Etched, Pen and Manicure Blades Blue Glazed, Milled Brass Lining, Nickel Silver Bolsters.
Length, closed, 3⅛ inches.
Weight, per dozen, 20 oz.

NO.	DOZEN
R6333	$24.00

Remington

R 6535-F

Pyremite Handle, Spear Blade Crocus Polished and Etched, Pen and File Blades Blue Glazed, Brass Lined, Nickel Silver Tips.
Length, closed, 3 inches.
Weight, per dozen, 14 ounces.

NO.	DOZEN
R6535-F	$24.00

Remington

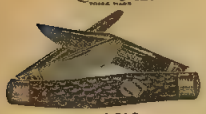
R 3493

Stag Handle, Clip, Spey and Pen Blades, Clip Blade Crocus Polished and Etched, Other Blades Blue Glazed, Brass Lined, Nickel Silver Bolsters.
Length, closed, 3⅜ inches.
Weight, per dozen, 1¼ lbs.

NO.	DOZEN
R3493	$24.00

REMINGTON POCKET KNIVES

Remington

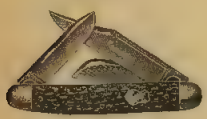


R 3513

Stag Handle, Clip, Spey and Punch Blades, Clip Blade Crocus Polished and Etched, Spey Blade Blue Glazed, Punch Blade Blued and Polished.
Length, closed, 3⅝ inches.
Weight, per dozen, 1¼ lbs.

NO.	DOZEN
R3513	$24.00

Remington



R 3503

Stag Handle, Clip, Sheepsfoot and Spey Blades, Clip Blade Crocus Polished and Etched, Other Blades Blue Glazed, Milled Nickel Silver Lining, Nickel Silver Bolsters.
Length, closed, 3⅝ inches.
Weight, per dozen, 1¼ lbs.

NO	DOZEN
R3503	$27.00

Remington

R 3413

Stag Handle, Clip Blade Crocus Polished and Etched, Spey Blade Blue Glazed, Punch Blade Blued and Polished, Milled Brass Lining, Diagonal Nickel Silver Bolsters.
Length, closed, 3⅝ inches.
Weight, per dozen, 1⅛ pounds.

NO	DOZEN
R3413	$27.00

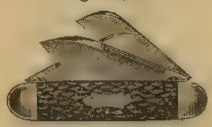
Remington

R 3993

Stag Handle, Clip Blade Crocus Polished and Etched, Sheepsfoot and Spey Blades Blue Glazed, Brass lined, Nickel Silver Bolsters.
Length, closed, 3⅝ inches.
Weight, per dozen, 1⅞ pounds.

NO.	DOZEN
R3993	$27.00

Remington



R 3163

Stag Handle, Spear Blade Crocus Polished and Etched, Other Blades Blue Glazed, Brass Lined, Nickel Silver Bolsters.
Length, closed, 3½ inches.
Weight, per dozen, 2⅝ lbs.

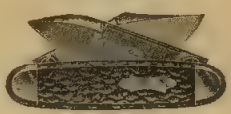
NO.	DOZEN
R3163	$27.00

Similar to No. 3163. Clip, Spey and Punch Blades.

NO	DOZEN
R3233	$30 00

NO	DOZEN
R3283	$30.00

Remington



R 3363

Stag Handle, Spear Blade Crocus Polished and Etched, Clip Blade Blue Glazed, Brass Lined, Nickel Silver Bolsters.
Length, closed, 3¾ inches.
Weight, per dozen, 2¼ lbs.

NO.	DOZEN
R3363	$24 00

NO.	DOZEN
R3963	$36.00

REMINGTON POCKET KNIVES

Similar to No. 3993. Pyremite handle

NO.	DOZEN
R4085G	$36.00

Remington

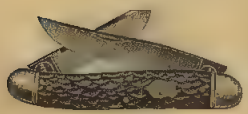
R 4145

Pyremite Handle, Slender Turkish Clip Blade Crocus Polished and Etched, Pen Blade Blue Glazed, Brass Lined, Nickel Silver Tips.

Length, closed, 3⅝ inches.
Weight, per dozen, 1⅛ lbs.

NO	DOZEN
R4145	$24 00

Remington



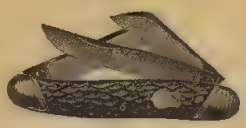
R 3893

Stag Handle, Turkish Clip Blade Crocus Polished and Etched, Spey Blade Blue Glazed, Milled Nickel Silver Lining and Bolsters, Single Spring.

Length, closed, 3⅞ inches.
Weight, per dozen, 2 pounds.

NO.	DOZEN
R3893	$21.00

Remington



R 3643

Stag Handle, Turkish Clip, Spey and Sheepsfoot Blades, Clip Blade Crocus Polished and Etched, Other Blades Blue Glazed, Milled Nickel Silver Lining, Diagonal Nickel Silver Bolsters.

Length, closed, 3⅞ inches.
Weight, per dozen, 2¼ pounds.

NO.	DOZEN
R3643	$27.00

Remington

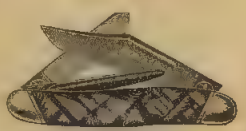
R 3883

Stag Handle, Clip Blade Crocus Polished and Etched, Pen, Sheepsfoot and Spey Blades Blue Glazed, Milled Nickel Silver Lining, Nickel Silver Bolsters.

Length, closed, 3⅞ inches.
Weight, per dozen, 2¼ lbs.

NO.	DOZEN
R3883	$30.00

Remington



R 3575-G

Pyremite Handle, Heavy Gauge Clip, Spey and Punch Blades, Clip Blade Crocus Polished and Etched, Spey Blade Blue Glazed, Punch Blade Blued and Polished, Milled Nickel Silver Linings, Diagonal Nickel Silver Bolsters.

Length, closed, 3⅞ inches.
Weight, per dozen, 2¼ pounds.

NO.	DOZEN
R3575G	$30.00

Remington

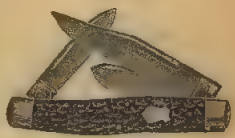
R 3053

Stag Handle, Clip Sheepsfoot and Spey Blades, Clip Blade Crocus Polished and Etched, other Blades Blue Glazed, Milled Brass lining, Nickel Silver Bolsters.

Length, closed, 3⅞ inches
Weight, per dozen, 2½ lbs.

NO.	DOZEN
R3053	$27.00

Remington



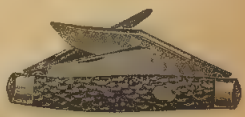
R 3873

Stag Handle, Clip, Spey and Pen Blades, Clip Blade Crocus Polished and Etched, other Blades Blue Glazed, Milled Brass lining, Nickel Silver Bolsters.

Length, closed, 3⅞ inches
Weight, per dozen, 2½ lbs.

NO.	DOZEN
R3873	$27 00

Remington



R 3073

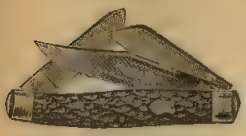
Stag Handle, Clip Blade Crocus Polished and Etched, Spey Blade Blue Glazed, Punch Blade Blued and Polished, Milled Brass Lining, Nickel Silver Bolsters.

Length, closed, 3⅞ inches.
Weight, per dozen, 2½ lb.

NO.	DOZEN
R3073	$27 00

REMINGTON POCKET KNIVES

Remington

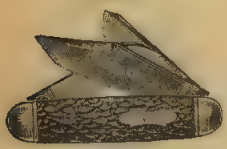


R 4113

Stag Handle, Clip, Spey and Sheepsfoot Blades, all Blades Full Crocus Polished, Clip Blade Etched, Full Milled Nickel Silver Linings Burnished and Polished, Nickel Silver Bolsters.
Length, closed, 3⅞ inches.
Weight, per dozen, 2½ lbs.

NO.	DOZEN
R4113	$36.00

Remington



R 3263

Stag Handle, Clip Blade Crocus Polished and Etched, Sheepsfoot and Spey Blade Blue Glazed, Full Milled Brass Linings, Nickel Silver Bolsters.
Length, closed, 3¾ inches.
Weight, per dozen, 2½ pounds.

NO.	DOZEN
R3263	$24.00

Remington

R 3303

Stag Handle, Clip Blade Crocus Polished and Etched, Sheepsfoot, Pen and Spey Blades Blue Glazed, Full Milled Brass Lining, Nickel Silver Bolsters.
Length, closed, 3¾ inches.
Weight, per dozen, 2¾ pounds.

NO.	DOZEN
R3303	$27 00

Remington

R 674

Pearl Handle, Spear Blade Crocus Polished and Etched, Pen Blade Blue Glazed, Brass lined, Nickel Silver Cap and Bolster.
Length, closed, 3 inches.
Weight, per dozen, 18 ounces.

NO.	DOZEN
R074	$30.00

Remington

R 6634

Pearl Handle, Spear Blade Crocus Polished and Etched, File Blade Blue Glazed, Brass Lined, Nickel Silver Bolster and Tip.
Length, closed, 3¼ inches.
Weight, per dozen, 11 ozs.

NO.	DOZEN
R6634	$33.00

Remington

R 6204

Pearl Handle, Spear Blade Crocus Polished and Etched, File Blade Blue Glazed, Brass Lined, Nickel Silver Tips.
Length, closed, 3¼ inches.
Weight, per dozen, 12 oz.

NO.	DOZEN
R6204	$36.00

Remington

R 6504

Pearl Handle, Spear Blade Crocus Polished and Etched, File Blade Blue Glazed, Brass Lined, Nickel Silver Tips and Shackle.
Length, closed, 3 inches.
Weight, per dozen, 11 ozs.

NO.	DOZEN
R6504	$36.00

Remington

R 6244

Pearl Handle, Blades Crocus Polished, Milled Nickel Silver Linings, Nickel Silver Tips.
Length, closed, 3½ inches.
Weight, per dozen, 15 ounces.

NO.	DOZEN
R6244	$42.00

Remington

R 6234

Pearl Handle, Spear, Pen Cut-off Pen and Manicure Blades, Spear Blade Crocus Polished, Pen Blades Blue Glazed, Brass Lined, Nickel Silver Tips.
Length, closed, 3¼ inches.
Weight, per dozen, 16 ozs.

NO.	DOZEN
R6234	$48.00

STEWART CLIPPING MACHINES AND ATTACHMENTS

Prices on Application

NO. 1 STEWART BALL BEARING, ENCLOSED TYPE CLIPPING MACHINE FOR HORSES, MULES AND COWS

The gearing is all enclosed in a dust and dirt proof case and runs in oil constantly.

It has a solid tripod base, a strong upright and its gears are all cut from solid steel made file hard.

A slow turning of the handle is transformed by the ingenious mechanism of the gears to a tremendous speed in the knife.

It turns so easily that it is mere play to run it.

The entire machine is sturdy, compact and perfect in every detail of material and workmanship.

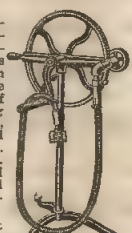
The price puts it within reach of every farmer and horse owner.

No. 1—Ball bearing, complete with 6 ft. of flexible shaft and Stewart clipping knife and handle, shipping w't 36 lbs. .....each *$10.75*

No. 18—Combination machine for **clipping horses,** mules and cows, **and shearing sheep** and goats, consists of No. 1 Stewart ball bearing clipping machine and shearing attachments, shipping w't 52 lbs., each *$21.25*

NO. 2 CHICAGO CLIPPING MACHINE FOR HORSES, MULES AND COWS

STEWART Patent.



A big, strong machine and a special favorite with livery men, blacksmiths, and all who have much clipping to do. 18 inch large gear, is carefully machined all over, the teeth are cut from solid metal and engage with perfect precision in the teeth of the hardened steel pinion. Wearing parts are all hardened tool steel, shaft revolves with great speed and completely equalizes the motion. Easily turned with either hand. Light running and noiseless, will clip a horse in 30 minutes. Rigid tripod base and strong tubular upright.

No. 2—Equipped with 6½ ft. highest grade flexible shaft and Stewart one nut clipping knife and handle, w't boxed 75 lbs. ....each *$17.00*

CHICAGO VETERINARY POWER FLOATS

These floats keep the teeth of horses in good condition. Half the food will do more good if the teeth are in good condition to chew it properly. Can be attached very easily to any of our hand power horse clipping machines.

Chicago veterinary power float including one rasp, each *$4.50*

Extra rasps .....each *$0.50*

PACKED IN CARDBOARD BOXES. WEIGHT 3 LBS.

SHEEP AND GOAT SHEARING ATTACHMENTS

For use on Stewart No. 1 or 2 Chicago horse clipping machines.

No. 155—Sheep shearing attachment, consists of **No. 5 Stewart Shear** complete with four sets of shearing knives, the solid core, universal jointed shaft and cogs as illustrated, w't 20 lbs., complete .....each *$10.50*

No. 177—Ball bearing, for Nos. 1 and 2 Chicago horse clipping machines or on any hand power Stewart sheep shearing machines, consists of solid core shearing shaft fitted with ball bearings, No. 7 Stewart ball bearing shear and 4 sets of combs and cutters, w't 20 lbs., complete .....each *$12.00*

In ordering ball bearing sheep shearing machine attachments mention number of machine and when it was purchased.

ACCESSORIES FOR ALL STEWART HORSE CLIPPING MACHINES

No. 871—Shaft **without chain,** 6 ft. long, with **old style, round end ferrule to fit No. 1C clipping head** for No. 1 horse clipping machine .....each *$3.00*

No. 871A—Shaft **without chain,** 6 ft. long, with **new style, square end ferrule to fit No. 1B clipping head** for No. 1 horse clipping machine .....each *$3.00*

No. 450—Shaft **with chain,** 6 ft. long, with **old style, round end ferrule to fit No. 1C clipping head** for No. 1 horse clipping machine .....each *$4.65*

No. 450A—Shaft **with chain,** 6 ft. long with **new style, square end ferrule to fit No. 1B clipping head** for No. 1 horse clipping machine .....each *$4.65*

No. 700—Shaft **without chain,** 6½ ft. long, with **old style round end ferrule to fit No. 1C clipping head** for No. 2 horse clipping machine .....each *$4.00*

No. 700A—Shaft **without chain,** 6½ ft. long, with **new style square end ferrule to fit No. 1B clipping head** for No. 2 horse clipping machine .....each *$4.00*

No. 488—Shaft **with chain,** 6½ ft. long, with **old style, round end ferrule to fit No. 1C clipping head** for No. 2 horse clipping machine .....each *$5.70*

No. 488A—Shaft **with chain,** 6½ ft. long, with **new style square end ferrule to fit No. 1B clipping head** for No. 2 horse clipping machine .....each *$5.70*

All horse clipping machines supplied since January 1, 1915 have been fitted with square end shafts, which fit only the No. 1B clipping head with square shank. The No. 1C, old style, round shank clipper head will fit only the old style, round end shaft.

Chain links, separate, for flexible, per dozen *$0.42*

Oil, in quart cans .....per quart *.75*

Oil, in gallon cans .....per gallon *2.00*

Chain Paste, 1 lb. can .....each *.40*

Grinding all kinds of horse clipper knives, per set of two ..... *.50*

Grinding sheep shear knives ....per set of two *.25*

Prices on Application

STEWART ELECTRIC CLIPPING MACHINE

PEDESTAL TYPE

For Horses, Cows and Mules.

Where there is considerable clipping to do this machine quickly pays for itself. Equipped with ¾ H. P. motor, at a speed of 1600 R. P. M., it clips very fast and takes care of a large amount of work. Clips horses, mules and cows.

For the efficiency and smooth, easy running required in clipping, no machine equals the Stewart.

Pedestal Type.

The 6-foot flexible shaft is connected by universal joint to armature shaft of motor, making a positive drive with no chance for lost motion.

Fitted with improved Stewart Single Tension Clipping Head, requiring less tension than any other style of head; knives stay sharp longer and give more efficient service.

Used for sheep shearing by fitting with a Special Sheep Shearing Attachment.

Has good length cord and convenient switch for starting and stopping.

Furnished in 32, 110 or 220 volt, direct current; 110 or 220 volt, 60 cycle alternating current.

No. 85—Stewart electric clipping machine, shipping w't 100 lbs. ..... each *$85.00*

No. 15—Stewart sheep shearing attachment, shipping w't 15 lbs. ..... each *$15.00*

No. 1000—Stewart combination electric shearing and clipping machine, shipping w't 115 lbs., each *$100.00*

Specify on orders whether machine is for direct or alternating current, also if 32V, 110V, or 220V.

STEWART ELECTRIC SHEARING MACHINES

PEDESTAL TYPE

This machine is especially adaptable where a large flock of sheep is to be shorn.

Includes ¾ H. P. motor, at a speed of 1600 R. P. M. It saves time in shearing and removes the wool in one unbroken blanket, leaving a smooth, even stubble for the following year's growth.

The universal jointed shaft that drives the shear is connected direct to armature shaft of motor, driving shearing head smoothly without any lost power. Equipped with Stewart Air Cooled Shearing Head. For fast shearing, economy and durability it cannot be equalled. It gets the wool faster, and because of its perfected mechanism runs absolutely smooth.

Pedestal Type.

Used as a clipping machine, by fitting with a Special Clipping Attachment.

Has good length cord and convenient switch for starting and stopping.

Furnished in 32, 110 or 220 volt, direct current; 110 or 220 volt, 60 cycle alternating current.

No. 900—Stewart electric shearing machine, shipping w't 100 lbs. ..... each *$90.00*

No. 10—Stewart clipping attachment, shipping w't 15 lbs. ..... each *$10.00*

No. 1000—Stewart combination electric shearing and clipping machine, shipping w't 115 lbs., each *$100.00*

Specify on orders whether machine is for direct or alternating current, also if 32V, 110V, or 220V.

SHIPPING FACILITIES

With our immense stock and very modern facilities for shipments we are enabled to fill orders with unequaled promptness. On some of the roads we have special through cars which enable us to reach distant points 24 hours ahead of shipments made in the regular way.

Prices on Application

PARTS FOR STEWART CUTTING HEAD FOR HORSE CLIPPING MACHINES

Patented.

AS SUPPLIED SINCE JANUARY 1, 1915

Caution—Do not file or grind any part of the clipping head in any way. It is exactly right to cut best. The only grinding to be done is to re-sharpen the cutting plates when they get dull, and that must be done right.

Be sure to let parts Nos. 358 and 359 alone. If they should be removed in any way, do not attempt to use the clipper head until they are properly replaced. Remove before grinding and replace after.

Complete.

This clipping handle and knife will fit **only the square end type of shaft** as furnished with all Stewart horse clipping machines since January 1, 1915.

No. 1B—Handle and knife, complete	each	*$3.50*
No. 2B—Knife, without handle	each	*2.50*
No. 3B—Handle only	each	*1.00*
No. 351—Taper sleeve	each	*.40*
No. 352—Drive pin	each	*.35*
No. 353—Drive ball	each	*.10*
No. 354—Brace	each	*.50*
No. 355—Cross head	each	*.50*
No. 356—Cross head pin	each	*.10*
No. 357—Guide pins	each	*.05*
No. 358—Ball boss	each	*.05*
No. 359—Socket boss	each	*.05*
No. 360—Top plate	each	*1.00*
No. 361—Bottom plate	each	*1.50*
No. 91—Tension bolt	each	*.05*
No. 92—Tension spring	each	*.05*
No. 94—Tension nut	each	*.05*

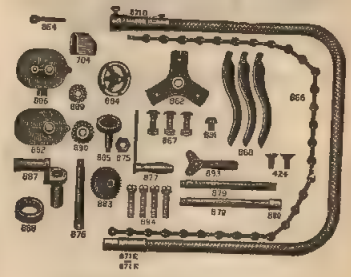
STEWART HORSE CLIPPING KNIVES AND PARTS FOR SAME

AS SUPPLIED BEFORE JANUARY 1, 1915

This clipping handle and knife will fit only the **round end type** of shaft as furnished will all Stewart horse clipping machines before January 1, 1915.

No. 1C—Handle and knife, complete	each	*$3.50*
No. 2C—Knife, without handle	each	*2.50*
No. 3C—Handle only	each	*1.00*
No. 90—Top plate	each	*1.00*
No. 91—Tension spring of handle	each	*.05*
No. 92—Tension bolt of handle	each	*.05*
No. 93—Eccentric roll of handle	each	*.10*
No. 94—Tension nut of handle	each	*.05*
No. 95—Pin and shaft of handle	each	*.35*
No. 97—Shank of handle	each	*.40*
No. 98—Front part of handle	each	*.50*
No. 99—Bottom plate	each	*1.50*
Grinding all kinds of horse clipping knives, per set		*$0.50*

PARTS FOR STEWART NO. 1 BALL BEARING ENCLOSED GEAR CLIPPING MACHINES



AS SUPPLIED SINCE AUGUST 1, 1908

No. 704—Gear cap	each	*$0.50*
No. 862—Leg bracket	each	*.45*
No. 864—Cotter pin	each	*.02*
No. 866—Chain, 6 ft. long	each	*1.80*
No. 867—Bracket, stud and nut	each	*.15*
No. 868—Legs	each	*.45*
No. 871—Shaft, without chain, 6 ft. long, **old style, with round end ferrule to fit No. 1C clipping head**	each	*3.00*
No. 871A—Shaft, without chain, 6 ft. long, **new style, with square end ferrule to fit No. 1B clipping head**	each	*3.00*

IMPORTANT NOTE—When shaft is for machine purchased since Jan. 1, 1915, specify it as No. 871A.

No. 871E—3 in. ferrule for No. 871 shaft	each	*.30*
No. 871F—3 in. ferrule for No. 871A shaft	each	*.30*
No. 871B—5 in. ferrule for No. 871 or No. 871A shaft	each	*.50*
No. 875—Handle nut	each	*.05*
No. 876—Eye spindle	each	*.50*
No. 877—Crank, complete	each	*.75*
No. 879—Either section of upright, 13 in. long, each	each	*.45*
No. 880—Coupling for upright	each	*.25*
No. 882—Gear case cover	each	*.85*
No. 883—Intermediate gear and pinion	each	*2.15*
No. 884—Balance wheel and spindle	each	*1.25*
No. 885—Drive gear and spindle	each	*1.70*
No. 886—Gear case	each	*1.25*
No. 887—Gear head	each	*1.50*
No. 888—Balls and ball cup	per set	*.85*
No. 889—Small cog	each	*.35*
No. 890—Large cog	each	*.50*
No. 891—Gear cap screw	each	*.05*
No. 424—Grip handle screws	each	*.05*
No. 893—Grip handle	each	*.30*
No. 894—Gear case screws	each	*.05*

Prices on Application

PARTS FOR NO. 2 CHICAGO CLIPPING MACHINE

No. 700—Shaft **without chain,** 6½ ft. long with **old style, round end ferrule to fit No. 1C clipping head** .....each $4.00

No. 700A—Shaft **without chain,** 6½ ft. long with **new style, square end ferrule to fit No. 1B clipping head,** each 4.00

No. 701—Chain for shaft, 6½ ft. .....each 1.95

No. 702—Spiral spring, without cover .....each 2.00

No. 703—5 in. ferrule for No. 700 shaft ... each .50

No. 704—Gear cap .....each .50

No. 705—Gear head .....each 1.50

No. 706—Bracket .....each 2.50

No. 707—Tripod .....each 2.50

No. 708—Drive wheel .....each 3.00

No. 709—3 in. ferrule for No. 700 shaft (old style) .....each .30

No. 709A—3 in. ferrule for No. 700A shaft (new style) .....each .30

No. 710—Balance wheel .....each 1.35

No. 711—Crank rod only .....each .50

No. 712—Wood handle for crank .....each .20

No. 713—Axle .....each .65

No. 714—Handle bolt .....each .25

No. 715—Upright .....each 1.35

No. 716—Pinion .....each .60

No. 876—Eye Spindle .....each .50

No. 718—Pinion shaft .....each .50

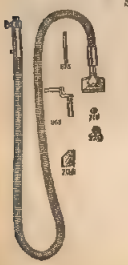
No. 889—Small cog .....each .35

No. 720—Large cog .....each .50

No. 721—Hexagon nut for handle bolt .....each .05

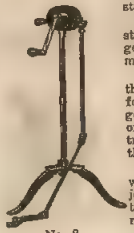
CLIPPING ATTACHMENTS FOR CLIPPING HORSES, MULES AND COWS

For Use on Nos. 6, 8, 9 and "New Model" Sheep Shearing Machines.



No. 550—Clipping attachment, complete with 6 ft. of high grade flexible shaft and chain, eye spindle, Stewart horse clipping knife and handle and connecting parts as illustrated, shipping w't 10 lbs., each $7.00

STEWART SHEEP AND GOAT SHEARING MACHINES



No. 8.

The gearing is all enclosed in a dust and dirt proof case, and runs in oil constantly.

Solid tripod base, strong upright, and gears cut from steel made file hard.

A slow turning of the handle is transformed, by the ingenious mechanism of the gears, to a tremendous speed in the knife.

Solid core shaft with universal joints, may be turned in any direction.

No. 9, Ball Bearing.

Shears are of simple adjustment and of equal tension throughout. Perfectly balanced, will shear all grades of wool.

No. 8—Complete with Stewart No. 5 shear, 4 combs and 4 cutters, w't boxed 45 lbs. .....each $14.25

No. 9—Ball bearing, each joint in the shaft and the shear is fitted with ball bearings, has a larger gear case than the No. 8 machine and a larger balance wheel aids in easy turning, fitted with No. 7 Stewart ball bearing shear, 4 combs and 4 cutters, w't boxed 50 lbs., each $16.00

New Model.

18 in. large gear, enclosed in a stationary frame and drives a steel cut pinion to which is attached a solid core jointed shaft having universal joints permitting it to be turned in any direction, small turned balance wheel fitted to the pinion shaft runs at a high speed and steadies the motion of the machine at all times, all parts are interchangeable.

No. 6.

New Model—Complete with No. 5 Stewart shear, 4 combs and 4 cutters, w't boxed 60 lbs. .....each $18.00

No. 6—Set upon rigid tripod standard and strong tubular upright, w't boxed 75 lbs., otherwise same as New Model sheep shearing machine described .....each $20.00

The knives can be re-sharpened many times and made equal to new by using the automatic grinder shown on this page.

No. 06—Combination machine for clipping horses, mules and cows and shearing sheep and goats, consists of New Model shearing machine mounted on tripod stand, also clipping attachment consisting of 6 ft. flexible shaft and clipping knife and handle, shipping w't 80 lbs., each $27.00

Prices on Application

THE IMPROVED STEWART NO. 11 GRINDERS

For use on the No. 1 horse clipping machine and on the Nos. 8 or 9 sheep shearing machines. Constructed of metal throughout, may be attached to the machine in place of the shaft by means of an ingenious mechanism. This attachment makes it possible to put a perfect edge on the knives of No. 1 horse clipper or Nos. 8 or 9 sheep shearer in a few seconds time, obviating the time and expense incurred in sending them away to be sharpened.

No. 11—Grinder attachment complete, w't boxed 8 lbs., each *$5.00*

NO. 3 STEWART AUTOMATIC HAND GRINDER

Requires no skill or experience as it is automatic and cannot go wrong. A grinding compound is used on the grinding disc and the knives to be sharpened are held in holder.

This machine will sharpen a knife in a few minutes to cut as good as new. Saves sending plates to the factory to be ground. Made of metal throughout. Can be run by power by substituting a pulley for the crank handle.

Customers ordering machines for sharpening both horse clipping and sheep shearing machine plates receive two sets of plate clamps or holders and two eccentric cams. Unless otherwise ordered the sheep shearing machine plate clamps will be for Nos. 276 and 277 cutting plates.

The eccentric cams are alike but for the position for holes where they fit on axle. The one with the hole nearest center is for use when sharpening Nos. 90, 99, 360 and 361 horse clipping machine plates, the other when sharpening sheep shearing machine plates.

This latter cam is also used when Nos. 216 and 217 sheep shearing machine plates are sharpened. Cams are easily changed by merely loosening set screw and working them off axle. If, when using machine, the cutting plate clamps strike cross arm you will know the wrong cam is in position. This can only occur when sharpening Nos. 90, 99, 360 and 361 horse clipping machine plates.

NOTE—Shearing knives for No. 4 shear cannot be used with holders for Nos. 5 and 7 shears and vice versa.

No. 3S—For sheep shearing knives ..... each *$16.00*

No. 3H—For horse clipper knives ..... each *16.00*

No. 3Sh.—For both horse clipper and sheep shearing knives ..... each *$16.50*

WEIGHT BOXED 45 LBS.

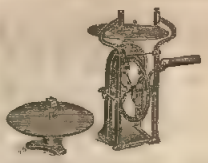
Extra holders for knives for Nos. 5 and 7 shears, per pair *$2.50*

Extra holders for knives for No. 4 shear, per pair *$0.50*

Extra holders for horse clipping knives, per pair *$2.50*

Emery paste grinder preparation, in 1 lb. package, per package *$0.40*

THE NEW NO. 2 STEWART AUTOMATIC GRINDER



The best hand operated sharpening device made for horse clipping or sheep shearing machine plates.

Grinding disc is covered with emery cloth on the same principle as the large power grinding machines used in large shearing plants. This emery cloth surface can be renewed any time at very little expense. Grinder is practically everlasting. It is the most practical grinder for dealers or others who have considerable grinding to do and who do not wish to purchase a power grinder.

In ordering give our names and numbers of plates to be sharpened so proper clamp rods will be supplied. No cams to change on this grinder. Each grinder shipped complete with emery cloth, liquid cement, clamp block and clamp rod. Diameter of disc 14½ in., height of grinder over all 2 ft., w't boxed for shipment 110 lbs.

No. 2—Automatic grinder, complete as described, each *$30.00*

COMBS AND CUTTERS FOR STEWART HAND POWER SHEEP SHEARING MACHINES

No. 276.

No. 277.

No. 276—Cutter or top plate ..... each *$0.20*
No. 277—Comb or bottom plate ..... each *.65*

The No. 277 Comb and No. 276 Cutter here shown are for the Stewart No. 5 and Stewart No. 7 Shears. They will not fit the Stewart No. 12 or No. 4 Shears.

No. 216

No. 217

No. 217—Cutter or top plate ..... each *$0.65*
No. 216—Comb or bottom plate ..... each *.65*

The No. 217 cutter and No. 216 comb are very similar to the top and bottom knives used on Stewart horse clipping machine heads **and fit only the Stewart No. 4 Shear and Special A Shear.**

Prices on Application

NO. 5 STEWART SHEAR AND PARTS

Shear Complete.

	Each.
No. 5—Stewart Shear, complete with one comb and one cutter, w't 3¼ lbs.	$7.00
No. 250—Shell	1.10
No. 251—Lid	.90
No. 252—Tension nut	.30
No. 253—Tension pin	.30
No. 254—Oil hole screw	.05
No. 255—Tension spring	.10
No. 16—Comb screw	.10
No. 257—Fork	1.75
No. 258—Tension spring screw	.05
No. 18—Fork pin	.05
No. 260—Joint screw	.05
No. 261—Fork tongue	.30
No. 262—Lid screw	.05
No. 263—Ferrule	.05
No. 264—Tension nut disc	.10
No. 265—Main spindle	.65
No. 266—Joint spindle	.30
No. 267—Cog	.30
No. 268—Crank roller	.25
No. 269—Leather handle grip	.40
No. 269A—Lace for handle grip	.10
No. 270—Joint guards, set	.30
No. 270A—Lace for joint guard	.05
No. 271—Tongue pin	.02
No. 272—Shell cup	.15
No. 273—Joint spindle pin	.02
No. 274—Fulcrum ball	.10
No. 275—Upper joint yoke	.90
No. 275A—Lower joint yoke	.90
No. 276—Cutter	.20
No. 277—Comb	.65

Sharpening all kinds of sheep shearing knives, per pair $0.25

NO. 7 STEWART BALL BEARING SHEARS AND PARTS

Complete.

No. 7—Complete with 1 set comb and cutter, w't 3¼ lbs., each $8.00

This is the shear supplied with all No. 9 ball bearing shearing machines.

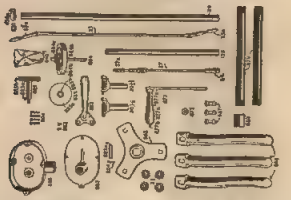
Will fit on any Stewart hand power sheep shearing machine no matter when purchased. All that is necessary is to mention the year in which the machine was bought. With this new shear there can be no question about the ease with which the work of sheep shearing is done.

PARTS FOR NO. 7 BALL BEARING SHEAR

	Each.
No. 250A—Frame	$1.10
No. 251—Lid	.90
No. 252—Tension nut	.30
No. 253—Tension pin	.30
No. 254—Oil hole screws	.05
No. 255—Tension spring	.10
No. 16—Comb screws	.10
No. 257—Fork	1.75
No. 258—Tension spring screw	.05
No. 18—Fork pin	.05
No. 261—Fork tongue	.30
No. 262—Lid screws	.05
No. 263A—Ferrule	.05
No. 264—Tension nut disc	.10
No. 268—Crank roller	.25
No. 269—Leather handle grip	.40
No. 269A—Lace for No. 269 grip	.10
No. DL—Joint guards, set	.25
No. 270A—Lace for DL guard	.05
No. 271—Tongue pin	.02
No. 272—Shell cup	.15
No. 273—Joint spindle pin	.02
No. 274—Fulcrum ball	.10
No. 276—Cutter	.20
No. 277—Comb	.65
No. 278—Joint spindle	.25
No. 279—Main spindle ball race	.30
No. 280—Main spindle	.65
No. 280A—Crank head	.30
No. 31-9—Cogs without threads	.50
No. 282—Upper joint yoke	1.10
No. 30-9X—Lower joint yoke	1.10
No. 284—Ball bearings for main spindle	.15
No. 285—Ball bearings for gears	.20

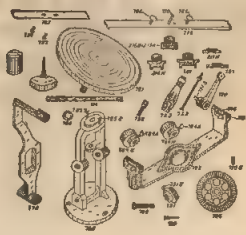
Prices on Application

PARTS FOR NO. 6 STEWART SHEEP SHEARING MACHINE



		Each.
No. 24	Long Tube	$1.80
No. 25	Long Spindle (complete)	2.25
No. 25a	End of Long Spindle	.30
No. 25b	Pin for 25a or 27a	.02
No. 26	Short Tube	.90
No. 27	Short Spindle (complete)	.90
No. 27a	Cog End of Short Spindle	.30
No. 30	Yoke, 1 1/16 in. diameter	.90
No. 30a	Yoke, ⅞ in. diameter	.90
No. 432	Cogs	.50
No. 34	Bayonet Ferrule	.30
No. 34a	Pin for No. 34 Ferrule	.02
No. 436	Tube Clamp (complete)	.30
No. 436a	Tube Clamp Screw	.05
No. 440	Leather Guard	.20
No. 862	Foot Bracket	.45
No. 864	Cotter Pin for Gear Stud	.02
No. 867	Bracket Studs	.05
No. 868	Feet	.45
No. 875	Crank Nut	.05
No. 877	Complete Crank	.75
No. 877a	Wood Handle for Crank	.20
No. 877b	Stud for Wood Handle	.15
No. 877c	Steel Crank Rod only	.50
No. 879	Uprights	.45
No. 880	Coupling for Uprights	.25
No. 882	Gear Case Cover	.85
No. 882a	Gear Stud	.10
No. 883	Complete Intermediate Gear and Pinion	2.15
No. 883a	Intermediate Gear only	1.75
No. 883b	Intermediate Pinion only	.65
No. 884	Complete Balance Wheel and Spindle	1.25
No. 884a	Balance Spindle only	.40
No. 884b	Balance Wheel only	.60
No. 884c	Balance Pinion only	.40
No. 885	Drive Gear and Spindle	1.70
No. 885a	Driving Spindle only	.65
No. 885b	Driving Gear only	1.10
No. 886	Gear Case	1.25
No. 424	Grip Handle Screws	.05
No. 893	Grip Handle	.30
No. 894	Gear Case Screws	.05
No. X24	Complete Jointed Shaft (less Sear)	5.75

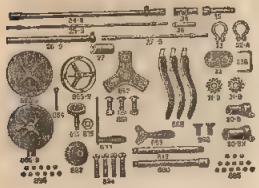
PARTS FOR NO. 3 STEWART AUTOMATIC CLIPPER



		Each.
No. 775	Oscillator	$1.50
No. 776	Cross Bar Roller	.25
No. 778	Cross Bar	1.00
No. 779	Roller Pin	.10
No. 780	Guide Plug	.25
No. 781	Grinding Disc	5.00
No. 782	Cross Arm	1.50
No. 783	Flat Tension Spring	.10
No. 784H	Cam used when sharpening horse clipper plates	.50
No. 784S	Cam used when sharpening sheep shearing plates	.50
No. 784A	Set Screw for Cams	.05
No. 785	Frame	4.00
No. 785S	Cross Arm Screws	.05
No. 786	Thumb Screw	.05
No. 787	Clamp for No. 90 or No. 360 Top Plate	.25
No. 788	Oscillator Bolt	.25
No. 789	Clamp for No. 99 or 361 Bottom Plate	.25
No. 790	Frame Washer	.02
No. 791	Pinion	.50
No. 791S	Set Screw for Pinion	.05
No. 792	Wood Handle	.20
No. 793	Handle Bolt	.15
No. 794	Crank only	.25
No. 794S	Set Screw for Crank	.05
No. 795	Driving Gear	2.00
No. 795S	Set Screw for Driving Gear	.05
No. 796	Axle	.50
No. 797	Bolts for Tension Spring	.10
No. 798	Guide Pin	.10
No. 799	Base Screw	.05
No. 216H	Clamp for No. 216 Comb	.25
No 217H	Clamp for No. 217 Cutter	.25
No. 276H	and 277H—Clamp for either No. 276 Cutter or No. 277 Comb	.25

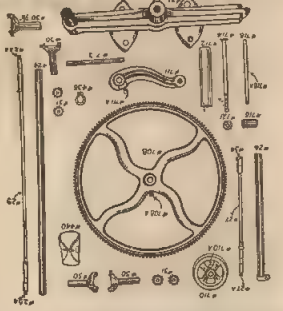
Customers are kindly asked to order repair parts carefully. If in doubt, better mail the part to be duplicated and if your name and address as well as ours is on the parcel there will be neither delay nor error in taking care of your wants. Always order repair parts by our numbers and names.

Prices on Application



PARTS FOR NO. 9 STEWART SHEARING MACHINES

		Each.
No.	24-9—Long tube	$1.80
No.	25-9—Long spindle, complete	2.25
No.	26-9—Short tube	.90
No.	27-9—Short spindle	.90
No.	30-9—Yoke	1.10
No.	30-9X—Yoke	1.10
No.	267—Cog threaded	.50
No.	31-9—Cog not threaded	.50
No.	32—Upper tube clamp	.30
No.	32A—Lower tube clamp	.30
No.	33—Leather guard	.20
No.	33B—Hook for leather guard	.02
No.	34—Bayonet ferrule	.30
No.	35—End of long or short spindle	.30
No.	36—End of short spindle pin	.02
No.	37—Back bushing	.10
No.	X44—Complete B. B. jointed shaft (less shear)	0.50
No.	862—Leg bracket	.45
No.	864—Cotter pin	.02
No.	865-9—Balance wheel and spindle	1.25
No.	867—Bracket stud and nut	.05
No.	868—Legs	.45
No.	875—Hexagon nut for crank	.05
No.	877—Crank, complete	.75
No.	879—Either portion of upright	.45
No.	880—Coupling for upright	.25
No.	882-9—Gear case cover	.85
No.	883 Intermediate gear and pinion	2.15
No.	885—Drive gear and spindle	1.70
No.	886-9—Gear case	1.25
No.	424—Grip handle screws	.05
No.	893—Grip handle	.30
No.	894—Gear case screws	.05
No.	285—Set of ball bearings for gears	.20
No.	284—Set of ball bearings for spindles	.15



PARTS FOR STEWART NEW MODEL SHEEP AND GOAT SHEARING MACHINES

		Each
No.	21—Frame	$2.50
No.	24—Long tube	1.80
No.	25—Long spindle (complete)	2.25
No.	25A—End of long spindle	.30
No.	25B—Pin for Nos. 25A and 27A spindle ends	.02
No.	26—Short tube	.90
No.	27—Short spindle (complete)	.90
No.	27A—Cog end of short spindle	.30
No.	30—Yoke 1 1/16 in. diameter for shaft	.90
No.	30A—Yoke ⅞ in. diam. for attaching shaft to machine	.80
No.	432—Cog	.50
No.	34—Bayonet ferrule	.30
No.	34A—Pin for No. 34 ferrule	.02
No.	436—Tube clamps	.30
No.	440—Leather guard	.20
No.	708—Drive wheel	3.00
No.	708A—Set screw for drive wheel	.05
No.	710—Balance wheel	1.35
No.	710A—Set screw for balance wheel	.05
No.	711—Crank only	.50
No.	711A—Set screw for crank	.05
No.	712—Wood handle for crank	.20
No.	713—Axle for No. 708 drive wheel	.65
No.	714—Bolt for wood handle of crank	.25
No.	716—Spur pinion	.60
No.	718—Pinion shaft	.50
No.	718A—Lock pin	.05
No.	721—Hexagon nut for handle bolt	.05
No.	X24—Complete jointed shaft (less shear)	5.75

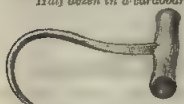
HAY HOOKS

Cast steel hook, polished, square body, tempered, round tapering point; round shank passes through handle and riveted; polished hardwood handle.

Per Dozen

No. 6—Size hook 3½ in.; lgth. handle 5½ ins.; lgth. over all 6½ ins. $9 45

Half dozen in a cardboard box; weight per dozen 6 lbs.

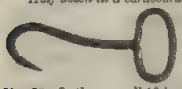


Cast steel hook, forged finish; round tapering point, tempered; flat shank extends through handle and riveted with washer; polished hardwood handle.

Per Dozen

No. 114—Dia. hook 3½ in.; lgth. handle 5¼ ins.; lgth. over all 9 ins. $10 95

Half dozen in a cardboard box; weight per dozen 6½ lbs.



Made of ¾ in. round steel, oil finish; tapering point; loop handle.

Per Dozen

No. 20—Lgth. over all 13 ins.; size handle 4x2½ ins. $6 60

Packed loose; weight per dozen 8 lbs.

COTTON HOOKS

—BLUE GRASS—

Texas Pattern.

Extra quality steel hook, polished, hardened point; oval shank passes through handle and riveted; square body; round tapering point; polished hardwood handle.

Nos.	7	10
Length over all, inches	6	8
Size hook, inches	⅛	⅛
Length of handle, inches	6½	6½
Weight per dozen, lbs	6½	6
Per Dozen	$9 75	10 80

One dozen in a cardboard box.

Cast steel hook, polished, tempered point; shank passes through handle and riveted; round tapering point, black hardwood handle.

New Orleans Pattern, Curved Hook.

Per Dozen

No. 320—Diameter hook ⅜ inch; length of handle 5½ inches; length over all 7 inches; weight per dozen 5 lbs. $8 25

Red River Pattern, Straight Hook.

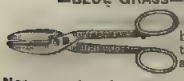
Per Dozen

No. 321—Diameter hook ⅜ inch; length of handle 5½ inches; length over all 7 inches; weight per dozen 6 lbs. $9 75

One dozen in a cardboard box.

TINNERS' SNIPS

—BLUE GRASS—Combination Pattern.



Perfect tempered straight blade, but jaws are ground and shaped so they will cut curves and irregular shapes as well as straight work.

Nos.	199	198
Cut, inches	3	3½
Length over all, inches	12½	13½
Weight per pair, lbs.	2	2¾
Per Pair	$6 60	7 50

One pair in a carton.

TINNERS' SNIPS

—BLUE GRASS—

Made of forged steel, with crucible tool steel laid blades; full polished; gun metal finished handles; every snip carefully tested.

Nos.	Cut, in.	Lgth. over all, inches	Weight per pair, lbs.	Per Pair
412	2	8	1½	$3 30
411	2¼	9	1¾	4 05
410	2½	11½	2⅛	5 25
409	3	12¼	2¼	5 70
408	3½	13½	2⅝	6 30
407	4	14½	3¼	8 25
406½	4½	16½	3¾	8 70

One pair in a carton.

—PINE KNOT—

Made entirely of drop forged steel, with crucible steel laid blades polished; black japanned handles.

Nos.	10	9	8	7	6½
Cut, inches	2½	3	3½	4	4½
Length over all, inches	10	11	12½	14	16
Weight per pair, lbs.	1	2	2¼	2¾	3
Per Pair	$4 95	5 40	6 30	7 95	9 45

Two pairs in a carton.

—PINE KNOT—Household.

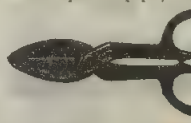
Solid drop forged carbon steel, black japanned; polished steel cutting edges. Used for cutting wire cloth, poultry netting No. 16 wire, stove pipe and for general household and merchants' use.

Per Dozen Pairs

No. 30—Cut 2¾ inches; length over all 10 inches; weight per pair 1 lb $27 75

One pair in a paper; half dozen in a cardboard box.

PINE KNOT—Pocket.

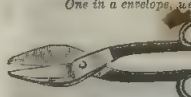


Drop forged steel, carefully tempered; highly polished blades; black japanned finished handles. Per Dozen

No. 72 Cut 2 ins.; length over all 7 inches $21 75

One in a envelope, weight per dozen 6¼ lbs.

NEW STAR



Cast iron, ground blades, polished; black japanned handles.

Nos.	2	2½	3
Cut, inches	2	2½	3
Length over all, inches	9¾	11	12
Weight per pair, lbs.	1	1¾	2¼
Per Dozen Pairs	$15 00	17 25	19 50

Half dozen pairs in a cardboard box.

P. S. & W., Circular.

Drop forged of refined iron, with cast steel laid blades, properly hardened; black enameled handles.

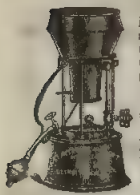
Nos.	C9	C8	C7
Cut, inches	3	3½	4
Length over all, in.	12	12½	14½
Weight per pair, lbs.	1½	2	2½
Per Pair	$9 45	10 20	12 75

One pair in a paper.

FIRE POTS

CLAYTON AND LAMBERT

Burns Gasoline Only.



Heavy galvanized iron tank, galvanized cast iron top plate and bottom ring, soldered to body; brass filler plug, removable sheet steel hood, steel coil burner, and stand pipe; brass fitting, cast iron grip on needle point valve, which are fitted with stuffing boxes; top grate cast iron fastened by three ¼ in. steel rods, screwed to top plate of tank; rubber bulb and hose fastened to brass fitting with check valve; wire bail with wood handle.

Each

No. 10—Capacity 1 gallon; ht. over all 17 in.; diameter of base 8½ ins. *$15 00* 20 25

One in a carton; weight each 9¾ lbs.

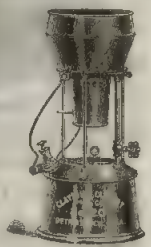
METAL POTS FOR NO. 10 FIRE POTS

Each

No. 10-MP—Metal pot for No. 10, extra *$1 20* 1 65

CLAYTON AND LAMBERT

Burns Gasoline Only.



Fitted with automatic brass air pump.

The tank is of heavy galvanized iron, fitted with galvanized cast iron top plate and bottom ring. All small or light castings are malleable iron or brass. The coil is made of extra heavy pipe and the burner of steel. The needle point valves are fitted with stuffing boxes.

Each

No. 20—Capacity 1 gal.; ht. over all 17 in.; diam. of base 8½ ins. *$16 60* 22 50

One in a carton; weight each 9¾ lbs.

METAL POTS FOR No. 20 FIRE POTS

Each

No. 20-MP—Metal pot for No. 20, extra *$1 20* 1 65

BLOW TORCHES

CLAYTON AND LAMBERT

Burns Gasoline or Kerosene.

Polished drawn brass seamless top and body, heavy brass soldered concaved bottom; cast iron drip cup and pipe. These torches are symmetrical, well balanced, strong and servicable, using very little fuel, the burner will produce an ideal blue flame of great heat efficiency.

Especially designed for heavy work in the wind or zero weather, in repair shops and garages for brazing, tempering and straightening of automobile frames and axels. Equipped with automatic brass pump; the burner is made of generator metal, having upper cleaner and lower shut off needle and hardwood handle. Height 15 inches; diameter 5¾ inches.

Each

No. 206—Capacity two quarts *$52 00* 43 20

One in a cardboard box; weight each 10 lbs.

BLOW TORCHES

CLAYTON AND LAMBERT

Burns Gasoline or Kerosene.

Especially designed for general mechanics use, will work perfectly in the wind or zero weather. Equipped with an automatic brass pump; the burner is made from generator metal, having upper cleaner and lower shut-off needle. Height 11 ins.; diameter 5¾ inches.

Each

No. 208—Capacity one qt. *$17 00* 22 95

One in a cardboard box; weight each 5 lbs.

CLAYTON AND LAMBERT

Burns Gasoline Only.

Capacity one quart; diameter 5¾ inches. Equipped with automatic brass pump.

Each

No. 31—Without soldering iron attachment; height over all 9½ ins.; weight each, 5½ lbs. *$15 20* 20 52

No. 32—With soldering attachment height over all 11 ins.; weight each 6 lbs. *16 00* 21 60

One in a cardboard box.

CLAYTON AND LAMBERT

Burns Gasoline Only.

Capacity one pint; diameter 4¾ inches. Equipped with automatic brass pump.

Each

No. 37—Without soldering iron attachment; height over all 8 inches weight each 3¾ lbs. *$13 60* 19 44

No. 38—With soldering iron attachment height over all 8¾ inches; weight each 4½ lbs. *14 40* 19 44

One in a cardboard box.

CLAYTON AND LAMBERT

Burns Gasoline Only.

Capacity one pint; diameter 3½ inches Equipped with combination brass pump and handle.

Each

No. 18 Without soldering iron attachment; height over all 7½ ins.; weight each 3½ lbs. *$12 80* 17 28

No. 19 With soldering iron attachment; height 8½ inches; weight each 3½ lbs *13 60* 18 36

One in a cardboard box.

CLAYTON AND LAMBERT

Burns Gasoline Only.

The tank is made of seamless drawn brass equipped with a double spring brass pump. Concaved bottom to serve as a funnel when filling

Bronze metal burner; tapered burner tube fitted with solid hook and support for holding soldering coppers.

Each

No. 130—Capacity one quart; diameter 4½ ins.; height 11 ½ ins. *$12 00* 16 20

One in a cardboard box; weight each 4¼ lbs.

GASOLINE BLOW TORCHES

TURNER, DOUBLE JET

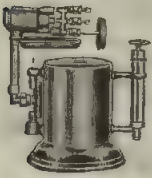
For Gasoline Only.

Polished heavy brass tank; concaved bottom, with brass filler plug; double jet bronze metal burners, produces a much higher degree of heat than other hydro carbon burners. The adjustment is simple and easily regulated. Pump is in the handle of the torch and air valve is located at base of pump barrel. Reccommended for all ordinary work for which a common blow torch is used and especially for light brazing, annealing light material, brazing on rubber tires and paint burning.

Each

No. 92—Capacity 1 quart; diameter 4 inches; height over all 9½ inches $23 07

One in a carton; weight each 5 lbs.



For Gasline Only.

Burner is mounted on a swivel so that it can be turned on either side of tank.

Each

No. 95—Capacity 1 quart; diameter 4 inches; height over all 11¼ inches $24 45

One in a carton; weight each 5¼ lbs.

THE "IMP"

All brass, nickel plated. Will heat or solder anything; starts with a match; has no pump or valve; is entirely automatic and burns two hours on one filling. For hand or bench work. Produces a perfect Bunsen flame of over 2,000 degrees Fahrenheit

Per Dozen

No. 372—Height over all 5 in.; diameter 2 in. $54 00

One in a carton, one dozen in a wood box; weight per dozen 8¼ lbs.

RIVET SETS AND HEADERS

—BLUE GRASS— Tinners.

Extra quality crucible steel, gun metal finish, polished face oil tempered fully warranted.

Nos.	BG1	BG2	BG3
For iron rivets, lbs.	8	6	5,4
For copper rivets, Nos.	6	7	8
Length, inches	4¾	4¼	4⅛
Weight per doz, lbs	7	6¾	6
Each	$1 95	1 95	1 59

Nos.	BG4	BG5	BG6
For iron rivets, lbs.	3,2½	2,1¾	1¼
For copper rivets, Nos	9	10,11	12
Length, inches	4	4	4
Weight per dozen, lbs	5	3¾	3¾
Each	$1 59	1 26	1 32

Half dozen in a cardboard box.

RIVET SETS AND HEADERS

Tinners'.

Drop forged steel, black finish, polished face, oil tempered.

Nos.	0	1	2	3	4
Size hole, inches	5/32	¼	7/32	9/32	11/32
For iron rivets, lbs.	12,10	8	6	5,4	3,2½
Length, inches	5	4¾	4¾	4½	4
Weight each, lbs	¾	⅝	½	⅜	5/16
Each	$1 95	1 65	1 65	1 35	1 35

Nos.	5	6	7	8
Size hole, inches	13/32	15/32	½	17/32
For iron rivets, lbs.	2,1¾	1½	1½	12,10 oz.
Length, inches	4	4	3¾	3¾
Weight each, lbs	5/16	¼	¼	⅜
Each	$0 99	99	87	87

Half dozen in a cardboard box.

TINNERS' TOOLS

HOLLOW PUNCHES

Japanned, forged steel with polished tempered face.

Nos.	4-H	6-H	8-H	10-H	12-H	14-H
Hole, inches	¼	3/8	½	5/8	¾	⅞
Length, in.	4½	4½	4½	5	5	5
Lbs. each	⅛	¼	⅜	½	⅝	¾
Each	$2 40	2 40	2 40	3 00	3 66	4 29

Nos.	16-H	18-H	20-H	24-H	28-H	32-H
Hole, inches	1	1⅛	1¼	1½	1⅝	1¾
Length, in.	6	5½	5½	5½	6	6
Lbs., each	⅞	1	1¼	1⅝	1¾	2
Each	$4 95	5 85	6 00	7 20	7 80	8 25

Packed loose.

GROOVING TOOLS

Japanned, forged steel, with polished tempered face.

Nos.	00	0	1	2	3	4	5
Size, inches	½	7/16	5/8	9/16	3/4	7/32	1/10
Length, in.	5½	5½	5½	5½	5	5	5
Lbs., each	1⅝	1¾	1¾	1⅓	1	⅞	¾
	$0 75	75	63	63	50	50	37
Each	3 30	3 30	3 15	3 15	2 85	2 85	2 85

Packed loose.

TINNERS' STAKES

P. S. & W., Bottom.

Wrought iron, polished steel face. Each

No. 951—Width face, 1¾ ins.; height over all 13½ inches $13 50

Packed loose; weight each 3 lbs.

P. S. & W., Bevel Edged Square.

Wrought iron, polished steel face.

Each

No. 932—Size face 2½x4½ inches, height over all 12 inches $36 00

Packed loose; weight each 14 lbs.

TINNERS' STAKES

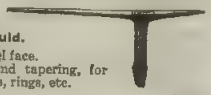
P. S. & W. CONDUCTOR

Wrought iron, polished steel face. Both arms round, for locking seams on conductor pipe.

Each

No. 971—Size large end 16x2¼ ins.; small end 11⁄16x 1⅜ ins.; height over all 10½ inches..... $33 00

Packed loose; weight each 29 lbs.



P. S. & W. Candle Mould.

Wrought iron, polished steel face. With both arms round and tapering, for forming small cylinders, tubes, rings, etc.

Each

No. 956—Length large end 18⅛ ins.; length small end 9⅛ ins.; height over all 10 ins $30 00

Packed loose; weight each 7½ lbs.

BENCH PLATES

P. S. & W. Revolving.

Cast iron, polished face. This plate can be readily inserted in any bench of ordinary thickness, and revolves.

Each

No. 983—Size 8½x8½ in.; height over all 7½ in.; wt. each 19 lbs $24 00

One in a box.

STOVE PIPE MANDRELS

For Seaming Or Riveting Stove Pipe.

P. & B., Hollow. Cast iron, polished, smooth and true, with heavy clamp for attaching to bench.

Each

No. 35½—**P. & B. Holdfast.** Length of shoulder 10 inches; width 4 inches, length over all 35½ inches $12 00

Packed loose; weight each 36 lbs.

TINNERS' TOOLS

P. S. & W. ROOFING TONGS Handy.

Japanned malleable iron with steel clamps; length over all 10 inches; a useful tool for general use; for inside and outside work.

Each

No. 765—Width of clamp 6½ in.; with ⅜ inch gauge..... $15 00

Packed loose; weight each 3 lbs.

P. S. & W. ADJUSTABLE ROOFING TONGS Stow's Pattern.

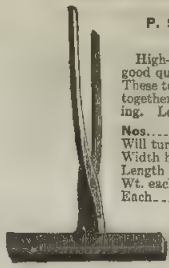
Handles are forged from high-grade steel; blades are accurately milled and are made of special steel with planed and polished bending edges. Will turn five different widths of locks—⅜, ¾, 1, 1¼, and 1½ inch.

Each

No. 773—Length handles 21 in.; width blades 2 in.; length blades 18⅛ in.....$24 00

Packed loose; weight each 9¼ lbs.

TINNERS' STAKES



P. S. & W. REGULAR ROOFING TONGS

High-grade special tough steel handles; good quality steel blades, accurately milled. These tongs are used on the roof for drawing together the two layers of tin before cleating. Length handles 21 inches.

Nos.	771	771¼	771½
Will turn lock, in	1	1¼	1½
Width blades, in.	1½	1¾	2
Length blades, in.	18½	18½	18½
Wt. each, lbs	8	9	9½
Each	$21 00	21 00	21 00

Packed loose.

P. S. & W. GUTTER TONGS

Handles are forged from a high grade special tough steel; blades are accurately milled and are made of a good steel with planed and polished bending edges.

Each

No. 777—Depth of jaws 14 in.; length handles 24½ in.; width blades 1¾ in.; length blades 12½ in.....$25 50

Packed loose; weight each 10 lbs.

P. S. & W. HAND ROOFING DOUBLE SEAMERS

Cast iron. Used for laying standing seam roofing by hand following the roofing tongs.

Nos.	744	745
Inches	¾x1	1x1¼
Match up with roofing tongs, in.	1x1¼	1¼x1½
Wt. each, lbs	8	9½
Per set of 2	$13 50	15 75

Packed loose.

P. S. & W. DOUBLE ROOFING SEAMERS Burritts Patent.

Will do the work more evenly than by any other process, and leave the formed lock of uniform height. Will work well over uneven roof boarding and will double seam hips and ridges with perfect ease. Fitted for I. C. tin. Set consists of two pairs.

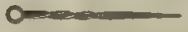
Per Set

No. 742—Common gauge. Follows 1 and 1¼ inch tongs finishing a lock ⅞ inch high.....$66 75

No. 742½—Wide gauge. Follows 1¾ and 1½ inch tongs finishing a lock 1 inch high..... 66 75

Packed loose; weight per set 40 lbs.

P. S. & W. SCRATCH AWLS



Solid steel, twisted; with ring. Natural finish.

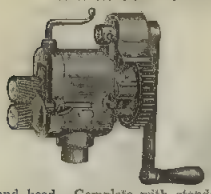
Per Dozen

No. 01—Length over all 8½ inches..... $6 75

One dozen in a cardboard box; weight per dozen 5 lbs.

TINNERS' MACHINES

P. S. & W. CORNICE MAKERS' CRIMPERS



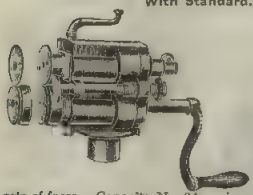
Rolls are made of a high-grade steel, scientifically hardened and the gauge is of extra wide proportions made from tool steel properly hardened.

For producing a neat, uniform crimp and bead or crimp without bead. Adjustments are provided for regulating the relative depth of crimp and bead. Complete with standard. Capacity No. 22 ga. iron and lighter. Each

No. 592—Diam. crimping rolls 1 1/16 in.; width crimping rolls 1 1/4 in.; ratio gearing 3:1; distance between shaft centers 1 3/4 ins $105 00

One in a wood box; weight each 63 lbs.

P. S. & W. TURNING MACHINE
With Standard.



Intended for turning or curving the tops of vessels to receive wire. The wire is first formed into shapefor vessel and then inserted in groove made by machine. The gearing being enclosed are protected from dirt, thus working more freely and requiring less attention.

Complete with two sets of faces. Capacity No. 24 ga. iron and lighter.

No.	546
Length over all, in	13 1/2
Height over all from bench, in	18
Diam. of rolls, in.	3
Smallest diam. of wire that can be used, in.	1/8
Largest diam. of wire that can be used, in	5/16
Weight each, lbs.	28
Each	$117 00

One in a wood box.

NIAGARA SUPERIOR WIRING MACHINES

For running wire in all kinds of square and circular work, to turn down edge over wire in drip pans, cans, washboilers, etc. Enclosed gearing is protected from dirt; work more freely and require less attention. Each

No. 38-W With standard; dia. of upper roll 3 1/16 ins.; dia. of lower roll 2 7/8 ins.; lgth. over all 15 ins.; width 6 ins.; ht. over all 29 5/8 ins.; lgth. handle 4 inches $88 35

One in a wood box, weight each 33 lbs.

NIAGARA ADJUSTABLE GUTTER BEADERS

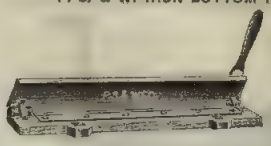
These machines possess the advantage of being adjustable for rods from 3/8 to 3/4 inch; after forming the bead the jaws can be opened quickly to remove the work and rod. Each

No. 30-AB—Lgth. 30 in.; dia. of rod 1/4 in.; lgth. over all 33 ins.; width 6 in.; ht. 5 in.; lgth. handle 9 ins $66 00

One in a wood box; weight each 65 lbs.

TINNERS' MACHINES

P. S. & W. IRON BOTTOM FOLDERS



Rigid in construction and very accurate. Capacity 22 ga. iron and lighter. Will form locks 5/16 to 5/8 inch. Each

No. 28 Lgth. over all 30 ins $72 00

One in a wood box; weight each 105 lbs.

P. S. & W. IMPROVED SHEET IRON FOLDERS

Fitted with machined steel bending blades, and gauges are well constructed for general work. The gauge is adjustable and moves upon a line parallel with the edge of the folding blade. Capacity 22 ga. iron and lighter.

Each

No. 10A Lgth. over all 31 ins.; will form locks 1/4 to 1/2 in $90 00

One in a wood box; weight each 85 lbs.

P. S. & W. ADJUSTABLE PIPE FOLDERS

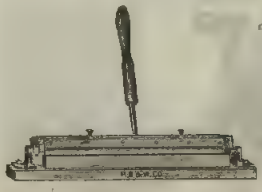
Will produce a lock of uniform width the entire length, variations in the hardness of the material have no influence whatever; has adjustable gauge for locks from 5/16 to 3/4 inch, and on sheets longer than the machine, edges can be bent enough to be readily hammered down; for No. 24 iron and lighter.

Each

No. 11—For iron 30 ins. wide or less; lgth. over all 37 ins.; width 8 ins.; ht. 9 3/4 ins.; lgth. handle 24 ins $135 00

One in a wood box; weight each 90 lbs.

P. S. & W. SHEET IRON FOLDERS
Wood Bottom.



For ordinary work and will form locks on flat sheets from 1/16 to 1 1/2 inch. Well constructed, fitted with milled bar, and gauges are adjustable and accurate.

Capacity No. 22 Gauge Iron and lighter.

Each

No. 39—For folding iron 30 ins. wide or less; lgth. over all 42 1/2 ins.; ht. less handle 5 1/4 ins.; lgth. of handle 22 1/2 ins $88 50

One in a wood box, weight each 75 lbs.

TINNERS' MACHINES

P. S. & W. IMPROVED ADJUSTABLE BAR FOLDER

For folding or edging sheets or strips of sheet iron, soft steel, brass and copper. The movement of the gauge is instantaneous and operated by means of a hand wheel in front and center of machine. Set screw in front and at the left of machine holds the gauge firmly in place and secures a fold or lock of uniform width the entire length. All parts are interchangeable.

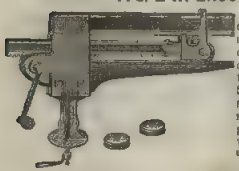
These machines will form square joints or angles and turn narrow or wide locks of uniform width the entire length. Will turn sharp edges, also round edges for inserting wire. Locks can be formed as narrow as 1/8 inch and as wide as 1 inch.

Capacity No. 22 gauge iron and lighter.

Nos.	62
Length, inches	28
Width, inches	10 1/4
Height, inches	6
Length of lever, inches	9 1/4
Greatest length with fold, in	20 1/2
Weight each, lbs.	100
Each	$210 00

Crated

P. S. & W. GROOVERS



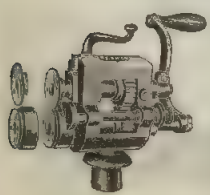
Seams on this machine can be formed on the inside or outside of the cylinder and can be used on all vessels not less than 2 inches in diameter. Steel folding plate and supporting bar; lever screw bench clamp. This groover is supplied with three groover dolls, 1/8, 5/32, and 7/32 inch wide.

Each

No. 502—For iron 20 ins. wide; lgth. over all 33 ins., width 11 ins.; ht. over all 18 ins.; lgth. handle 8 ins. $105 00

One in a wood box; weight each 100 lbs.

P. S. & W. COLUMBIAN TURNING MACHINE
With Standard.



Turning machines are intended for turning or curving the tops of vessels to receive wire. The wire is first formed into shape of vessel and then inserted in groove made by the turning machine. The operation is completed by the use of a wiring machine, closing metal completely around wire, adding finish and durability to the vessel. Two sets of faces furnished with each machine.

Capacity No. 22 Ga. Iron and lighter.

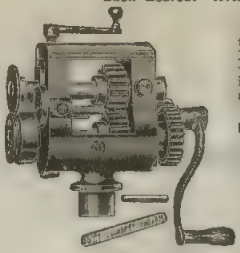
Each

No. 541—Diameter face 2 1/16 inches; length over all 12 ins.; height from bench 18 ins.; length handle 7 inches. $81 00

One in a wood box; weight each 25 lbs.

TINNERS' MACHINES

P. S. & W. TURNING MACHINE
Back Geared. With Standard.



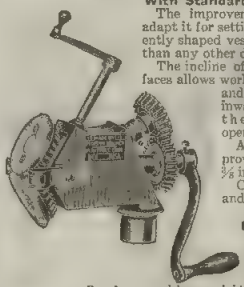
This machine is intended for heavy work. It is adapted for 3/16 inch wire and No. 20 gauge iron. It has cut gears and is back-geared 2 to 1.

Each

No. 547—Length over all 18 1/4 in.; height over all from bench 22 in.; length of handle 10 1/4 ins. $201 00

One in a wood box; wt. each 110 lbs.

P. S. & W. SETTING DOWN MACHINES
With Standard.



The improvements on this machine adapt it for setting down seams of differently shaped vessels to better advantage than any other design.

The incline of both upper and lower faces allows work to be held up or down, and seams to be started inward while setting down, thereby facilitating the operation of double-seaming.

An adjustable gauge is provided for seams up to 3/4 inch.

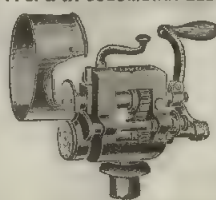
Capacity 24 Ga. Iron and lighter.

Each

No. 561—Lgth. over all 16 1/4 ins.; ht. over all from bench 19 in.; lgth. of handle 10 ins. $105 00

One in a wood box; weight each 31 lbs.

P. S. & W. COLUMBIAN ELBOW EDGING MACHINES
With Standard.



For edging elbows or pipe. Diameter of faces 2 1/16 inches.

Capacity No. 24 Ga. Iron and lighter.

Each

No. 551—Lgth. over all 12 in.; height over all from bench 18 in.; length of handle 7 ins. $76 50

One in a wood box; weight each 25 lbs.

METAL WORKERS' PUNCHES

P. S. & W IMPROVED LEVER PUNCH

It is made to remove light weight with strength. The gauges, both back and side, are easily adjusted.

Three dies and three punches accompany each machine. The sizes of the punches are 1/8, 1/16 and 1/4 inch and can be used on material as thick as No. 20 gauge.

Each

No. 780—Length 17 in.; height 6 1/4 in. $31 50

One in a wood box; weight each 9 1/2 lbs.

HOUSEHOLD LUBRICANT

For lawn mowers, sewing machines, bicycles, etc.; will not gum or corrode; put up in tins.

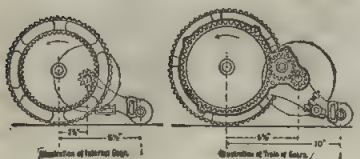
Per Dozen

No. 4—4 ounce cans..... $3 75

Three dozen in a wood case; wt. per dozen 6 lbs.

LAWN MOWERS

"TRAIN OF GEARS"



No. 47 No. 1890

Used On Blue Grass Mowers No. 1890 and No. 47.

Advantage of a Train of Gears over Internal Gear.

Train geared mowers run more easily and steadily owing to their great length of wheel base. Driving wheels may drop in a rut, but before the knives reach it the wheels are out again and the grass is cut smoothly, because the wheels and roller span the rut.

There is an additional advantage of better distribution of wear and tear and increased power and speed. The action is on the forward side of pinion and pull is down toward bed-knife, so when strain or cutting occurs the revolving cutter is always firm against bed-knife and cuts smooth.

Ball-Bearing Device used on Blue Grass Mowers.

Has 7/32 inch best quality steel balls. All of the ball-bearing cones used on these lawn mowers are made of the best quality of steel, thoroughly case hardened and the ball race ground to a perfect cylinder. These cones are tested before adjusted to the revolving cutter shaft.

All perfectly ground, dust proof, and made with as great a degree of perfection as the finest bicycle.

All blades used on these mowers are of the highest grade of crucible steel tempered in oil. The revolving cutters on these mowers are made a perfect cylinder by being ground on special grinding machines.

The success of the Blue Grass Mowers has been largely due to the patented ball-bearing adjustment, the stationary knife and the mode of adjusting the stationary knife bar; together with manner of fitting stationary knife bar.

LAWN MOWERS

—BLUE GRASS—

Stationary Knife Bar On Blue Grass Mowers.

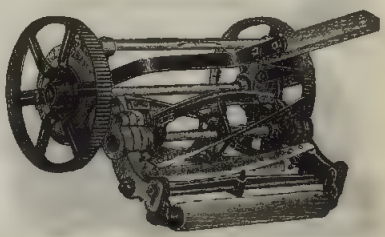
On all Blue Grass Mowers the stationary knife bar is squared in a most particular manner. The ends of the knife bar being faced and the bottom of the bar planed where stationary blade is attached. In the end of each stationary knife bar is inserted a steel cone, which is pivoted in the side plates and held firmly in place by heavy machine bolts, making the machine absolutely rigid. We do not know of any other lawn mower having as much machine work or expense on the stationary knife bar, as is used on these machines.

Stationary Blade On Blue Grass Mowers.

The stationary blade used on all Blue Grass Mowers is made from Disston saw steel and has a certain springy character that allows the revolving cutter to have a perfect joint at all times with the stationary blade; without frequent adjustment of the stationary blade; as is the case with most lawn mowers, using the thick heavy stationary blade which is very stiff and will not allow for any slight difference in the wearing qualities of the revolving blades.

The ratchets used on the Blue Grass Mowers are noiseless and never in operation when the mower is trundled from place to place or pulled backward. All mowers of similar character have noisy ratchets with working pins that are in operation at all times, shortening their life.

—BLUE GRASS—



Ball-Bearing. High Grass. Triple Gear.

Drive Wheels 10½ Inches Diameter, Cutter 6 Inches Diameter.

Triple gear open frame, long wheel base, five high grade crucible cast steel cutter blades, dust proof ball-bearing journals, knife bar mounted on milled steel cones, has a train of gears and drives from both ends; both revolving cutter and driving wheels operate on ball-bearings, so constructed that they never require adjusting. Silent in operation. Has patented center adjustment for adjusting the stationary blade at center to the revolving blades, independent of the ends.

Finished in red, silver and gold; varnished hardwood handle.

Nos.	1890-14	1890-16	1890-18	1890-20
Width cut, inches	14	16	18	20
Weight each boxed, lbs.	68	65	68	72
Each	$41 25	42 00	44 25	46 05

One in a wood box; handle loose.

LAWN MOWERS

—BLUE GRASS—

Ball-Bearing. High Grass. Double Gear.

Drive Wheels 11 Inches Diameter, Cutter 6 Inches Diameter.

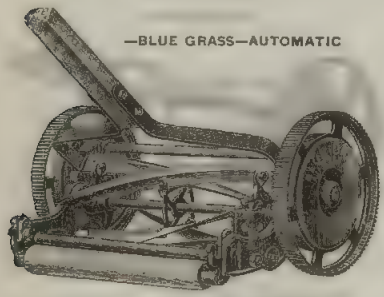
Extra long wheel base causing mower to run smoothly and cut easier over rough ground. Five heavy revolving cutter blades of extra heavy crucible cast steel. Stationary blade made of Disston crucible cast saw steel tempered in oil. Stationary knife bar is pivoted on steel cones. Highest quality dust proof cone and steel balls. Patented ball retainer. Center adjustment of stationary knife bar. By loosing jamb nut and running down screw, stationary blade can be raised at center to revolving cutter independent of the ends. Ball-bearing parts. Ball bearing cones and cups guaranteed never to wear out or require replacing.

Furnished in red and gold, varnished hardwood handle.

Nos.	4714	4716	4718	4720
Width cut, inches	14	16	18	20
Weight each, boxed, lbs	55	58	61	63
Each	$34 05	36 00	38 25	40 05

One in a wood box, handle loose.

—BLUE GRASS—AUTOMATIC



Ball-Bearing, High Grass, Drive Wheels 10 inches Diameter, Revolving Cutter 6 Inches Diameter.

Simplicity, durability and self-sharpening, no screws or bolts to adjust or rust, without complications, the only adjustment necessary is made with finger and thumb.

Extra long wheel base; four revolving cutter blades made of crucible steel, equipped with ball-bearings, that will never wear or require adjusting. Silent in operation, adjustable throughout; stationary knife bar pivoted on steel cones. No pressed cups used, cups and cones made of solid cone steel, ground perfect, best quality steel balls.

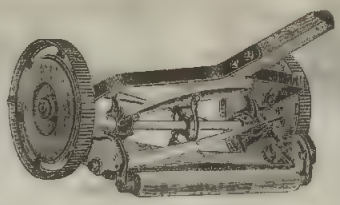
Finished in gold and carmine, varnished hardwood handle

Nos.	25-14	25-16	25-18	25-20
Width, cut, inches	14	16	18	20
Weight each boxed, lbs	55	58	61	63
Each	$34 05	36 00	38 25	40 05

One in a wood box, handle loose.

LAWN MOWERS

—BLUE GRASS—



Ball-Bearing.

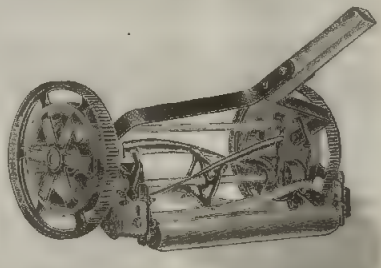
High wheel 10 inches, cutter 6 inches diameter, four revolving crucible cast steel cutter blades, bed knife of saw steel, cups, balls and cones ground perfect and are dust proof, ball bearing, silent in operation.

Finished in blue, silver and gold; varnished hardwood handle. Same ratchet as on ball-bearing high grass lawn mowers.

Nos.	1900-14	1900-16	1900-18	1900-20
Width cut, inches	14	16	18	20
Weight each boxed, lbs	48	50	53	58
Each	$30 00	31 20	32 55	34 80

One in a wood box, handle loose.

—BLUE GRASS—



Ball-Bearing, High Grass, Drive Wheels 10 Inches Diameter, Revolving Cutter 6 Inches Diameter.

Crucible spring steel ball-pivoted bed-knife; all shafting full ⅝ inch diameter; cones and cups will never wear or require adjustment and are made of solid cone steel; ground perfect; dust proof; adjustable throughout; silent in operation; best quality steel balls; patented ball retainer; steel wheel bearings; hardwood roller.

Finished in red, gold and silver; varnished hardwood handle.

Nos.	35-14	35-16	35-18
Width cut, inches	14	16	18
Weight each boxed, lbs	48	50	53
Each	$28 50	30 00	31 50

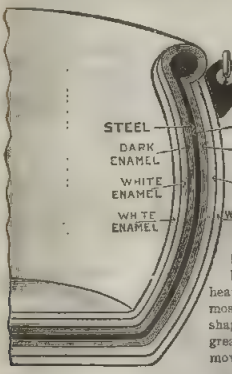
One in a wood box, handle loose.

—LEYDEN—ENAMELED WARE

Made from the best quality sheet steel triple coated with enamel. The outside is neatly marbleized a light blue and white, the inside is a pure white porcelain enamel, acid proof and free from poisonous substances. Rim, ears and handles are enameled a pure black.

This ware is made specially for us. Each piece is guaranteed thoroughly coated. This is a strictly high grade line of enamel ware at a reasonable price and one on which you can build up a large and satisfactory business.

Each piece is carefully selected, wrapped and labeled.



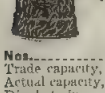
Note How Leyden Ware Is Made

Three separate and distinct coats of enamel protect the steel body in **Leyden Ware.** The body (STEEL), is much heavier than that used in most enameled ware. After shaping the body, all dirt, grease, etc. is entirely removed.

The first coat of enamel (DARK ENAMEL) is fused into the steel so thoroughly that it practically becomes part of the body, because the **liquid** enamel enters the pores of the steel and takes a most tenacious hold.

The second coat (WHITE ENAMEL), gives **Leyden Ware** its remarkable durability and quick selling value. Most ware lacks this protection.

The third coat (WHITE & BLUE ENAMEL), is a beautifully marbleized white and blue effect, with a hard porcelain finish very easy to keep clean.



COFFEE POTS

Seamed bottom. Enameled cover, hinged; riveted lip and round handle; spun knob on lid.

Nos.	51L	151L	251L
Trade capacity, quarts	1	1½	2
Actual capacity, quarts	1⅜	1¾	2¼
Dia. bot., in.	4¾	5	5¾
Depth, in.	6¼	6¾	7
Doz. in case	2	2	1
Wt. case, lbs.	50	60	40
Per Dozen	$18 75	21 30	24 00

Nos.	351L	451L	551L
Trade capacity, quarts	3	4	5
Actual capacity, quarts	2¾	3½	4⅛
Dia. bot., in.	6½	7	7⅜
Depth, in.	7¼	7¾	8⅛
Doz. in case	1	1	1
Wt. case, lbs	45	50	60
Per Dozen	$26 25	28 50	32 25

—LEYDEN—ENAMELED WARE

COFFEE POTS

Seamless bottom. Enameled cover, hinge riveted lid and round handle. Spun knob on cover.

Nos.	2051L	2151L
Trade capacity, quarts	1	1½
Actual capacity, quarts	1¾	1⅝
Dia. bot., in.	4¾	5
Depth, in.	6¼	6¾
Doz. in case	2	2
Wt. case, lbs	50	60
Per Dozen	$28 50	30 00

Nos.	2251L	2351L	2451L
Trade capacity, quarts	2	3	4
Actual capacity, quarts	2¼	2¾	3½
Dia. bot., in.	5¾	6¼	7
Depth, in.	7	7¼	7¾
Doz. in case	1	1	1
Wt. case, lbs.	40	45	50
Per Dozen	$33 00	37 05	40 20

COFFEE BIGGINS

Seamed bottom. Tinned cover, with black enameled wood knob; riveted spout and round handle; percolator is tinned and contains a series of strainers arranged on a spindle.

Nos.	0L	00L
Trade capacity, quarts	½	1
Actual capacity, quarts	½	1⅛
Diameter, bottom inches	3½	4⅜
Depth, in	4	6½
Dozen in case	3	2
Weight case, lbs	60	60
Per Dozen	$23 70	27 00

Nos.	010L	030L	040L
Trade capacity, quarts	1	3	4
Actual capacity, quarts	1¾	2¾	3½
Diameter, inches	5¼	6½	7
Depth, inches	6¾	7⅞	8¼
Doz. in case	2	1	1
Weight case, lbs	70	55	65
Per Dozen	$30 00	37 80	42 60

COFFEE BOILERS

Seamed bottom. Enameled cover with black enameled wood knob; riveted lip, handles and ears; wire bail; flat bottom.

Nos.	60L	70L	80L	90L
Trade capacity, quarts	5	6	8½	11
Actual capacity, quarts	4¾	6	8	10½
Diameter, inches	7⅞	8¾	9½	11
Depth, inches	8⅞	9	9½	10½
Dozen in case	1	1	1	½
Weight case, lbs	60	75	90	100
Per Dozen	$36 00	37 80	47 25	60 00

—LEYDEN—ENAMELED WARE

TEA POTS

Seamed bottom. Enameled cover, hinged; riveted spout and round handle; spun knob on cover.

Nos.	01½L	101L	201L
Trade capacity, quarts	1	1½	2
Actual capacity, quarts	1⅜	1¾	2¼
Diameter bottom, inches	4¾	5	5½
Depth, inches	6¼	6¾	7
Dozen in case	2	2	1
Weight case, lbs	50	60	40
Per Dozen	$18 75	22 80	25 20

Nos.	301L	401L	501L
Trade capacity, quarts	3	4	5
Actual capacity, quarts	2¾	3½	4½
Diameter bottom, inches	6¼	7	7⅝
Depth, inches	7¼	7¾	8½
Dozen in case	1	1	1
Weight case, lbs	45	50	60
Per Dozen	$27 45	30 00	33 00

TEA POTS

Seamless bottom. Enameled cover, hinged; riveted spout and round handle; spun knob on cover.

Nos.	2001½L	2101L
Trade capacity, quarts	1	1½
Actual capacity, quarts	1¼	1½
Diameter bottom, inches	4¾	5
Depth, inches	6¼	6¾
Dozen in case	2	2
Weight case, lbs	60	60
Per Dozen	$31 50	31 50

Nos.	2201L	2301L	2401L
Trade capacity, quarts	2	3	4
Actual capacity, quarts	2¼	2¾	3½
Diameter bottom, inches	5¾	6	7¼
Depth, inches	7	7¼	7¾
Dozen in case	1	1	1
Weight case, lbs	40	45	50
Per Dozen	$34 50	37 80	41 55

TEA KETTLES

Seamed bottom. Enameled cover; riveted spout and ears; wire bail with black enameled wood grip; spun knob on cover.

Nos.	60L	70L	80L	90L
Trade capacity, quarts	4	5	6	8
Actual capacity, quarts	4	5¼	6¼	7¾
Diameter bottom, inches	9½	10¼	10½	11
Depth, inches	5½	5¾	6¾	7½
Dozen in case	1	1	1	1
Weight case, lbs	70	60	72	100
Per Dozen	$31 50	36 00	41 55	50 40

—LEYDEN—ENAMELED WARE

TEA KETTLES

Seamless bottom. Enameled cover; riveted spout and ears; wire bail with black enameled wood grip; spun knob on cover.

Nos.	160L	170L	180L	190L
Trade capacity, quarts	4	5	7	8
Actual capacity, quarts	4¼	5¾	7½	8
Diameter bottom, inches	9½	10¼	10½	11
Depth, inches	5½	5¾	6¼	7½
Dozen in case	1	1	1	1
Weight case, lbs	70	80	90	100
Per Dozen	$36 00	40 05	47 25	56 70

TEA KETTLE INSETS

Seamless; riveted handles; enameled cover with spun knob, flat handle with eye for hanging; will fit tea kettles Nos. 70L, 80L, 90L, 170L, 180L and 190L.

Per Dozen

No. 20L—Capacity 2 quarts; diameter 5⅛ in.; depth 5⅜ inches $14 25

Six dozen in a case, wt. per doz. 20 lbs.

RICE BOILERS

Retinned Cover.

Seamless; riveted handles with eye for hanging; black enameled wood knob.

Nos.	52L	53L	54L	56L
Trade capacity, boiler, quarts	1	2	3	4
Actual capacity, quarts	1½	2¾	4	5
Diameter boiler, inches	5	5¾	6	6½
Depth boiler, inches	3¾	4	4½	5½
Actual capacity inset, quarts	1¼	2	3¼	4
Diameter inset, inches	4¾	5½	5¾	6½
Depth inset, inches	4	4¼	4¾	5¾
Dozen in case	2	1	1	1
Weight case, lbs	80	90	55	75
Per Dozen	$31 50	36 00	39 60	57 00

RICE BOILERS

Enameled Covers.

Seamless; riveted handles with eye for hanging. Enameled cover with spun knob.

Nos.	521L	531L	541L	561L
Trade capacity, quarts	1	2	3	4
Actual capacity, quarts	1½	2¾	4	5
Diameter boiler, inches	5	5¾	6	6½
Depth boiler, inches	3¾	4	4½	5½
Actual capacity inset, quarts	1¼	2	3¼	4
Diameter inset, inches	4¾	5½	5¾	6½
Depth inset, inches	4	4¼	4¾	5¾
Dozen in case	2	1	1	1
Weight case, lbs	80	90	55	75
Per Dozen	$33 00	37 80	47 25	61 50

—LEYDEN—ENAMELED WARE

LIPPED SAUCE PANS

Seamless; riveted flat handle; wire top rim, lipped.

Nos.	10L	12L	14L	16L	18L	20L
Trade capacity, qts.	¾	1	1½	2	2½	3
Actual capacity, qts.	⅝	¾	1⅛	1⅝	2	2¾
Diameter, inches	6	6¾	6¾	7⅝	8	8⅝
Depth, inches	2½	2¾	2¾	3 5/16	3½	3⅝
Dozen in case	6	6	6	6	4	4
Weight case, lbs.	70	80	90	100	70	80
Per Dozen	$8 40	9 00	9 45	10 50	12 00	13 50

Nos.	22L	24L	26L	28L	30L
Trade capacity, qts.	4	5	6	8	10
Actual capacity, qts.	3⅞	4	6	7½	8¾
Diameter, inches	9¼	9¾	11 1/16	12	12¼
Depth, inches	4	4½	5 1/16	5⅝	5⅞
Dozen in case	4	4	3	3	2
Weight case, lbs.	100	130	100	120	115
Per Dozen	$15 75	17 25	18 75	22 80	25 95

CONVEX SAUCE PANS

Retinned Cover.

Seamless; riveted round handle; retinned cover with spun knob; wired top rim.

Nos.	02L	03L	04L	06L	08L	010L
Trade capacity, quarts	2	3	4	6	8	10
Actual capacity, quarts	1⅝	3	4	6	8	9½
Diameter, inches	6¼	7¾	8¼	9¼	10¼	11¼
Depth, inches	4	4¼	4¾	5¾	5¾	6⅜
Dozen in case	2	2	1	1	1	1
Weight case, lbs.	35	40	45	60	68	90
Per Dozen	$15 75	18 00	21 45	25 95	32 25	39 30

CONVEX SAUCE PANS

Enameled Cover.

Seamless, riveted round handle, enameled covers with spun knob.

Nos.	021L	031L	041L	061L	081L	0101L
Trade capacity, quarts	2	3	4	6	8	10
Actual capacity, quarts	1⅞	3	4	6	8	9½
Diameter, inches	6¼	7¾	8¼	9¼	10¼	11¼
Depth, inches	4	4¼	4¾	5⅜	5¾	6⅜
Dozen in case	2	2	1	1	1	1
Weight per case, lbs	60	70	80	60	75	90
Per Dozen	$18 75	21 45	25 95	32 25	39 60	47 25

PRINCESS SAUCE PANS

Seamless; riveted flat handle; retinned cover with wire ring; wired top rim.

Per Dozen

No. 60L—Trade capacity, 6 quarts; actual capacity, 5 quarts; diameter 9¼ inches; depth 5⅛ inches $22 80

Three dozen in a case; weight per dozen 83 lbs.

—LEYDEN—ENAMELED WARE

STOCK POTS

Seamless. Riveted handles; retinned cover with black enameled wood knob.

Nos.	80L	100L	120L	160L	200L	240L	320L
Trade cap., qts.	8	10	12	16	20	24	32
Actual cap., qts.	7¼	10	11½	16	19½	24	32
Diameter, ins.	9⅞	10	10½	12	12⅝	13⅜	13½
Depth, inches	6⅜	8⅛	8⅝	9⅜	10	10½	13
Dozen in case	1	1	1	1	1	1	½
Wt., case, lbs.	60	90	95	125	130	140	60
Per Dozen	$35 55	42 60	49 50	64 50	78 75	92 25	102 75

CONVEX SAUCE POTS

Seamless. Riveted handles; wire top rim; retinned cover with wire ring.

Nos.	250L	490L	850L	1250L
Trade capacity, quarts	2	4	8	12
Actual capacity, quarts	2⅛	4	8	12
Diameter, inches	6¼	7¾	10¼	11¾
Depth, inches	4½	5½	5⅞	6¾
Dozen in case	2	1	1	1
Weight case, lbs	60	85	65	100
Per Dozen	$15 45	21 60	32 25	47 25

CONVEX KETTLES

Retinned Cover.

Seamless. Riveted ears; retinned cover with black enameled wood knob. Steel wire bail; wired top rim.

Nos.	02L	03L	04L
Trade capacity, quarts	2	3	4
Actual capacity, quarts	1⅞	3	4
Diameter, inches	6	7	7½
Depth, inches	3	3⅛	4⅜
Dozen in a case	2	2	1
Weight case, lbs	50	70	50
Per Dozen	$15 45	18 00	21 60

Nos.	06L	08L	010L	012L
Trade capacity, quarts	6	8	10	12
Actual capacity, quarts	6	8	9½	12
Diameter, inches	8½	9¼	10¼	11¼
Depth, inches	5	5¾	6⅜	7¼
Dozen in case	1	1	1	1
Weight case, lbs	60	66	75	100
Per Dozen	$26 55	32 25	39 30	47 25

—LEYDEN—ENAMELED WARE

CONVEX KETTLES

Enameled Cover.

Seamless, riveted ears, enameled cover with spun knob; steel wire bail.

Nos.	021L	031L	041L
Trade capacity, quarts	2	3	4
Actual capacity, quarts	1⅞	3	4
Diameter, ins	6	7	7½
Depth, ins	3	3⅝	4⅛
Dozen in case	2	2	1
Weight case, lbs	40	70	45
Per Dozen	$18 75	21 45	26 40

Nos.	061L	081L	0101L	0121L
Trade capacity, quarts	6	8	10	12
Actual capacity, quarts	6	8	9½	12
Diameter, ins	8½	9¼	10⅛	11¼
Depth, ins	5	5¾	6⅜	7¼
Dozen in case	1	1	1	1
Weight case, lbs	60	75	90	100
Per Dozen	$32 25	39 60	47 25	53 55

PRINCESS KETTLES

Seamless. Riveted ears and handle. Retinned cover with black enameled wood knob. Steel wire bail with black enameled wood grip. Wired top rim.

Nos.	60L	80L	100L
Trade capacity, quarts	6	8	10
Actual capacity, quarts	5	6½	8
Diameter, inches	9¼	10¼	11¾
Depth, inches	5½	6⅛	6¾
Dozen in case	2	2	2
Weight case, lbs	175	160	170
Per Dozen	$22 80	27 75	39 60

PRESERVING KETTLES

Seamless. Riveted ears and side handle. Retinned steel wire bail with black enameled wood grip; wired top rim; lipped.

Nos.	20L	22L	24L	26L
Trade capacity, quarts	3	4	5	6
Actual capacity, quarts	2¼	3¼	4	6
Diameter, inches	8½	9¼	9⅞	11⅞
Depth, inches	3⅝	4	4⅜	5¼
Dozen in case	4	4	4	2
Weight case, lbs	80	90	105	85
Per Dozen	$13 50	15 45	17 25	18 75

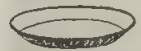
Nos.	28L	30L	32L	36L	40L
Trade capacity, quarts	8	10	12	14	18
Actual capacity, quarts	7½	8¼	9½	12¼	17
Diameter, inches	12	12¼	13	14½	15½
Depth, inches	5¼	5½	5⅞	6½	7⅝
Dozen in case	2	2	2	1	1
Weight case, lbs	95	100	125	75	85
Per Dozen	$22 80	26 40	31 50	37 80	55 40

—LEYDEN—ENAMELED WARE

DEEP STEW PANS

Riveted handle with eye for hanging; flange top rim.

No.	20L
Trade capacity, quarts	8
Actual capacity, quarts	2½
Diameter bottom, inches	9¼
Depth, inches	3¼
Dozen in a case	8
Weight case, lbs	65
Per Dozen	$13 20



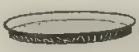
PIE PLATES

Nos.	28L	29L	30L
Inches	⅞x8	⅞x9	⅞x10
Dozen in a case	12	12	12
Weight of case, lbs	85	95	105
Per Dozen	$6 60	7 20	8 40

DEEP PIE PLATES

Nos.	39L	40L
Inches	1¼x9	1¼x10
Dozen in case	12	12
Weight case, lbs	95	105
Per Dozen	$7 65	9 00

DEEP JELLY CAKE PANS



Per Dozen

No. 69L—Size 1x9 inches; wt. per dozen 10 lbs $7 65

Six dozen in a case.

MOUNTAIN CAKE PANS

Per Dozen

No. 79L—Size 1¼x9 inches; wt. per dozen 10 lbs $9 00

Six dozen in a case.

STOVE PANS

One piece; shaped handles. Oblong pattern.

Nos.	350L	400L	425L
Length, inches	13	14¾	16½
Width, inches	10	9¼	10½
Depth, inches	2⅛	2¼	2⅜
Dozen in case	3	2	2
Weight case, lbs	50	60	70
Per Dozen	$21 30	23 55	28 50

PUDDING PANS

Seamless. Deep. Rolled top rim.

Nos.	14L	16L	17L	18L	19L
Trade capacity, quarts	½	1	1½	2	3
Actual capacity, quarts	¾	1¼	1½	2	2½
Diameter, inches	6½	7¼	7⅞	8½	9¼
Depth, inches	2¼	2⅝	3	3	3¼
Dozen in case	12	12	6	6	6
Weight case, lbs	45	50	60	70	85
Per Dozen	$6 60	7 65	8 40	9 45	10 80

Nos.	20L	21L	22L	23L	24L
Trade capacity, quarts	4	5	6	8	10
Actual capacity, quarts	3½	4¼	5	6¾	9½
Diameter, inches	10¼	11	11⅞	12½	13½
Depth, inches	3⅝	3¼	3¾	4	4
Dozen in case	6	6	6	3	3
Weight case, lbs	95	100	120	90	95
Per Dozen	$12 00	13 95	15 45	18 00	20 55

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—LEYDEN—ENAMELED WARE

MILK PANS

Seamless. Rolled rim.

Nos.	31L	31½L	32L	33L
Trade capacity, quarts	1	1½	2	3
Actual capacity, quarts	¾	1	1½	2
Diameter, inches	6¾	7¼	8⅛	9⅛
Depth, inches	1¾	1⅞	1⅞	2⅝
Dozen in case	12	6	6	6
Weight case, lbs.	50	55	60	70
Per Dozen	$6 60	7 65	8 40	9 45

Nos.	34L	35L	36L	38L	310L
Trade capacity, quarts	4	5	6	8	10
Actual capacity, quarts	3½	4	5	6	7
Diameter, inches	10⅜	11½	12¼	13⅜	14⅝
Depth, inches	2¾	2⅝	2¾	2¾	3
Dozen in case	6	6	3	3	3
Weight case, lbs.	90	105	120	80	90
Per Dozen	$11 85	13 95	15 45	18 00	20 10

DISH PANS

Seamless. Riveted tube handles; rolled rim.

Nos.	510L	514L	517L	521L
Trade capacity, quarts	10	14	17	21
Actual capacity, quarts	9¾	12	16	21
Diameter, inches	14¾	16	17⅞	19¼
Depth, inches	4¾	5¼	5⅝	6⅞
Dozen in case	2	1	1	1
Weight case, lbs.	55	60	80	85
Per Dozen	$28 50	33 00	37 80	45 00

ROLLED RIM DISH

Seamless; without handles; with extra wide rolled rim or flange, giving extra strength to pan. Hole for hanging.

Nos.	14RL	17RL
Trade capacity, quarts	14	17
Actual capacity, quarts	12	16
Diameter, inches	17	18½
Depth, inches	6	6
Dozen in case	1	1
Weight case, lbs.	36	40
Per Dozen	$30 75	35 55

RINSING PANS

Seamless. Riveted tube handles. Flange top rim.

Nos.	410L	414L	417L
Trade capacity, quarts	10	14	17
Actual capacity, quarts	8	10	15
Diameter, inches	14¾	16¾	18¼
Depth, inches	4½	5	5⅝
Dozen in case	2	1	1
Weight case, lbs.	30	60	73
Per Dozen	$26 55	31 95	35 55

—LEYDEN—ENAMELED WARE

COLANDERS

Seamless bowl, perforated; riveted foot and handles; flange top rim.

Nos.	104L	205L	306L
Diameter, inches	9⅝	10⅛	10¾
Depth, inches	3½	4⅛	4⅝
Dozen in case	2	2	1
Weight case, lbs.	50	60	40
Per Dozen	$14 25	16 50	20 55

MIXING BOWLS

Seamless. Deep. Rolled rim.

Nos.	12L	16L	20L	24L
Trade capacity, quarts	1	2	3	5
Actual capacity, quarts	⅞	1⅞	2¼	4
Diameter, inches	6⅛	7½	8½	10
Depth, inches	2⅝	3	4	4¼
Dozen in a case	12	12	6	6
Weight case, lbs.	100	125	100	125
Per Dozen	$7 20	9 00	11 40	15 00

STRAIGHT CUPS

Seamless; straight; riveted handle. Rolled rim.

Nos.	6L	8L	120L	140L
Pints	½	1	2	4
Diam., ins.	3½	3⅞	5 1/16	6 1/16
Depth, inches	2⅝	2 1/16	3 1/16	4 1/16
Dozen in case	12	6	4	3
Weight case, lbs.	80	60	60	60
Per Dozen	$6 60	7 65	11 85	14 25

DRINKING CUPS

Seamless. Deep. Riveted handles; rolled rim.

Nos.	8L	9L	10L
Pints	½	¾	1
Diameter, inches	3⅝	3⅞	4⅛
Depth, inches	2	2¼	2 1/16
Dozen in case	12	12	12
Weight case, lbs.	35	40	45
Per Dozen	$4 80	5 25	6 00

CUPS AND SAUCERS

Seamless; deep; riveted handle. Rolled rim on cup and saucer.

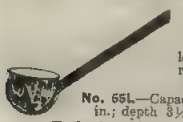
Nos.	81L	91L	110L
Pints	½	¾	1
Diameter, inches	3⅝	3⅞	4⅛
Depth, inches	2	2¼	2 1/16
Diameter saucer, inches	6⅛	6⅛	6¼
Dozen in case	6	6	6
Weight case, lbs.	40	45	50
Per Dozen	$9 45	10 20	10 95

—LEYDEN—ENAMELED WARE

WINDSOR DIPPERS

Round handle, riveted; seamless cup, rolled rim.

Nos.	100L	110L	112L	114L
Capacity, pints	¾	1	2	3
Diameter, inches	4¼	5	5¾	6¾
Depth, inches	2⅞	3	3	3½
Dozen in case	6	6	6	6
Weight case, pounds	70	75	80	95
Per Dozen	$8 40	9 45	10 80	12 00



COCOA-SHAPED DIPPERS

Round handle, riveted. Seamless cup, cocoa shaped; smooth rolled rim.

Per Dozen

No. 65L—Capacity 1 pint, diameter 3⅞ in.; depth 3½ inches $14 25

Twelve dozen in a case; weight per dozen 12 lbs.

CUP DIPPERS

Flat handle, riveted; with eye for hanging. Seamless cup, rolled rim.

Nos.	8L	10L
Diameter, inches	3⅝	4½
Depth, inches	2	2½
Dozen in case	12	12
Weight case, pounds	40	50
Per Dozen	$7 20	8 25

PERFORATED DEEP LADLES

Flat handle, riveted; with eye for hanging; perforated bowl.

Nos.	91L	101L
Diameter of bowl, in	3½	4
Dozen in case	12	12
Wt. case, pounds	60	65
Per Dozen	$6 60	7 20

SOLID LADLES

Flat handle, riveted; with hook for hanging; seamless bowl.

No.	90L
Diam. of bowl, in	3½
Dozen in a case	12
Weight case, pounds	60
Per Dozen	$6 60

SOUP LADLES

Flat handle, riveted; with eye for hanging; seamless bowl.

Per Dozen

No. 36L—Diameter bowl 3⅞ in.; depth 1⅝ inches $6 00

One gross in a case; weight per dozen 6 lbs.

BASTING SPOONS

One piece; eye in handle for hanging.

Nos.	12L	14L	16L
Length, inches	12	14	16
Weight dozen, pounds	6	7	7½
Per Dozen	$5 40	6 00	6 60

One gross in a case.

—LEYDEN—ENAMELED WARE

SKIMMERS

Flat handle, riveted; with eye for hanging; perforated body.

Per Dozen

No. 10L Diameter 4½ inches $6 00

Six dozen in a case; weight per dozen 6 lbs.

MILK KETTLES

Seamless. Riveted ears, steel wire bail; tinned cover with flat handle.

Nos.	51L	52L	53L	54L	56L
Trade capacity, quarts	1	2	3	4	6
Actual capacity, quarts	1⅛	2⅛	3⅛	4⅝	6
Diameter, inches	4	5	5¾	6	7
Depth, inches	6	7¾	8½	9½	11¼
Dozen in a case	3	2	2	1	1
Weight case, lbs	75	75	85	70	65
Per Dozen	$16 50	21 30	23 55	28 50	31 50

ACME DINNER BUCKETS

Seamed side and bottom; riveted ears; steel wire bail with black enameled wood grip; inset tray and cover seamless. Rolled rims; securely locked when bail is in upright position for carrying. Consists of four pieces, bucket, inset, tray and cover which may be inverted and used as an additional tray.

No.	140L
Capacity, quarts	4
Diameter, inches	6¾
Depth bucket, inches	8
Depth inset, inches	4¼
Dozen in a case	1
Weight case, lbs	85
Per Dozen	$45 00

OVAL DINNER BUCKETS

Seamless; oval pattern; riveted ears; steel wire bail with black enameled wood grip; enameled cover with spun knob; rolled rim.

No.	40L
Capacity, quarts	3
Length, inches	9
Width, inches	6¾
Depth, inches	4½
Depth inset, inches	3½
Dozen in case	1
Weight case, lbs	90
Per Dozen	$50 40

COVERED BUCKETS

Seamless; enameled cover with hollow enameled steel knob; riveted ears; bright steel wire bail with black enameled wood grip.

Nos.	451L	851L	851L
Trade capacity, quarts	4	8	8
Actual capacity, quarts	4	5¼	7½
Diameter, inches	7⅞	8½	9½
Depth, inches	5¾	6	6⅝
Dozen in a case	2	1	1
Weight per case, lbs	80	60	70
Per Dozen	$20 55	28 50	40 95

—LEYDEN—ENAMELED WARE

COVERED BUCKETS

Seamless; riveted ears; steel wire bail with black enameled wood grip; retinned cover with black enameled knob; rolled rim.

Nos.	150L	250L	350L
Trade capacity, quarts	1	2	3
Actual capacity, quarts	1	2½	3
Diam., in	5¼	6½	8¼
Depth, in	3½	4⅝	5⅝
Doz. in case	3	2	2
Wt. case, lbs	60	60	70
Per Dozen	$14 25	16 50	18 75

Nos.	450L	650L	850L
Trade capacity, quarts	4	6	8
Actual capacity, quarts	4	5¾	7¾
Diameter, inches	7¾	8¾	9
Depth, inches	6	6¾	8
Dozen in case	2	1	1
Weight case, lbs	85	60	75
Per Dozen	$22 80	28 50	35 55

WATER PAILS

Seamless; riveted ears; steel wire bail with black enameled wood grip; wired top rim.

Nos.	108L	110L	112L	114L
Trade capacity, quarts	8	10	12	14
Actual capacity, quarts	6½	9¼	12	14
Diam., inches	9½	10¾	11½	12⅝
Depth, inches	7	8¼	9	10⅛
Dozen in case	3	2	2	2
Wt. case, lbs	100	95	120	125
Per Dozen	$28 50	33 00	37 80	45 00

WATER PITCHERS

Seamless; riveted handles; plain rim.

Nos.	0L	1L	2L	3L	4L
Trade capacity, quarts	1	1½	2	3	4
Actual capacity, quarts	¾	1¾	2	2¾	3½
Diam. bottom inches	2½	3¼	4⅛	4¾	5¼
Diam. top, inches	3	4	4¼	4½	5
Depth, inches	4¾	6	6¼	7¼	7¼
Dozen in case	2	2	2	2	1
Weight case, pounds	45	50	60	60	65
Per Dozen	$20 25	22 80	26 40	28 50	33 00

PITCHERS AND BOWLS

Seamless; riveted handle on pitcher. Plain rims.

No.	100L
Capacity pitcher, quarts	3½
Dia. bottom, in	5¼
Depth, in	7¼
Diameter bowl at top, in	14⅝
Dozen sets in case	1
Weight case, pounds	80
Per Dozen	$53 55

—LEYDEN—ENAMELED WARE

WASH BASINS

Seamless; flange top rim; with eye for hanging.

Nos.	26L	28L	30L	32L	34L	36L
Diameter, ins.	10½	11½	12¼	12⅝	13½	14⅝
Depth, inches	2⅞	2⅞	3⅛	3⅛	3⅛	3½
Doz. in case	6	6	6	3	3	3
Wt. case, lbs.	90	100	115	125	85	100
Per Dozen	$10 20	12 00	13 80	15 45	17 70	19 95

ROLLED RIM FOOT TUBS

Oval.

Seamless; without handles; with extra wide rolled rim, giving extra strength to tub. Hole for hanging.

No.	20L
Trade capacity, quarts	18
Actual capacity, quarts	16
Length, inches	20
Width, inches	16½
Depth, inches	5
Dozen in case	1
Weight case, pounds	45
Per Dozen	$50 40

WALL SOAP DISHES

One piece with back; rolled rim; with holes in back for hanging; length 6 inches; width 4 inches; depth 1½ inches.

	Per Dozen
No. 60L—With drainer	$8 40
No. 060L—Without drainer	6 00

Six dozen in a case; weight per dozen 8 lbs.

CHAMBERS

Seamless; deep flaring pattern; riveted handle; smooth rolled rims; without cover.

No.	0L
Diameter, inches	6¾
Depth, inches	3½
Dozen in case	3
Weight case, pounds	45
Per Dozen	$15 45

Nos.	1L	1½L	2L
Diameter, inches	8 1/16	9 1/16	10¼
Depth, inches	4 5/16	4⅞	5
Dozen in case	2	1	1
Weight case, pounds	70	50	60
Per Dozen	$18 00	21 45	22 95

CHAMBER COVERS

Spun knob.

Nos.	00L	01L	01½L	02L
Diameter, inches	7	8 1/16	9 5/16	10¼
Dozen in case	3	6	6	6
Weight case, lbs	25	60	75	90
Per Dozen	$7 20	8 40	9 45	10 80

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SKI-BLU ENAMELED WARE

LIPPED SAUCE PANS

Seamless; black enameled flat handle, electric welded to the body.

Nos.	16SB	20SB	22SB	24SB
Quarts	2	3	4	5
Diameter, in	8⅛	9¼	10⅛	10⅝
Depth, in	3⅛	3½	4	4⅛
Dozen in case	6	6	6	4
Weight case, lbs	75	102	120	90
Per Dozen	$8 70	11 25	12 75	14 25

Packed loose, wrapped

CONVEX SAUCE PANS

Seamless; retinned cover, black enameled round hollow handle, electric welded to the body.

Nos.	02SB	03SB	04SB	06SB	08SB
Quarts	2	3	4	6	8
Diameter, in	6¼	7½	8	9¼	10
Depth, in	3⅛	4⅛	5	5⅛	5¾
Dozen in case	6	3	3	2	2
Weight case, lbs	128	70	90	85	95
Per Dozen	$12 75	14 25	17 25	21 30	25 95

Packed loose, wrapped.

CONVEX KETTLES

Seamless; retinned cover; bright steel wire bail, with black enameled wood grip; electric welded ears.

Nos.	02SB	03SB	04SB	06SB	08SB	010SB	012SB
Quarts	2	3	4	6	8	10	12
Diameter, inches	6¼	7½	8	9¼	10	10⅝	11⅛
Depth, inches	3⅛	4⅛	5	5⅛	5¾	6¼	7
Dozen in case	6	6	3	2	2	1	1
Weight case, lbs	120	125	82	68	95	60	64
Per Dozen	$12 75	14 25	17 25	21 30	25 95	31 50	37 95

Packed loose, wrapped.

LIPPED PRESERVING KETTLES

Seamless; bright steel wire bail, with black enameled wood handle; electric welded ears; lipped.

Nos.	240SB	260SB	280SB	300SB	320SB	360SB
Quarts	5	6	8	10	12	14
Diameter, in	10⅝	11⅛	11⅞	12⅛	12¾	14⅛
Depth, in	4⅛	4¼	5	5½	5¾	6¼
Dozen in case	4	4	3	3	3	2
Weight case, lbs	95	125	95	102	107	115
Per Dozen	$14 25	15 30	18 00	21 30	24 90	30 75

Packed loose, wrapped.

SHALLOW PIE PLATES

Nos.	9SB	10SB
Diameter, in	9	10
Depth, in	⅞	⅞
Dozen in case	12	12
Weight case, lbs	68	7
Per Dozen	$5 85	6 75

Packed loose, wrapped.

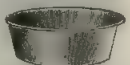
SKI-BLU ENAMELED WARE

DEEP PIE PLATES

No.	19SB
Diameter, ins	9
Depth, ins	1¼
Dozen in case	12
Weight case, lbs	68
Per Dozen	$6 30

Packed loose, wrapped.

DEEP PUDDING PANS



Nos.	16SB	17SB	18SB	19SB	20SB	21SB	22SB
Quarts	1	1½	2	3	4	5	6
Diameter, inches	7⅛	8⅛	8½	9	9¾	10¾	11½
Depth, inches	2¼	2½	2¾	3	3⅛	3⅜	3⅝
Dozen in case	12	12	12	12	9	6	6
Weight case, lbs	73	98	100	115	98	77	87
Per Dozen	$6 30	6 75	7 65	8 70	9 45	11 25	12 75

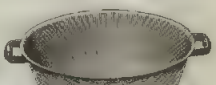
Packed loose, wrapped.

MILK PANS

Nos.	1SB	2SB	3SB	4SB	6SB	8SB	10SB
Quarts	1	2	3	4	6	8	10
Dia., in	6⅜	8¼	9	10⅞	12½	13¾	14
Depth, in	1⅝	2	2⅛	2¼	2⅝	2 11/16	3
Doz. in case	12	12	12	6	6	6	6
Wt. case, lbs	64	92	100	80	90	106	115
Per Dozen	$5 25	6 75	7 65	9 45	12 75	14 25	16 20

Packed loose, wrapped.

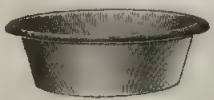
DEEP DISH PANS



Seamless; extra heavy; black enameled hollow steel handles, electric welded to the body.

Nos.	14SB	17SB	21SB
Quarts	14	17	21
Diameter, in	16⅞	17⅛	18⅝
Depth, in	5¼	5½	6
Dozen in case	1	1	1
Weight case, lbs	51	60	73
Per Dozen	$27 00	30 75	36 30

Packed loose, wrapped.



ROLL RIM DISH PANS

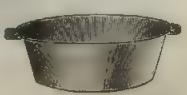
Seamless; without handles with extra wide roll rim or flange, giving extra strength to pan.

Per Dozen

No. 17SBR—Capacity 17 qts.; diameter 17½ inches; depth 5½ inches $28 50

Two dozen in a case; weight per case 105 lbs.

RINSING PANS



Seamless; black enameled steel handles, electric welded to the body.

Per Dozen

No. 14SB—Capacity 14 qts.; diameter 15½ inches; depth 5 inches $24 75

One dozen in a case; weight per case 51 lbs.

—LEYDEN—ENAMELED WARE

CHAMBER PAILS

Seamless; riveted ears; steel wire bail with black enameled wood grip; enameled cover with spun knob; smooth rolled edges.

No.	30L
Capacity, quarts	14
Diameter, inches	10½
Depth, inches	10⅜
Dozen in case	½
Weight case, lbs	55
Per Dozen	$66 00

COMBINETS

Seamless; riveted ears; steel wire bail with black enameled wood grip; enameled lift and smooth rolled edges.

No.	20L
Capacity, quarts	10
Diameter, inches	9¾
Depth, inches	9½
Dozen in case	½
Weight case, lbs	55
Per Dozen	$51 75

SPITTOONS

Seamless; two pieces; sunk top with opening; rolled rim

No.	12L	13L
Diameter, inches	9¾	11
Depth, inches	4¾	5¼
Dozen in a case	1	1
Weight of case, lbs	90	100
Per Dozen	$25 20	32 25

CUSPIDORS

Seamed at breast and neck; smooth rim.

No.	10L	30L	40L
Diameter, inches	7	8	8⅞
Depth, inches	4	4¼	5⅛
Dozen in a case	2	1	1
Weight of case, lbs	60	60	40
Per Dozen	$13 50	18 75	21 45

SKI-BLU ENAMELED WARE

A high grade line at a very low price. Finished in a beautiful sky blue inside and out, with rich black edges.

Shapes of the best design; ears and handles electrically welded. Every item so favorably priced that it could be used for bargain purposes.

COFFEE POTS

Seamed; retinned hinged cover, with spun knob; electric welded spout and black enameled handles.

Nos.	9½SB	11½SB	12½SB	13½SB	14½SB
Quarts	1	1½	2	3	4
Diameter bot., in.	4¾	5	5¾	6¼	7
Height, in.	6	6¼	7	8	8
Dozen in case	2	2	2	2	2
Weight case, lbs.	38	45	47	60	70
Per Dozen	$13 50	15 30	17 25	18 90	21 30

Packed loose, wrapped.

TEA POTS

Seamed; retinned hinged cover, with spun knob; electric welded spout and black enameled handle.

Nos.	9SB	11SB	12SB	13SB	14SB
Quarts	1	1½	2	3	4
Diam bot., in	4¾	5	5¾	6¼	7
Height, in	6	6¼	7	8	8
Dozen in case	2	2	2	2	2
Weight case, lbs.	40	47	50	62	68
Per Dozen	$14 25	16 20	18 00	20 25	21 00

Packed loose, wrapped.

TEA KETTLES

Seamed; enameled cover, with spun knob; bright steel wire lock bail, with black enameled wood grip; electric welded spout and ears.

Nos.	7SB	8SB
Quarts	5	7
Dia. bot., in.	9⅝	10¼
Height, in.	5	5¼
Dozen in case	2	2
Weight case, lbs.	81	98
Per Dozen	$28 50	33 45

Packed loose, wrapped.

RICE BOILERS

Seamless; enameled cover with enameled lift; large black enameled round hollow handle, electric welded to the body.

Nos.	150SB	200SB	300SB
Boiler, quarts	2½	3	4
Dia. boiler, in.	5⅞	6⅝	7¾
Depth boiler, in.	4⅝	5	5¾
Inset, quarts	1½	2	3
Dia. inset, in.	5½	6¼	7
Depth inset, in.	4½	4½	5
Dozen in case	2	2	1
Weight case, lbs.	70	81	64
Per Dozen	$34 50	38 25	45 75

Packed loose, wrapped.

BENCH STOPS, BAILEY PLANES

BENCH STOPS

Stearn's

Stearn's; screw adjusting to any desired height and is reversible. Cast iron box, steel top plate with toothed edges.

NO.	Wt. Doz.	DOZEN
15	8 lb.	$14.75

Stearn's

Stearn's; adjustable and reversible, cast iron box, ribbed, with lever, steel head, toothed on one side.

NO.	Plate	Wt. Doz.	DOZEN
11	2¾x2¾ in.	30 lb.	$13.50

BAILEY PLANES

Wood Bottom Planes

Varnished beechwood bottoms, knobs and handles, japanned cast iron frame, polished caps, tempered and polished tool steel cutters, Bailey screw adjustments.

Smooth

NO.	Length	Cutter	Wt. Each	EACH
22	8 in.	1¾ in	2¼ lb.	$4.50
23	9 in.	1¾ in.	2⅝ lb.	4.50
24	8 in.	2 in.	2½ lb.	4.50

BAILEY

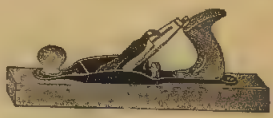
Wood Bottom

Handled Smooth

NO.	Length	Cutter	Wt. Each	EACH
35	9 in	2 in.	3 lb.	$5.50
[illegible]	10 in.	2⅜ in.	3⅜ lb.	6.25

Jack

NO.	Length	Cutter	Wt. Each	EACH
26	15 in.	2 in.	3⅝ lb.	$5.00
27	15 in.	2⅜ in.	4 lb.	5 75



Fore

NO.	Length	Cutter	Wt. Each	EACH
28	18 in.	2⅜ in.	5 lb.	$6.25
29	20 in.	2⅜ in.	5½ lb	6.25

Jointer

NO.	Length	Cutter	Wt. Each	EACH
30	22 in.	2⅜ in.	6 lb.	$6.75
31	24 in.	2⅜ in.	6½ lb.	6.75
32	26 in.	2⅜ in.	7 lb.	7.25

BAILEY PLANES

Finely enameled cast iron frames, bottoms perfectly true and smooth, highest grade steel cutters, oil tempered and polished, varnished rosewood handles and knobs.

SMOOTH

NO.	Length	Cutter	Wt. Each	EACH
2	7 in.	1⅝ in.	2 lb.	$5.75
3	8 in.	1⅞ in.	3 lb.	6.00
4	9 in.	2 in.	3½ lb.	6.50
4½	10 in.	2⅜ in.	5 lb.	7.25

JACK

NO.	Length	Cutter	Wt. Each	EACH
5	14 in.	2 in.	4½ lb.	$7 25
5½	14½ in.	2⅛ in.	5¼ lb.	7.75
5¾	15 in.	2¼ in.	6 lb.	8.50

FORE

NO.	Length	Cutter	Wt. Each	EACH
6	18 in.	2⅜ in.	7 lb.	$9 50

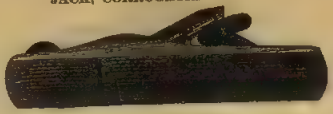
JOINTER

NO.	Length	Cutter	Wt. Each	EACH
7	22 in.	2⅜ in.	8 lb.	$11.00
8	24 in.	2⅝ in.	9½ lb.	13.00

SMOOTH, CORRUGATED BOTTOM

NO.	Length	Cutter	Wt. Each	EACH
3C	8 in.	1⅞ in.	3 lb.	$6 25
4C	9 in.	2 in.	3½ lb.	7 00
4½C	10 in.	2⅜ in.	5 lb.	7.50

JACK, CORRUGATED BOTTOM



NO.	Length	Cutter	Wt. Each	EACH
5C	14 in.	2 in.	4½ lb.	$7.50
5½C	15 in.	2⅛ in.	6 lb.	8.75

Fore, Corrugated Bottom

NO.	Length	Cutter	Wt. Each	EACH
6C	18 in.	2⅜ in.	7 lb.	$10.00

Jointer, Corrugated Bottom

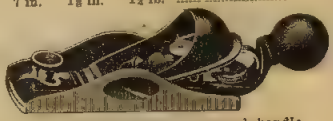
NO.	Length	Cutter	Wt. Each	EACH
7C	22 in.	2⅜ in.	8 lb.	$11 50
8C	24 in.	2⅝ in.	9½ lb.	13.50

BAILEY BLOCK PLANES

NO.	Length	Cutter	Wt. Each	EACH
9½	6 in.	1⅝ in.	1½ lb.	$3.50
15	7 in.	1⅝ in.	1⅝ lb.	3.75

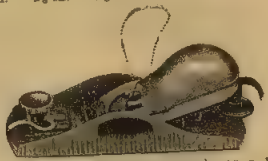
Nickel plated trimmings.

NO.	Length	Cutter	Wt. Each	EACH
16	6 in.	1⅝ in.	1½ lb.	$3.75
17	7 in.	1⅝ in.	1⅝ lb.	4.50



Japanned trimmings, rosewood handle.

NO.	Length	Cutter	Wt. Each	EACH
9½	6 in.	1⅝ in.	1⅝ lb.	$4.00



The knuckle joint in the cap acts as a lever and forces the cap into position, also clamps the lever securely.

NO.	Length	Cutter	Wt. Each	EACH
18	6 in.	1⅝ in.	1½ lb.	$4.00

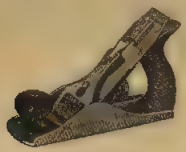
Nickel plated trimmings.

NO.	Length	Cutter	Wt. Each	EACH
10	7 in.	1⅝ in.	1⅝ lb.	$4 25

STANLEY IRON PLANES

"BED ROCK" IRON PLANES

Japanned cast iron frames, varnished rosewood handles and knobs, polished caps, tempered and polished tool steel cutters; screw and lever adjustments. Designed so that entire bottom of frog rests solidly on seat in plane body, the sides fit into guides formed in plane body, lending accuracy of adjustment to the frog, as well as prevent possibility of wobbling; can be adjusted for wide or narrow throat openings.



Smooth

NO.	Length	Cutter	Wt. Each	EACH
602	7 in.	1⅝ in.	2¼ lb.	$6.25
603	8 in.	1⅝ in.	3¼ lb.	6.75
604	9 in.	2 in.	3½ lb.	7.25
604½	10 in.	2⅜ in.	4¼ lb.	8.50

Jack

NO.	Length	Cutter	Wt. Each	EACH
605	14 in.	2 in.	4⅝ lb.	$8.50
605½	15 in.	2 in.	4¾ lb.	9.00

Fore

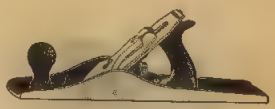
NO.	Length	Cutter	Wt. Each	EACH
606	18 in.	2⅜ in.	7 lb.	$10 50

Jointer

NO.	Length	Cutter	Wt. Each	EACH
607	22 in.	2⅜ in.	8 lb.	$12.25
608	24 in.	2⅜ in.	9½ lb	14.25

Smooth—Corrugated Bottom

NO.	Length	Cutter	Wt. Each	EACH
602C	7 in.	1⅝ in.	2¼ lb.	$6.25
603C	8 in.	1⅝ in.	3¼ lb	7.00
604C	9 in.	2 in.	3½ lb.	7.75
604½C	10 in.	2⅜ in.	4¼ lb.	8 75



Jack—Corrugated Bottom

NO.	Length	Cutter	Wt. Each	EACH
605C	14 in.	2 in.	4⅝ lb.	$8.75
605½C	15 in.	2¼ in.	6⅛ lb.	9.50

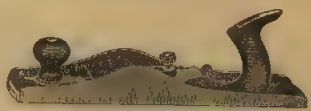
Fore—Corrugated Bottom

NO	Length	Cutter	Wt. Each	EACH
606C	18 in.	2⅜ in	7 lb	$11 25

Jointer—Corrugated Bottom

NO.	Length	Cutter	Wt. Each	EACH
607C	22 in.	2⅜ in.	8½ lb	$13 00
608C	24 in.	2⅜ in.	9¾ lb	$15 00

HANDLED LOW ANGLE BLOCK



This plane is adapted for use in cutting across the grain on heavy work, when more power is required than can be obtained by the use of the ordinary block plane. The plane is fitted with patent adjustable throat, which enables user to work equally well on hard or soft wood.

NO.	Length	Cutter	Wt. Each	EACH
62	14 in	2 in.	4 lb.	$8.50

STANLEY PLANES

STANLEY BLOCK PLANES

Japanned cast iron frames, polished steel cutters.

With Handle.

NO.	Length	Cutter	Wgt. Each	EACH
100	3½ in.	1 in.	¾ lb.	$0.75

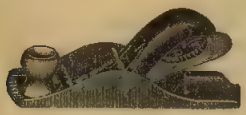
Plain.

NO.	Length	Cutter	Wgt. Each	EACH
101	5½ in.	1 in.	¾ lb.	$0.50

NO.	Length	Cutter	Wgt. Each	EACH
102	6½ in.	1¾ in.	⅞ lb.	$1 25

With Lever Adjustment.

NO.	Length	Cutter	Wgt. Each	
103	5½ in.	1¾ in.	⅞ lb.	$1.75



NO.	Length	Cutter	Wt. Each	EACH
110	7½ in.	1⅝ in.	1¼ lb.	$1.75

Lever Adjustment

NO.	Length	Cutter	Wt. Each	EACH
120	7½ in.	1⅝ in.	1¼ lb.	$2.50

Adjustable Cutters

NO.	Length	Cutter	Wt. Each	EACH
203	5½ in.	1⅝ in.	1¼ lb.	$2.25
220	7½ in.	1⅝ in.	1⅝ lb.	2.50

LOW ANGLE

The cutters in these planes have an angle of only 12 degrees, making them especially adapted to cutting across grain or knots.

Nickel Plated Trimmings—Adjustable

NO.	Length	Cutter	Wt. Each	EACH
60	6 in.	1⅝ in.	1⅝ lb.	$4.00

Japanned Trimmings—Adjustable Throat.

NO.	Length	Cutter	Wgt. Each	EACH
60½	6 in.	1⅝ in.	1⅝ lb.	$3.50

Japanned Trimmings, Throat Not Adjustable.

NO.	Length	Cutter	Wt. Each	EACH
61	6 in.	1⅝ in.	1⅛ lb.	$3.50

Nickel Plated Trimmings, Adjustable.

NO.	Length	Cutter	Wt. Each	EACH
65	7 in.	1⅝ in.	1⅞ lb.	$4.50

DOUBLE END BLOCK

These planes have two slots, reversible cutters, seats and clamps. Can be used to plane close up in corners.

Not Adjustable.

NO.	Length	Cutter	Wt. Each	EACH
130	8 in.	1⅝ in.	1⅜ lb.	$2.50
131	8 in.	1⅝ in.	1⅝ lb.	4.00

BLOCK AND RABBET

A detachable side will easily change this tool from a block plane to a rabbet plane or vise versa. The cutter is set on a skew.

NO.	Length	Cutter	Wt. Each	EACH
140	7 in.	1⅜ in.	1⅝ lb.	$4.50

STANLEY PLANES

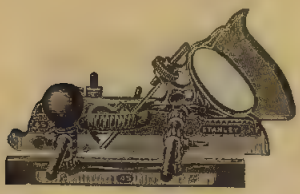
COMBINED BEADING AND MATCHING

Very handy for light work. Consist of a main stock, carrying a spur and a depth gauge, and forming a support for one side of the cutter, a sliding section, carrying a spur and forming a support for the other side of the cutter, and a fence with a 5-inch adjustment. The handle is metal, being a part of the main stock. Nickeled finish.

Seven plow and dado bits, 1-4, 5-16, 3-8, 7-16, 1-2, 5-8 and 7-8 inch; seven beading tools, 1-8, 3-16, 1-4, 5-16, 3-8, 7-16 and 1-2 inch; and a 1-4 inch tonguing tool.

NO.	Length	Wgt. Each	EACH
50	9¾ in.	3½ lb.	$10.00

BEADING, MATCHING AND RABBETING



This plane combines a main stock and a sliding section so arranged that cutters of different widths can be used. Each plane is fitted with adjustable fence or guide and a depth gauge, and also spurs for use in working across the grain. This plane can be used right or left hand.

This plane embraces (1) beading and center beading plane; (2) rabbet and fillister; (3) dado; (4) plow; (5) matching plane; (6) sash plane; and (7) superior slitting plane.

Each plane has seven beading tools (⅛, 3-16, ¼, 5-16, ⅜, 7-16, and ½ inch), ten plow and dado bits ⅛, 3-16, ¼, 5-16, ⅜, 7-16, ½, ⅝, ¾, and ⅞ inch), a slitting blade, a tonguing tool and a sash tool. Complete with twenty tools, bits, etc.

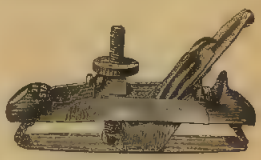
NO.	Length	Wt. Each	EACH
45	9¾ in.	10 lb	$20.00

CIRCULAR

Adjustable

This plane has a flexible steel face and may be shaped to any required arc, either concave or convex, by turning knob on the front of plane

NO.	Length	Cutter	Wgt. Each	EACH
113	16 in.	1¾ in.	3⅝ lb.	$12.00

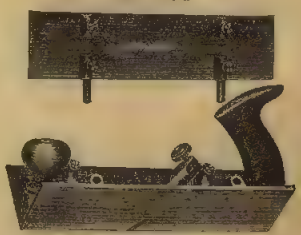


Victor—Nickel Plated

This is a very superior tool, and all its parts are specially designed with the object of eliminating any lost motion due to wear. There are less parts subject to lost motion in this plane than in any other circular plane. The ends of the flexible face being fixed and the force applied at the center, great accuracy of adjustment is possible and the face is most firmly held in position.

NO.	Cutter	Wt. Each	EACH
20	10 in.	1¾ in.	4 lb.	$12.50

CORE BOX



Nickel Plated

A tool much needed by pattern-makers, wheelwrights and others, for planing out semi-circles.

This plane is constructed so that the sides can be extended by additional sections, 2¾ inch wide, until a diameter of 10 inches can be worked, if desired.

Has one pair of additional sections for working semi-circles up to 5 inches in diameter.

NO.	Cutter	Wt. Each	EACH
57	10 in.	¾ in. 6¾ lb	$12.00

ONE IN A BOX.

STANLEY PLANES

IMPROVED DADO

The cutter is set on a skew. Plane is fitted with a depth gauge, adjustable by means of a thumb screw. Also with two adjustable spurs, which can be adjusted to take up wear as well as for depth of cut. Equipped with depth gauge and two adjustable spurs.

NO.	Length	Cutter	Wt. Each	EACH
39½	8 in.	⅝ in.	3¼ lb.	$4.50
39¼	8 in.	½ in.	3¼ lb.	4.75
39½	8 in.	⅝ in.	3¼ lb.	5.50
39¾	8 in.	¾ in.	3¼ lb.	5.50

TRAUT ADJUSTABLE DADO

This tool is accompanied by eight plow and dado bits (3-16, ¼, 5-16, ⅜, ½, ⅝, ¾, and 1¼ in.), a fillister cutter, a slitting-tool and a tonguing-tool. All except the slitting-blade are secured in the main stock on a skew. Nickel plated, with 11 tools, including plow bits, slitting and tongueing tools.

NO.	Length	Wt. Each	EACH
46	10½ in.	5 lb.	$15.00

IMPROVED RABBET

Improved

These planes will lie perfectly flat on either side and can be used equally as well with right or left hand while planing into corners or up against perpendicular surface. All have an iron stock and are fitted with a depth gauge and spur.

NO.	Length	Cutter	Wt. Each	EACH
190	8 in.	1¼ in.	2¾ lb.	$4.50
191	8 in.	1½ in.	2¾ lb.	4.00
192	8 in.	1 in.	2 lb.	3.75

BULL NOSE RABBET

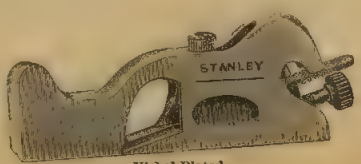
Adjustable Cutter.

NO.	Length	Cutter	Wt. Each	EACH
131	8 in.	1⅝ in.	1¾ lb.	$4.00

CABINET MAKERS' RABBET

This plane is designed for fine cabinet work where extreme accuracy is required. The sides and bottom being square with each other, the plane will lie perfectly flat on either side and can be used right or left. Nickel plated.

NO.	Length	Cutter	Wt. Each	EACH
90	4 in.	1 in.	1¼ lb.	$6.00



Nickel Plated

NO.	Length	Cutter	Wt. Each	EACH
92	5½ in.	⅝ in.	2¼ lb.	$3.00
93	6½ in.	1 in.	2¾ lb.	7.00

STANLEY PLANES

RABBET

Carriage Makers

Especially adapted for the heavy framing required in mining work, for carriage or wagon building, or in any work of similar nature. Cutters tempered and ground, honed ready for use, and are adjustable endwise by means of the adjusting wheel at the back of the frog. Also adjustable sidewise by lever located near the top and at the back of the cutter. The handles and knobs are made of highly finished, thoroughly seasoned rosewood.

NO.	Length	Cutter	Wt. Each	EACH
10½	9 in.	2⅜ in.	3½ lb	$8.00
10	18 in.	2⅜ in.	4½ lb	9.50

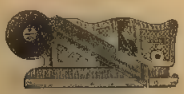
RABBET AND FILLISTER

The arm to which the fence is secured may be screwed into either side of the stock, thus making a superior right or left hand fillister, with adjustable spur and depth gauge.

Remove the arm to which the fence is secured, and a handled rabbet plane is had, and with two seats for the cutter so that tool can be used as a bull-nose rabbet if required.

NO.	Length	Cutter	Wt. Each	EACH
78	8½ in.	1⅝ in.	3 lb.	$5.00

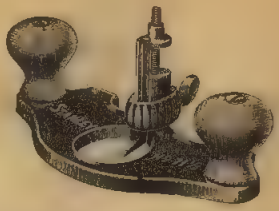
SIDE RABBET



Convenient tools for side rabbeting and turning dados, mouldings and grooves of all sorts. A reversible nose piece will give the tool a form by which it will work close up into corners when required. Nickel plated. Right and left hand.

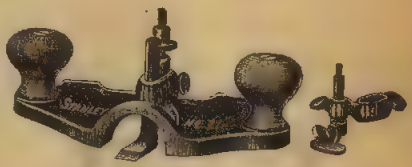
NO.	Length	Cutter	Wt. Each	EACH
98R	4 in.	½ in.	¾ lb.	$3.00
99L	4 in.	½ in.	¾ lb.	3.00

ROUTER



This tool will smoothe out the bottom of grooves, panels and all depressions below the general surface of any wood work and will rapidly rout out mortises for sash frame pulleys. Nickel plated, closed throat.

NO.	Length	Cutter	Wt. Each	EACH
71½	7½ lb.	¼, ⅜ in.	2½ lb.	$4.75



This improved tool will smooth bottom of grooves, panels and all depressions below surface of any wood work and will rapidly rout out mortises for sash frame pulleys.

7½ in. wide, nickel plated, open throat and with throat attachment, ¼ and ⅜ in. steel bits.

NO.	Wt. Each	EACH
71	2 ½ lb.	$6.00

SCRUB OR ROUGHING

For quickly planing down to rough dimensions any wide board. Has heavy round cutter, beech handle and knob, and nickel trimmings.

NO.	Length	Cutter	Wt. Each	EACH
40	9½ in.	1¾ in.	2 lb.	$3.25
40½	10½ in.	1¾ in.	2½ lb.	4.50

STANLEY PLANES

TONGUE AND GROOVE

The plane has two separate cutters, a suitable distance apart. When the guide, or fence, is set, both cutters work and a tongue can be made

The fence is hung on a pivot, and can be swung around, end for end. This movement covers one of the cutters, and also furnishes a guide for grooving an exact match for the tongue

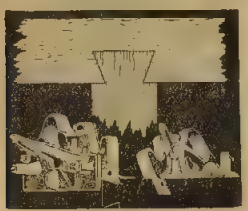
Nickel plated, adjustable cutter, stock and fence for ⅜ to 1¼ inch boards, including tongueing and grooving tools, adjustable cutter.

NO.	Length	Cutter	Wt. Each	EACH
48	10½ in.	5-16 in.	3 lb.	$8.00

Nickel plated stock and fence for ⅜ to ⅝ inch boards.

NO.	Length	Cutter	Wt Each	EACH
49	10 in	3-16 in.	3 lb.	$8.00

DOVETAIL TONGUE AND GROOVE



This novel tool accomplishes a result sought for many years by wood workers in general, namely, to form a dove-tail tongue and groove with one hand tool.

It will cut any size grooves and tongues to fit with sides at a flare of 20 degrees, where the width of the neck is more than one-quarter of an inch and the depth of groove not more than three-quarters of an inch. The tongue and groove are cut separately, and can be made with parallel or tapering sides. A circular containing instructions for assembling and operating is packed with each tool, or will be sent upon request. This circular also gives valuable suggestions as to the use of dovetail joints.

The compactness of tool is shown in the illustration, where the cut on left shows the plane assembled for cutting the tongue, and that on the right the plane assembled for cutting the groove. Handsomely nickel plated.

NO.	Length	Wt Each	EACH
444	9 in.	6 lb.	$16.00

Packed in a neat wooden box with all parts complete.

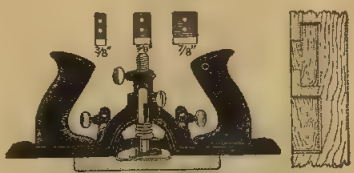
DOUBLE END MATCH

This tool has both tongue and groove irons. With one side a tongue can be cut, and by reversing ends the plow will cut a groove to fit. Tonguing tools are made wide on one side for use on thicker stuff than the plane will tongue and groove in the center.

NO.	Matches Boards	Cuts Grooves	Weight Each	EACH
146	⅜ in.	⅜ in.	1⅞ lb	$6.00
148	⅝ in.	½ in.	2⅝ lb.	6.75

ONE IN A BOX

DOOR TRIM



Will make mortises for butts, face plates, strike plates, escutcheons, etc., up to a depth of 5-16 and a width of 3 inches. The cutter can be instantly set to work from either end of plane or across it. In addition the cutter is cushioned by a spring which prevents taking a heavier chip than can be easily carried. A fence regulates the position of the cut and insures the sides of the cut being parallel. The depth of the cut is governed by a positive stop.

By removing the fence and locking the cutter post with the thumb screw instead of using the spring a very superior router plane is obtained. The bottom is designed so that an extra wooden bottom of any size desired can be screwed on, enabling the user to router on larger openings. Japanned finish. Rosewood handles.

Three forged steel cutters, ⅝, ¾ and ⅞ inches wide.

NO.	Length	Wt. Each	EACH
171	11 in.	3 lb.	$9.00

ONE IN A BOX.

EDGE TRIMMING PLANE

Designed for smoothing the edges of boards, has right angle guide and cutter works on a skew, giving an easy shaving cut, beveled wood blocks may be attached to guide for making slanting cuts.

NO.	Length	Cutter	Wt. Each	EACH
95	6 in.	⅝ in.	1¼ lb.	$3.75

STANLEY PATENT UNIVERSAL PLANES

This plane consists of:—

A Main Stock (A) with two sets of traverse sliding arms, a depth gauge (F) adjusted by a screw, and a slitting cutter with stop.

A Sliding Section (B) with a patent vertically adjusted bottom

The Auxiliary Center Bottom (C) is to be placed in front of the cutter, as an extra support, or stop, when needed. The bottom is adjustable both vertically and laterally.

Fences (D) and (E). Fence D has a lateral adjustment by means of a screw, for extra fine work. The fences can be used on either side of the plane, and the rosewood guides can be tilted to any desired angle, up to 45 deg., by loosening the screws on the face. Fence E can be reversed for center beading wide boards.

An Adjustable Stop to be used in beading the edges of matched boards is inserted on the left hand side of sliding section (B).

Tools and Bits for No. 55 Plane

2 sash tools, 2 match tools, 1 slitting tool, 1 fillister tool, 10 plow and dado bits, 9 beading tools, 8 fluting tools, 6 pair hollows and rounds, 6 reversible ogee bits, 6 pair quarter hollows and rounds, 6 Roman ogee bits, 6 Grecian ogee bits, 12 reed tools, 6 quarter rounds with bead.

This tool in the hands of an ordinary carpenter can be used on all lines of work covered by a full assortment of so called fancy planes.

Nickel plated Universal plane with 52 bits, etc., adapted to 93 different uses. Arranged in four separate cases.

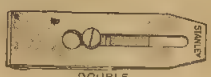
NO.	Length	Wt. Set	SET EACH
55	10 in.	16 lb.	$42.00

PRICE LIST OF PLANE IRONS

It will be noted in many cases the same single iron fits a number of different planes, but the cap iron (which combined with the single iron makes the double iron), is not the same on the iron, wood and circular planes and consequently is not interchangeable. In ordering, it is necessary to give the number of the plane, size of iron and state whether single or double iron is required.

FOR "BED ROCK" AND "BAILEY" IRON AND WOOD PLANES

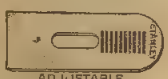
SINGLE



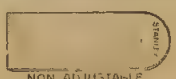
DOUBLE

SIZE	For Planes	Plane Irons Single, EACH	Plane Irons Double, EACH
1¼ in.	No. 1	$0 45	$0.90
1⅝ in.	Nos. 2, 602	.50	.85
1¾ in.	Nos. 3, 3C, 20, 32, 35, 113, 603, 603C	.55	.90
2 in.	Nos. 4, 4C, 5, 5C, 9, 24, 26, 35, 604, 604C, 605, 605C	.60	.95
2⅛ in.	Nos. 10, 10½, 10¼	.65	1.00
2⅜ in.	Nos. 5½, 5½C, 27½, 605½, 605½C	.70	1.10
2⅝ in.	Nos. 4½, 4½C, 6, 6C, 7, 7C, 11, 28, 31, 36, 604½, 604½C, 606, 606C, 607, 607C	.75	1.20
2⅞ in.	Nos. 8, 8C, 32, 37, 608, 608C	.80	1.30

FOR STANLEY AND "BAILEY" BLOCK PLANES



ADJUSTABLE



NON ADJUSTABLE

SIZE	For Planes	Plane Irons PER DOZEN
1 in.	Nos 100, 101	$1 50
1⅛ in.	Nos 60, 60½ 61, 203	5.00
1⅜ in	Nos. 102, 103	2 50
1⅝ in.	Nos. 9¼, 9½, 15, 15½, 16, 17, 18, 19, 63, 65, 65½, 120, 131, 220	5.00
1⅞ in.	Nos 110, 130	3.80
1¼ in.	No. 140	6.00
2 in.	Nos. 62, 64	13.45
2 in.	No. 64 Special	14.95

SIX IN A BOX.

In ordering Plane Irons, please specify name and number of Planes for which they are wanted

BEADERS AND BURNISHERS

UNIVERSAL HAND BEADERS

Excellent for beading, reeding or fluting straight or irregular surfaces and for light routering. Furnished with a square gauge for straight work and an oval gauge for curved work. Handles are curved so as to insure ample room between the workman's hands and the surface of work. Made entirely of metal. Nickeled finish.

Eight cutters, sharpened at both ends, comprising: six single beads, 1-8, 3-16, 1-4, 5-16, 3-8 and 1-2 inch; two fluting tools, 3-16 and 1-4 inch; four reeding tools, (2 beads 3-16 inch, 3 beads 1-4 inch, 3 beads 1-8 inch, and 4 beads 1-8 inch); two routers, 1-8 and 1-4 inch; and a 5-8 inch blank which can be shaped as desired.

NO.	Length	Wgt. Each	EACH
66	5 in.	1⅞ lb.	$29 00

SINGLE HAND BEADERS

For all kinds of straight beading, reeding for fluting. Metal body; maple handle, well ferruled; nickeled finish.

Seven cutters, sharpened at both ends, comprising: six single beads, 1-8, 3-16, 1-4, 5-16, 3-8 and 1-2 inch; two fluting tools, 3-16 and 1-4 inch; four reeding tools, (3 beads 3-16 inch, 2 beads 1-4 inch, 3 beads 1-8 inch, 4 beads 1-8 inch); and a 5-8 inch blank.

NO.	Length	Wgt. Each	EACH
69	5 in.	½ lb.	$26.00

CORNERING TOOLS

Flat Steel

NO.	Size	Cutters	Wt. Doz.	DOZEN
28	5½x⅜ in.	1-16 and ¼ in.	¾ lb.	$6.00
20	5½x⅝ in.	¼ and ⅜ in.	⅔ lb.	6.50

HAND BURNISHERS

For sharpening and turning the edge of hand and floor scraper blades. Oval steel blade, varnished hardwood handle, nickel ferrule.

NO.	Length	Wt. Doz.	DOZEN
1	4 in.	3½ lb.	$6.00

BIT GAUGES

This gauge will fit any bit up to 1 inch in diameter, adjustable to any depth. Steel, nickel plated.

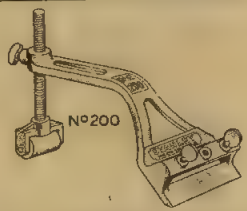
NO.	Wgt. Doz.	DOZEN
49	3⅔ lb.	$16.75

CHISEL GAUGES

Adjustable; steel stock, 2¼ inches; for ½-inch chisel.

NO.	Wgt. Doz.	DOZEN
96	6 lb.	$5.50

CUTTER AND CHISEL GRINDERS



A device for holding plane irons, chisels and similar cutting tools to be ground or honed to any desired angle or bevel. The tool to be sharpened is rigidly held in position by thumb screws and may be adjusted to any angle by means of a screw attached to the roller frame. Made entirely of metal, all parts nicket plated.

NO.	Wgt. Each	EACH
200	— lb.	$2.00

JOINTER GAUGES

Designed for use in connection with all sizes of iron jack or jointer planes. Will plane bevels of any angle between 30 and 90 degrees. Joints and bearing surface are machined. A wood surface of any desired size may be attached thus providing a bearing surface longer or wider than the face of the guage itself. Adaptable for either right or left hand work.

NO	Wt. Each	EACH
386	2¼ lb.	$3.50

WARREN STANDARD HARDWARE STORE FIXTURES

Warren Standard Hardware Store Fixtures are made on the sectional, interchangeable unit system.

All cabinets units are exactly the same outside dimension and the base units correspond to the cabinet units in length. When set up and fastened together they come into perfect alignment, and are as solid as if built in the store A merchant can fit up his entire store in one day, or at any time he wishes to rearrange the location of any line of goods or move into another building, these sections can be moved as easily as a fitting cabinet or office desk.

Cabinets—Standard are 100⅞ in. long -105⅞ in with end cornice—54 in. high, 15⅞ in. deep—17⅞ in. including cornice. .

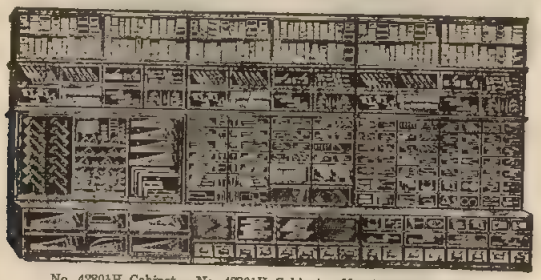
Bases—All Warren bases are 100⅞ in long, 31½ in. high, 30 in. deep

Material—The outside exposure is made of select white oak. All interior construction of soft wood usually poplar.

Finish—The finish for all Warren Standard Fixtures is antique oak, hand rubbed dull This finish will always be sent unless otherwise specified Samples of finish sent on application.

Felt—Unless instructed, all sample boards will be covered and sliding glass door cabinets lined with all wool red felt

How to Order—To make up an order it will be only necessary to use catalogue numbers of different units desired in order they are to be placed in the store. Send pencil sketch with numbers of different units—cabinet and bases inserted—showing relative location of each. State whether fixtures are to be placed on RIGHT or LEFT side of store as you enter front door.



No. 4280½H Cabinet.	No. 4280½H Cabinet.	No. 4280½H Cabinet.
No. 3805½H Cabinet.	No. 3805½H Cabinet.	No. 3805½H Cabinet.
No. 3006 Cabinet.	No. 3224 Cabinet.	No. 3200 Cabinet.
No. 5115 Base.	No. 5215 Base.	No. 5175 Base.

Combination No. 6212—Arranged for Left Hand side of store as you enter the front, length 25 ft. 6 in.—including return crown on both ends—height 12 ft. 1¼ in., composed of 3 base units and 3 cabinet units also 6 half-height units as follows—

No. F4280½H—Cabinets. These three half-height cabinets are 30 in. high, with one adjustable shelf for duplicate stock or goods in original packages, w't 185 lbs.★ .....each *$27.65*

No. F3805½H—Cabinets. These three half height cabinets have glass drop fronts, with one removable shelf back of each, w't 290 lbs ★ .....each *$71.15*

No. F3006—Cabinet, three sliding glass doors glazed with D. S. A. glass and fitted with ball bearing sheaves, sliding on inlaid steel track, interior lined with all wool felt and equipped with tool brackets, racks, etc., as shown. When specified this cabinet will be arranged for any assortment of goods desired, approximate w't packed 425 lbs., each★ *$103.00*

No. F5115—Base, contains six glass front drawers as follows—two 11¾×36 in., each with removable saw racks, two 11¾×36 in. each with sliding tray and two 11¾×24 in. without sliding tray or racks, all 27½ in. deep, sample boards are removable and covered with all wool felt, displaying the samples back of the glass, approximate w't packed 550 lbs.★ .....each *$112.60*

No. F3224—Cabinet, contains 10—6×6 in., 16—6×12 in., 10—6×18 in., 4—8×6 in., 4—8×18 in. glass front drawers, 2—12-24 in. glass drop fronts with removable shelf back of each, and 2—12×24 in. glass drop front insets with drawers back of each, approximate w't packed 670 lbs., each★ *$177.85*

No. F5215—Base, contains four glass drop fronts and eight oak front drawers, three glass drop fronts back of which are 4—23×22 in. oak front drawers with removable partitions, one glass drop front, back of back of which are 4—22×22 in. oak drawers, with one partition, approximate w't packed 670 lbs., each★ *$170.35*

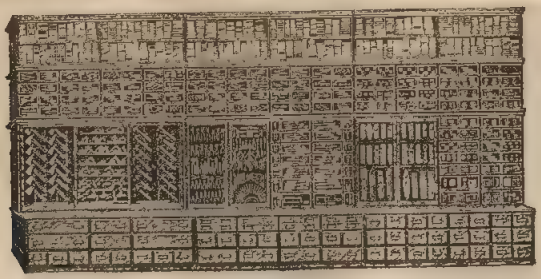
No. F3200—Cabinet, contains 40—6×12 in. and 16—8×12 in. glass front drawers, provided with removable and adjustable felt covered sample boards, approximate w't packed 650 lbs.★ .....each *$157.50*

No. F5175—Base, contains 20 glass and oak front drawers, 4—8×24 in. glass front drawers with five removable partitions and 8—8×12 in. glass front drawers, with two partitions in each drawer, sample boards are removable and covered with rich colored felt, approximate w't packed 630 lbs., each★ *$115.80*

No. F6212—Combination complete, approximate w't packed 4,955 lbs.★ .....each *$1134.40*

★ Items Marked Thus ★ are Shipped from Factory Only.

WARREN STANDARD HARDWARE STORE FIXTURES



No. F4280½H Cabinet.
No. F3280½H Cabinet.
No. F3012 Cabinet.
No. F5313 Base.

No. F4280½H Cabinet.
No. F3280½H Cabinet.
No. F3310 Cabinet.
No. F5357 Base.

No. F4280½H Cabinet.
No. F3280½H Cabinet.
No. F3660 Cabinet.
No. F5325 Base.

Combination No. 6220—Arranged for the left hand side of store as you enter the front, length 25 ft. 6 in.—including return crown on both ends—height 12 ft. 1¼ in.

This combination is composed of six half height cabinet units, three cabinet units and three base units as follows—

No. F4280½H—Cabinets. These three half-height cabinets are 30 in. high, with one adjustable shelf, for duplicate stock, or goods in original packages, w't 135 lbs.★ ..... each *$27.65*

No. F3280½H—Cabinets. These three-half-height cabinets are 30 in. high and each contains thirty-two 6×12 glass front drawers, w't 340 lbs.★ ..... each *$92.10*

No. F3012—Cabinet, has three sliding glass doors, with ball bearing sheaves sliding on an inlaid steel track, the interior is lined with rich colored, all wool felt, and fitted with racks, display stands, etc., for goods as shown in illustration, w't 425 lbs., each★ *$103.75*

No. F5313—Base, contains four 8×36, two 8×24 and eight 8×12 oak front drawers, all 26¾ in. deep, w't 490 lbs., each★ *$89.75*

No. F3310—Cabinet, has two glass swing panels, ten 6×6, ten 6×18, four 8×6 and four 8×18 in. glass front drawers, swing panels are made with recessed frame to which sample boards are securely fastened, six adjustable shelves back of each, all sample boards covered with rich colored felt, and are removable, w't 565 lbs.★ ..... each *$136.65*

No. F5357—Base, contains eight 3×22¾ in. oak front drawers, arranged in four removable insets, eight 8×12 and four 8×24 oak front drawers, all 26¾ in. deep, with removeable partitions, w't 545 lbs., each★ *$112.30*

No. F3660—Cabinet, for builder's hardware, has thirty-one mahogany or quartered oak easel back sample boards back of glass and instantly removable. The two glass doors are hinged right and left, mahogany boards will always be sent unless otherwise ordered, balance of cabinet contains twenty-eight glass front drawers, w't 565 lbs., each★ *$185.65*

No. F5325—Base, contains twenty-four 8×12 oak front drawers, all 26¾ in. deep, with removable partitions, w't 51 lbs., each★ *$98.25*

No. F6220—Combination complete, approximate w't packed, 4,675 lbs.★ ..... each *$1085.60*

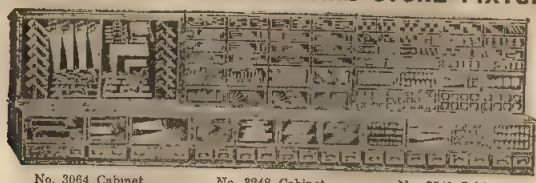
This combination of fixtures can be arranged for the right hand side of store if desired.

The units comprising the combination may be rearranged or additional units added for greater length.

Complete catalogue will be sent on application, describing fully the different units forming this combination and many others. Write us for prices.

★ Items Marked Thus ★ Are Shipped From Factory Only.

WARREN STANDARD HARDWARE STORE FIXTURES



No. 3064 Cabinet. No. 5205 Base. | No. 3248 Cabinet. No. 5215 Base. | No. 3540 Cabinet. No. 5225 Base.

Combination No. 6200—For left hand side of store as you enter the front, length 25 ft. 6 in.—including return crown on both ends—is composed of the following units—

No. F3064—Cabinet, has two sliding glass doors, with ball bearing sheaves, sliding on inlaid steel track, the interior is lined with rich colored, all wool felt and fitted with racks, brackets, display stands, etc., for goods as illustrated, w't 425 lbs., each★ *$106.45*

No. F5205—Base, contains three glass drop fronts, with adjustable shelves back of each, two 8x36, and one 8x24 in. oak front drawers, all 26½ in. deep, w't 550 lbs., each★ *$122.60*

No. F3248—Cabinet, contains eight 6x6, eight 6x12, eight 6x18 and four 6x24 glass front drawers, all with felt covered sample boards and one removable partition, four glass drop fronts, with one removable shelf back of each and four glass drop front insets with drawers back of each for goods such as shown in illustration, all drop fronts and insets provided with removable felt covered sample boards, w't 670 lbs., each★ *$198.00*

No. F5215—Base, contains four glass drop fronts and eight 8x12 oak front drawers, all drop fronts have drawers with removable partitions arranged back of each, for goods such as shown in illustration, w't 670 lbs., each★ *$170.35*

No. F3540—Cabinet, contains thirty-two 6x12 glass front drawers, four glass drop fronts, with one removable shelf back of each opening, thirty $2\frac{3}{8}$x$3\frac{13}{16}$ and sixteen $4\frac{7}{16}$x$4\frac{1}{16}$ oak front drawers—these oak front drawers for screws, screw hooks and eyes, stove and tire bolts, etc., are fitted with sliding covers so arranged that only one compartment at a time is open, w't 665 lbs., each★ *$192.55*

No. F5225—Base, contains four glass drop fronts and eight 8x12 oak front drawers, sixty-four oak front drawers, with partition, are furnished back of the drop fronts for goods such as shown in illustration, w't 700 lbs.★ ..... each *$182.00*

No. F6200—Combination complete, approximate w't packed 3,680 lbs.★ ..... each *$971.95*

No. 3500 Cabinet. No. 5325 Base. | No. 3208 Cabinet. No. 5361 Base. | No. 3014 Cabinet. No. 5313 Base.

Combination No. 6204—For Right hand side of store as you enter the front, length 25 ft. 6 in.—including return crown on both ends—height 7 ft., 1½ in. is composed of the following units—

No. F3500—Cabinet, contains forty 6x12 and sixteen 8x12 glass front drawers, all fitted with felt covered sample boards and one partition, both of which are removable and adjustable, w't 650 lbs., each★ *$157.50*

No. F5325—Base, contains twenty-four 8x12 oak front drawers, all 26¾ in. deep, and fitted with removable partitions, w't 510 lbs., each★ *$98.25*

No. F3208—Cabinet, contains ten 6x6, twenty 6x12, ten 6x18, four 8x8, eight 8x12 and four 8x18 glass front drawers, all fitted with felt covered sample boards and one partition, both of which are removable and adjustable, w't 650 lbs., each★ *$158.75*

No. F5361—Base, contains four 8x22⅝ and sixteen 8x5⅜ in. oak front drawers, with partitions arranged in four removable insets, eight 8x12 and four 8x24 in. oak front drawers, 26¾ in. deep with removable partitions, w't 555 lbs., each★ *$117.20*

No. F3014—Cabinet, has three sliding glass doors, with ball bearing sheaves, sliding on an inlaid steel track, the interior is lined with colored all wool felt and fitted with brackets, racks, display stands, etc., for goods as illustrated, w't 425 lbs., each★ *$99.55*

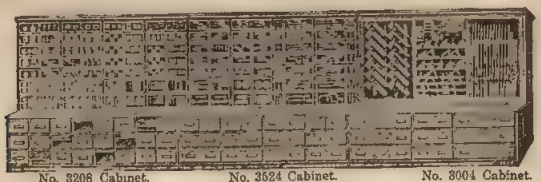
No. F5313—Base, contains one 8x36, with sliding tray, one 8x36 with saw rack, two 8-36 without trays, racks or partitions, two 8-24 and eight 8x12 oak front drawers, with removable partitions, all 26¾ in. deep, w't 490 lbs.★ ..... each *$89.75*

..... each *$721.00*

No. F6204—Combination complete, approximate w't packed 3,280 lbs.★

★ **Items Marked Thus ★ are Shipped from Factory Only.**

WARREN STANDARD HARDWARE STORE FIXTURES



No. 3208 Cabinet. No. 5333 Base. | No. 3524 Cabinet. No. 5309 Base. | No. 3004 Cabinet. No. 5417 Base.

Combination No. 6228—For right side of store as you enter the front, length 25 ft. 6 in. including return crown on both ends—height 7 ft. 1½ in. is composed of the following units—

No. F3524—Cabinet, contains forty 6x12 and eight 8x12 glass front drawers, with removable felt covered sample board, and one partition and forty 2¾x3⅜ oak front drawers, arranged in four removable insets. These oak front drawers have sliding covers so arranged that only one compartment is open at a time, for screws, screw hooks and eyes, etc., w't 685 lbs.★ .....each *$189.50*

No. F5417—Base, contains twenty-four 8½x11½ open flat bottom bins, 27 in. deep for strap and T hinges, pipe fittings and other loose goods. Bins provided with oak drop front, giving appearance of oak front drawers, card frames and cards attached, w't 440 lbs★ .....each *$81.65*

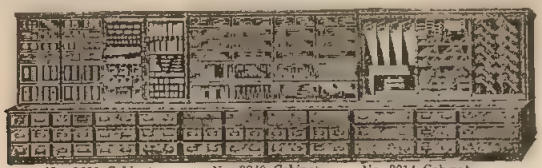
No. F3208—Cabinet, contains ten 6x6, twenty 6x12, ten 6x18, four 8x6, eight 8x12 and four 8x18 glass front drawers. All glass front drawers are interchangeable with each other and from one cabinet to another, and provided with sample board covered with rich colored felt and one partition, both of which are removable and adjustable, w't 650 lbs, each★ *$158.75*

No. F5333—Base, contains eight 8x12 and eight 8x24 oak front drawers, all fitted with removable partitions, all 26½ in. deep inside. Card frames and cards attached to fronts of all drawers, w't 500 lbs., each★ *$94.90*

No. F3004—Cabinet, has three sliding glass doors, with ball bearing sheaves, sliding on an inlaid steel track. The interior is lined with rich colored, all wool felt, and fitted with racks, brackets, shelves, display stands, etc., for goods as illustrated, w't 425 lbs.★ .....each *$98.50*

No. F5309—Base, contains two 8x36, with sliding trays, two 8x36 with saw racks, two 8x36 without trays or partitions and three 8x24 oak front drawers with removable partitions, w't 470 lbs.★ ..each *$87.70*

No. F6228—Combination complete, approximate w't packed 3,170 lbs.★ .....each *$711.00*



No. 3620 Cabinet. No. 5329 Base. | No. 3240 Cabinet. No. 5361 Base. | No. 3014 Cabinet. No. 5309 Base.

Combination No. 6224—For Right hand side of store as you enter front, length 25 ft. 6 in.—including return crown on both ends—height 7 ft. 1½ in. is composed of the following units—

No. F3620—Cabinet, contains sixteen 6x12 and eight 12x12 glass front drawers and two glass swing panels with six adjustable shelves back of each for stock in original packages. All sample boards removable and covered with rich colored, all wool felt, w't 550 lbs.★ ....each *$135.45*

No. F5329—Base, contains twelve 8x12 and six 8x24 oak front drawers, all arranged with removable partitions, 26½ in. deep inside, w't each 500 lbs., each★ *$95.75*

No. F3240—Cabinet, contains eight 6x6, eight 6x12, eight 6x18, four 6x24 in. glass front drawers, eight glass drop fronts with removable shelf back of each for goods in original packages. Sample boards removable and covered with rich colored felt, w't 575 lbs., each *$150.75*

No. F5361—Base contains 4—8x22 and 16—8x5⅛ in. oak front drawers, with removable partitions arranged in 4 removable insets, 8—8x12 and 4—8 24 in oak front drawers 26½ in deep. with removable partitions, w't 535 lbs.★ .....each *$117.20*

No. F3014—Cabinet, has three sliding glass doors, with ball bearing sheaves sliding on an inlaid steel track; the interior is lined with rich colored, all wool felt and fitted with display stands, racks, brackets, etc., for goods as shown in illustrations, w't 425 lbs.★ .....each *$99.55*

No. F5309—Base, contains two 8x36 with sliding tray, two 8x36, with saw racks, two 8x36, without racks, trays or partitions and three 8x24 in. oak front drawers, with removable partitions, w't 470 lbs.★..each *$87.70*

No. F6224—Combination complete, approximate w't packed 3,075 lbs.★ .....each *$686.40*

★ Items Marked Thus ★ are Shipped from Factory Only.

WARREN STANDARD "B" HARDWARE STORE FIXTURES

Warren's productions are made on the Sectional, Interchangeable Unit System.

The Bases are 8 ft. 4⅝ in. long, 2 ft. 7½ in. high, and 2 ft. 6 in. deep. All Cabinets are 8 ft. 4⅝ in. long, 4 ft. 6 in. high and 1 ft. 3⅜ in. deep.

All outside exposures made of White Oak. All interior constructions of soft wood, usually poplar.

All Standard "B" Fixtures have a matched and beaded back, protecting stock from damp walls or possible loss of goods by being misplaced or falling down back of fixtures. All fixtures are built amply strong to sustain the weight of all Hardware Goods and every detail of trimming is complete, including Display Stands, Racks, Brackets, Shelves, Drawer-Pulls, Card Frames, etc.

The regular finish for Warren Standard "B" Fixtures is "Mission Tavern Oak" and this finish will always be furnished unless otherwise ordered. Samples sent on application.

Unless otherwise specified, Sample Boards will be covered and Sliding Glass Door Cabinets lined with rich Green felt.

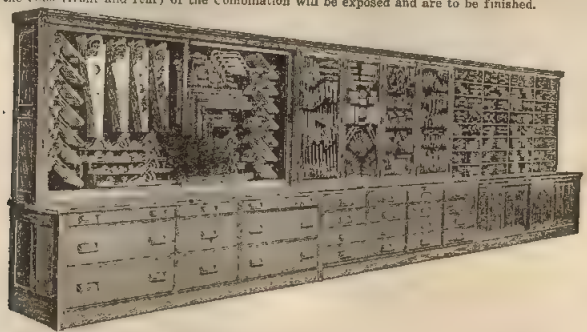
When ordering Warren Standard "B" Fixtures, use the catalog numbers of the Combination or single Units desired.

Advise on which side of store, entering the front (right or left) Fixtures will be placed, and send a list of catalog numbers of the different Units desired.

Advise the order the different Units (Cabinets and Bases) will be placed in the store, i. e., which Base will be first, second, third, fourth, etc., and which Cabinet will be first, second, third, fourth, etc., from the front of store.

Advise if Fixtures will be used in conjunction with, joined to or used in any way with "Warren" or other fixtures.

Advise if the ends (front and rear) of the Combination will be exposed and are to be finished.



No. 200 Cabinet. No. 100 Base. | No. 242 Cabinet. No. 112 Base. | No. 270 Cabinet. No. 118 Base.

Combination No. 10—Arranged for Left hand side of store as you enter the front, is 25 ft. 4⅝ in. long, **7 ft. 1⅛ in. high** and is composed of three cabinet units, three base units, and four finished end panels as follows—

No. F200—Cabinet; has two sliding glass doors, with ball bearing sheaves, sliding on an inlaid steel track. Interior lined with rich colored felt and fitted with tool racks, brackets, display stands, etc., as shown in illustrations, w't 415 lbs., each★ *$87.00*

No. F100—Base; contains two 10-24 four 10×36, one 23-24 and two 23-36 in., oak front drawers, w't 400 lbs., each★ *$67.20*

No. F242—Cabinet; has four swing panels arranged with removable sample boards covered with rich colored felt. Six adjustable shelves back of each swing panel, for goods in original packages, w't 425 lbs., each★ *$82.75*

No. F112—Base; contains sixteen 5⅛×24 in. oak front drawers, 28 in deep, with partitions, w't 450 lbs., each★ *$74.85*

No. F270—Cabinet; contains sixty-four 5⅛×12 oak front drawers with loose partitions, w't 615 lbs., each★ *$106.00*

No. F118—Base; has four oak paneled sliding doors, with one shelf back of each opening. Sliding doors are fitted with ball bearing sheaves and slide on an inlaid steel track, w't 330 lbs.★ ..... each *$53.25*

No. F10—Combination complete, approximate w't packed 2,685 lbs.★ ..... each *$485.85*

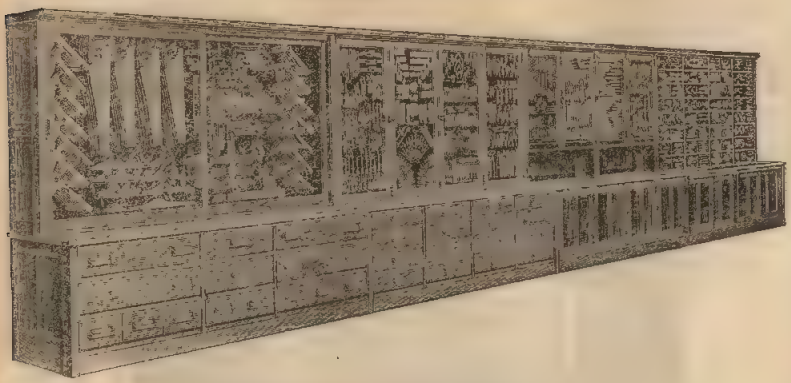
No. F372—Two finished cabinet end panels, and **No. 370**—Two finished base end panels, to finish exposed ends of combination, w't each 13 lbs.★ ..... each *$3.70*

This Combination of fixtures can be arranged for Right side of store, or additional units added for greater length or height as desired.

Complete catalogue sent on application, describing fully the different units forming this combination and many others. Write us for prices.

★ Items Marked Thus ★ Are Shipped From Factory Only.

WARREN STANDARD "B" HARDWARE STORE FIXTURES



No. F200 Cabinet	F242	F230	F270
No. F104 Base	F112	F122	F118

No. F26—This Combination of Fixtures arranged for LEFT hand side of store as you enter the front, is 33 ft. 9 in. long, 7 ft. 1½ in. high and composed of three Cabinet Units; three Base Units and four finished End Panels, as follows: each★ *$621.25*

No. F200—This Cabinet has two Sliding Glass Doors, with Ball Bearing Sheaves, sliding on an inlaid steel track; interior lined with rich colored felt and fitted with Tool Brackets, Display Stands, Racks, etc., for goods as shown in illustration★ ..... each *$87.00*

No. F104—This Base contains eight 7½x12, two 7½x24 and four 7½x36 in. Oak Front Drawers, all 28 in. deep, each★ *$68.85*

No. F242—This Cabinet has four Swing Panels with removable Sample Boards, covered with rich colored felt; six adjustable shelves back of each Swing Panel for goods in original packages★ ..... each *$82.75*

No. F112—This Base contains sixteen 5½x24 in. Oak Front Drawers, 28 in. deep, with partitions★ ..... each *$74.85*

No. F230—This Cabinet has four Swing Panels with removable Sample Boards, covered with rich colored felt; five adjustable shelves back of each Swing Panel; when used in connection with any Base, the open space at bottom forms a Wrapping Counter★ ..... each *$75.85*

No. F122—This Base has four Oak Paneled Swing Doors with one shelf back of each opening★ ..... each *$57.90*

No. F270—This Cabinet contains sixty-four 5½x12 in. Oak Front Drawers with loose partitions; all drawers are interchangeable with each other and from one cabinet to another★ ..... each *$106.00*

No. F118—This Base has four Oak Paneled Sliding Doors with one shelf back of each opening; Sliding Doors are fitted with sheaves and slide on an inlaid steel track, each★ *$53.25*

No. F270—This Cabinet contains sixty-four 5½x12 oak front drawers with loose partitions. All drawers are interchangeable with each other and from one cabinet to another ..... each *$106.00*★

No. 118—This Base has four oak paneled sliding doors with one shelf back of each opening. Sliding doors are fitted with

No. F372—Two finished Cabinet End Panels and two No. F370 finished Base End Panels, to finish exposed ends of this combination★ ..... each *$3.70*

Weight 3375 lbs. This combination can be arranged for RIGHT hand side of store, re-arranged for additional units added for greater length or height, as desired.

Complete catalog of Warren Standard "B" Hardware Fixtures will be sent on application.

★ **Items Marked Thus ★ Are Shipped From Factory Only.**

WARREN STANDARD "B" HARDWARE STORE FIXTURES

No. F36—This Combination of fixtures is arranged for LEFT hand side of store, as you enter the front, is 25 ft. 4⅜ in. long, 7 ft. 1½ in. high and composed of three Cabinet Units, three Base Units, and four finished End Panels, as follows: each★ $484.10

No. F202—Cabinet has three Sliding Glass Doors with ball-bearing sheaves sliding on an inlaid steel track; interior lined with rich colored felt and fitted with Brackets, Racks, Display Stands, etc., as shown in illustration★ each $83.50

No. F104—Base contains eight 7½x12 and four 7½x36 in. Oak Front Drawers, 28 in. deep★ .....each $68.85

No. F274—Cabinet contains thirty-two 5⅝x12, eight 5⅝x6, eight 5⅝x18 and eight 5⅝x24 Oak Front Drawers, all with loose partitions, each★ $104.15

No. F122—Base has four Oak Paneled Swing Doors with one shelf back of each opening★ .....each $57.90

No. F272—Cabinet contains sixty-four 5⅝x12 Oak Front Drawers with one loose partition in each, all interchangeable with each other and from one Cabinet to another, each★ $105.00

No. F136—Base contains twelve 15⅞x10½ open, slant bottom Nail Bins, 28 in. deep★ .....each $48.90

No. F372—Two finished Cabinet End Panels and **No. F370**—Two finished Base End Panels to finish exposed ends of this Combination★ .....each $3.70

Approximate weight of this Combination, complete, 2,785 lbs.

No. F38—This Combination of Fixtures is arranged for LEFT hand side of store as you enter the front, is 25 ft. 4⅜ in. long, 7 ft. 1½ in. high and composed of three Cabinet units, three Base units and four finished End Panels, as follows: each★ $457.90

No. F216—Cabinet has three Sliding Glass Doors with ball-bearing sheaves sliding on an inlaid steel track; interior lined with rich colored felt and fitted with tool, brackets, display stands, gun racks, etc., for goods as shown in illustration, each★ $78.70

No. F104—Base has fourteen Oak Front Drawers, 28 in. deep, as follows: eight 7½x12, two 7½x24 and four 7½x36★ .....each $68.85

No. F236—Cabinet contains twenty 5⅝x12, three 5⅝x6, three 5⅝x18 and three 5⅝x24 Oak Front Drawers, two ⅜ height Plain Swing Panels (without glass) with five adjustable shelves back of each with wrapping space at bottom; the Swing Panel Sample Boards are removable and covered with rich colored felt★ .....each $92.10

No. F118—Base has four Oak Paneled Doors, fitted with sheaves, sliding on an inlaid steel track; one shelf back of each opening, each★ $53.25

No. F266—Cabinet contains sixteen 5⅝x12 Oak Front Drawers, one Interchangeable Inset of eighteen 3⅛x3⅜ Oak Front Drawers, two 12x24 Drop Fronts (plain without glass) with removable Sample Boards covered with rich colored felt; six Plain Oak Sample Boards for lock sets; two Plain Swing Panels (without glass) with removable sample boards covered with felt; six adjustable shelves (13½ in. deep) back of each Swing Panel, each★ $101.30

No. F136—Base has twelve Open Slant-bottom Nail Bins, 15⅞x10½, 28 in. deep, with projecting ledge under bottom row of slide scale scoop under, preventing the scattering of nails★ .....each $48.90

No. F372—Two finished Cabinet End Panels and **No. F370**—Two finished Base End Panels to finish exposed ends of this Combination★ .....each $3.70

Approximate weight of this Combination, complete, 2,530 lbs.

These Combinations of Fixtures can be arranged for RIGHT side of store if desired, or additional Units added for greater length or height as desired

Write for complete catalogue and prices of Warren Standard "B" Hardware Store Fixtures.

★ **Items Marked Thus ★ Are Shipped From Factory Only.**

WARREN "ECONOMICAL" FIXTURES FOR AUTOMOTIVE ACCESSORIES

All Bases are 50⅝ in. long, 31½ in. high and 50 in. deep. All Cabinets are 50¼ in. long, 54 in high and 15¾ in. deep. The outside exposure is made of white oak; the interior construction of soft light wood, usually poplar.

All fixtures have a matched and beaded back of soft wood, which protects merchandise from damp walls or possible loss by being misplaced or falling down back of fixtures.

The regular finish is Mission Tavern Oak, and all fixtures will be furnished in this finish unless otherwise ordered. Unless otherwise desired, all Sample Boards will be covered and Sliding Glass Door Cabinets lined with rich green felt.

When ordering, use the catalogue numbers of the Combination or single units desired.

Advise on which side of store entering the front (right or left) fixtures will be placed, and send a list of catalogue numbers of the different units desired.

Advise the order the different units (Cabinets and Bases) will be placed in the store, i. e., which Base will be first, second, third, fourth, etc., and which Cabinet will be first, second, third, fourth, etc., from front of store.

Advise if fixtures will be used in conjunction with, joined to or used in any way with "Warren" or other fixtures.

Advise if the ends (front and rear) of the combination will be exposed and are to be finished.

No. 1246 No. 1230 No. 1210 No. 1276 No. 1306
No. 1106 No. 1108 No. 1118 No. 1130 No. 1144

No. F1044—This Combination of Fixtures is arranged for LEFT hand side of store as you enter the front, is 7 ft. 1½ in. high, 21 ft. 4½ in. long (including finished End Panels on both ends) and is composed of five Cabinet units, five Base units, two Cabinet and two Base Finished End Panels★.....each *$408.45*

No. F1246—This Cabinet has two Plain Swing Panels (without glass) each fitted with Sample Boards made of special stock to prevent warping and splitting and covered on the outside with rich green felt; six adjustable shelves back of each Swing Panel for goods in original packages★.....each *$54.40*

No. F1106—This Base contains six 7½x24 Oak Front Drawers, 28 in. deep from front to back, each furnished with one loose partition, each★.....*$38.15*

No. F1230—This Cabinet has two Plain Swing Panels (without glass) each fitted with Sample Boards and covered on the outside with rich green felt; five adjustable shelves back of each Swing Panel for goods in original packages; this Cabinet, when used with one of our regular Base units, forms a wrapping space on the ledge, 28 in. wide, 49 in. long, and 122 in. high★.....each *$41.95*

No. F1108—This Base contains twelve 7½x12 Oak Front Drawers, 28 in. deep from front to back, with one loose partition in each, each★.....*$43.25*

No. F1210—This Cabinet has two Sliding Glass Doors; the back is lined with rich green felt, the interior fitted with three shelves adjustable on sawed ratchet strips and shelf supports★.....each *$42.40*

No. F1118—This Base has two Oak Paneled Sliding Doors with one shelf back of each opening; the interior is finished to match the exterior, each★.....*$30.30*

No. F1276—This Cabinet contains thirty-two 5⅝x12 Oak Front Drawers; all drawers are furnished with pulls, card frames and cards, with one loose partition in each★.....each *$62.20*

No. F1130—This Open-Bin Base contains twelve 11⅜x7⅛ in. open flat bottom bins 28 in. deep; the back is closed and the whole interior finished to match the exterior★.....each *$32.55*

No. F1306—This Open Shelving Cabinet has a center suppor with nine adjustable shelves; the back is closed with matched lumber and the interior finished to match the exterior★.....each *$27.65*

No. F1144—This Open Shelving Base, made especially for heavy, bulky goods, has a center support and is furnished with two adjustable shelves 24 in wide, 27 in. deep from front to back; the back is closed with matched lumber; the interior finished to match the exterior★.....each *$29.80*

No. F1372—Two Cabinet End Panels and **No. F1370**—Two Base End Panels to finish the exposed ends of this Combination★.....each *$3.70*

Weight, 2,320 lbs.

This Combination can be arranged for RIGHT hand side of store, or additional units added for greater length or height, if desired.

★ **Items Marked Thus ★ Are Shipped From Factory Only.**

WARREN "ECONOMICAL" FIXTURES FOR AUTOMOTIVE ACCESSORIES

No. F1040—This Combination is arranged for RIGHT hand side of store as you enter the front, is 7 ft. 1½ in. high, 12 ft. 11½ in. long (including Finished End Panels on both ends) and composed of three Cabinet units, three Base units, two Cabinet and two Base Finished End Panels★ ....each *$268.15*

No. F1276—This Cabinet contains thirty-two 5⅛×6 and sixteen 5⅛×12 Oak Front Drawers; all drawers are furnished with pulls, card frames and cards, and one loose partition in each★ .....each *$62.20*

No. F1144—This Open Shelving Base, made especially for heavy, bulky goods, has a center support and is furnished with two adjustable shelves 24 in. wide, 27 in. deep from front to back; the back is closed with matched lumber and the interior finished to match the exterior, each★ *$29.80*

No. F1246—This Cabinet has two Plain Swing Panels (without glass) each fitted with Sample Boards made of special stock to prevent warping and splitting and covered on the outside with rich green felt; six adjustable shelves back of each Swing Panel for goods in original packages★ .....each *$45.40*

No. F1108—This Base contains twelve 7⅛×12 Oak Front Drawers, 28 in. deep from front to back and each furnished with one loose partition, each★ *$43.25*

No. F1210—This Cabinet has two Sliding Glass Doors; the back is lined with rich green felt, the interior fitted with three shelves, adjustable on sawed ratchet strips and shelf supports★ .....each *$42.40*

No. F1118—This Base has two Oak Paneled Sliding Doors; with one shelf back of each opening, each★ *$30.30*

No. F1372—Two Cabinet End Panels and **No. F1370**—Two Base End Panels to the exposed ends of this Combination, each★ *$3.70*

Approximate weight, packed for shipment, 1,505 lbs.

This Combination can be arranged for the LEFT hand side of store, or additional units added for greater length or height if desired.

No. F1306 Cabinet No. F1276 No. F1242 No. F1210
No. F1144 Base No. F1130 No. F1108 No. F1106

No. F1042—This Combination is arranged for RIGHT hand side of store as you enter the front, is 7 ft. 1½ in. high, 17 ft. 2 in. long (including finished End Panels for both ends) composed of four Cabinet units, four Base units, two Cabinet and two Base Finished End Panels★ ....each *$336.20*

No. F1306—This Open Shelving Cabinet has a center support with nine adjustable shelves; the back is closed with matched lumber and the interior finished to match the exterior★ .....each *$37.45*

No. F1144—This Open Shelving Base is made especially for heavy, bulky goods, has a center support and is furnished with two adjustable shelves 24 in. wide, 27 in. deep from front to back; the back is closed with matched lumber, the interior finished to match the exterior, each★ *$29.80*

No. F1276—This Cabinet contains thirty-two 5⅛×6 and sixteen 5⅛×12 Oak Front Drawers; all drawers are furnished with pulls, card frames and cards, with one loose partition in each★ .....each *$62.20*

No. F1130—This Open-Bin Base contains twelve 11⅜×7⅞ in. open flat bottom bins 28 in. deep; the back is closed and the whole interior finished to match the exterior, each★ *$32.55*

No. F1242—This Cabinet has two Plain Swing Panels (without glass) each fitted with Sample Boards made of special stock to prevent warping and splitting and covered on the outside with rich green felt; six adjustable shelves back of each Swing Panel for goods in original packages★ .....each *$45.40*

No. F1108—This Base contains twelve 7⅛×12 Oak Front Drawers, 28 in. deep from front to back, with one loose partition in each, each★ *$43.25*

No. F1210—This Cabinet has two Sliding Glass Doors; the back is lined with rich green felt, the interior fitted with three shelves, adjustable on sawed ratchet strips and shelf supports★ .....each *$42.40*

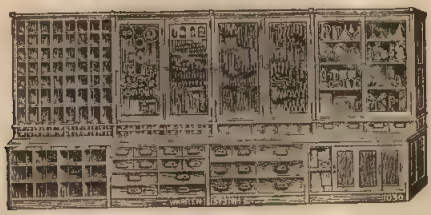
No. F1106—This Base contains six 7⅛×24 Oak Front Drawers 28 in. deep from front to back, each furnished with one loose partition★ .....each *$38.15*

No. F1372—Two Cabinet End Panels and **No. F1370**—Two Base End Panels to finish the exposed ends of this Combination★ .....each *$3.70*

Weight, 1,935 lbs.

★ Items Marked Thus ★ Are Shipped From Factory Only.

WARREN "ECONOMICAL" FIXTURES FOR AUTOMOTIVE ACCESSORIES



No. F1030—This Combination, arranged for RIGHT hand side of store, entering the front is 7 ft. 8¼ in. high, 17 ft. 2 in. long (including finished End Panels on both ends) and composed of four Cabinet units, four Sub-Cabinet units, four Base units, two Cabinet and two Base End Panels★ ..... each *$392.55*

No. F1302—Made especially for Ford and other small repair parts, loose goods in bulk, etc.; contains forty 6 1/16×5 1/16 and sixteen 8¼×5 1/16 in. Open Flat Bottom Bins, 15 in. deep, with card frames and cards attached★ ..... each *$44.60*

No. F1246—This Cabinet has two Plain Swing Panels (without glass) with Sample Boards, covered on the outside with rich green felt, six adjustable shelves back of each Swing Panel for retail stock in original packages★ ... each *$45.40*

No. F1242—This Cabinet has two Plain Swing Panels (without glass), Sample Boards covered on outside with rich green felt, six adjustable shelves back of each for retail stock in original packages, each★ *$45.40*

No. F1210—This Cabinet has two Sliding Glass Doors, back lined with rich green or red felt and furnished with three adjustable shelves as shown in illustration★ ..... each *$42.40*

No. F1324—Contains twenty-four 2⅞×4 in. Oak Front Drawers, each with one loose partition, card frames and cards attached, each★ *$16.56*

No. F1322—Contains sixteen 2⅞×6 in. Oak Front Drawers, each with one loose partition, card frames and cards attached, each★ *$14.65*

No. F1326—Contains eight 5⅝×6 in. Oak Front Drawers, each with one loose partition, card frames and cards attached, each★ *$10.40*

No. F1328—Contains four 5⅝×12 in. Oak Front Drawers, each with one loose partition, card frames and cards attached, each★ *$9.10*

No. F1130—Contains twelve 7⅛×11 3/16 in. Open Flat Bottom Bins, 28 in. deep, with card frames and cards attached★ .... each *$32.55*

No. F1116—Contains four 5⅝×24 in. and eight 5⅝×12 in. Oak Front Drawers, one loose partition in each, each★ *$44.50*

No. F1110—Contains three 7⅛×24 in. and six 7⅛×12 in. Oak Front Drawers, with one loose partition in each, each★ *$40.70*

No. F1118—This Base has two Oak Paneled Sliding Doors, with one shelf back of each opening, each★ *$30.3*

No. F1372—Cabinet End Panels★ ..... each *$3.70*

No. F1372-½H—Sub-Cabinet End Panels★ ..... each *.80*

No. F1370—Base End Panels★ ..... each *3.70*

End Panels to finish the exposed ends of this Combination. Weight, 2,235 lbs.

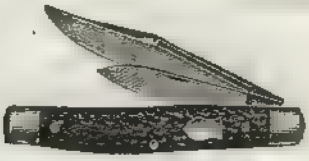
★ Items Marked Thus ★ Are Shipped From Factory Only.

HIBBARD POCKET KNIVES

FULLY GUARANTEED TO GIVE PERFECT SATISFACTION

Made by American workmen. Blades are finest quality Crucible Steel, TEMPERED BY A NEW METHOD WHICH INSURES A UNIFORM AND LASTING EDGE. Sharpened ready for use. In whetting, hold at an angle of 18 degrees on an OIL STONE, not a grindstone.

WE ETCH YOUR NAME, FREE OF CHARGE, ON THESE KNIVES WHEN REQUESTED

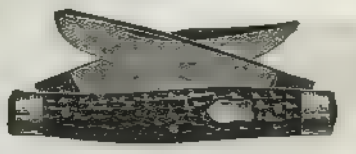


No. 2549P

Two blades, **stag** handles, brass linings, nickel silver bolsters and shields.

No. 2676—Hibbard, 3¼ in. closed .....per dozen $16.00
No. 2549P—Hibbard, 3¼ in. closed .....per dozen 15.00

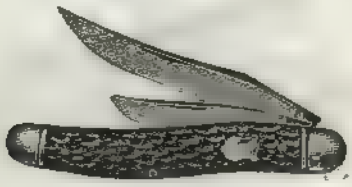
HALF DOZEN IN A BOX



STOCK KNIFE

No. 2668P—Hibbard, 2 blades, (one long clip and one long spey) **stag** handle, brass lined, nickel silver bolsters and shield, 3¼ **in.** closed .....per dozen $19.00

HALF DOZEN IN A BOX



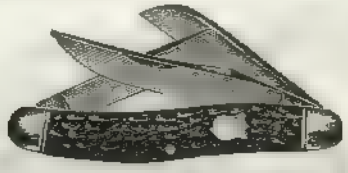
No. 2695P

STOCK KNIVES

Two blades, **stag** handles, brass linings, nickel silver bolsters and shields, length closed 4 inches.

No. 2695P—Hibbard, long **clip** and **spey** blades, per dozen $18.00
No. 2701P—Hibbard, long **clip** and **pen** blade, per dozen $18.00

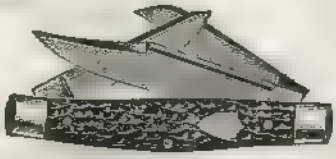
HALF DOZEN IN A BOX



STOCK KNIFE

No. 2698P—Hibbard, 3 blades, **stag** handle, brass lined, nickel silver bolsters and shield, 4 **in.,** closed, per dozen $24.00

HALF DOZEN IN A BOX

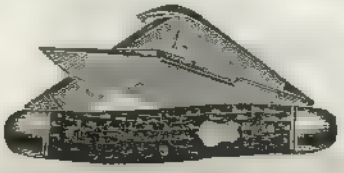


No. 2699P

STOCK KNIVES

Three blades, **stag** handles, brass linings, nickel silver bolsters and shields.

No. 2699P—Hibbard, length closed 3¾ **in.,** clip, spey and sheep foot blades, **smooth** bolsters, per dozen $21.00



No. 1722P

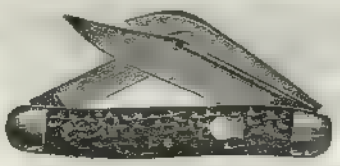
STOCK KNIVES

Three blades, **stag** handles, brass linings, nickel silver bolsters and shields, length closed 4 inches.

No. 1722P—Hibbard, clip, spey and **sheep foot** blades, per dozen $28.00

No. 1745P—Hibbard, spear, spey and **sheep foot** blades $27.00

HALF DOZEN IN A BOX



No. 1565P

STOCK KNIVES

Three blades, brass linings, length closed 3⅜ inches.

No. 1498P—Hibbard, Colored onyx celluloid handle, nickel silver shields .....per dozen $26.00

No. 1564P—Hibbard, shell celluloid handle, nickel silver shield .....per dozen $26.00

No. 1565P—Hibbard, stag handle, nickel silver shield, per dozen $25.50

No. 1566P—Hibbard, pearl handle without shield, per dozen $51.00

HALF DOZEN IN A BOX

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HIBBARD POCKET KNIVES

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WE ETCH YOUR NAME, FREE OF CHARGE, ON THESE KNIVES WHEN REQUESTED

No. 2651P.

STOCK KNIVES

Three blades, brass linings, nickel silver bolsters and shields, length closed 3⅞ inches.

No. 2651P—Hibbard, stag, handle ....per dozen $22.50
No. 2655P—Hibbard, smoked pearl celluloid handle, per dozen $24.00
No. 2607P—Hibbard, genuine African buffalo horn, handle .....per dozen $31.50

HALF DOZEN IN A BOX

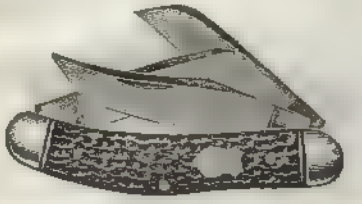
No. 1718P.

STOCK KNIVES

Stag handles, brass linings, nickel silver bolsters and shields, length closed 3⅝ inches.

No. 1718P—Hibbard, 3 blades .....per dozen $32.00
No. 1719P—Hibbard, 2 blades (one long clip and one long spey) .....per dozen $23.50

HALF DOZEN IN A BOX



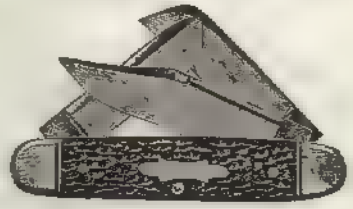
No. 2698P.

STOCK KNIVES

Three blades, **stag** handles, brass lining, nickel silver bolsters and shields.

No. 2696P—Hibbard, length closed **3¾ in.,** per dozen $27.00
No. 1743P—Hibbard, length closed **3½ in.,** per dozen $29.00

HALF DOZEN IN A BOX



CATTLE KNIFE

No. 1727P—Hibbard, 3 blades, **stag** handle, brass lined, nickel silver bolsters and shield, 3⅝ in. closed, per dozen $27.00

HALF DOZEN IN A BOX

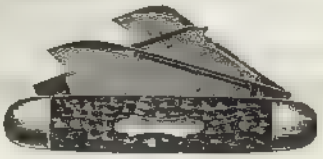
No. 2606P.

CATTLE KNIVES

Three blades, brass linings, nickel silver bolsters and shields, length closed 3⅝ inches.

No. 2606P—Hibbard, genuine African buffalo horn handle .....per dozen $30.00
No. 2654½P—Hibbard, smoked pearl celluloid handle, per dozen $24.00
No. 2684P—Hibbard stag handle ....per dozen $21.50

HALF DOZEN IN A BOX



No. 1708P.

CATTLE KNIVES

Three blades, brass linings, nickel silver bolsters and shields, length closed 3⅝ inches.

No. 1708P—Hibbard, stag handle, spear, spey and sheep foot blades .....per dozen $21.50
No. 1707½P—Hibbard, smoked pearl celluloid handle, clip, spear, spey and sheep foot blades, per dozen $23.00
No. 1708½P—Hibbard, stag handle, spear, spey and **pen** blades .....per dozen $21.00
No. 1707½P—Hibbard, smoked pearl celluloid handle, spear, spey and **pen** blade .....per dozen $23.00

HALF DOZEN IN A BOX

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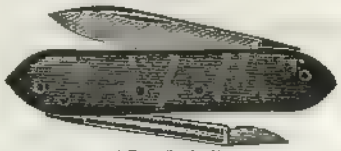
OFFICE KNIFE

No. 2574½P—Hibbard, 2 blades, **ivory celluloid** handle, brass lined, 3¾ **in.** closed .....per dozen **$15.00**

HALF DOZEN IN A BOX



No. 2605P

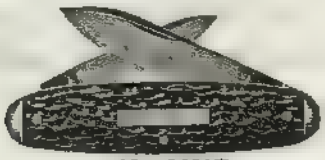
Two blades including finger nail blade. Thin, **flat** pattern, length closed 3 inches.

No. 2605P—Hibbard, shell celluloid handle, per dozen **$14.00**

No. 2718P—Hibbard, gray onyx celluloid handle **with nickel silver shackle for watch chain.** per dozen **$15.50**

No. 2719P—Hibbard, imitation pearl celluloid handle **without shackle** for watch chain ....per dozen **$15.50**

HALF DOZEN IN A BOX



No. 2689P

Two blades, brass linings, nickel silver tips and shield, length closed 3⅛ inches.

No. 2689P—Hibbard, stag handle ....per dozen **$15.50**

No. 2690P—Hibbard, smoked pearl celluloid handle, per dozen **$15.50**

HALF DOZEN IN A BOX

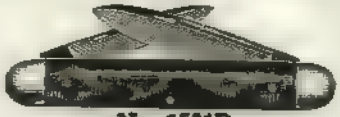
No. 2635P

Two blades, brass linings, large nickel silver saw screw rivets, length closed 3¾ inches.

No. 2635P—Hibbard, stag handle, with nickel silver shield .....per dozen **$15.00**

No. 2636P—Hibbard, ivory celluloid handle **without** nickel silver shield .....per dozen **$16.00**

HALF DOZEN IN A BOX



No. 1531P

Two blades, brass linings, nickel silver bolsters.

No. 1497P—Hibbard, 2 blades, **colored onyx celluloid** handle, 3⅜ **in.** closed .....per dozen **$17.00**

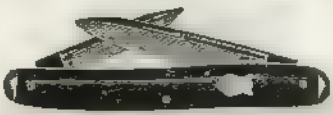
No. 1531P—Hibbard, shell celluloid handle, 3½ **in.** closed .....per dozen **$17.00**

No. 1583P—Hibbard, smoked pearl celluloid handle, 2¾ **in.** closed .....per dozen **$15.50**

No. 1584P—Hibbard, smoked pearl celluloid handle, 2¾ **in.** closed .....per dozen **$21.00**

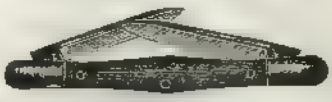
No. 1587P—Hibbard, 2 blades, **smoked pearl celluloid** handle, brass lined, 2¾ **in.** closed .....per dozen **$15.50**

HALF DOZEN IN A BOX



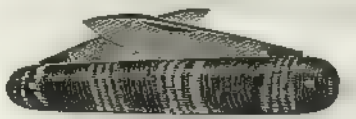
No. 1563P—Hibbard, 2 blades, **ebony celluloid** handle, brass lined, nickel silver tips and shield, 3 **in.** closed, per dozen **$17.00**

HALF DOZEN IN A BOX



No. 1585P—Hibbard, 2 blades, **smoked pearl celluloid** handle, brass lined, nickel silver bolsters, 2¾ **in.** closed, per dozen **$15.50**

HALF DOZEN IN A BOX



No. 2633P

Two blades, brass linings, length closed 3¾ inches.

No. 2633P—Hibbard, gray horn celluloid handle, per dozen **$14.00**

No. 2637P—Hibbard, stag handle .....per dozen **$12.00**

No. 2638P—Hibbard, ivory celluloid handle, per dozen **$12.00**

No. 2639P—Hibbard, shell celluloid handle, per dozen **$12.00**

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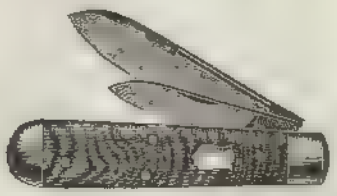
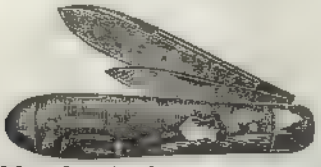
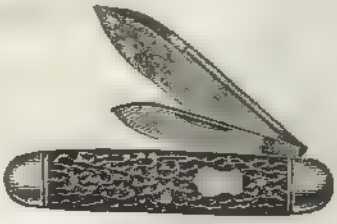


No. 2632P—Hibbard, 2 blades, **gray onyx celluloid** handle, brass lined, nickel silver bolsters and shield, **3¼ in.** closed .....per dozen **$15.50**
HALF DOZEN IN A BOX



No. 1481P—Hibbard, 2 blades, **striped onyx celluloid** handle, brass lined, nickel silver bolsters and shield, **3⅜ in.** closed .....per dozen **$19.00**
HALF DOZEN IN A BOX

No. 2700P—Hibbard, 2 blades, **cocobola** handle, brass lined, fitted with 20 in. nickel plated chain, nickel silver bolsters and shield, **3¼ in.** closed .....per dozen **$12.00**
HALF DOZEN IN A BOX

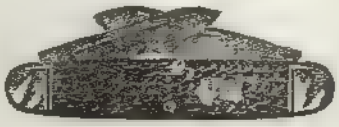


No. 1729P.

Two blades, nickel silver shields, length closed 3½ inches.
No. 1729P—Hibbard, stag handle, **brass** lined, large **spear** blade, **nickel silver** bolsters ..per dozen **$16.00**
No. 1730P—Hibbard, stag handle, brass lined, large **clip** blade, **nickel silver** bolsters .....per dozen **$16.00**
HALF DOZEN IN A BOX

No. 1728P.

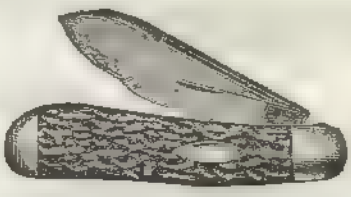
Two blades, **stag** handles, brass linings, nickel silver bolsters and shields.
No. 1728P—Hibbard, length closed 3⅜ **in.,** per dozen **$19.50**
No. 1732P—Hibbard, length closed 3¼ **in.,** per dozen **$18.00**
HALF DOZEN IN A BOX



No. 1733P.

Two blades, **stag** handles, brass linings, nickel silver bolsters and shields.
No. 1733—Hibbard, length closed 3¼ **in.,** per dozen **$18.00**
HALF DOZEN IN A BOX

No. 1717P—Hibbard, 2 blades, **stag** handle, brass lined, nickel silver bolsters and shield, 4¼ **in.** closed, per dozen **$26.00**
HALF DOZEN IN A BOX



No. 2687P—Hibbard, 2 blades, **stag** handle, brass lined, nickel silver bolsters and shield, 3½ **in.** closed. per dozen **$16.00**
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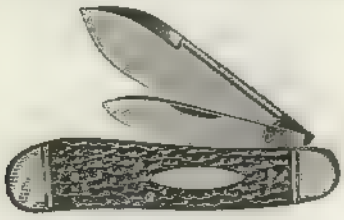
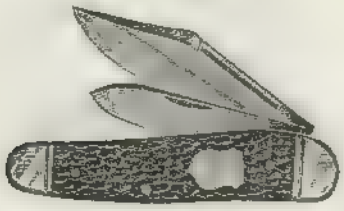


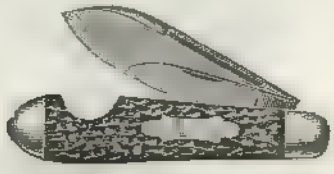
No. 1734P—Hibbard, 2 blades, **stag** handles, brass lined, nickel s 'ver bolsters and shield, 3½ **in.** closed, per dozen $21.00

HALF DOZEN IN A BOX



No. 1735P—Hibbard, 2 blades, large blade **heavy** sabre pattern, **stag** handle, brass lined, nickel silver bolsters and shield, 3½ **in.** closed .....per dozen **$21.50**

HALF DOZEN IN A BOX



Nos. 2545P, 2685P and 2757P

EASY OPENERS

Two blades, length closed 3⅝ inches.

No. 2544P—Hibbard, cocobola handle, **brass** lined, steel bolster, **nickel silver** shield ....per dozen **$16.00**

No. 2545P—Hibbard, stag handle, **brass** lined, **steel** bolsters, **nickel silver** shield .....per dozen **$16.00**

No. 2544½P—Hibbard, cocobola handle, **iron** lined, **steel** bolsters, **no shield** .....per dozen **$15.00**

No. 2685P—Hibbard, stag handle, **brass** lined, **nickel silver** bolsters and shield .....per dozen **$16.00**

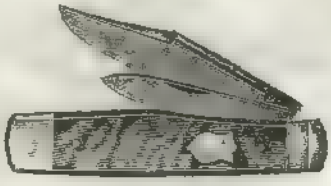
No. 2686P—Hibbard, cocobola handle, **brass** lined, nickel silver bolsters and shield . ....per dozen **$16.00**

HALF DOZEN IN A BOX

EASY OPENER

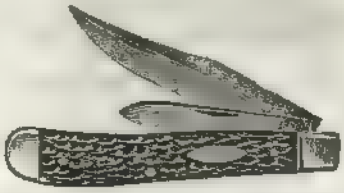
No. 1721P—Hibbard, 2 blades, **stag** handle, brass lined, nickel silver bolsters and shield, 3⅜ **in.** closed, per dozen **$18.00**

HALF DOZEN IN A BOX



No. 2611P—Hibbard, 2 blades, genuine **African buffalo horn** handle, brass lined, nickel silver bolsters and shield, 3⅝ **in.** closed .....per dozen **$21.50**

HALF DOZEN IN A BOX



No. 1723P—Hibbard, 2 blades, **stag** handle, brass lined, nickel silver bolsters and shield, 3⅞ **in.** closed, per dozen **$24.00**

HALF DOZEN IN A BOX

No. 2622P

Two blades, **stag** handles, brass linings, **steel bolsters** and shields, length closed 4¼ inches.

No. 2621P—Hibbard, large **spear** blade, per dozen **$18.00**

No. 2622P—Hibbard, large **clip** blade, per dozen **18.00**

HALF DOZEN IN A BOX

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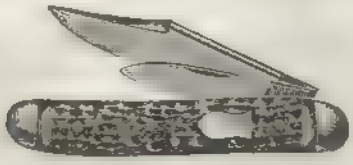
Made by American workmen. Blades are finest quality Crucible Steel, TEMPERED BY A NEW METHOD WHICH INSURES A UNIFORM AND LASTING EDGE. Sharpened ready for use. In whetting, hold at an angle of 18 degrees on an OIL STONE, not a grindstone.

WE ETCH YOUR NAME, FREE OF CHARGE, ON THESE KNIVES WHEN REQUESTED

No. 2649P—Hibbard, 2 blades, **stag** handle, brass lined, nickel silver bolsters and shield, 4¼ **in.** closed, per dozen $19.00

HALF DOZEN IN A BOX



No. 2583P.

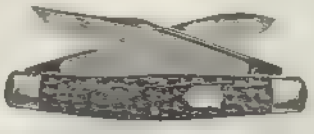
Two blades, brass linings, steel bolsters and shields, length closed 3¾ inches.

No. 2581P—Hibbard, ebony handle ...per dozen $15.00
No. 2582P—Hibbard, cocobola handle, per dozen 15.00
No. 2583P—Hibbard, stag, handle ....per dozen 15.00

HALF DOZEN IN A BOX

No. 2675P—Hibbard, 2 blades, **stag** handle, brass lined, nickel silver bolsters and shield, 3⅞ **in.** closed, per dozen $15.00

HALF DOZEN IN A BOX

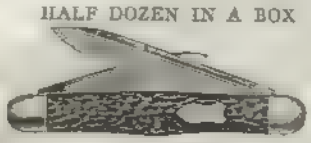


No. 2646P.

Two blades, **stag** handles, brass linings, nickel silver bolsters and shield.

No. 2646P—Hibbard, length closed 3¼ **in.,** per dozen $16.00

HALF DOZEN IN A BOX



No. 2592P.

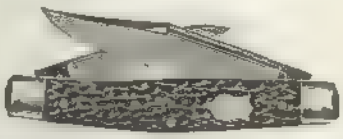
Two blades, **stag** handles, brass linings, nickel silver bolsters and shield, length closed 3¾ inches.

No. 2592P—Hibbard, large **spear** blade, per dozen $15.50
No. 2593P—Hibbard, large **clip** blade, per dozen 15.50

HALF DOZEN IN A BOX

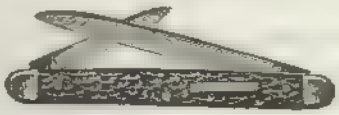
No. 2576P—Hibbard, 2 blades, **stag** handle, brass lined, nickel silver bolsters and shield, 3¾ **in.** closed, per dozen $15.50

HALF DOZEN IN A BOX



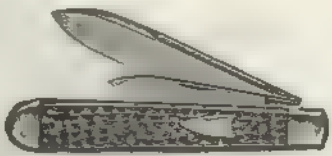
No. 2591P—Hibbard, 2 blades, **stag** handle, brass lined, nickel silver bolsters and shield, 3⅝ **in.** closed, per dozen $15.50

HALF DOZEN IN A BOX



No. 2693P—Hibbard, 2 blades, **stag** handle, brass lined, nickel silver bolsters and shield, 3⅝ **in.** closed, per dozen $15.50

HALF DOZEN IN A BOX



No. 2558P—Hibbard, 2 blades, **stag** handle, brass lined, nickel silver bolsters and shield, 3¼ **in.** closed, per dozen $15.00

HALF DOZEN IN A BOX

No. 1477P—Hibbard, 2 blades, **olive agate celluloid** handle, brass lined, nickel silver bolsters and shield, 3¼ **in.** closed .....per dozen $17.00

HALF DOZEN IN A BOX

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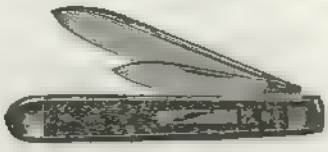
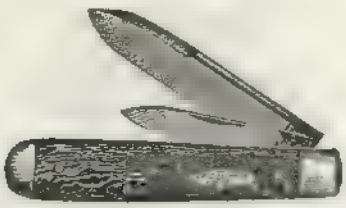


No. 1480P—Hibbard, 2 blades, **iris celluloid** handle, brass lined, nickel silver bolsters and shield, **3¼ in.,** closed .....per dozen **$17.00**

HALF DOZEN IN A BOX



No. 1486P.

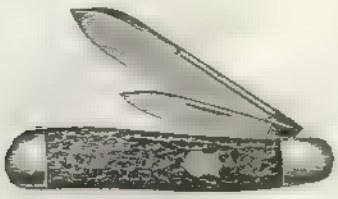
Two blades, brass linings, nickel silver bolsters and shields, length closed 3⅜ inches.

No. 1484P—Hibbard, ebony celluloid handle, per dozen **$17.00**

No. 1485P—Hibbard, shell celluloid handle, per dozen **$17.00**

No. 1486P—Hibbard, mottled onyx celluloid handle, per dozen **$17.00**

HALF DOZEN IN A BOX



No. 1482P.

Two blades, brass linings, nickel silver bolsters and shields, length closed 3 inches.

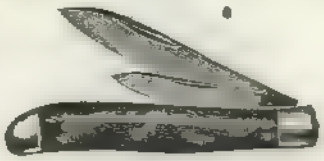
No. 1482P—Hibbard, stag handle .....per dozen **$16.50**

No. 1483P—Hibbard, gray horn celluloid handle, per dozen **$17.00**

No. 1522P—Hibbard, shell celluloid handle, per dozen **$17.00**

No. 1522½P—Hibbard, ebony celluloid handle, per dozen **$17.00**

HALF DOZEN IN A BOX



No. 1518P.

Two blades, brass linings, nickel silver bolsters.

No. 1518P—Hibbard, shell celluloid handle, **2¼ in.** closed .....per dozen **$16.50**

No. 1495P—Hibbard, green onyx celluloid handle, **3¼ in.** closed .....per dozen **$17.00**

HALF DOZEN IN A BOX

No. 2634P.

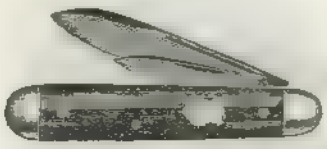
Two blades, brass linings, nickel silver bolsters and shields, length closed 3 inches.

No. 2630P—Hibbard, cocobola handle, per dozen **$14.00**

No. 2631P—Hibbard, shell celluloid handle, per dozen **$15.50**

No. 2634P—Hibbard, gray horn celluloid handle, per dozen **$15.50**

HALF DOZEN IN A BOX



No. 1537P—Hibbard, 2 blades, **ebony celluloid** handle, brass lined, nickel silver bolsters and shield, **3¾ in.** closed .....per dozen **$17.00**

HALF DOZEN IN A BOX

H.S.B. & CO. REV-O-NOC

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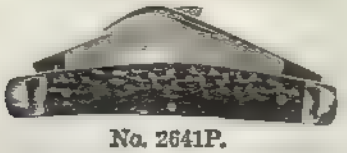
No. 1479P—Hibbard, 2 blades, **gold shell celluloid** handle, brass lined, nickel silver bolsters and shield, 3¼ **in.** closed .....per dozen $18.50

HALF DOZEN IN A BOX

No. 2691P—Hibbard, 2 blades, **stag** handle, brass lined, nickel silver bolsters and shield, 3¼ **in.** closed, per dozen $15.00

HALF DOZEN IN A BOX



No. 2641P.

Two blades, **stag** handles, brass linings, steel bolsters.

No. 2761P—Hibbard, length closed 3¼ **in.** plain, **no shield,** smooth bolsters .....per dozen $12.00

No. 2642P—Hibbard, length closed 3¼ **in.,** with nickel silver shield .....per dozen $15.50

No. 2641P—Hibbard, length closed 4¼ **in., shield,** per dozen $15.50

HALF DOZEN IN A BOX

No. 2679P—Hibbard, 2 blades, **stag** handle, brass lining, steel bolsters, nickel silver shield, 3¼ **in.** closed, per dozen $14.00

HALF DOZEN IN A BOX

No. 1475P.

Three blades, brass linings, nickel silver bolsters and shields, length closed 3⅝ inches.

No. 1475P—Hibbard, mottled onyx celluloid handle, per dozen $27.00

No. 1493P—Hibbard, colored onyx celluloid handle, per dozen $27.00

No. 1542P—Hibbard, stag handle .....per dozen $27.00

No. 1543P—Hibbard, shell celluloid handle, per dozen $27.00

No. 1544P—Hibbard, pearl, handle ... per dozen $45.50

No. 1544¼P—Hibbard, smoked pearl celluloid handle, per dozen $27.00

No. 1739P—Hibbard, stag handle, 3⅝ **in.** closed, per dozen $28 00

HALF DOZEN IN A BOX

No. 2683P—Hibbard, 3 blades, **stag** handle, brass lined, nickel silver bolsters and shield, 3⅝ **in.** closed, per dozen $21.50

HALF DOZEN IN A BOX

No. 1489P—Hibbard, 3 blades, **mottled onyx celluloid** handle, brass lined, nickel silver bolsters and shield, 3 **in.** closed .....per dozen $25.00

HALF DOZEN IN A BOX

No. 2661P.

Three blades, brass linings, nickel silver bolsters and shields, length closed 3⅝ inches.

No. 2661P—Hibbard, stag handle .....per dozen $21.00

No. 2663P—Hibbard, smoked pearl celluloid handle, per dozen $22.50

HALF DOZEN IN A BOX

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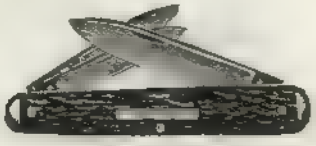
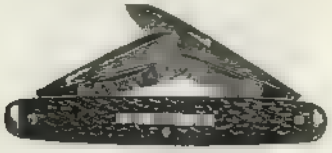


No. 2665P—Hibbard, 3 blades, **stag** handle, brass lined, nickel silver bolsters and shield, 3¾ **in.** closed, per dozen $21.50

HALF DOZEN IN A BOX

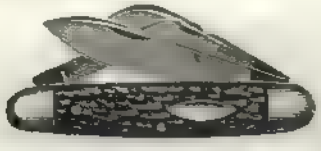
No. 2702P—Hibbard 3 blades, including finger nail blade, **pearl** handle, brass lined, nickel silver bolsters, **3 in.** closed .....per dozen $27.00

HALF DOZEN IN A BOX



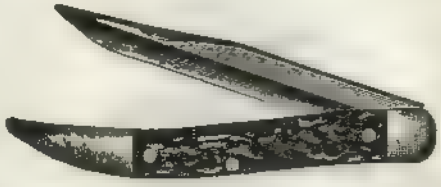
No. 2652P—Hibbard, 4 blades, including finger nail blade, **stag** handle, brass lined, nickel silver bolsters and shield, 3¾ **in.** closed .....per dozen $22.50

HALF DOZEN IN A BOX



No. 2640P—Hibbard, 3 blades, **stag** handle, brass liner, nickel silver bolsters and shield, 3¾ **in.** closed, per dozen $20.50

HALF DOZEN IN A BOX



An ideal carpenters' and sportsman's knife. Handle is large and has a comfortable grip.

No. 1765P—Hibbard, "Chaser,", 1 clip point, 4 **in. blade** or heavy gauge Wardlow's crucible steel, **stag** handle, brass lined, 5 in. when closed, w't per doz. 2¾ lbs., per dozen $18.00

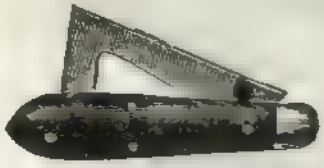
HALF DOZEN IN A BOX

LOCK BACK HUNTERS' KNIFE

When the blade is opened it is automatically locked so that it will not close unless the lock at the back is released by pressing with the thumb.

No. 2595P—Hibbard, 1 blade **stag** handle, iron lined, 4⅝ **in.** closed .....per dozen $24.00

HALF DOZEN IN A BOX



TIMBER SCRIBE

No. 2765P—Hibbard, 1 blade, **cocobola** handle, iron lined, steel bolster, 3¾ **in.** closed .....per dozen $11.00

HALF DOZEN IN A BOX

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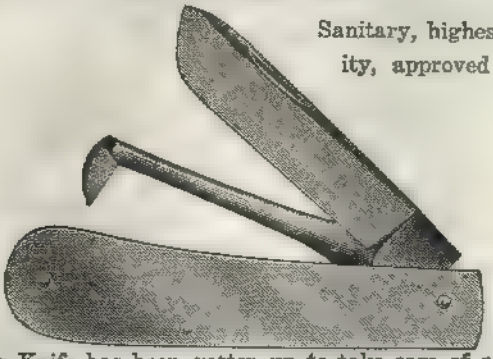
WE ETCH YOUR NAME, FREE OF CHARGE, ON THESE KNIVES WHEN REQUESTED

NICKEL SILVER HANDLE VETERINARY AND CASTRATING KNIFE

Sanitary, highest quality, approved shape.



This Knife has been gotten up to take care of an ever-increasing demand for a knife of this kind, originating not only from the Professional Veterinarian but also from the Farmer and Stockman who himself prefers to perform operations on his live stock.

On account of the handle being made of nickel silver the knife can be freely immersed in boiling water to be sterilized, the handle will not crack or absorb dirt, thereby making this knife **Absolutely Sanitary.**

The shape is of the most approved pattern and comfortably fits the hand. The speying and hook blade are made of the finest Wardlows' English Crucible Cutlery Steel, properly tempered, ground and whetted to a very keen and lasting edge. Every knife is unconditionally warranted.

No. 2541½P—1 large speying blade and 1 hook blade, nickel silver handle, length 3½ in. when closed, per dozen **$24.00**

HALF DOZEN IN A BOX

NICKEL SILVER HANDLE SPEYING KNIFE

Sanitary, highest quality, approved shape.

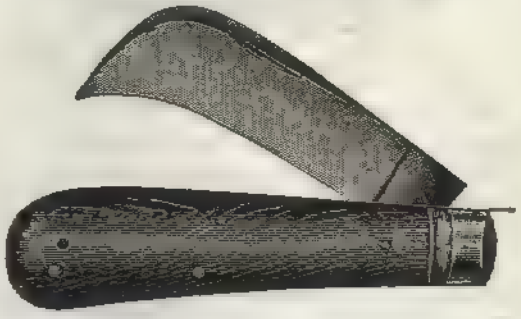
The result of an ever-increasing demand for a pocket knife of this kind.

Perfectly sanitary, can be immersed in boiling water to be sterilized. The shape is of the most approved pattern and properly fits the hand. The Speying blade is made of the finest Wardlow's English Crucible Cutlery Steel, tempered, ground and whetted to a firm and lasting edge. Every knife is unconditionally warranted.

No. 104½—1 large Speying blade, handsomely etched **speying,** nickel silver handle, length 3½ in. when closed, per dozen **$10.50**

HALF DOZEN IN A BOX

PRUNING, KAFFIR CORN, MAIZE, LINOLEUM AND ROOFING KNIFE COMBINED IN ONE



Most desirable shape for pruning and trimming shrubbery, trees, etc., for cutting Kaffir Corn and Maize, also for cutting Linoleum, Roofing, Rubber, etc.

The blade is of a very heavy gauge, and is made of the finest Wardlows' English Crucible Cutlery Steel, tempered ground and whetted to keen and lasting cutting edge.

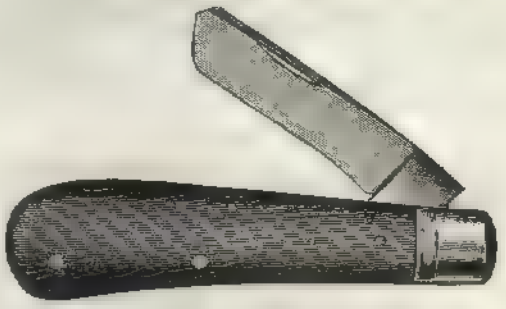
The handle is of the finest South American Cocobola, steel lined, and has hole through end for attaching to chain or rope.

Each knife is unconditionally warranted.

No. 4507P—1 large, length 4 in. when closed, per dozen **$14.00**

HALF DOZEN IN A BOX

SPECIAL PATTERN MAIZE KNIFE



Specially designed for cutting Maize, but can also be used for speying or budding. Made from Wardlow's finest crucible cutlery steel, tempered, ground and whetted to a firm and lasting edge. Fully warranted.

No. 1845P—1 large blade, genuine cocobola handle, iron lined, length 4 in. when closed ..... per dozen **$15.00**

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JOHN I. THORNYCROFT AND CO., LIMITED,

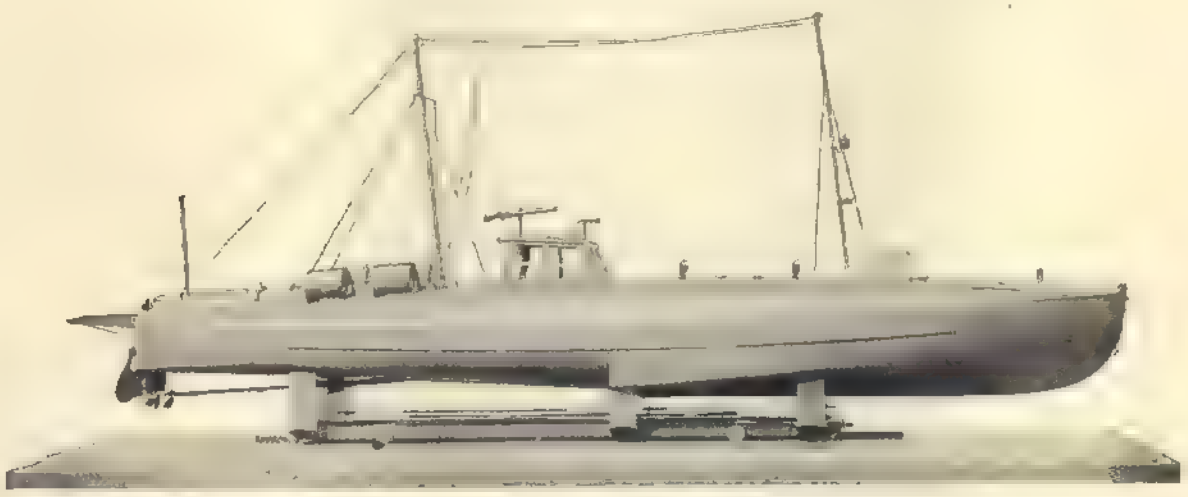
SHIPBUILDERS & ENGINEERS.

INGENIEURS ET CONSTRUCTEURS NAVALS. INGENIEROS Y CONSTRUCTORES DE BUQUES.

Constructors of Motor Boats of all types and sizes for River or Ocean cruising, at speeds up to 40 knots.

Construction de canots automobiles de tous types et toutes tailles pour la navigation fluviale et pour haute mer, et possédant des vitesses atteignant jusqu'à 40 nœuds.

Constructores de botes automóviles de todos tipos y todos tamaños para navegación fluvial ó alta mar, a velocidades hasta 40 nudos.



Model of 55 ft. Motor Boat of which we supplied large numbers to the British Admiralty for war service.

The fastest boats in the world.

Modèle de canot automobile de 16,70 m de longueur, dont nous avons fourni de grandes quantités à l'Amirauté Britannique pour service de guerre.

Les canots automobiles les plus rapides du monde.

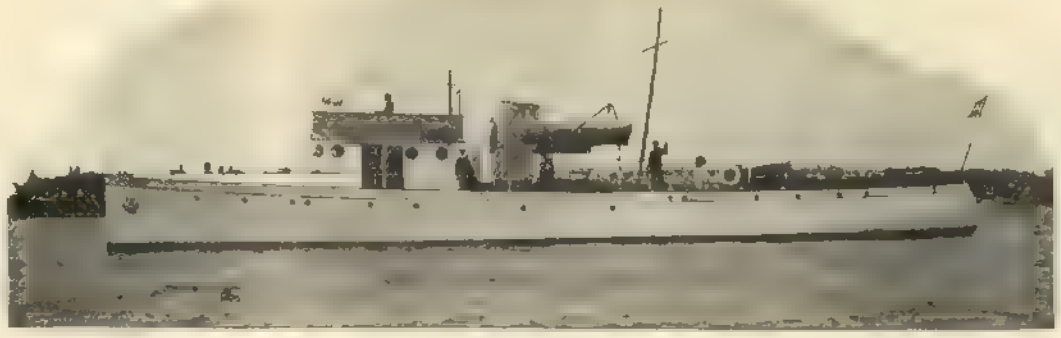
Modelo de bote automóvil de eslora de 16,70 m. del cual hemos suministrado un gran número al Almirantazgo Británico para servicio de guerra.

Los botes más rapidos en el mundo entero.

THORNYCROFT

MOTOR YACHTS.

Yachts Automobiles "THORNYCROFT." Yates de Motor "THORNYCROFT."



Twin Screw Motor Yacht. (AC)

Length, 100 ft. 3 ins.;	**Breadth, 15 ft. 0 in.;**	**Depth, 8 ft. 0 in.;**
Draught, 4 ft. 10 in. extreme;	**Speed, 13½ knots;**	**B.H.P., 300.**

THE Cabin Work is fitted out in first-class style and comprises two Owner's State Cabins, Maid's Cabin, Saloon, Pantry, Bath and W.C. under deck aft. Three Officers' Cabins, together with Mess Room, Galley and W.C. and Crew Space are arranged forward. The Deckhouse contains a good Wheelhouse, State Cabin and Officers' Entrance, and has the Navigating Bridge arranged on top of it. Hand and Electric Steering Gear and Capstan are fitted. Electric Light and Power are obtained from a Thornycroft Lighting Set. The two Propelling Motors are Thornycroft S 6 type. Large Fuel Tanks are provided for a wide cruising radius.

Yacht automobile à double hélice.

Longueur, 31,40 m.;	*Largeur, 4,50 m.;*	*Profondeur, 2,45 m.;*
Tirant d'eau extrême, 1,50 m.;	*Vitesse, 13¾ nœuds;*	*Chevaux au frein, 300.*

LE style de l'aménagement des cabines est de tout premier ordre; celles-ci comprennent: 2 cabines de luxe pour les armateurs, cabine pour femme de chambre salon office, bain et W.C. sous le pont d'arrière. Trois cabines d'officiers, ainsi qu'une salle de mess à la cuisine W.C. et logement pour l'équipage, sont aménagées à l'avant. La timonerie contient une bonne timonerie, une cabine de luxe et l'entrée des officiers; la passerelle de direction est installée au-dessus. Les appareils à main et électriques contrôlent le mécanisme de gouvernail et le cabestan. L'éclairage électrique et la force motrice sont fournis par un groupe électrogène d'éclairage Thornycroft. Les deux moteurs actionnant les hélices sont du type S/6 Thornycroft. De vastes soutes à combustible sont prévues pour les besoins d'une croisière au long cours.

Yate de motor de doble hélice.

Eslora, 31 40 m.;	Manga, 4.50 m.;	Puntal, 2,45 m.;
Calado extremo, 1,50 m.;	Velocidad, 13¾ nudos;	B H.P., 300.

LA instalación, de los camarotes ha sido realizada de una manera y estilo perfecto, y comprende dos camarotes de lujo para el propietario, camarote para criada salón despensa baño y W.C. debajo de la cubierta de popa. Hay tres camarotes para oficiales comedor cocina y W.C. y alojamiento para la tripulación todos dispuestos en la parte de proa. El puente comprende una buena cámara de gobierno camarote de lujo y entrada para oficiales siendo el puente de navegación dispuesto encima de ello. Van provistos aparejo de gobierno y cabrestante a mano y eléctrico. El alumbrado eléctrico y fuerza motriz se obtienen por medio de un juego Thornycroft para alumbrado. Los dos motores propulsores son del tipo S/6 "Thornycroft." Se proveen grandes tanques de combustible para permitir un amplio radio de viajar.

THORNYCROFT
MOTOR BOATS

STEAM YACHTS.

Yachts à Vapeur "Thornycroft." Yates de Vapor "Thornycroft."

Single Screw Steam Yacht. (SF)

Length overall, 135 ft.
147 tons Yacht measurement.
Speed, 11¼ knots.

Breadth, 16 ft. 6 in.
Class 100 A. 1. Lloyd's Yacht Class.

Depth, 11 ft. 3 in.
Draught extreme, 9 ft. 5 in.
I.H.P. 325.

THE accommodation is tastefully furnished and consists of 4 State Rooms, Drawing Room, Dining Saloon, Smoke Room on Deck, 2 Baths with Hot and Cold Water Supply, 2 W.C.'s, Pantry and Stewards' Rooms, Cabins for Valet, Captain, Engineer and Mate, Crew space in forecastle and galley on deck. Electric light and steam heating are fitted throughout. Steam Steering Gear and Windlass. A Motor Boat and Dinghy are carried. Single Screw Triple expansion surface condensing engines with cylinders 9 in., 15 in. and 25 in. diameter by 18 in. stroke are fitted. The Boiler is 9 ft. 7 in. diameter and 8 ft. 9 in. long. Working pressure 180 lbs. Bunker capacity 28 tons.

Yacht à Vapeur à l'Hélice.

Longueur totale, 41,10 m.
Jaugeage de yacht de 147 tonnes.
Vitesse, 11¼ nœuds.

Largeur, 5,05 m.
Classe de Lloyd's pour yachts 100 A 1.

Profondeur, 3,42 m.
Tirant d'eau extrême, 2,86 m.
I.H.P. (chev.-vap. Indiqués) 325.

L'INSTALLATION est artistique et consiste en 4 cabines de luxe 1 salon salle à manger fumoir sur le pont 2 bains avec eau chaude et eau froide 2 water-closets office et pièces de service cabines pour valet de chambre pour le Capitaine pour le chef et le second mécaniciens logement pour l'equipage au gaillard avant et cuisine de pont. L'eclairage électrique et chauffage à la vapeur installés partout. Guindeau et cabestan actionnés à la vapeur. Chaloupe automobile et yole vers à bord. Machines à hélice à triple expansion et à condensation à surface, avec cylindres de 228 m/m 381 m/m et 635 m/m de diamètre sur 457 m/m de course. La chaudière à 2,91 m. de diamètre et 2,66 m de long. Pression effective de 12,5 kilogs. par c/m². Capacité des soutes, 28450 kilogs

Yate de Vapor de Hélice Simple.

Eslora total, 41,10 m.
Peso, 147 toneladas según pesos adoptados para yates.
Calado extremo, 2,86 m.

Manga, 5,05 m.
Velocidad, 11¼ nudos.

Puntal, 3,42 m.
Clase 100 A.1. Lloyd's clase de yates.
I.H.P. 325

TODO el alojamiento, instalación, va amueblado de buen gusto y comprende 4 camarotes de lujo, 1 salon, 1 salón-comedor, 1 fumadero sobre la cubierta, 2 baños provistos de agua caliente y agua fría, 2 water-closets, despensa y cuartos para despenseros, camarotes para valet, para el capitán, para el primer y segundo maquinista. Alojamiento de la tripulación en castillo de proa, y cocina sobre cubierta. El yate va provisto de alumbrado eléctrico y calefacción á vapor en todas partes. Aparejo de gobierno y cabrestante á vapor. Se llevan una lancha automóvil y botecito. Máquina de triple expansión de condensación de superficie moviendo una hélice simple diámetro de cilindros 228 m/m. 381 m/m. y 635 m/m. Carrera 457 m/m. La caldera tiene un diámetro de 2,91 m y un largo de 2,66 m. Presión útil, 12,5 kilos. por c/m². Capacidad de carboneras, 28 toneladas

THORNYCROFT
MOTOR BOATS

Canots Automobiles "Thornycroft." Botes Automóviles "Thornycroft."

Sea-going Cabin Cruiser. (EF)

Length, 35ft. Breadth, 7ft. 6ins. Draft, 2ft. 6ins. Speed, 9 knots.
Fitted with Thornycroft M 4 Type 4 Cylinder 30 36 B.H.P. Petrol or Paraffin Motor.

A PARTICULARLY handy and compact type of craft, suitable for cruising purposes generally. Accommodation (which may be modified as necessary) is very complete, and consists of a comfortable Cabin forward, fitted with cushioned seats with lockers underneath, etc. Open well aft, where steering position is arranged with motor control levers alongside.

Canots à cabine pour croisières en haute mer.

Longueur, 10,66 m. Largeur, 2,28 m. Tirant d'eau, 76 c/m. Vitesse, 9 nœuds.
Muni d'un moteur "Thornycroft" de 30/36 B H P type M/4. à essence ou petrole lampant à 4 cylindres.

BÂTIMENT d'un type particulièrement commode et compact convenant pour croisières.
L'aménagement (qui peut être modifié si on le désire) est très complet et comporte une confortable cabine à l'avant munie de sièges rembourrés dont la partie intérieure forme coffres, etc. L'arrière est bien découvert et la position du pilote est aménagée de manière qu'il ait tous les leviers de commande à son côté.

Bote á camarote para viajar en alta mar.

Eslora, 10,66 m. Manga, 2,28 m. Calado, 76 c/m. Velocidad, 9 nudos.
Provisto de motor "Thornycroft" de gasolina ó parafina de 4 cilindros, 30/36 B.H.P., tipo M/4.

UN tipo de bote especialmente comodo y compacto muy adecuado para los objetos de viajar en general. El alojamiento (que puede modificarse á voluntad) es cuantioso y comprende un camarote comodo situado en la parte de proa, provisto de asientos acojinados cuyas partes inferiores forman alacenas. El asiento de popa está abierto, y el puesto de gobierno esta dispuesto allá estando las palancas de manejo del motor á lado.

THORNYCROFT
MOTOR BOATS

Canots Automobiles "Thornycroft." Botes Automóviles "Thornycroft."

Motor Inspection Launch. (AC)

Length : 51 ft. Breadth : 8 ft. 6 in. Draft : 2 ft. 6 in. Fitted with Thornycroft C/6 Type 6-cylinder 70 B.H.P. Paraffin Motor. Speed : 11½ knots.

A PARTICULARLY suitable type of Launch for inspection work. Accommodation is very complete, consisting of spacious cabin, fitted with sofa berths, folding table, toilet room, etc. Engine room aft is 12 ft. in length, with control station immediately behind it, two comfortable seats being arranged on either side.

Canot Automobile pour Inspections.

Longueur : 15,54 m. Largeur : 2,60 m. Tirant d'eau : 76 c/m. Muni d'un moteur "Thornycroft" de 70 B.H.P. au pétrole lampant, type C/6 à 6 cylindres. Vitesse : 11½ nœuds.

CE canot convient particulièrement bien pour service d'inspection. L'aménagement est très complet, et comporte une cabine spacieuse, avec couchettes formant sofas, table pliante, cabinet de toilette, etc. Le moteur est placé à l'arrière, où il occupe une longueur de 3,65 m., et le tableau de contrôle est placé immédiatement derrière, avec deux sièges confortables, un de chaque côté.

Lancha Automóvil para servicio de inspección.

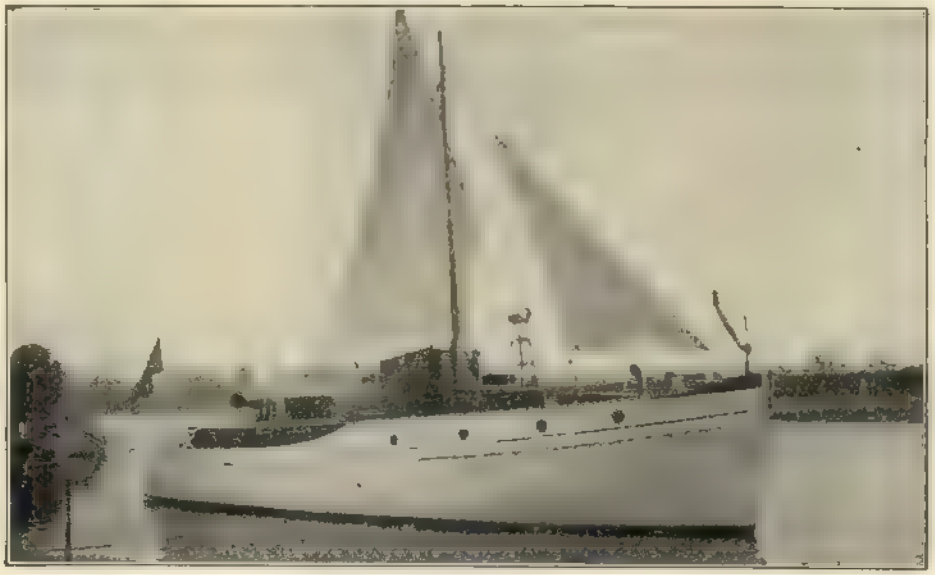
Eslora : 15,54 m. Manga : 2,60 m. Calado : 76 c/m. Provista de motor de parafina "Thornycroft" de seis cilindros, 70 B.H.P., tipo C/6. Velocidad : 11½ nudos.

ESTA lancha se halla especialmente adecuada para el servicio de inspección. El alojamento es cuantioso y comprende camarote espacioso provisto de camas-sofás, mesa plegadiza, pieza de tocador, etc. La cámara de la máquina situada en la parte de popa mide 3,65 m. de largo, el puesto de control está inmediatamente detrás de ella, estando dispuestos dos asientos cómodos cada lado.

John I. Thornycroft & Co., Limited. **London, S.W. 1, England.**

THORNYCROFT
MOTOR BOATS

Yachts Automobiles "THORNYCROFT." Yates de Motor "THORNYCROFT."



Sea-going Cruising Motor Yacht. (NY)

Length: 55 ft. Breadth: 10 ft. 6 in. Draft: 3 ft. 3 in. Fitted with a Thornycroft C/6 type 6 cylinder 70 B.H.P. Paraffin Motor. Speed: 10 knots.

A TYPE of boat which should appeal to those requiring a "cruising" launch with maximum cabin accommodation on the given length. The arrangement of the engine forward secures the most comfortable part of the boat for saloon, sleeping accommodation, etc. Sleeping cabin is placed amidships, and is provided with a double berth, seat, wardrobe, etc.

Yacht Automobile pour Croisières en Haute Mer.

Longueur: 16,70 m. Largeur: 3,20 m. Tirant d'eau: 98 c/m. Muni d'un moteur "Thornycroft" de 70 B.H.P. au pétrole lampant, type C/6 à 6 cylindres. Vitesse: 10 nœuds.

C'EST le genre de bateau qui plaira le mieux à tous ceux qui cherchent un canot pour croisières, pourvu du maximum d'aménagement pour un emplacement disponible déterminé. Le moteur étant placé à l'avant, on peut disposer de la partie la plus confortable du bateau pour le salon et la cabine, etc. La cabine-dortoir est située au milieu du bateau et est munie d'une double couchette, siége, garderobe, etc.

Yate de Motor para Viajar en Alta Mar.

Eslora: 16,70 m. Manga: 3,20 m. Calado: 98 c/m. Provisto de motor de parafina "Thornycroft" de seis cilindros, 70 B.H.P., tipo C/6. Velocidad: 10 nudos.

UN tipo de buque que ha de ser muy aceptable á quienes requieran una lancha de "paseo" que disponе del máximo alojamiento sobre la eslora determinada. La disposición del motor en la parte de proa deja disponsible la más cómoda parte del buque para el salón, camarotes-dormitorios, etc. El camarote-dormitorio está situado en medio del buque, y va provisto de cama-doble, silla, ropero, etc.

John I. Thornycroft & Co., Limited. **London, S.W. 1, England.**

THORNYCROFT
MOTOR BOATS

Canots Automobiles "Thornycroft." Botes Automóviles "Thornycroft"

MOTOR SKIMMING BOAT. (AQ)

Length, 28 ft. Breadth, 6 ft. 0 in. Depth, 2 ft. 6 in.
Fitted with Thornycroft Z/6 Type 6 cylinder 70 B.H.P. Petrol Motor.
Speed, 26/28 knots.

AN ideal safe cruising or racing launch, of strong construction and able to stand a rough sea. Of large beam and special design, making the boat extremely steady when running.

CANOTS AUTOMOBILES "THORNYCROFT."

Canot-Glisseur Automobile.

Longueur, 8,53 m. Largeur, 1,82 m. Tirant d'eau, 76 cm.
Muni d'un moteur de 70 B.H.P. "Thornycroft" du type Z/6, à essence, à 6 cylindres.
Vitesse, 26/28 nœuds

CANOT idéal pour la croisière et pour les courses. De construction robuste, capable de tenir la mer par gros temps, de largeur ample et d'un modèle spécial qui le rend très stable pendant la marche.

BOTES AUTOMÓVILES "THORNYCROFT."

Barco-Cuchara Automóvil.

Eslora, 8,53 m. Manga, 1,82 m. Puntal, 76 cm.
Provisto de motor de gasolina "Thornycroft" de seis cilindros, 70 B.H.P., tipo Z/6.
Velocidad, 26/28 nudos.

UNA lancha ideal y segura para paseo ó carreras, de construcción sólida, y capaz de resistir las fuertes marejadas. Consta de amplia manga y diseño especial, lo que le proporciona una gran estabilidad durante la marcha.

John I. Thornycroft & Co., Limited. **London, S.W. 1, England.**

THORNYCROFT
MOTOR BOATS

Canots Automobiles "Thornycroft." Botes Automóviles "Thornycroft."

High Speed Motor Launch.(20)

Length 35 ft. Breadth 6 ft. 3 ins. Draft 2 ft. 4 ins.
Fitted with Thornycroft Z,6 Type 6-cylinder 56,70 B.H.P. Petrol Motor.
Speed 15¼ knots.

A STRONG, reliable, high speed type of craft, specially designed for inspection work. Built to the order of the Mexican Eagle Co. for an exacting service between Tampico and the Potrero del Llano oilfields.

Canots automobiles à grande vitesse.

Longueur 10,66 m. Largeur 1,90 m. Tirant d'eau 70 c/m.
Muni d'un moteur à essence "Thornycroft" de 56/70 B H.P. du type Z/6 à 6 cylindres. Vitesse 15¼ nœuds.

BÂTIMENT robuste, de toute confiance et à grande vitesse, spécialement construit pour service d'inspection. Construit sur commande par la "Mexican Eagle Co." pour un service très dur entre Tampico et les champs pétrolifères de Potrero del Llano.

Lancha automóvil de alta velocidad.

Eslora 10 66 m. Manga 1,90 m. Calado 70 c/m.
Provista de motor de gasolina "Thornycroft" de seis cilindros, 56/70 B H P., tipo Z 6. Velocidad 15¼ nudos.

UN tipo muy resistente, seguro y de alta velocidad. Se ha diseñado especialmente para servicio de inspección. Construida del órden de la "Mexican Eagle Co." para un servicio bastante exigente entre Tampico y los campos petrolíferos de Potrero del Llano.

John I. Thornycroft & Co., Limited. **London, S.W. 1, England.**

THORNYCROFT
MOTOR BOATS

Canots Automobiles "Thornycroft."

Botes Automóviles "Thornycroft."

Ship's Motor Lifeboat.
Canot Automobile de Sauvetage pour Navires. Bote Automóvil Salvavidas para Navíos.

Ship's Motor Lifeboat. (71)

Canot Automobile de Sauvetage pour Navires.

Bote Automóvil Salvavidas para Navíos,

Length, 34 ft. Breadth, 10 ft. Draft, 2 ft. 3 ins. Depth, 4 ft.

Fitted with Thornycroft M/2 Type 2-Cylinder 15 B.H.P. Paraffin Motor. Speed, 6 Knots.

THIS boat is built to meet B.O.T. requirements, Air Tanks, etc., being fitted. Whilst being licensed as a Lifeboat, the function of this boat is to "shepherd" the ordinary type of Ship's boats in a time of disaster. Wireless room is arranged forward.

Longueur, 10,36 m. Largeur, 3 m. Tirant d'eau, 68,5 c/m. Profondeur, 1,21 m

Muni d'un moteur à pétrole lampant "Thornycroft" de 15 B.H.P. du type M/2. Vitesse, 6 nœuds.

CE canot est construit conformément aux prescriptions du "Board of Trade" (Ministère du Commerce) est pourvu de caisses à air etc. Bien qu'il possède toutes les qualités requises pour un bateau de sauvetage, il est destiné principalement à remorquer les autres embarcations de sauvetage du navire en cas de naufrage. Ce canot possède une cabine de télégraphie sans fil, placée à l'arrière

Eslora, 10,36 m. Manga, 3 m. Calado, 68,5 c/m. Puntal 1,21 m.

Provisto de motor de parafina "Thornycroft" de dos cilindros, 15 B.H.P., tipo M/2. Velocidad, 6 nudos

ESTE bote se ha construido de acuerdo con las exigencias del Board of Trade y está provisto de tanques de aire. Aunque este bote reune todas las características necesarias de un bote salvavidas, su objeto principal es el de guiar y cuidar los tipos ordinarios de botes salvavidas en caso de naufragio. La caseta de telegrafía sin hilos está situada en la parte de pro-

Motor Tug or Ship's Launch. (110)

Remorqueur Automobile ou Vedette pour Navires.

Remolcador Automóvil ó Lancha para Navíos.

Length, 36 ft. Breadth, 7 ft. 4 ins. Draft, 3 ft.

Fitted with Thornycroft M/4 Type 4-Cylinder 30 B.H.P. Paraffin Motor. Speed 7¾ Knots.

SUITABLE for harbour work, Ship's tender (carrying passengers or goods), towing or similar purposes. Seating accommodation for about 16 persons.

Motor Tug or Ship's Launch.
Remolcador Automóvil ó Lancha para Navíos.

Longueur, 11 m. Largeur 2,23 m. Tirant d'eau, 91 c/m.

Muni d'un moteur à pétrole lampant "Thornycroft" de 30 B.H.P. à 4 cylindres, du type M/4. Vitesse 7¾ nœuds.

CE canot convient surtout pour le service de port, vedette pour navires (pour transport de passagers ou de marchandises), remorquage ou tous services analogues. Il est aménagé de sièges pour environ 16 personnes

Eslora, 11 m. Manga, 2,23 m. Calado, 91 c/m.

Provisto de motor de parafina "Thornycroft" de 4 cilindros, 30 B.H.P. tipo M/4. Velocidad, 7¾ nudos.

ESTA lancha se halla muy adecuada para servicio de puerto, gabarra para navíos (llevando pasajeros ó mercaderías), trabajos de remolque ó fines semejantes. Dispone de asientos para cerca de 16 personas

THORNYCROFT
MOTOR BOATS

Canots Automobiles "Thornycroft."

Botes Automóviles "Thornycroft."

Shallow Draught Motor Launch
Canot automobile à faible tirant d'eau
Lancha automóvil de poco calado

Shallow Draught Motor Launch. (UX)

Canot automobile à faible tirant d'eau.

Lancha automóvil de poco calado.

Length, 35 ft. Breadth, 7 ft. Draft (light), 10 in. Draft (carrying 2 to 3 tons), 12 in. Fitted with Thornycroft M 2 type, 2 cyl. 15 B.H.P. Paraffin Motor. Speed, 8 knots.

This boat is specially designed for working on shallow, narrow rivers, and is easily manœuvred by means of twin rudders. For use as a tug, cargo or ferry boat, and is specially suited for being handled by natives.

Longueur, 10 66 m. Largeur, 2,13 m. Tirant d'eau (à vide), 25 c/m. Tirant d'eau (avec une chargement de 2 à 3 tonnes), 31 c/m Muni d'un moteur à pétrole lampant "Thornycroft" de 15 B.H.P à 2 cylindres du type M/2. Vitesse, 8 nœuds

Ce canot a été spécialement construit pour la navigation sur rivières peu profondes et étroites, il se manœuvre facilement au moyen des deux gouvernaux jumelés. Il peut être employé comme remorqueur pour le transport de passagers et de marchandises, et sa construction permet de confier la manœuvre à des pilotes indigènes

Eslora, 10,66 m. Manga, 2,13 m. Calado (sin cargamento) 25 c/m. Calado (con cargamento de 2 á 3 toneladas), 31 c/m Provista de motor de parafina "Thornycroft" de dos cilindros 15 B H.P., tipo M/2. Velocidad, 8 nudos.

Se ha diseñado este bote especialmente para uso sobre ríos poco profundos y estrechos, y mediante los timones gemelos se maneja con la mayor facilidad. Puede emplearse como remolcador, bote de carga ó barco de transporte, y se encuentra especialmente apropiado para gobierno por medio de los indígenas

Motor Trading Vessel. (UA)

Chaloupe automobile de commerce.

Buque automóvil mercante.

Length, 45 ft. Breadth, 12 ft. Draft, 4 ft. Fitted with Thornycroft C/4 Type 4 cyl. 47 B.H.P. Paraffin Motor. Speed (loaded), 7 m.p.h.

This boat is specially designed for trading purposes—a large number having been supplied to Rubber and other trading companies. She is strongly built, with ample freeboard, and capable of satisfactorily withstanding heavy seas.

Cargo capacity, about 15 tons.

Motor Trading Vessel.
Chaloupe automobile de commerce.
Buque automóvil mercante.

Longueur, 13,71 m. Largeur, 3 65 m. Tirant d'eau, 1,21 m Muni d'un moteur à pétrole lampant "Thornycroft" de 47 B H P à 4 cylindres, du type C/4. Vitesse (chargé), 11 kilomètres à l'heure

Cette chaloupe est construite spécialement en vue d'un usage commercial; il en a été fourni un grand nombre à des sociétés d'exploitation de caoutchouc et autres. Elle est de construction robuste, à larges bords et peut tenir la mer d'une manière satisfaisante même par des gros temps

Capacité de chargement, environ 15 tonnes

Eslora, 13,71 m. Manga, 3,65 m. Calado, 1,21 m. Provisto de motor de parafina "Thornycroft" de 4 cilindros, 47 B H P., tipo C/4. Velocidad (con cargamento), 11 kilometros por hora.

Se ha diseñado este buque especialmente para fines mercantes, y se ha suministrado ya un buen número á casas dedicadas á la explotación de caucho, y á otras casas comerciales. Consta de construcción muy robusta, dispone de amplias obras muertas, y se halla capaz de resistir las fuertes marejadas de una manera muy satisfactoria.

Capacidad de carga, cerca de 15 toneladas

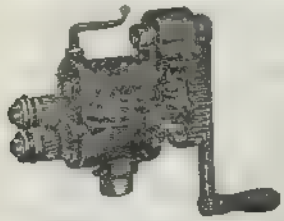
TINNERS' MACHINES

PEXTO CRIMPERS AND BEADERS

Connecting gears of machine cut steel, rolls of high grade steel, scientifically hardened. Adjustments are provided for regulating depth of crimp and bead.

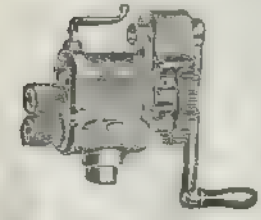
Designed for strength and rigidity and produce snug-fitting pipe joints that hold when put together.

Two speeds provided for, back geared for heavy stock and direct drive when lighter materials are used.



Capacity—20 gauge iron and lighter, diameter beading rolls 1 25/32 in., diameter crimping rolls, 1 13/16 in., back gear, 3 to 1.

No. E585—Stove Pipe with crank screw, for depressing rolls, w't each 65 lbs. .....each $52.00



No. E591—Cornice Maker, diam. of rolls 1 13/16 in., back geared 3 to 1, w't each 65 lbs., each $50.00

CRIMPING

No. E285—Packham's for stove and conductor pipe, with standard, w't 24 lbs. .....each $24.00

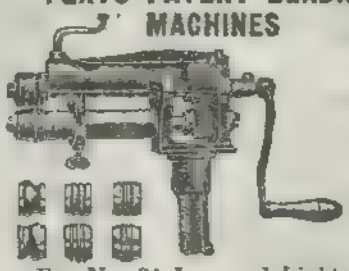
PEXTO PATENT CRIMPING AND BEADING MACHINES

For 26 Gauge and Lighter.

For crimping or beading stove pipe, elbows, furnace pipe, etc., construction throughout is exceedingly strong and rigid, and permits of easy and rapid adjustment, depression of rolls accomplished by foot treadle, contact of upper beading roll is adjusted by lever, which also gives an independent adjustment for raising upper beading roll, taking same out of contact with lower roll, if crimping only is desired, adjustment of this lever is affected by means of an eccentric device, handy and practically instantaneous in action. Application of this feature greatly increases simplicity, as operation of crimping alone can be performed without substituting blank collars for beading rolls. Crank adjustable to light or heavy work.

No. F602—With treadle, w't each 38 lbs.★ .....each $56 00

PEXTO PATENT BEADING MACHINES

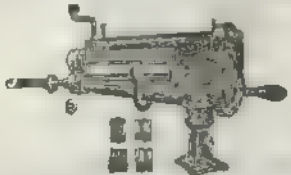


For No. 24 Iron and Lighter.

Size of beads, Ogre ¾ in., Triple ⅝ in., Triple Coffee Pit ⅝ in., Single ⅜ in.

Beading or swaging machines are intended for stiffening and ornamenting pipe, bodies of pails, cans, boilers, etc.

No. E620—6 in. throat, with four pairs rollers and stand, w't 50 lbs., each $56.00



For No. 20 Iron and Lighter.

Illustration shows single beading rolls and supporting arm attached

No. F617—13 in. throat, with three pairs rollers and stand, w't 140 lbs., each★ $110.00

STEEL CORNICE BRAKES

The Apron or Bending Leaf reinforced by angular shaped strengthening plate. Substantial truss rods provided for additional support and adjustment.

Five Formers, all sizes in general use for making moulding, furnished.

A Steel Angle Bar is bolted to apron to give additional leverage when bending extra heavy material.

Stop Gauges furnished free of cost.

The Clamping of material is done by means of an eccentric on each end.

When ordered with Eccentric Levers, connected brakes are so fitted without additional cost.

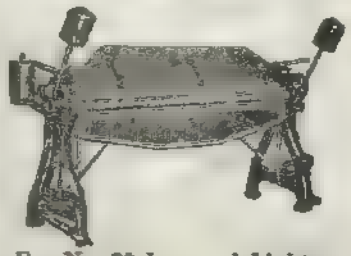
Set Screws provided on ends which move the upper jaw forward and back to accommodate heavy or light material and for sharp or rounding bends.

An Eccentric Bushing in lower part of connecting link allows for greater or less pressure on material.

The Angle Bar, as well as the special steel bar, is removable from the apron and narrow opposing members can then be formed. Apron edge is ⅜ inch, from which ¼ inch is detachable.

No. F4—Forming edge 8 ft. 1 in. long, for cornice and other light work as well as ¾ in. and more, bends on No. 18 gauge, **complete with angle bar** and five formers, w't 1000 lbs.★ .....each $324.00

HARE'S PATENT FOUR LEAF CORNICE BRAKES



For No. 20 Iron and Lighter.

The bending leaf is properly balanced by weights, and is provided with a forcing bar for beding heavy iron.

Seven formers to be attached to the brake for making circular bends are furnished, sizes 3, 2½, 2, 1½, 1¼, 1 and 1 in.

No. F685—98 in., w't 3650 lbs., each★ .....$.....

Ask for Special Tinners' Tools Catalogue Showing a More Complete Line than Shown Here.

★ Items Marked Thus ★ are Shipped from Factory Only

PEXTO TINNERS' MACHINES

TURNING

COLUMBIAN, solid frame, with two sets of faces, for 22 iron and lighter.

No. 542—Large, diam. of faces 3 in., with stand, w't 31 lbs., each $44 00

No. 541—Small, diam. of faces 2 1/16 in., with stand, w't 25 lbs., each $40.00

Encased, adjustable boxes, with two sets of faces, for 24 iron and lighter.

No. 546—Large, diam. of faces 3 in., with stand, w't 28 lbs...each $58.00

No. 545—Small, diam. of faces 2 1/16 in., with stand, w't 23 lbs., each $54.00

Turning machines are used for turning the tops of vessels to receive wire.

WIRING

COLUMBIAN, for 22 iron and solid frame, lighter.

No. 525—Diam. of faces 8 in., with stand, w't 31 lbs. .....each $46.00

Encased adjustable boxes, for 24 iron and ughter.

Wiring machines follow the turning machines. They are intended for rolling sheet metal tightly around wire after its seat has been prepared by the turning machine.

No. 526—Diam. of faces 3 in., with stand,w't 28 lbs, ...each $60.00

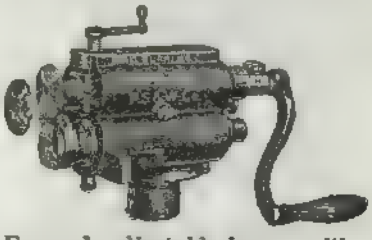
BURRING

COLUMBIAN, solid frame, with extra upper face, for 22 iron and lighter.

Burring machines are used for creasing, edging rims of covers for pails, boilers, etc. and for preparing circular edges of bottoms and bodies of vessels for double seaming.

No. 577—Large, diam. of face 2 1/8 in., with stand, w't 25 lbs...each $38 00

No. 576—Small, diam. of face 1 1/8 in., with stand, w't 21 lbs...each $34.00



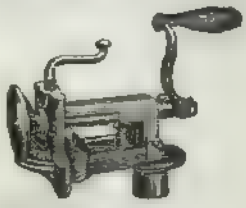
Encased, adjustable boxes, with extra upper face, for 24 iron and lighter.

Burring machines are used for creasing, edging rims of covers for pails, boilers, etc. and for preparing circular edges of bottoms and bodies of vessels for double seaming.

No. 580—Large, diam. of face 2 1/8 in., with stand, w't 23 lbs. ...each $52.00

No. 579—Small, diam. of face 1 1/8 in., each $48.00

SETTING DOWN

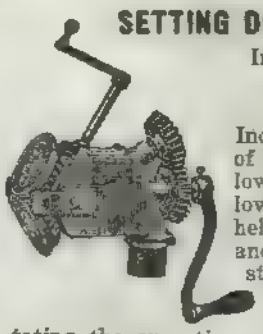


COLUMBIAN, solid frame, for 24 iron and lighter.

Setting down machines follow the burring machines pressing the edge of bottom onto the flange of body in preparation for double seaming.

No. 556—With stand, for seams up to 3/16 in., w't approximately 23 lbs., each $48.00

SETTING DOWN



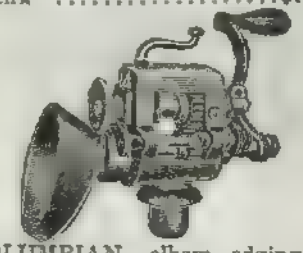
Improved with Adjustable Gauge.

Inclined position of both upper and lower faces allows work to be held up or down and seams to be started inward while setting down, facilitating the operation of double seaming.

No. 562 can be fitted with pulley for power at extra cost.

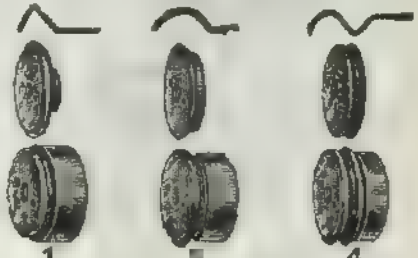
No. F561—Light, for seams up to 3/8 in., capacity 24 iron and lighter, with stand, w't 31 lbs.★ each $56.00

No. F562—Heavy, for seams up to 1/2 in., capacity 18 iron and lighter, with extra heavy stand, w't 100 lbs., each★ $110.00



COLUMBIAN, elbow edging machine, for 24 iron and lighter.

Cut shows position of an elbow in turning the edge; also the form of crease made by the machine to enter corresponding section in completing the elbow as made with Rolls No. 1.



Rolls type No. 1 produce V-shape edges on both elbow sections.

Rolls No. 3 and 4 are preferable for elbows riveted or grooved with loose joint. Faces can be used with and are readily adapted to either Columbia or Encased small turning machine.

Diameter of faces 2 1/8 in.

No. 551—Columbian Elbow Edging Machine, with standard and one pair of rolls, w't each 25 lbs., each $40.00

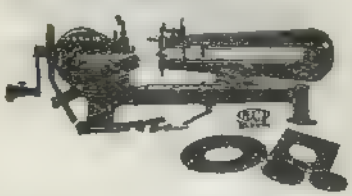
Specify Type of Rolls Desired.

Ask for Special Tinners' Tools Catalogue Showing a More Complete Line than Shown Here.

★ Items Marked Thus ★ Are Shipped From Factory Only.

TINNERS' MACHINES

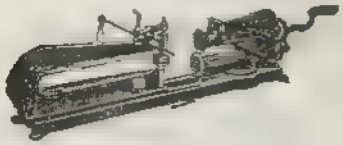
PEXTO RING AND CIRCULAR SHEARS



Intended for cutting circles or internal rings and irregular curves. In circular cutting the blanks are clamped between rubber covered discs by means of a quick acting, eccentric, lever device adjustable for exerting extreme uniform pressure to prevent the work from slipping and insuring more accurate cutting. The bed on which the Tail Piece slides is graduated in inches and fractions of inches for quick setting of the Tail Piece for the size circle to be cut. The angular position of Cutters allows for as clean cutting on the inside as on the outside of circle.

Nos.	F298	F299
Will cut circles, in.	3½ to 22	3½ to 38
W't, lbs.	195	290
Each	$140.00★	$80.00★

WAUGH'S PATENT CIRCULAR SHEARS



For No. 22 Iron and Lighter.

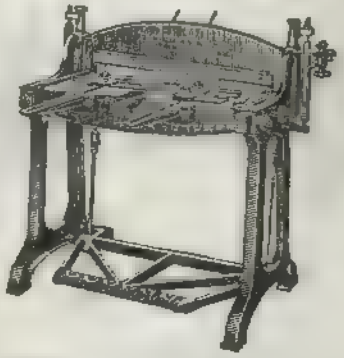
No. E278—Will cut circles from 2¾ to 22 in., w't 125 lbs. ....each $110.00

Suitable for cutting circles, trimming or squaring tin plate, sheet iron, brass and copper.

A graduated scale is attached to the bed for the purpose of securing quick and accurate adjustment of the sliding arm.

They are fitted with quick-acting eccentric lever, which clamps material between discs with great rapidity and releases the blank instantly.

PEXTO SQUARING SHEARS



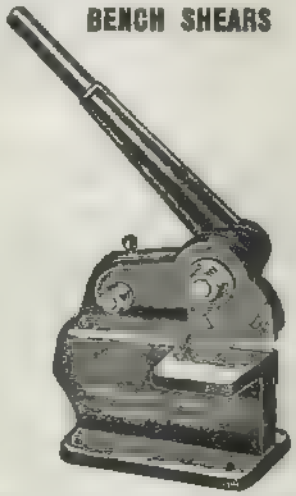
Capacity No. 18 Gauge Iron and Lighter.

No. E132A—Cuts 30 in., w't 540 lbs., each $190.00

No. E137A—Cuts 36 in., w't 650 lbs., each $260.00

Furnished with complete gauge equipment, one pair front arms. No. 137A has hold-down attachment.

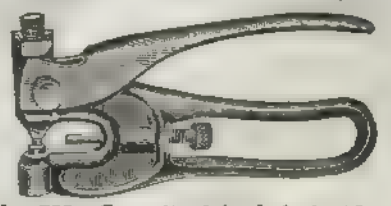
BENCH SHEARS



Made of best materials, blades of crucible tool steel, useful in all metal working shops, tool rooms, garages.

For cutting automobile brake bands, leather belting, strip steel.

No. F20—Length of blade, 3 in., capacity 12 gauge, w't each 24 lbs., each★ $30.00



No. 789—Capacity ¼ in. hole in 16 ga. iron with three punches and dies, ⅛, 5/16 and ¼ in. Length over all 8¼ in., depth of throat 1½ in., w't 3 lbs. .....each $15.60

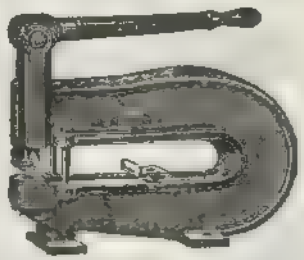
PEXTO COMBINATION SHEARS AND PUNCHES

These machines are suitable for both cutting and punching metal. They may be used for cutting ¼ inch iron and 5/16 and ½ inch narrow bars. The No. E678 will punch the center of a circle 5½ in. in diameter and the No. E679, 5½ in. Four Punches are put up with No. E678, viz., ⅛, 5/16, ¼ and 5/16 in. Five Punches are put up with No. E679, viz., ⅛, 5/16, ¼, 5/16 and ⅜ in.

No. E678—4½ in. cut, will punch ¼ in. iron, w't 105 lbs., each $72.00

No. F679—5½ in. cut, will punch 3-16 in. iron, w't 122 lbs., each★ $88.00

PEXTO SAMPSON PUNCHES



Will punch No. 9 iron with and No 12 without, "stay bolts" and will center on 30 in. sheets without and on 7 in. sheets with them.

No. E675—Improved, bolt fastened, adjustable gauge depth of gap 15 in., 3 sets of dies and punches, ⅛, 5/16 and ¼ in., w't 125 lbs. .....each $80.00

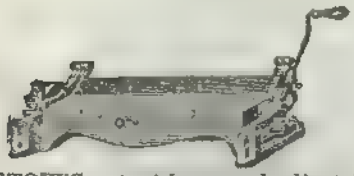
HAND PUNCHES

Made with compound lever principle, blades solid crucible tool steel, running full length of jaw.

No. F30—Total length 33 in., length of blade 8 in., length of cut 4½ in., capacity 12 gauge, w't each 16 lbs. each★ $38.00

TINNERS' MACHINES

FOLDING MACHINES

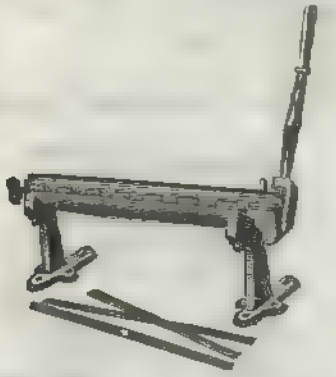


STOW'S patent improved adjustable bar folder for No. 22 iron and lighter.

The gauge is operated by hand wheel in front of machine. Set screw in front at left holds gauge firmly in place and secures a fold or lock of uniform width the entire length. These machines form square joints or angles and turn sharp edges, also round edges for inserting wire. Locks ⅛ in. to 1 in. can be formed.

No. E62—20 in., w't 100 lbs., each $110.00

No. E63—30 in., w't 180 lbs., each $130.00



WRIGHT'S, 30 in., improved, for No. 24 iron and lighter.

This machine will turn locks of different widths on any length of sheet. May be used on material as thick as No. 24 gauge.

No. E1—Will turn locks ¼ and ⅜ in., w't 80 lbs. .....each $56.00

No. E12A—Will turn locks ¼, ⅜, ½ and ⅝ in., w't 90 lbs., each $80.00

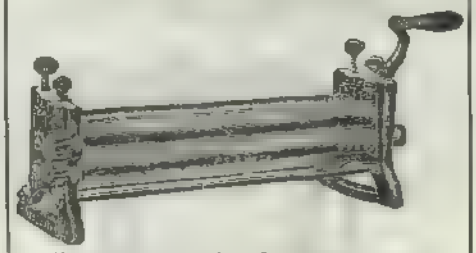
30 In. Long.

Will form 20 iron into 10 in. or 22 iron into 5 in. cylinders.

Grooves are cut in rolls to allow work being formed after wiring.

No. E357—2 in. rolls, w't 140 lbs., each $48.00

PEXTO FORMING MACHINE



Patent stove pipe formers, compensating gear, 30 in. long.

No. E374 will form 20 iron into 10 in., or 22 iron into 5 in. cylinders.

No. E373 will form 22 iron into 8 or 10 in. cylinders.

Gears are machine-cut steel and rolls are made of special rolled hard steel. Grooves are cut in rolls to allow forming of cylinders after wiring.

No. E373—2 in. rolls, w't 140 lbs., each $58.00

Will form 20 iron into 10 in., or 22 iron into 5 in. cylinders.

These machines are much more easily adjusted and can be set for forming any desired size of cylinder in much less time than is required to set others. They are made with Slip Rolls, so that small work can be readily taken from the end after it has been formed.

No. E382—Grannis', patent slip roll stove pipe former, with compensating gear, 2 in. rolls, 30 in. long, w't 150 lbs. .....each $72.00

EAVE TROUGH END FORMERS

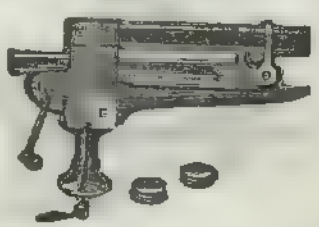
The Tool.

The Work.

No. 6—Bishop's, cast iron Trough, in.	4	4½	5
W't, lbs.	3½	4	5
Each $1.20		1.30	1.60

For closing end of eave trough in corrugations as shown in illustration.

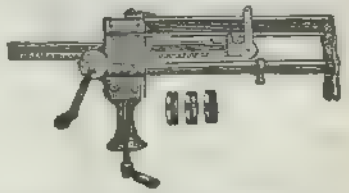
PEXTO BRASS MOUNTED GROOVING



With steel bar and milled horn, for No. 24 iron and lighter.

No. E502—20 in., three grooving rolls, one each ⅛, 5/32 and 7/32 in., with standard, w't 100 lbs.... each $64.00

IMPROVED PATENT GROOVING MACHINES



For No. 22 iron and lighter.

Grooving horn is reversible so that either the flat surface or one of the groves that are planned into the horn can be turned upward.

One smooth or flattening roll and three grooving rolls are furnished.

No. F507—30 in., rolls 5/32, ¼ and ⅜ in., w't 110 lbs.★ .....each $110.00

PEXTO IMPROVED PATENT GROOVING MACHINES

Improved Machine Standards.

No. 975—For use with all except wiring machine, size of hole 1⅜ in., height over all from bench 9¾ in., w't each 10½ lbs. .....each $3.00

No. 976—Wiring machine, size of hole 1⅜ in., height over all from bench 9¾ in., w't each 11 lbs., each $3.00

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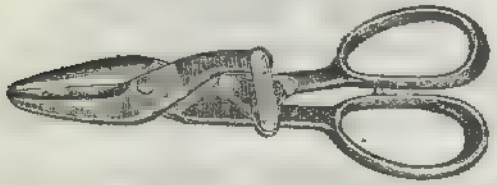
TINNERS' SHEARS OR SNIPS

CRUSO STRAIGHT

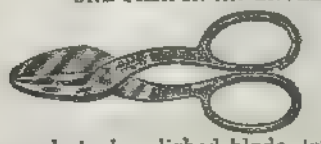


No. 19—Cruso, solid forged steel, 12½ in. long, cut 3 in., w't per pair 1¾ lbs. .....per pair $1.80
ONE PAIR IN AN ENVELOPE, FOUR PAIRS IN A BOX

HOUSEHOLD

No. 18—Cruso, solid forged steel, length 10 in., cut 2¾ in., w't per pair 1 lb., per pair $1.40
A good serviceable snip, suitable for general use, at a low price.
ONE PAIR IN AN ENVELOPE

Cast iron, ground blades, black handles.
No. 20—Length 11½ in., cut 2½ in., w't 2¾ lbs.. each $0.50
ONE PAIR IN AN ENVELOPE



POCKET SNIPS

Solid forged steel, polished blade, length 7 in., cut 2 in., w't per pair ½ lb.

No. 514 CVB—Polished and blued handles, per pair $1.50

No. 214 Cruso—Japanned handles, ...per pair $1.30
ONE PAIR IN AN ENVELOPE; SIX PAIRS IN A BOX

REYNOLDS DENTAL OR JEWELERS

Japanned handles, nickel plated blades.

Nos.	21	22
Length, in.	6½	6½
Cut, in.	1½	2
W't, pair, lbs.	½	⅝
Per pair	$1.30	1.50

HALF DOZEN IN A BOX

COMPOUND LEVER SNIPS
SEARIGHT PATENT

Finest quality crucible steel tempered by the most approved process.

Nos.	108	110	112	114
Length, in.	8	10	12	14
Length cut, in.	1½	2½	3	3½
W't, pr., lbs.	¾	1½	2½	3
Per pair	$5.50	6.50	9.00	10.50

Has three times the power at the point as the ordinary snip and is but a trifle heavier.

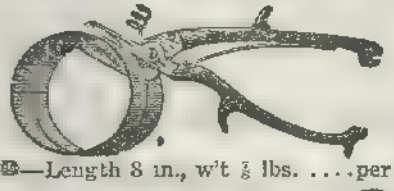
"TROJAN" SHARP POINTED SNIPS

No. 79—High grade steel, japanned handlse, length 13 in., 2½ in. cut, w't per pair 1⅝ lbs. .....per pair $6.00
Adapted for cutting sheet metal, pasteboard, mica, linoleum, veneering, etc. Straight or curved lines.
ONE PAIR IN A BOX

HAWK'S BILL

Improved pointed curved hand shears.
No. 15—Pointed snips, blade 3 in., entire length 11¾ in., w't per pair 1⅛ lbs. ..... per pair $6.00
Capable of cutting in sheet metal trimmings of any size and shape. Letters easily cut. Especially adapted for cutting off the bottoms of metal vessels and openings in pipes or cylinders.
ONE PAIR IN A BOX

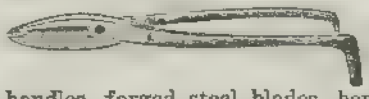
CVB COMBINED SHEARS AND PIPE CRIMPERS



No. 91 CVB—Length 8 in., w't ⅝ lbs. ....per pair $4.50

Polished blades, gun metal handles, drop forged steel.
No. 92 CVB—Combined double cutting shear and pipe crimper, interchangeable parts, steel crimping jaws, length 12¾ in., actual cut 1¾ in., w't 2¼ lbs., per pair $6.00
ONE PAIR IN A BOX

BENCH



Japanned handles, forged steel blades, bent heels.

Nos.	00	0	1	2
Cut (catalog), in.	11½	10½	9	8¾
Capacity gauge iron	18	18	18	19
W't, lbs.	36	30	24	19
Per pair	$42.00	38.50	27.00	24.00
Nos.	4	5	6	
Cut (catalog), in.	7⅞	6¼	5¼	
Capacity gauge iron	20	21	22	
W't, lbs.	12	9	8	
Per pair	$19.00	18.00	15.00	

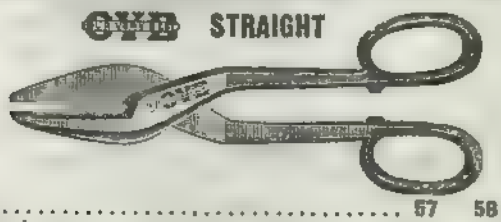
TINNERS' HAND SHEARS OR SNIPS

SHEAR OR SNIPS

Crocus Finished Blades, Gun Metal Handles, Steel Laid and of Superior Finish.

Snips are Forged from the Best Material Obtainable. They are Accurately Fitted and in Every Way Designed for the Workmen who Demand the Best to be had.

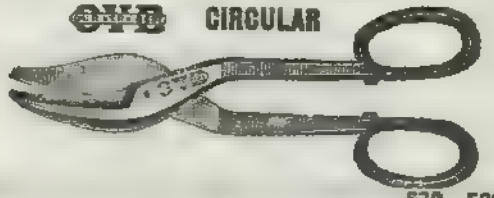
STRAIGHT



Nos.	57	58	59
Length, in.	14½	13½	12½
Cut, in.	4	3½	3
W't, lbs.	2⅝	2¼	1⅞
Per pair	$4.50	3.60	3.10

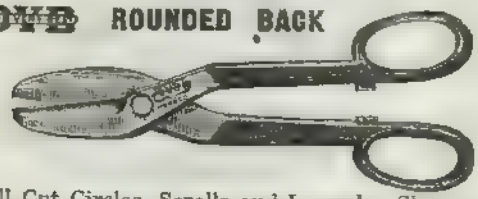
Nos.	510	511	512	513
Length, in.	11	10½	10	8½
Cut, in.	2⅝	2¼	2	1⅝
W't, lbs.	1⅛	1	⅞	¾
Per pair	$2.90	2.20	1.80	1.60

CIRCULAR



Nos.	670	590	690
Length, in.	14½	13½	12½
Cut, in.	4	3½	3
W't, lbs.	2½	2⅜	1⅝
Per pair	$6.30	5.40	5.00

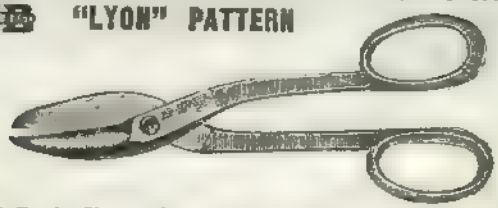
ROUNDED BACK



Will Cut Circles, Scrolls and Irregular Shapes.

Nos.	147	148	149
Length, in.	14½	13½	12½
Cut, in.	4	3½	3
W't, lbs.	4	3½	3
Per pair	$5.40	4.50	4.00

"LYON" PATTERN



Round Back, Very Sharp Points, Will Cut Circles, Scrolls and Irregular Shapes.

Nos.	27	28	29
Full length, in.	14	13	11½
Cut, in.	3½	3	2½
W't, lbs.	1⅝	1½	1⅜
Per pair	$4.50	3.70	3.20

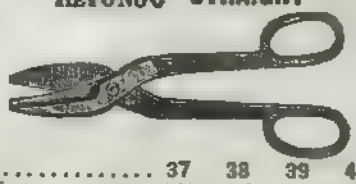
ALL OF ABOVE ONE PAIR IN A BOX

REVONOC SHEAR OR SNIPS

DROP FORGED STEEL LAID

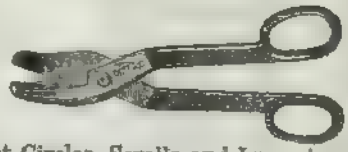
REVONOC Snips are Forged from Highest Quality Material. They are Accurately Fitted and in Every Way Designed for the Workmen who Demand the Best to be had.

REVONOC STRAIGHT



[illegible]	37	38	39	40	41	42
Full length, in.	14½	13½	12½	11	10½	10
Cut, in.	4	3⅜	3⅛	2⅜	2¼	2
W't, lbs.	2⅛	1⅝	1	1	¾	⅝
Per pair	$4.30	3.40	3.00	2.80	2.10	1.70

REVONOC CIRCULAR



Will Cut Circles, Scrolls and Irregular Shapes.

Nos.	218	219
Full length, in.	13½	12½
Cut, in.	3½	3
W't, lbs.	1½	1
Per pair	$5.20	4.80

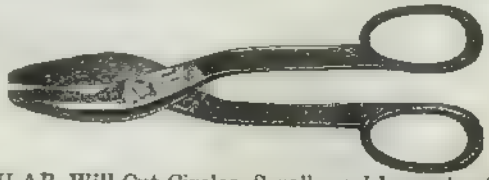
P. S. & W. CO.'S SHEARS

The P. S. & W. Co.'s Snips are Forged from the Best Norwegian Iron, are Steel Laid and Fully Warranted.

1819 ORIGINAL

Straight.

Nos.	6½	7	8	9	10	11	12	13
Full length, in.	15½	14½	13½	12	11	10½	8½	8
Cut, in.	4½	4	3½	3	2½	2¼	2	1¾
Weights, lbs.	3½	2½	2⅛	1½	1	¾	⅝	½
Per pair	$7.00	6.00	5.00					



CIRCULAR, Will Cut Circles, Scrolls and Irregular Shapes.

Nos.	70	80	90
Full length, in.	14½	13½	12
Cut, in	3½	3½	3
W't, lbs.	2½	2	1⅝
Per pair	$6.00	5.00	4.00	3.50	3.20	2.40	2.00	1.80

ALL OF ABOVE ONE PAIR IN A BOX

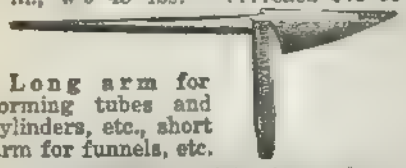
Illustrations show left hand shears, which have the lower blade on left side—Left hand shears are generally used and are always sent unless otherwise specified.

TINNERS' TOOLS

WROUGHT IRON STAKES WITH POLISHED STEEL FACES

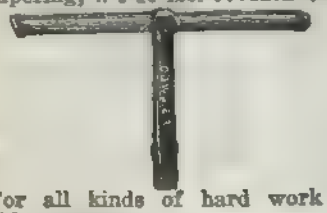
Used for beveled or square work.

No. E901—Beakhorn stake, round tapering end 16½ in., flat end 20-00 in., w't 45 lbs. ....each $48 00



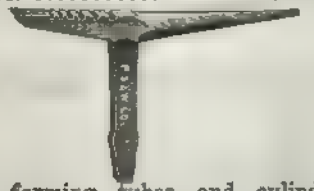
Long arm for forming tubes and cylinders, etc., short arm for funnels, etc.

No. 925—Common Blowhorn, large end 9 in., small end 17⅛ in., both tapering, w't 10 lbs. ...each $26.00



For all kinds of hard work and double seaming.

No. E921—Double Seaming, large end 17 in., small end 12 in., w't 84 lbs. .....each $42.00

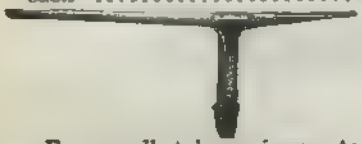


For forming tubes and cylinder creasing, etc.

No. 927—Creasing, with horn, round tapering end 9½ in., flat end 6½ in., w't 12½ lbs. .....each $26.00

For very small cylinders, etc.

No. 957—Needle case, flat end 8 in., small tapering end 10½ in., w't 4 lbs., each $13.00



For small tubes, rings, etc.

No. 956—Candle mould, small end 18 in., horn 8½ in., both arms round and tapering, w't 6½ lbs., each $16.00

WROUGHT IRON STAKES WITH STEEL FACE

Hatchet.

Nos.	943	944
Length of blade, in.	13	11
W't, lbs.	9	6
Each	$16.00	14.00

No. 936—Common square, face 2⅝×4½ in., w't 11 lbs. ...each $13.00

CAST IRON STAKES

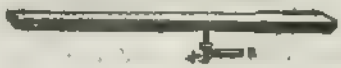
Polished faces, size A, 6 in.; size B, 8½×2⅝×3½ in.; size C, 5½×4½ in.; size D, 5½×4½×3⅝ in.

No. E949—Double seaming, with 4 heads, round, square, oblong and oval, w't 110 lbs. .....each $36.00

Cast iron, polished face, for locking seams on conductor pipe.

No. E971—Conductor, turned, large end 15 in., small end 11½ in. long, w't 30 lbs. .....each $18.00

HOLLOW MANDRELS



Cast iron, polished face, heavy clamps for attaching to bench.

No. E910—Entire length 3 ft. 4 in., flat part 9 in. long 6 in. wide, oval part 31 in. long, w't 60 lbs., each $18.00

PIPE MANDRELS

No. E65—Cast stove pipe, length 36 in., width 4½ in., w't 38 lbs., each $11.00

A low-priced mandrel for a dealer who does not have a regular tinshop.

BENCH PLATES

Cast iron, planed surface.

No. E981—37×8 in., w't 50 lbs., each $20.00

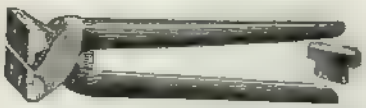
No. E982—30×8 in., w't 37 lbs., each $14.00

"HANDY" SEAMERS

Adjustable for seams of different widths up to ⅞ in. Can be used where larger seamers would not be practical. As it is light it can be carried in tool kit or pocket.

No. 791—Japanned, length 7 in., width 3⅜ in. ....per dozen $48.00

CUTTING NIPPERS

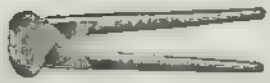


REVOLT ACME, polished steel jaws.

Nos.	1	2
Lengths, in.	12	11
W't per doz.	24	21
Per dozen	$66.00	60 00
Extra Jaws, dozen prs.	$14.40	14.40

Nos.	3	4
Lengths, in.	10	8
W't per doz., lbs.	18	9
Per dozen	$54.00	48.00
Extra Jaws, dozen prs.	$14.40	14.40

ONE IN A PACKAGE



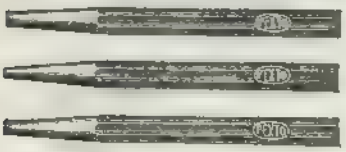
CAREW, forged tool steel jaws.

Nos.	1	2
Length, in.	14	12
W't per doz., lbs.	45	33
Per dozen	$105.60	87.00
Extra Jaws, dozen prs.	$25.20	24.00

Nos.	3	4
Length, in.	10	8
W't per doz., lbs.	24	18
Per dozen	$75.00	69.00
Extra Jaws, dozen prs.	$21.60	20.40

ONE IN A PACKAGE

TINNERS' SOLID PUNCHES



Cast steel, length 4½ to 5 in.

Nos.	0	1	2
Size, in.	9/32	¼	7/32
Tinners' rivets, lbs.	12	10	8
Per dozen	$3.00	3.00	3.00

Nos.	3	4	5
Size, in.	5/16	5/32	⅛
Tinners' rivets lbs.	6	4	2
Per dozen	$3.00	3.00	3.00

Nos.	6	7
Size, in.	3/32	1/16
Tinners' rivets, lbs.	1	½
Per dozen	$3 00	3.00

ONE DOZEN IN A BOX

TINNERS' PRICK PUNCHES

No. 80—[illegible] high quality knurled pattern, polished head and taper ⅜ in. diam., 4 in. long, w't per doz. 1½ lbs., per dozen $3.50

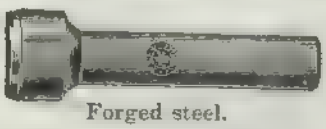
ONE DOZEN IN A BOX

Polished point, length 4½ in.

No. 90—Forged steel, w't per doz. 1½ lbs. .....per dozen $3.00

ONE DOZEN IN A BOX

TINNERS' HOLLOW PUNCHES



Forged steel.

Nos.	59	60	61
Diameter, in.	3/32	1/8	5/32
W't doz., lbs.	1½	3	4
Per dozen	$16.80	16.80	16.80
Nos.	62	63	64
Diameter, in.	3/16	7/32	¼
W't, doz., lbs.	6	7½	8
Per dozen	$21 00	25.20	29.50
Nos.	65	66	67
Diameter, in.	1	1⅛	1¼
W't, doz., lbs.	10½	12	15
Per dozen	$36.00	40.50	45.00
Nos.	68	69	70
Diameter, in.	1⅜	1⅝	2
W't, doz., lbs.	18	25½	27
Per dozen	$54.00	63 00	72.00

¼ TO ⅜ IN., ONE DOZEN; ½ TO 1¾ IN., ONE-HALF DOZEN 2 IN., ONE-THIRD DOZEN IN A BOX; BALANCE, LOOSE

TINNERS' LANTERN CHISELS

For cutting holes in circular work, ½ to 5½ in.

No. 100—Cast steel, polished point, w't per doz. 2½ lbs. .per dozen $6.00

ONE DOZEN IN A BOX

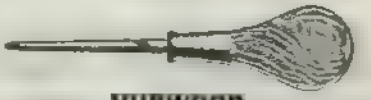
TINNERS' WIRE CHISELS

Cast steel, polished tempered face, for cutting wire and small work of all kinds.

Nos.	12	13
Width, in.	1⅜	2½
Per dozen	$5.50	7.50

⅜ TO ½ IN., ONE DOZEN; BALANCE, HALF DOZEN IN A BOX

TINNERS' SCRATCH AWLS



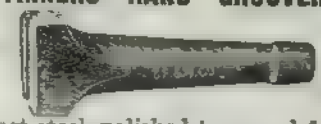
HURWOOD

No. 77—Length 7½ in., heavy cast steel tempered and polished point, shank running through handle, riveted and headed, beech handle, polished steel ferrule. w't per doz. 3½ lbs. .....per dozen $6.00

HALF DOZEN IN A BOX

No. 01—Ring Awl, solid steel, length 8½ in. .....per dozen $6.00

TINNERS' HAND GROOVERS



Cast steel, polished tempered face.

Nos.	00	0	1	2
Groove, in.	7/16	⅜	5/16	11/32
W't doz., lbs.	16½	16½	15	15
Per dozen	$24.00	24.00	21.60	21.60
Nos.	3	4	5	
Groove, in.	9/32	7/32	5/32	
W't, doz., lbs.	12	12	10½	
Per dozen	$19.20	19.20	19.20	

HALF DOZEN IN A BOX

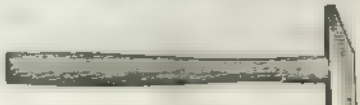
PEXTO RIVETING HAMMERS

PEXTO, solid forged steel, full polished selected hickory handles.

Nos.	1	2	3	4
Face, in.	1¼	1	⅞	¾
W't, doz., lbs.	15	12	9	6
Per dozen	$26.20	22.00	19.20	18.50

HALF DOZEN IN A BOX

PEXTO SETTING HAMMERS



PEXTO, solid forged steel, full polished selected hickory handles.

Nos.	1	2	3	4
Faace, in.	1¼	1	⅞	¾
W't, doz., lbs.	15	12	8	6
Per dozen	$25 20	22 00	19.20	18 50

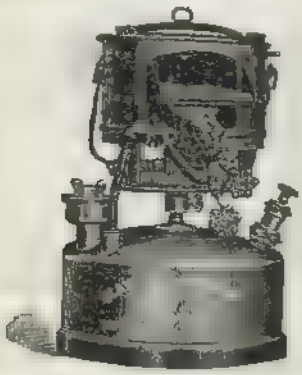
HALF DOZEN IN A BOX

TINNERS' TOOLS

FIRE POTS

Burner produces an intensely hot flame, free from smoke, will heat irons and a pot of metal at one time. Top section may be removed and open flame used.

No. R50—Gasoline, heavy, welded steel tank, capacity 5 pts., fixed brass air pump, never leak type, positive needle valve, height 12 in., diam. at base 8¼ in., top 6 in., w't 13 lbs. .....each $22.30

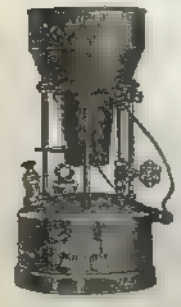


C and L.

Gasoline, seamless drawn steel tank with large funnel and filler, fixed brass pump, needle valve, fittings welded, not soldered. Heats irons and a pot of metal at samo time. Top section may be removed and open flame used.

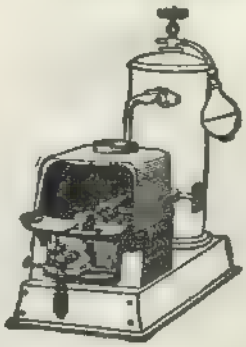
Nos.	R1	R5
Capacity, pts.	7	5
Height, in.	13	13
Diam. at base, in.	9¼	8¼
Diam. at top, in.	7	6¼
W't, lbs.	11	10¼
Each	$24.50	22.30

ONE IN A BOX

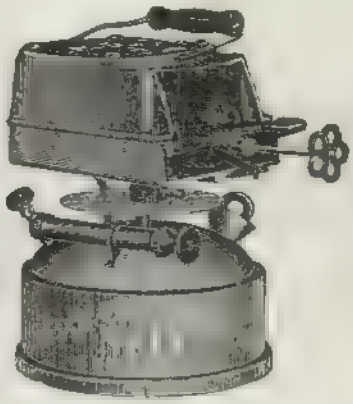


No. R21—C. and L., gasoline, seamless drawn steel tank, large funnel and filler, heavy uprights, large valve and heavy malleable top plate and one piece steel shield, burner and coils of extra heavy steel, needle point valve, automatic brass pump, height 17½ in., diam. at base 8½ in., w't each 9½ lbs. ..each $19.00

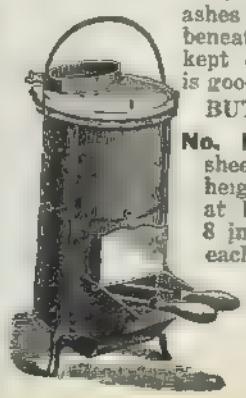
FIRE POTS



No. R3—Gem, gasoline, aluminum bronze, cast iron furnace, removable top, feed regulator, needle valve, all cast brass fittings, japanned wood handle, sliding drip cup, rubber pump bulb 21x7 in. sheet steel base, 10¼x4¾ in. sheet steel reservoir, w't 24 lbs. .....each $28.50



No. R15—Gasoline, seamless drawn steel tank, capacity 1 gal., brass air pump, needle valve, cast hood with opening for melting pot, cast "horse shoe" burner, w't 20 lbs..each $24.00



So constructed that ashes fall into pan beneath coal; fire is kept clear and draft is good.

BUTTLES Pattern

No. R76—Charcoal, sheet iron japanned, height 14 in., diam. at base 6 in., top 8 in., w't 32 lbs., each $9.00

ONE IN A BOX

RUBBER BULBS

No. 45—For gasoline fire pots, w't ¼ lb. .....each $1.00

MELTING POTS

Fits any Make Furnace

No. 65—Size 5 in., cast iron with bail, w't each about 3¾ lbs., each $1.20

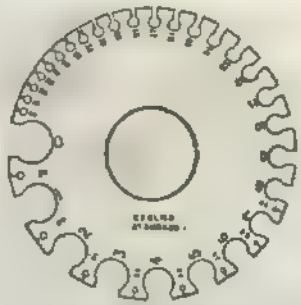
GAS FURNACES

DOUBLE BURNER, FOR NATURAL OR ARTIFICIAL GAS

Burner used gives an intense heat, makes no smoke and economizes time. Air blower not required when heating coppers.

No. R794—Sheet iron top, brick lined, arranged to receive two coppers, each $14.00

STANDARD WIRE GAUGES

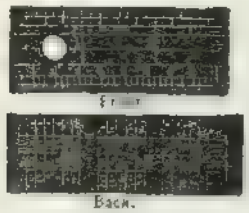


No. 2—Cast steel, round, small, gauges Nos. 6 to 36, w't per doz. each $28.80

No. 1—Cast steel, round, large, gauges Nos. 0 to 36, w't per doz. 2¾ lbs., per dozen $48.00

HALF DOZEN IN A BOX

RULES AND STRAIGHT EDGES



36 in. Long.

Laid off on one side with two rows of figures, the first like an ordinary steel square, by eights and inches up to three feet. The second is a line of circumferences divided into 113 equal parts; each of these divisions is again sub-divided into 8 equal parts, the large divisions representing an inch to a scale and sub-divisions an eighth of an inch. Therefore, against any diameter the circumference in this line to a scale in inches and eighths of inches can be found.

The reverse side of rule gives dimensions of measures and cans. The first two tables are for flaring measures. 1st. Liquid measures, 1 to 5 gal. 2d. Dry measures, 1 to 2 bu., giving diameter of top and bottom and height of each size and kind.

Third table is for cans with pitch or cone tops, 1 to 10 gal., giving diameter of top and body and compass marks for striking breast.

Fourth table is for flat top cans from 100 to 200 gal. (thirty-one different sizes), giving height and diameter.

Fifth table is for dry measure, from 1 qt. to 3 bu., giving height and diameter.

No. 5—Plain polished, w't 1¾ lbs., each $6.50

No. 95—Nickel plated, w't 1¾ lbs., each $8.00

MAGIC PATTERN RULES

Marked in circumference inches on the front and in inches and eighths on the back. The two slides have set screws into which trammel points are fastened. Particularly convenient for laying out elbow patterns.

No. 7—Lufkin's, nickel plated steel bar, length 4 ft. 7/16 in., square, with two slides, trammel points and flexible steel ribbon, with pattern chart mounted on linen, 19x23 in., hinged wooden case w't 7 lbs., each $26.00

TINNERS' RIVETS SETS

Forged from highest quality tool steel, blued finish.

Nos.	00	0	1	2
For rivets, lbs.	14	10&12	8	6
Each	$1.30	1.30	1.20	1.20

Nos.	3	4	5
For rivets, lbs.	4&5	2½&3	1¾&2
Each	$0.90	.90	.70

Nos.	6	7
For rivets, lbs.	1½	1¼
Each	$0.70	.60

HALF DOZEN IN A BOX

REV-O-NOC, forged steel, hardened and tempered, forged finish.

Nos.	00R	0R	1R	2R
For rivets, lbs.	14	10&12	8	6
Each	$0.90	.90	.80	.80

Nos.	3R	4R	5R
For rivets, lbs.	4&5	2½&3	1¾&2
Each	$0.70	.70	.50

Nos.	6R	7R	8R
For rivets, lbs.	1⅛	1¼	⅞&1
Each	$0.50	.50	.50

HALF DOZEN IN A BOX

P. S. & W Co's forged steel, gun metal finish.

Nos.	00P	0P	1P	2P
For rivets, lbs.	14	10&12	8	6
Each	$1.30	1.30	1.10	1.10

Nos.	3P	4P	5P
For rivets, lbs.	4&5	2½&3	1¾&2
Each	$0.90	.90	.70

Nos.	6P	7P	8P
For rivets, lbs.	1⅛	1¼	⅞&1
Each	$0 70	.60	.60

HALF DOZEN IN A BOX

SOLDERING COPPERS

Forged sharp points.

Nos.	1-2	3-4
W't, pair, lbs.	½	¾
Per pair	$0.60	.85

Nos.	1	1½	2	2½
W't, pair, lbs.	1	1½	2	2½
Per pair	$0.70	.90	1.10	1.30

Nos.	3	4	5
W't, pair, lbs.	3	4	5
Per pair	$1.50	2.00	2.50

Nos.	6	8	10
W't, pair, lbs.	6	8	10
Per pair	$3 00	4.00	5.00

LOOSE

SOLDERING COPPER HANDLES

No. 1—Soft wood, wire bound, assorted, w't per doz. 2 lbs., per dozen $0.60

LOOSE

TINNERS' ROOFING AND PLUMBERS' SCRAPERS

Forged from the highest grade of steel, well tempered and finely finished.

No. 996—Solid steel, size ⅜×⅝×10 in., w't per doz. 2 lbs. .per dozen $9.00

HALF DOZEN IN A PACKAGE

Our Very Best is the Very Best.

H.S.B.&CO.
REV-O-NOC

We Stand Behind Our Brand.

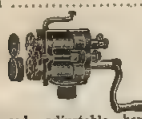
PEXTO TINNERS' MACHINES

TURNING

COLUMBIAN, solid frame, with two sets of faces, for 22 iron and lighter.

No. 542—Large, diam. of faces 3 in., with stand, w't 31 lbs., each $44.00

No. 541—Small, diam. of faces 2 1/16 in., with stand, w't 26 lbs., each $40.00



Encased, adjustable boxes, with two sets of faces, for 24 iron and lighter.

No. 546—Large, diam. of faces 3 in., with stand, w't 28 lbs...each $58.00

No. 545—Small, diam. of faces 2 1/16 in., with stand, w't 23 lbs., each $54.00

Turning machines are used for turning the tops of vessels to receive wire.

WIRING

COLUMBIAN, for 22 iron and solid frame, lighter.

No. 525—Diam. of faces 3 in., with stand, w't 31 lbs. .....each $46 00

Encased adjustable boxes, for 24 iron and lighter.

Wiring machines follow the turning machines. They are intended for rolling sheet metal tightly around wire after its seat has been prepared by the turning machine.

No. 526—Diam. of faces 3 in., with stand, w't 28 lbs, ...each $60.00

BURRING

COLUMBIAN, solid frame, with extra upper face, for 22 iron and lighter.

Burring machines are used for creasing, edging rims of covers for pails, boilers, etc. and for preparing circular edges of bottoms and bodies of vessels for double seaming.

No. 577—Large, diam. of face 2 1/2 in., with stand, w't 25 lbs...each $38 00

No. 576—Small, diam. of face 1 1/4 in., with stand, w't 21 lbs...each $34.00

Encased, adjustable boxes, with extra upper face, for 24 iron and lighter.

Burring machines are used for creasing, edging rims of covers for pails, boilers, etc. and for preparing circular edges of bottoms and bodies of vessels for double seaming.

No. 580—Large, diam. of face 2 1/2 in., with stand, w't 23 lbs. ..each $52.00

No. 579—Small, diam. of face 1 1/4 in., each $48 00

SETTING DOWN

COLUMBIAN, solid frame, for 24 iron and lighter.

Setting down machines follow the burring machines pressing the edge of bottom onto the flange of body in preparation for double seaming.

No. 556—With stand, for seams up to 5/16 in., w't approximately 23 lbs., each $48.00

SETTING DOWN

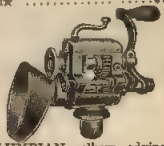
Improved with Adjustable Gauge.

Inclined position of both upper and lower faces allows work to be held up or down and seams to be started inward while setting down, facilitating the operation of double seaming.

No. 562 can be fitted with pulley for power at extra cost.

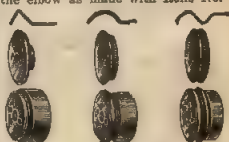
No. F561—Light, for seams up to 3/8 in., capacity 24 iron and lighter, with stand, w't 81 lbs.★ each $56.00

No. F562—Heavy, for seams up to 1/2 in., capacity 18 iron and lighter, with extra heavy stand, w't 100 lbs., each★ $110.00



COLUMBIAN, elbow edging machine, for 24 iron and lighter.

Cut shows position of an elbow in turning the edge; also the form of crease made by the machine to enter corresponding section in completing the elbow as made with Rolls No. 1.



Rolls type No. 1 produce V-shape edges on both elbow sections.

Rolls No. 3 and 4 are preferable for elbows riveted or grooved with loose joint. Faces can be used with and are readily adapted to either Columbia or Encased small turning machine.

Diameter of faces 2 1/2 in.

No. 551—Columbian Elbow Edging Machine, with standard and one pair of rolls, w't each 25 lbs., each $40.00

Specify Type of Rolls Desired.

Ask for Special Tinners' Tools Catalogue Showing a More Complete Line than Shown Here.

★ Items Marked Thus ★ Are Shipped From Factory Only.

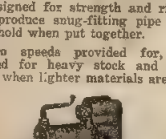
TINNERS' MACHINES

PEXTO CRIMPERS AND BEADERS

Connecting gears of machine cut steel, rolls of high grade steel, scientifically hardened. Adjustments are provided for regulating depth of crimp and bead.

Designed for strength and rigidity and produce snug-fitting pipe joints that hold when put together.

Two speeds provided for, back geared for heavy stock and direct drive when lighter materials are used.



Capacity—20 gauge iron and lighter, diameter beading rolls 1⅜₃₂ in., diameter crimping rolls, 1⅛₁₆ in., back gear, 3 to 1.

No. E585—Stove Pipe with crank screw, for depressing rolls, w't each 66 lbs. .....each $52.00

No. E591—Cornice Maker, diam. of rolls 1¹⁵⁄₁₆ in., back geared 3 to 1, w't each 65 lbs., each $50.00

CRIMPING

No. E285—Packham's for stove and conductor pipe, with standard, w't 24 lbs. .....each $24.00

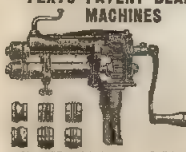
PEXTO PATENT CRIMPING AND BEADING MACHINES

For 26 Gauge and Lighter.

For crimping or beading stove pipe, elbows, furnace pipe, etc., construction throughout is exceedingly strong and rigid, and permits of easy and rapid adjustment, depression of rolls accomplished by foot treadle, contact of upper beading roll is adjusted by lever, which also gives an independent adjustment for raising upper beading roll, taking same out of contact with lower roll, if crimping only is desired, adjustment of this lever is affected by means of an eccentric device, handy and practically instantaneous in action. Application of this feature greatly increases simplicity, as operation of crimping alone can be performed without substituting blank collars for beading rolls. Crank adjustable to light or heavy work.

No. F602—With treadle, w't each 38 lbs.★ .....each $56.00

PEXTO PATENT BEADING MACHINES



For No. 24 Iron and Lighter.

Size of beads, Ogre 2 in., Triple ⅜ in., Triple Coffee Pit ⅜ in., Single ⅛₁₆ in.

Beading or swaging machines are intended for stiffening and ornamenting pipe, bodies of pails, cans, boilers, etc.

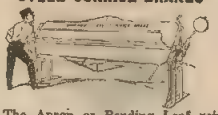
No. E620—9 in. throat, with four pairs rollers and stand, w't 50 lbs., each $56.00

For No. 20 Iron and Lighter.

Illustration shows single beading rolls and supporting arm attached.

No. F617—13 in. throat, with three pairs rollers and stand, w't 140 lbs., each★ $110.00

STEEL CORNICE BRAKES



The Apron or Beading Leaf reinforced by angular shaped strengthening plate. Substantial truss rods provided for additional support and adjustment.

Five Formers, all sizes in general use for making moulding, furnished.

A Steel Angle Bar is bolted to apron to give additional leverage when bending extra heavy material.

Stop Gauges furnished free of cost.

The Clamping of materials is done by means of an eccentric on each end.

When ordered with Eccentric Levers, connected brakes are so fitted without additional cost.

Set Screws provided on ends which move the upper jaw forward and back to accommodate heavy or light material and for sharp or rounding bends.

An Eccentric Bushing in lower part of connecting link allows for greater or less pressure on material.

The Angle Bar, as well as the special steel bar, is removable from the apron and narrow opposing members can then be formed. Apron edge is ⅛ inch, from which ¼ inch is detachable.

No. F4—Forming edge 8 ft. 1 in. long, for cornice and other light work as well as ⅜ in. and more, bends on No. 18 gauge, **complete with angle bar** and five formers, w't 1000 lbs.★ .....each $324.00

HARE'S PATENT FOUR LEAF CORNICE BRAKES

For No. 20 Iron and Lighter.

The bending leaf is properly balanced by weights, and is provided with a forcing bar for bading heavy iron.

Seven formers to be attached to the brake for making circular bends are furnished, sizes ⅜, 2½, 2, 1½, 1¼, 1 and 1 in.

No. F686—98 in., w't 3650 lbs., each★ .....$.....

Ask for Special Tinners' Tools Catalogue Showing a More Complete Line than Shown Here.

★ Items Marked Thus ★ are Shipped from Factory Only

TINNERS' MACHINES

FOLDING MACHINES

STOW'S patent improved adjustable bar folder for No. 22 iron and lighter.

The gauge is operated by hand wheel in front of machine. Set screw in front at left holds gauge firmly in place and secures a fold or lock of uniform width the entire length. These machines form square joints or angles and turn sharp edges, also round edges for inserting wire. Locks ¼ in. to 1 in. can be formed.

No. E62—20 in., w't 100 lbs., each $110.00

No. E63—30 in., w't 180 lbs., each $130.00

WRIGHT'S, 30 in., improved, for No. 24 iron and lighter.

This machine will turn locks of different widths on any length of sheet. May be used on material as thick as No. 24 gauge.

No. E1—Will turn locks ¼ and ⅜ in., w't 80 lbs. .....each $56.00

No. E12A—Will turn locks ¼, ⅜, ½ and ⅝ in., w't 90 lbs., each $80.00

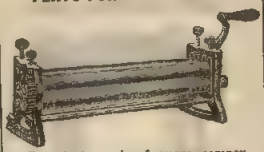
30 In. Long.

Will form 20 iron into 10 in. or 22 iron into 5 in. cylinders.

Grooves are cut in rolls to allow work being formed after wiring.

No. E357—2 in. rolls, w't 140 lbs., each $48 00

PEXTO FORMING MACHINE



Patent stove pipe formers, compensating gear, 30 in. long.

No. E374 will form 20 iron into 10 in., or 22 iron into 5 in. cylinders.

No. E373 will form 22 iron into 8 or 10 in. cylinders.

Gears are machine-cut steel and rolls are made of special rolled hard steel. Grooves are cut in rolls to allow forming of cylinders after wiring.

No. E373—2 in. rolls, w't 140 lbs., each $58.00

Will form 20 iron into 10 in., or 22 iron into 5 in. cylinders.

These machines are much more easily adjusted and can be set for forming any desired size of cylinder in much less time than is required to set others. They are made with Slip Rolls, so that small work can be readily taken from the end after it has been formed.

No. E382—Grannis', patent slip roll stove pipe former, with compensating gear, 2 in. rolls, 30 in. long, w't 160 lbs. .....each $72.00

EAVE TROUGH END FORMERS

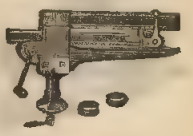
The Tool.

The Work.

No. 6—Bishop's, cast Iron Trough, in.	4	4½	5
W't, lbs.	3½	4	5
Each $1.20	1.30	1.60	

For closing end of eave trough in corrugations as shown in illustration.

PEXTO BRASS MOUNTED GROOVING



With steel bar and milled horn, for No. 24 iron and lighter.

No. E502—20 in., three grooving rolls, one each ⅜, 9/32 and 7/32 in., with standard, w't 100 lbs... each $64.00

IMPROVED PATENT GROOVING MACHINES

For No. 22 iron and lighter.

Grooving horn is reversible so that either the flat surface or one of the groves that are planned into the horn can be turned upward.

One smooth or flattening roll and three grooving rolls are furnished.

No. F507—30 in., rolls 9/32, ¼ and ⅜ in., w't 110 lbs.★ .....each $110.00

PEXTO IMPROVED PATENT GROOVING MACHINES

Improved Machine Standards.

No. 975—For use with all except wiring machine, size of hole 1⅛ in., height over all from bench 9¾ in., w't each 10½ lbs. .....each $3.00

No. 976—Wiring machine, size of hole 1⅛ in., height over all from bench 9¾ in., w't each 11 lbs., each $3.00

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TINNERS' MACHINES

PEXTO RING AND CIRCULAR SHEARS

Intended for cutting circles or internal rings and irregular curves. In circular cutting the blanks are clamped between rubber covered discs by means of a quick acting, eccentric, lever device adjustable for exerting extreme uniform pressure to prevent the work from slipping and insuring more accurate cutting. The bed on which the Tail Piece slides is graduated in inches and fractions of inches for quick setting of the Tail Piece for the size circle to be cut. The angular position of Cutters allows for as clean cutting on the inside as on the outside of circle.

No.	F298	F299
Will cut circles, in.	3½ to 22	3½ to 38
Wt., lbs.	195	290
Each	$140.00★	180.00★

WAUGH'S PATENT CIRCULAR SHEARS

For No. 22 Iron and Lighter.

No. E278—Will cut circles from 2¾ to 22 in., wt 125 lbs. ....each $110.00

Suitable for cutting circles, trimming or squaring tin plate, sheet iron, brass and copper.

A graduated scale is attached to the bed for the purpose of securing quick and accurate adjustment of the sliding [redacted].

They are fitted with quick-acting eccentric lever, which clamps material between discs with great rapidity and releases the blank instantly.

PEXTO SQUARING SHEARS

Capacity No. 18 Gauge Iron and Lighter.

No. E132A—Cuts 30 in., wt 540 lbs., each $190.00

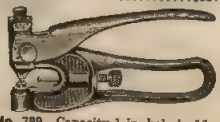
No. E137A—Cuts 36 in., wt 650 lbs., each $260.00

Furnished with complete gauge equipment, one pair front arms. No. 137A has hold-down attachment.

BENCH SHEARS

Made of best materials, blades of crucible tool steel, useful in all metal working shops, tool rooms, garages. For cutting automobile brake bands, leather belting, strip steel.

No. F20—Length of blade, 3 in., capacity 12 gauge, wt each 24 lbs., each★ $30.00



No. 789—Capacity ¼ in. hole in 16 ga. iron with three punches and dies, ⅛, 3/16 and ¼ in. Length over all 8½ in., depth of throat 1½ in., wt 3 lbs. .....each $15.60

PEXTO COMBINATION SHEARS AND PUNCHES

These machines are suitable for both cutting and punching metal. They may be used for cutting ¼ inch iron and ⅜ and ½ inch narrow bars. The No. E678 will punch the center of a circle 5½ in. in diameter and the No. E679, 5½ in. Four Punches are put up with No. E678, viz., ⅛, 3/16, ¼ and 5/16 in. Five Punches are put up with No. E679, viz., ⅛, 3/16, ¼, 5/16 and ⅜ in.

No. E678—4½ in. cut, will punch ¼ in. iron, wt 105 lbs., each $72.00

No. F679—5½ in. cut, will punch 3-16 in. iron, wt 122 lbs., each★ $88.00

PEXTO SAMPSON PUNCHES

Will punch No. 9 iron with and No 12 without, "stay bolts" and will center on 30 in. sheets without and on 7 in. sheets with them.

No. E675—Improved, bolt fastened, adjustable gauge depth of gap 15 in., 3 sets of dies and punches, ⅛, 3/16 and ¼ in., wt 125 lbs. .....each $80.00

HAND PUNCHES

Made with compound lever principle, blades solid crucible tool steel, running full length of jaw.

No. F30—Total length 33 in., length of blade 8 in., length of cut 4¾ in., capacity 12 gauge, wt each 16 lbs. each★ $38.00

TINNERS' HAND SHEARS OR SNIPS

SHEAR OR SNIPS

Crocus Finished Blades, Gun Metal Handles, Steel Laid and of Superior Finish.

Snips are Forged from the Best Material Obtainable. They are Accurately Fitted and in Every Way Designed for the Workmen who Demand the Best to be had.

STRAIGHT

Nos.	57	58	59
Length, in.	14½	13½	12½
Cut, in.	4	3½	3
W't, lbs.	2⅜	2¼	1⅞
Per pair	$4.50	3.60	3.10
Nos.	**510**	**511**	**512**	**513**
Length, in.	11	10½	10	8½
Cut, in.	2½	2¼	2	1⅞
W't, lbs.	1⅜	1	⅞	¾
Per pair	$2.90	2.20	1.80	1.60

CIRCULAR

Nos.	570	580	590
Length, in.	14½	13½	12½
Cut, in.	4	3½	3
W't, lbs.	2½	2¼	1⅞
Per pair	$6.30	5.40	5.00

ROUNDED BACK

Will Cut Circles, Scrolls and Irregular Shapes.

Nos.	147	148	149
Length, in.	14½	13½	12½
Cut, in.	4	3½	3
W't, lbs.	4	3½	3
Per pair	$5.40	4.50	4.00

"LYON" PATTERN

Round Back, Very Sharp Points, Will Cut Circles, Scrolls and Irregular Shapes.

Nos.	27	28	29
Full length, in.	14	13	11½
Cut, in.	3½	3	2½
W't, lbs.	1⅝	1½	1⅛
Per pair	$4.50	3.70	3.20

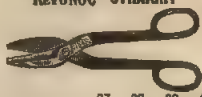
ALL OF ABOVE ONE PAIR IN A BOX

REVONOC SHEAR OR SNIPS

DROP FORGED STEEL LAID

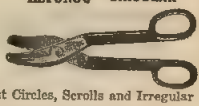
REVONOC Snips are Forged from Highest Quality Material. They are Accurately Fitted and in Every Way Designed for the Workmen who Demand the Best to be had.

REVONOC STRAIGHT



Nos.	37	38	39	40	41	42
Full length, in.	14½	13½	12½	11	10½	10
Cut, in.	4	3½	3½	2½	2½	2
W't, lbs.	2¼	1½	1	1	¾	⅝
Per pair	$4.30	3.40	3.00	2.80	2.10	1.70

REVONOC CIRCULAR



Will Cut Circles, Scrolls and Irregular Shapes.

Nos.	218	219
Full length, in.	13½	12½
Cut, in.	3½	3
W't, lbs.	1½	1
Per pair	$5.20	4.80

P. S. & W. CO.'S SHEARS

The P. S. & W. Co.'s Snips are Forged from the Best Norwegian Iron, are Steel Laid and Fully Warranted.

1819 ORIGINAL

Straight.

Nos.	6½	7	8	9	10	11	12	13
Full length, in.	15⅝	14½	13½	12	11	10½	8½	8
Cut, in.	4½	4	3½	3	2½	2½	2	1⅔
Weights, lbs.	3½	2½	2⅛	1½	1	⅞	⅝	½
Per pair	$7 00	6.00	5.00					

CIRCULAR, Will Cut Circles, Scrolls and Irregular Shapes.

Nos.	70	80	90
Full length, in.	14½	13½	12
Cut, in.	3½	3½	3
W't, lbs.	2½	2	1⅞
Per pair	$0.00	5 00	4.00	3 50	3 20	2.40	2.00	1.80

ALL OF ABOVE ONE PAIR IN A BOX

Illustrations show left hand shears, which have the lower blade on left side—Left hand shears are generally used and are always sent unless otherwise specified.

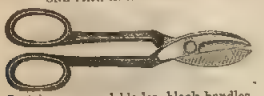
TINNERS' SHEARS OR SNIPS

CRUSO STRAIGHT

No. 19—Cruso, solid forged steel, 12⅜ in. long, cut 3 in., w't per pair 1⅞ lbs. .....per pair $1.80
ONE PAIR IN AN ENVELOPE; FOUR PAIRS IN A BOX

HOUSEHOLD

No. 18—Cruso, solid forged steel, length 10 in., cut 2¼ in., w't per pair 1 lb., per pair $1.40
A good serviceable snip, suitable for general use, at a low price.
ONE PAIR IN AN ENVELOPE



Cast iron, ground blades, black handles.
No. 20—Length 11¼ in., cut 2¼ in., w't 2¾ lbs., each $0.50
ONE PAIR IN AN ENVELOPE

POCKET SNIPS

Solid forged steel, polished blade, length 7 in., cut 2 in., w't per pair ½ lb.
No. 514 C†B—Polished and blued handles, per pair $1.50
No. 214 Cruso—Japanned handles, ...per pair $1.30
ONE PAIR IN AN ENVELOPE, SIX PAIRS IN A BOX

REVONOC DENTAL OR JEWELERS

Japanned handles, nickel plated blades.

Nos.	21	22
Length, in.	6½	6½
Cut, in.	1½	2
W't, pair, lbs.	½	¾
Per pair	$1.30	1.50

HALF DOZEN IN A BOX

COMPOUND LEVER SNIPS
SEARIGHT PATENT

Finest quality crucible steel tempered by the most approved process.

Nos.	108	110	112	114
Length, in.	8	10	12	14
Length cut, in.	1½	2½	3	3½
W't, pr., lbs.	⅞	1½	2½	3
Per pair	$5 50	6.50	9.00	10 50

Has three times the power at the point as the ordinary snip and is but a trifle heavier.

"TROJAN" SHARP POINTED SNIPS

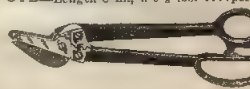
No. 78—High grade steel, japanned handles, length 13 in., 2¾ in. cut, w't per pair 1⅞ lbs. .....per pair $6.00
Adapted for cutting sheet metal, pasteboard, mica, linoleum, veneering, etc. Straight or curved lines.
ONE PAIR IN A BOX

HAWK'S BILL

Improved pointed curved hand shears.
No. 15—Pointed snips, blade 8 in., entire length 11⅞ in., w't per pair 1⅛ lbs. .....per pair $6.00
Capable of cutting in sheet metal trimmings of any size and shape. Letters easily cut. Especially adapted for cutting off the bottoms of metal vessels and openings in pipes or cylinders.
ONE PAIR IN A BOX

C†B COMBINED SHEARS AND PIPE CRIMPERS

No. 91 C†B—Length 8 in., w't ¾ lbs. ....per pair $4.50



Polished blades, gun metal handles, drop forged steel.
No. 92 C†B—Combined double cutting shear and pipe crimper, interchangeable parts, steel crimping jaws, length 12⅞ in., actual cut 1⅞ in., w't 2¼ lbs., per pair $6.00
ONE PAIR IN A BOX

BENCH

Japanned handles, forged steel blades, bent heels.

Nos.	00	0	1	2
Cut (catalog), in.	11½	10½	9	8½
Capacity gauge iron	18	18	18	19
W't, lbs.	36	30	24	19
Per pair	$42.00	38.50	27.00	24.00
Nos.	4	5	6	
Cut (catalog), in.	7⅞	6½	5½	
Capacity gauge iron	20	21	22	
W't, lbs.	12	9	6	
Per pair	$19.00	18.00	15.00	

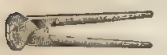
CUTTING NIPPERS

REVISED ACME, polished steel jaws.

Nos.	1	2
Lengths, in.	12	11
W't per doz.	24	21
Per dozen	$66.00	60.00
Extra Jaws, dozen prs.	$14.40	14.40

Nos.	3	4
Lengths, in.	10	8
W't per doz., lbs.	18	9
Per dozen	$54.00	48.00
Extra Jaws, dozen prs.	$14.40	14.40

ONE IN A PACKAGE



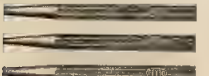
CAREW, forged tool steel jaws.

Nos.	1	2
Length, in.	14	12
W't per doz., lbs.	45	33
Per dozen	$105.60	87.00
Extra Jaws, dozen prs.	$25.20	24.00

Nos.	3	4
Length, in.	10	8
W't per doz., lbs.	24	18
Per dozen	$75.00	69.00
Extra Jaws, dozen prs.	$21.60	20.40

ONE IN A PACKAGE

TINNERS' SOLID PUNCHES



Cast steel, length 4¼ to 5 in.

Nos.	0	1	2
Size, in.	9/32	1/4	7/32
Tinners' rivets, lbs.	12	10	8
Per dozen	$3.00	3.00	3.00

Nos.	3	4	5
Size, in.	5/16	5/32	1/4
Tinners' rivets lbs.	6	4	2
Per dozen	$3.00	3.00	3.00

Nos.	6	7
Size, in.	3/32	1/16
Tinners' rivets, lbs.	1	1/2
Per dozen	$3.00	3.00

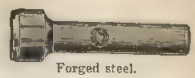
ONE DOZEN IN A BOX

TINNERS' PRICK PUNCHES

No. 80—3½ in. high quality knurled pattern, polished head and taper 3/4 in. diam., 4 in. long, w't per doz. 1½ lbs., per dozen $3.50
ONE DOZEN IN A BOX

Polished point, length 4½ in.
No. 90—Forged steel, w't per doz. 1½ lbs. ..... per dozen $3.00
ONE DOZEN IN A BOX

TINNERS' HOLLOW PUNCHES



Forged steel.

Nos.	59	60	61
Diameter, in.	1/4	3/8	1/2
W't doz., lbs.	1½	3	4
Per dozen	$16.80	16.80	16.80
Nos.	62	63	64
Diameter, in.	5/8	3/4	7/8
W't, doz., lbs.	6	7½	8
Per dozen	$21.00	25.20	29.50
Nos.	65	66	67
Diameter, in.	1	1¼	1½
W't, doz., lbs.	10½	12	15
Per dozen	$36.00	40.50	45.00
Nos.	68	69	70
Diameter, in.	1¾	1⅞	2
W't, doz., lbs.	18	25½	27
Per dozen	$54.00	63.00	72.00

¼ TO ½ IN., ONE DOZEN; ¾ TO 1¾ IN., ONE-HALF DOZEN 2 IN., ONE-THIRD DOZEN IN A BOX; BALANCE, LOOSE

TINNERS' LANTERN CHISELS

For cutting holes in circular work, ½-3½ in.
No. 100—Cast steel, polished point, w't per doz. 2½ lbs. per dozen $6.00
ONE DOZEN IN A BOX

TINNERS' WIRE CHISELS

Cast steel, polished tempered face, for cutting wire and small work of all kinds.

Nos.	12	13
Width, in.	1⅜	2¼
Per dozen	$5 50	7 50

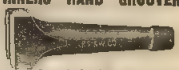
¼ TO ½ IN., ONE DOZEN; BALANCE, HALF DOZEN IN A BOX

TINNERS' SCRATCH AWLS

HURWOOD
No. 77—Length 7½ in., heavy cast steel tempered and polished point, shank running through handle, riveted and headed, beech handle, polished steel ferrule, w't per doz. 3½ lbs. ..... per dozen $6.00
HALF DOZEN IN A BOX

No. 01—Ring Awl, solid steel, length 8½ in. ..... per dozen $6.00

TINNERS' HAND GROOVERS



Cast steel, polished tempered face.

Nos.	00	0	1	2
Groove, in.	7/16	3/8	5/16	11/32
W't doz., lbs.	16½	16½	15	15
Per dozen	$24.00	24.00	21.60	21.60
Nos.	3	4	5	
Groove, in.	9/32	7/32	5/32	
W't, doz., lbs.	12	12	10½	
Per dozen	$19.20	19.20	19.20	

HALF DOZEN IN A BOX

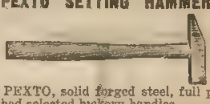
PEXTO RIVETING HAMMERS

PEXTO, solid forged steel, full polished selected hickory handles.

Nos.	1	2	3	4
Face, in.	1¼	1	⅞	¾
W't, doz., lbs.	15	12	9	6
Per dozen	$25.20	22.00	19.20	18.50

HALF DOZEN IN A BOX

PEXTO SETTING HAMMERS



PEXTO, solid forged steel, full polished selected hickory handles.

Nos.	1	2	3	4
Face, in.	1¼	1	⅞	¾
W't, doz., lbs.	15	12	8	6
Per dozen	$25.20	22.00	19.20	18.50

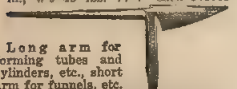
HALF DOZEN IN A BOX

TINNERS' TOOLS

WROUGHT IRON STAKES WITH POLISHED STEEL FACES

Used for beveled or square work.

No. E901—Beakhorn stake, round tapering end 16¼ in., flat end 20×00 in., w't 45 lbs. . . . each **$48.00**

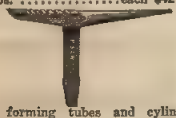


Long arm for forming tubes and cylinders, etc., short arm for funnels, etc.

No. 925—Common Blowhorn, large end 9 in., small end 17⅛ in., both tapering, w't 10 lbs. ...each **$26.00**

For all kinds of hard work and double seaming.

No. E921—Double Seaming, large end 17 in., small end 12 in., w't 24 lbs. .....each **$42.00**



For forming tubes and cylinder creasing, etc.

No. 927—Creasing, with horn, round tapering end 9⅜ in., flat end 6½ in., w't 12¾ lbs. .....each **$26.00**

For very small cylinders, etc.

No. 967—Needle case, flat end 8 in., small tapering end 10¼ in., w't 4 lbs., each **$13.00**

For small tubes, rings, etc.

No. 956—Candle mould, small end 18 in., horn 8¼ in., both arms round and tapering, w't 6½ lbs., each **$16.00**

WROUGHT IRON STAKES WITH STEEL FACE

Hatchet.

Nos.	943	944
Length of blade, in.	13	11
W't, lbs.	9	6
Each	$16.00	14.00

No. 936—Common square, face 2⅝×4½ in., w't 11 lbs. ...each **$13.00**

CAST IRON STAKES

Polished faces, size A, 6 in.; size B, 8½×2⅞×3¼ in.; size C, 5½×4½ in.; size D, 5⅞×4½×3⅞ in.

No. E949—Double seaming, with 4 heads, round, square, oblong and oval, w't 110 lbs. .....each **$36.00**

Cast iron, polished face, for locking seams on conductor pipe.

No. E971—Conductor, turned, large end 15 in., small end 11½ in. long, w't 30 lbs. .....each **$18.00**

HOLLOW MANDRELS

Cast iron, polished face, heavy clamps for attaching to bench.

No. E910—Entire length 3 ft. 4 in., flat part 9 in. long 6 in. wide, oval part 31 in. long, w't 60 lbs., each **$18.00**

PIPE MANDRELS

No. E65—Cast stove pipe, length 36 in., width 4¼ in., w't 38 lbs., each **$11.00**

A low-priced mandrel for a dealer who does not have a regular tinshop.

BENCH PLATES

Cast iron, planed surface.

No. E981—37×8 in., w't 50 lbs., each **$20.00**

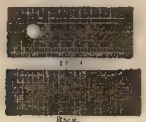
No. E982—30×8 in., w't 37 lbs., each **$14.00**

"HANDY" SEAMERS

Adjustable for seams of different widths up to ⅞ in. Can be used where larger seamers would not be practical. As it is light it can be carried in tool kit or pocket.

No. 791—Japanned, length 7 in., width 3⅜ in. ....per dozen **$48 00**

RULES AND STRAIGHT EDGES



Back.

36 in. Long.

Laid off on one side with two rows of figures, the first like an ordinary steel square, by eights and inches up to three feet. The second is a line of circumferences divided into 113 equal parts; each of these divisions is again sub divided into 8 equal parts, the large divisions representing an inch to a scale and sub-divisions an eighth of an inch. Therefore, against any diameter the circumference in this line to a scale in inches and eighths of inches can be found.

The reverse side of rule gives dimensions of measures and cans. The first two tables are for flaring measures. 1st. Liquid measures, 1 to 5 gal. 2d. Dry measures, 1 to 2 bu., giving diameter of top and bottom and height of each size and kind.

Third table is for cans with pitch or cone tops, 1 to 10 gal., giving diameter of top and body and compass marks for striking breast.

Fourth table is for flat top cans from 100 to 200 gal. (thirty-one different sizes), giving height and diameter.

Fifth table is for dry measure, from 1 qt. to 3 bu., giving height and diameter.

No. 5—Plain polished, w't 1⅔ lbs., each $8 50

No. 95—Nickel plated, w't 1⅔ lbs., each $8.00

MAGIC PATTERN RULES

Marked in circumference inches on the front and in inches and eighths on the back. The two slides have set screws into which trammel points are fastened. Particularly convenient for laying out elbow patterns.

No. 7—Lufkin's, nickel plated steel bar, length 4 ft. 7/10 in., square, with two slides, trammel points and flexible steel ribbon, with pattern chart mounted on linen, 19x28 in., hinged wooden case w't 7 lbs., each $26.00

TINNERS' RIVETS SETS

Forged from highest quality tool steel, blued finish.

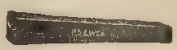
Nos.	00	0	1	2
For rivets, lbs.	14	10&12	8	6
Each	$1.30	1.30	1.20	1.20
Nos.	3	4	5	
For rivets, lbs.	4&5	2½&3	1½&2	
Each	$0.90	.90	.70	
Nos.		6	7	
For rivets, lbs.		1½	1¼	
Each		$0.70	.60	

HALF DOZEN IN A BOX

Riveting, forged steel, hardened and tempered, forged finish.

Nos.	00R	0R	1R	2R
For rivets, lbs.	14	10&12	8	6
Each	$0.90	.90	.80	.80
Nos.		3R	4R	5R
For rivets, lbs.		4&5	2½&3	1½&2
Each		$0 70	.70	.50
Nos.		6R	7R	8R
For rivets, lbs.		1½	1¼	⅞&1
Each		$0.50	.60	.50

HALF DOZEN IN A BOX



P. S. & W Co's forged steel, gun metal finish.

Nos.	00P	0P	1P	2P
For rivets, lbs.	14	10&12	8	6
Each	$1 30	1.30	1.10	1.10
Nos.		3P	4P	5P
For rivets, lbs.		4&5	2½&3	1½&2
Each		$0.90	.90	.70
Nos.		6P	7P	8P
For rivets, lbs.		1½	1¼	⅞&1
Each		$0.70	.60	.60

HALF DOZEN IN A BOX

SOLDERING COPPERS

Forged sharp points.

Nos.			1-2	3-4
W't, pair, lbs.			1	3
Per pair			$0.60	.85
Nos.	1	1½	2	2½
W't, pair, lbs.	1	1½	2	2½
Per pair	$0.70	.90	1.10	1.30
Nos.	3	4	5	
W't, pair, lbs.	3	4	5	
Per pair	$1.50	2.00	2.50	
Nos.	6	8	10	
W't, pair, lbs.	6	8	10	
Per pair	$3.00	4.00	5.00	

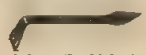
LOOSE

SOLDERING COPPER HANDLES

No. 1—Soft wood, wire bound, assorted, w't per doz. 2 lbs., per dozen $0.60

LOOSE

TINNERS' ROOFING AND PLUMBERS' SCHAPERE



Forged from the highest grade of steel, well tempered and finely finished.

No. 996—Solid steel, size ⅞ x 3 x 10 in., w't per doz. 2 lbs. per dozen $9.00

HALF DOZEN IN A PACKAGE

Our Very Best Is the Very Best.

H.S.B.&CO.
REV-O-NOC

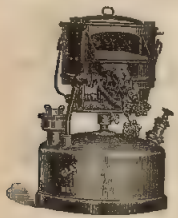
We Stand Behind Our Brand.

TINNERS' TOOLS

FIRE POTS

Burner produces an intensely hot flame, free from smoke, will heat irons and a pot of metal at one time. Top section may be removed and open flame used.

No. R50 Revised—Gasoline, heavy, welded steel tank, capacity 5 pts., fixed brass air pump, never leak type, positive needle valve, height 12 in., diam. at base 8¾ in., top 6 in., w't 13 lbs. .....each $22.30

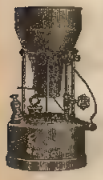


C and L.

Gasoline, seamless drawn steel tank with large funnel and filler, fixed brass pump, needle valve, fittings welded, not soldered. Heats irons and a pot of metal at same time. Top section may be removed and open flame used.

Nos.	R1	R5
Capacity, pts.	7	5
Height, in.	13	13
Diam. at base, in.	9¾	8¼
Diam. at top, in.	7	6¼
W't, lbs.	11	10¼
Each	$24.50	22 30

ONE IN A BOX

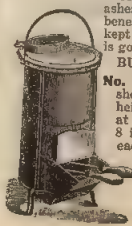


No. R21—C. and L., gasoline, seamless drawn steel tank, large funnel and filler, heavy uprights, large valve and heavy malleable top plate and one piece steel shield, burner and coils of extra heavy steel, needle point valve, automatic brass pump, height 17½ in., diam. at base 8¾ in., w't each 9¾ lbs. ..each $18.00

FIRE POTS

No. R3—Gem, gasoline, aluminum bronze, cast iron furnace, removable top, feed regulator, needle valve, all cast brass fittings, japanned wood handle, sliding drip cup, rubber pump bulb 21x7 in. sheet steel base, 10½x4¾ in. sheet steel reservoir, w't 24 lbs. .....each $28.50

No. R15—Gasoline, seamless drawn steel tank, capacity 1 gal., brass air pump, needle valve, cast hood with opening for melting pot, cast "horse shoe" burner, w't 20 lbs..each $24.00



So constructed that ashes fall into pan beneath coal; fire is kept clear and draft is good.

BUTTLES Pattern

No. R76—Charcoal, sheet iron japanned, height 14 in., diam. at base 6 in., top 8 in., w't 32 lbs., each $9.00

ONE IN A BOX

RUBBER BULBS

No. 45—For gasoline fire pots, w't ¾ lb. .....each $1.00

MELTING POTS

Fits any Make Furnace

No. 65—Size 5 in., cast iron with bail, w't each about 3¼ lbs., each $1.20

GAS FURNACES

DOUBLE BURNER, FOR NATURAL OR ARTIFICIAL GAS

Burner used gives an intense heat, makes no smoke and economizes time. Air blower not required when heating coppers.

No. R794—Sheet iron top, brick lined, arranged to receive two coppers, each $14.00

STANDARD WIRE GAUGES

No. 2—Cast steel, round, small, gauges Nos. 6 to 36, w't per doz. each $28.80

No. 1—Cast steel, round, large, gauges Nos. 0 to 36, w't per doz. 2½ lbs., per dozen $48.00

HALF DOZEN IN A BOX

NIEHOFF MAGNETO AND DISTRIBUTOR REPAIRS

These parts consist of practically all the popular items generally used for replacement on all makes of Automobiles, Trucks and Tractors. The material and workmanship is of the very highest grade. Every precaution has been taken to make each part accurate so that it will properly fit the system it is intended for.

PARTS TO FIT REMY

No.	Description	Each
F263½	Distributor Rotar consists of 4 patterns. A list of cars using the respective patterns is listed below. Order accordingly.	$ .44
F263½-A	Distributor Rotar (4 Cyl., clockwise) used on following cars: 1. Chevrolet—1918, 4 Cyl. 2 Harley-Davidson Motorcycle—1918, Model (18-J)	.44
F263½-B	Distributor Rotar (6 Cyl., clockwise) used on following cars: 1. Chalmers—1918, 6 Cyl. 2. Grant—1918, 6 Cyl. 3. Kissel Kar—1918, 6 Cyl., 100 Point Six. 4 Oakland—1918, 6 Cyl. 5. Oldsmobile—1918, 6 Cyl. 6 Paige—1918, 6 Cyl. 7. Scripps-Booth—1918, 6 Cyl. 8. Velie—1918, 6 Cyl	.44
F263½-C	Distributor Rotar (6 Cyl., Counter clockwise) used on following cars: 1. Studebaker—1918, 4 Cyl., 19 Series. 2. Mitchell—1918, 6 Cyl.	.44
F263½-D	Distributor Rotar (4 Cyl., counter clockwise) used on following cars: 1. Studebaker—1918, 4 Cyl., 19 Series.	.44
F287	Cam Puller for Remy	.24
F300	Cond. Filler for Remy	2 00
F309	Tension Coil Spring	.12
F30	Carbon Brush fits Remy Distr. Models S. L.	.16
F31	Carbon Brush fits Remy Distr. Models RD, RL	.16
F32	Carbon Brush fits Remy Ignition Distr., 4 Cyl.	.26
F33	Carbon Brush fits Remy Ignition Distr., 6 Cyl.	.12
F504	Four Cyl. Distr. Cap. Screw Terminal type	2 80
F505	Six Cyl. Distr. Cap. Screw Terminal type	.83 00
F506	Four Cyl. Distr. Cap. Plug Terminal type	2 80
F507	Six Cyl. Distr. Cap. Plug Terminal type	3 00
F525	Brass Terminal Nut for Distributor to fit F504 and F505	.24
F18	Platinum-pointed Vibrator Spring fits S. L. T.	4 40
F19	Plat. Screw (short) RD & RL and Ign. Distr.	4 40
F20	Contact Screw L.	4.40
F21	Contact Screw S.	4 40
F23	Plat. Screw fits RD & RL	4.40
F24	Plat. Breaker Bar fits Remy Distr.	5 00
F25	Plat. Breaker Bar fits 1916 Remy Distr.	5.40
F26	Plat. Breaker Bar fits 1916 Remy Distr	5 40
F27	Tungsten Breaker Bar fits 1916 Distr	64
F27S	Tungsten Breaker Bar fits 1918 Distr.	60
F27½	Silver Breaker Bar fits 1916 Distr.	80
F28	Plat. Screw—Remy Distr.	4 40
F29	Tungsten Screw fits 1916 Distr.	.40
F29S	Tungsten Screw fits 1918 Distr	.40
F29½	Silver Screw fits 1916 Distr.	40
F140	Plat. Contact for No. 18	4 00
F149	Tungsten Contact (small) fits No. 27S	40
F150	Tungsten Contact (large) fits No. 27	50
F166	Wrench for Remy	50
F166½	Wrench for Remy	50
F261	Distributor Block, 4 Cyl. type	44
F262	Distributor Block, 6 Cyl. type	44
F263	Distributor Block, 8 Cyl. type	44
F288	Resistance Unit, 6 volt	.50

Entire Page For Factory Shipment Only.

NIEHOFF MAGNETO AND DISTRIBUTOR REPAIRS

PARTS TO FIT SPLITDORF

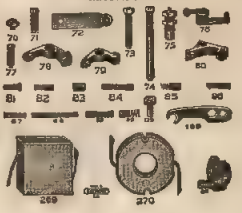
F1—Breaker Screw—B. D. G. S. SS.	$4 40
F2—Plat. Screw fits all Dixie Models used with 8 and 11	4.00
F3R—Plat. Breaker Bar E. U. 4 (Clockwise)	4.40
F3L—Plat. Breaker Bar E. U. 4 (Anti-Clockwise)	5.40
F4—Plat. Screw to fit E. U. 4	4 40
F5—Plat. Screw (long) to fit all Models	4.40
F6—Plat. Screw (short) fits Dixie H2	4 40
F7—Breaker Bar—F. H. O. T. W. X. Y. Z.	5.40
F8—Plat. Breaker Bar fits Dixie 40	5 00
F9—Breaker Lever—B. D. G. S. & L.	5 40
F10—Plat. Breaker Bar fits Dixie H2	5 40
F11—Plat. Breaker Bar fits Dixie 44	5.40
F12—Plat. Contact fits 8 and 11	4 00
F146—Plat. Contact to fit Nos. 7 and 9	4 00
F162—Wrench for Splitdorf	.14
F508—Dixie Distr. Disc, 4 Cyl. Model 40-41	2 80
F508—Dixie Distr. Disc. 6 Cyl.	2 80
F526—Terminal Nut to fit 527	.40
F527—Four Cyl. Distr. Cap (Splitdorf type)	4.00
F13—Carbon Brush fits Splitdorf Distr.	10
F14—Gauze Brush fits Splitdorf Collector	.15
F15—Brush fits Splitdorf Collector W. X. Y. Z.	.25
F16—Gauze Brush fits Splitdorf, Models EU, EB.	.15
F17—Carbon Brush fits Dixie	.10
F314—Twin Gauze Grounding Brush, Model 441	.25
F315—Carbon Distributor Brush, Model 441	10
F316—Carbon Plunger Brush, to fit Distr. cover	.25

PARTS TO FIT SIMMS MAGNETO

F57—Carbon Brush fits Simms Distr. Model SU.	.25
F58—Metal Brush fits Simms Breaker, Model SU.	.20
F59—Carbon Brush fits Simms Collector, Model SU.	.15

For other parts to fit Simms see Nos. 34-35 & 164 illustrated and described under the heading to fit Bosch

PARTS TO FIT EISEMANN MAGNETO

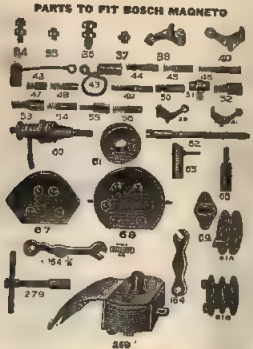


	Each
F70—Plat. Contact Screw EM, EU, EA (short)	$4.40
F71—Plat. Contact Screw G4 (long)	4.40
F72—Plat. Spring fits G4	4 40
F72½—Pressure Spring with fibre button	.20
F73—Long Plat Screw Breaker EM	4 40
F74—Long Plat. Screw Breaker EU, EA, ED	4.40
F75—Plat. Breaker Screw Assembly A7	5.60
F76—Contact Lever Plat. A7	5.60
F77—Plat. Screw (long). A6, A8, & EL.	4.40
F78—Breaker Lever with Plat. Screws fit EU, EA, EL	5 60
F79—Breaker Lever with P. P. Screw, fits ED	5.60
F80—Breaker Lever with P. P. Screws fits EM	5.60
F139—Plat. Contact to fit No. 72	4.40
F163—Wrench for Eisemann	24
F269—Condenser for EM type	5.60
F269—Condenser for G4 type	5.60
F269S—Condenser Type G. S. 4 type	5.60
F270—Condenser Type EU type	8.00
F310—Slip Ring for G4, GR4 1st & 2nd Ed.; GNS5 1st & 2nd Ed	2.50
F310½—Rotating Distr. Disc. fits Eisemann Type GS 4	2.20
F81 Steel Brush fits Distr. Model E	.15
F82—Carbon Brush fits Distr. Model E	15
F83—Carbon Brush fits Collector Model A7	.15
F84—Carbon Brush fits Collector Models EA, EU, ED, EM, EB EB	15 .15
F85—Carbon Brush fits Distr. Models EA, EU, ED, EM, EB	.15
F86—Carbon Brush fits Conductor Bar Model EM	.15
F87—Gauze Brush fits G4	15
F88—Collector Brush fits G4	.15
F89—Distributor Brush fits G4	.15
F90—Ground Brush fits G4	.15

★ Items Marked Thus ★ Are Shipped From Factory Only.

NIEHOFF MAGNETO AND DISTRIBUTOR REPAIRS

PARTS TO FIT BOSCH MAGNETO



No.	Description	Each
F34	Platinum-pointed Screw (long) fit Bosch	$4.40
F35	Platinum-pointed Screw (short) fit Bosch	4.40
F36	Plat. Screw fits Bosch Dual Battery Breaker	4.40
F37	Plat. Screw (short) for Battery Breaker (see cut 35)	4.40
F38	Breaker Lever with Plat. Screw (clockwise) fits Bosch Du	6.00
F39	Breaker Lever with Plat. Screw (Anti-clockwise) fits Bosch DU	6.00
F40	Breaker Lever with P. P. Screw (clockwise) fits DR&D. (See cut 41)	6.00
F41	Breaker Lever with P. P. Screw (anti-clockwise fits Bosch DR&D	6 00
F60	DU4 Brush Holder, complete	1.20
F60-B	Slip Ring Brush Holder Complete Type NU	2 50
F60-C	Slip R. Brush Holder, motorcycle ZEV (right)	2 50
F60-D	Slip R. Brush Holder, motorcycle ZEV (left)	2 50
F60-E	Slip R. Brush Holder, motorcycle ZEI (right)	2.50
F60F	Slip R. Brush Holder, motorcycle ZEI (left)	2 50
F61	Slip Ring DU4	2 80
F61-A	Slip Ring D4	2 80
F61-B	Slip Ring for NU4	5.00
F62	Connecting Bar DU4	1.00
F62	Connecting Bar DU6	1 00
F63	Distributor Plate DU4 Dual	9.60
F64	Distributor Plate DU6 Dual	17 00
F65	Elbow Terminal complete	.70
F66	Straight Terminal	.57
F67	DU4 Distributor Plate	9.00
F67-A	New type DU4	9.00
F68	DU6 Distributor Plate	10.00

No.	Description	Each
F69	Distributor Brush Holder only	$1.20
F69-A	Distributor Block, fits Bosch type B4 and B6	1 60
F164	Wrench for Bosch	14
F164½	Wrench for Bosch	36
F268	Complete, Con. for all Bosch types	6 00
F279	Wrench Socket Type	.40
F342	Grounding Brush with Cable for Base Plate	20
F43	Grounding Brush with Cable for Base Plate	.30
F44	Carbon Brush fits Bosch Collector Model DAV Ball Bearing	.10
F45	Carbon Brush fits Bosch Collector Model DAV Plain Bearing	.10
F46	Carbon Brush fits Bosch Collector Models DA-P, P & B	.10
F47	Carbon Brush fits Collector Model ZEV	.10
F48	Carbon Brush fits Bosch Collector Model ZEI	10
F49	Carbon Brush for Collector Model DU, DR & D	.10
F50	Carbon Brush fits Bosch Collector Bar Models—DR & D	.16
F51	Carbon Brush fits Bosch Distr. Model DU	20
F52	Carbon Brush for Distr. Models DR & D, 4 Cyl.	16
F53	Carbon Brush for Distr Models DR & D, 6 Cyl.	16
F54	Carbon Brush fits Bosch Dual Distr. Holder Models DR & D	.16
F55	Carbon Brush fits Bosch Distr. Model ZR	16
F56	Carbon Brush fits Bosch Collector Model ZR	.16
F531	Four Cyl Bosch Distr. Head (not illus.)	4 60
F532	Six Cyl. Bosch Distr. Head (not illus.)	6.80
F533	Bosch Distr Terminal (not illus.)	40
F534	Bosch Dist. Terminal Nut (not illus.)	40

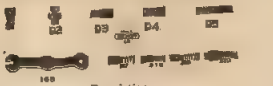
Entire Page For Factory Shipment Only.

NIEHOFF MAGNETO AND DISTRIBUTOR REPAIRS*

PARTS TO FIT DELCO

No.	Description	Each
F107	Tungsten Contact Screw, Magneto Side	.40
F108	Tungsten Breaker Bar, Magneto Side	1.20
F109	Tungsten 1916 Breaker Bar	.66
F109½	Tungsten 1917 Breaker Bar	.66
F110	Plat. Contact Screw, Battery Side	3.00
F111	Plat. Breaker Bar, Battery Side	3.50
F112	Steel Brush fits Delco Distr.	.24
F113	Pigtail for Delco Bar	.24
F148	Tungsten Contact fits Nos. 108-109-109½	.40
F167	Wrench	.36
F168	Wrench	.40
F289	Tension Spring	.10
F290	Coil Breaker Spring	.10
F260	Distributor Rotar with Brush	.50
F283	Resistance Unit, Hudson and Cadillac types	.40
F284	Resistance Unit, Buick type	.40
F287	Resistance Unit, Porcelain type	.36
F271	Condenser for Delco with or without case	2.00
F272	Condenser for Delco with or without case	2.00
F273	Condenser for Delco with or without case	2.00
F307	Brass-Plunger Steel Brush for Distr.	.16
F308	Distributor Brush	.16
F330	Distributor Rotar Assembly (Single Brush type)	1.20
F331	Distributor Rotar Assembly (Double Brush type)	1.40
F510	Four Cyl. Distributor Cap	3.60
F511	Six Cyl. Distributor Cap	3 80
F512	Six Cyl. Distributor Cap (New type)	3 90
F513	Eight Cyl. Distributor Cap	4.00
F523	Terminal Nut	.40
F525	Terminal Nut (Old type)	.40

PARTS TO FIT MEA MAGNETO



No.	Description	Each
F91	Plat. Contact Screw (short)	$4 40
F92	Plat. Contact Screw (long)	4 40
F165	Wrench for Mea	.24
F93	Carbon Brush fits Mea Distr. Models BH & BK, 4 Cyl	.24
F94	Carbon Brush fits Mea Distr. Models BH & BK, 6 Cyl	.16
F95	Carbon Brush fits Mea Collector Models BH & BK, 4-6 Cyl.	.16
F317	Carbon Ground Brush Model A, BH & BK	.20
F318	Carbon Distributor Brush Models BK & BH	.20
F319	Carbon Distributor Brush Model A	.20
F320	Carbon Distributor Brush Models BK & BH	.26
F96	Slip Ring (not Illus.)	4.50

PARTS TO FIT WESTINGHOUSE DISTRIBUTOR

		Each
F118	Plat. Spring fits Westinghouse Distr.	6.00
F118½	Plat. Breaker Lever fits vertical type	8.00
F119	Plat. Screw fits Westinghouse Distr.	6.00
F119½	Plat. Breaker Screw fits vertical type	7.00
F120	Metal Brush fits Westinghouse Distr.	.26
F121	Metal Brush fits Westinghouse Distr.	.40
F121½	Distributor Brush (vertical type)	.26

PARTS TO FIT NORTH-EAST

		Each
F153	Tungsten Contact to fit No. 275	.50
F275	Tungsten Breaker Arm	1.00
F276	Tungsten Contact Screw	.50
F302	Distributor Rotar (plain spring)	.80
F302-C	Distributor Rotar (carbon spring)	.80
F340	Coil Tension Spring to fit No. 275	.16
F306	Carbon Brush	.30
F509	Four Cyl. Distr. Caps, Plug Terminal type	4.40
F514	Four Cyl. Distr. Caps, Screw Terminal type	4 00
F515	Terminal Nut to fit 514	.36

PARTS TO FIT BERLING MAGNETO

		Each
F291	Platinum Contact Interrupter Spring	4.40
F292	Platinum Contact Interrupter Screw	4.40
F291-C	Platinum Contact to fit No. 291	4.40
F293	Collector Carbon Brush, including spring	.20
F294	Ground Interrupter Brush, including spring	.15
F295	Distributor Carbon Finger Brush, including spring (square)	.20
F296	Distributor Carbon Finger Contact Brush, including spring	.16

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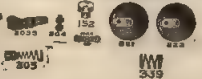
NIEHOFF MAGNETO AND DISTRIBUTOR REPAIRS

PARTS TO FIT ATWATER KENT

No.	Description	Each
F130	Tungsten Screw (Old Style)	$0 80
F131	Tungsten Spring (Old Style)	.70
F132	Screw, K-EW (Platinum)	4.00
F132	Tungsten Screw K-EW	.30
F133	Tungsten Spring K-EW	.50
F134	Screw, Type FW (Tungsten)	1 06
F135	Spring, Type FW (Tungsten)	.70
F135½	Stationary Arm, Type CC (Tungsten)	60
F136	Lifter fits A, K—4, 6 Cyl.	.35
F136	Lifter fits A K 8 Cyl.	.70
F137	Lifter Springs, fits A K	.30
F151	Tungsten Contact to fit Nos. 134½ and 135½	30
F256	Distributor Block fits Type K2 and IT4 Cyl	.40
F257	Distributor Block fits Types K2, IT and K3 6 Cyl.	40
F258	Distributor Block fits Type K2, 8 Cyl. Models	.40
F259	Distributor Block fits Type CC	.40
F298	Condensor for CC Type	.40
F299	Condensor for K3 Type	1.20
F301	Lateral	1 20
F500	Four Cyl. Distr. Cap to fit Types K2 and K3, without terminals	1 20
F501	Six Cyl. Distr. Cap to fit Types K2 and K3, without terminals	4.50
F502	Four Cyl. Distr Cap to fit Types CC and CA, without terminals	4 50
F503	Six Cyl Distr Cap to fit Types CC and CA, without terminals	4 20
F528	Terminal Nut for Types 500, 501, 502 and 503	4 20 .30

PARTS TO FIT WAGNER



		Each
F303	Breaker Bar (Tungsten)	$1 00
F303-S	Tungsten Breaker Bar, Studebaker Type	1.00
F152	Tungsten Contact to fit Nos. 303 and 303-S	.30
F304	Breaker Screw (Tungsten)	.50
F339	Coil Tension Spring to fit No. 303-S	.16
F305	Plunger Distributor Brush	.30
F321	Wagner Distributor Disc. (Clockwise)	1 00
F342	Wagner Distributor Disc. (Anti-Clockwise)	1.00

		Each
F169	Cam for Remy, Model L	1.40
F170	Cam for Remy, Model S	1.40
F171	Cam for Remy, Model RD & RL	1.40
F172	Cam for Splitdorf	1.40
F173	Cam for Dixie	1.40
F324	Delco Cam 4 Cyl	1.50
F325	Delco Cam 8 Cyl	1.50
F326	Delco Cam 6 Cyl	1.40

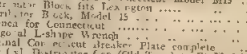
PARTS TO FIT GRAY & DAVIS

No.	Description	Each
F521	Four Cyl. Distr. Cap	4.20
F522	Terminal Nut	.80

PARTS TO FIT CONNECTICUT

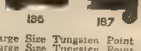
No.	Description	Each
F114	Tungsten Screw	$0 30
F115	Tungsten Rivet	.30
F117	Carbon Brush	.20
F264	Distributor Block, Model 16	20
F264-A	Distributor Block fits Connecticut Model M15	60
F265	Distributor Block fits Lexington	34
F161 C	Wrench for Connecticut	.34
F323	Octagonal Lamp Wrench	.16
F1236-F	Original Connecticut Breaker Plate complete	14
F516	Four Cyl. Distributor Cap (Old Type) to fit Model 15T	4.80
F517	Six Cyl Distributor Cap (New Type) to fit Model 16 and 16C	2.70
F518	Six Cyl. Distributor Cap (Old Type) to fit Model 15T	3.00
F519	Terminal Nut to fit S16 and S18	3.00 .30
F520	Four Cyl. Distributor Cap (New Type) to fit Moleds 16 and 16C	2.70

PARTS TO FIT FORD COIL



234Q	Upper Contact Spring	{Popular Nue, to fit late Ford Coils} $0 30
235Q	Lower Contact Spring	
2360	{Springs fit Ford Coils (1914-1915)	.30
2370		

PARTS TO FIT FORDSON TRACTOR



		Pair
F285	Spring, with Large Size Tungsten Point	$0 60
F286	Bridge, with Large Size Tungsten Point	.40

PARTS TO FIT K. W. MASTER VIBRATOR

		Pair
F186	Lower Contact Spring	$0 80
F187	Upper Contact Spring	.80

PARTS TO FIT K. W. MAGNETO

		Each
F277	Plat. Breaker Arm	$7 00
F278	Plat. Breaker Screw	5 80
F311	Carbon Distributor Cover Plunger Brush, Model HK	30
F312	Carbon Distributor Brush, Model T	.30
F313	Carbon Distributor Brush, Model HK	30

MAGNETO AND DISTRIBUTOR REPAIR TOOLS

MAGNETO AND DISTRIBUTOR TOOLS

ELITE KIT

This kit contains a "2 in 1" magneto screw driver, various wrenches properly guaged to fit the following magnetos: Connecticut, Splitdorf, Dixie, Remy, Bosch, Simms, Eisemann, Mea, Berling, Delco, Westinghouse, Wagner,

The kit is conveniently arranged to carry in one's pocket. The material is water-proof and has exceptional wearing qualities. The finish is similar to a high-grade leather.

No. 718G .....Each $2.10

STANDARD KIT

The Standard Kit contains a complete set of magneto wrenches similar to the Elite set, with the exception of the "2 in 1" screw driver. The kit is arranged to roll, and makes a compact outfit either for a tool chest or pocket.

No. F719 .....Each $1.40

CONTACT BREAKER GAUGE

This device consists of a combination of gauges adapted for the various battery breaker systems, low and high tension magnetos and spark plugs.

No. F715—(Specify ignition system) .....Each $0.70

MAGNETO SCREW DRIVER

An ingenious "2 in 1" arrangement whereby the one fits in the other, making it both compact and practical.

No. F282 .....Each $0.40
No. F282½ .....Each .70

PLATINUM CONTACT FILES

These files are of the very highest grade for surfacing platinum contacts. Come in long and short types. They are furnished a dozen mounted on card.

No. F710—Platinum File, (Short.) .....Per Gross $36.00
No. F711—Platinum File, (Long.) .....Per Gross 40.00

TWEEZERS

A reliable and well constructed tweezer designed for the use of mechanics handling small intricate parts.

No. F716 .....Each $0.80

COIL FILES

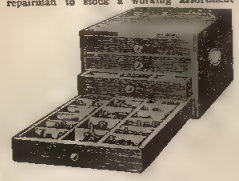
For spark gaps, spark plugs, magnetos, coils and contact points of all kinds.

No. 6470—6 in. long including handle, uniform thickness, bevel pointed w't per doz. 1 lb. .....per dozen $2.00

ONE DOZEN IN A BOX. WE DO NOT BREAK BOXES

CASH REGISTER ASSORTMENTS OF CONTACT PARTS AND STARTER AND GENERATOR BRUSHES

This is our standard cabinet which has become very popular throughout the country because it meets the needs of the average dealer and repairman to stock a working assortment of either contacts only, or a combination of contacts and starter and generator brushes according to the requirements of the respective dealers. This cabinet contains four drawers each divided into thirteen compartments. The compartments are all labeled as to the respective parts they contain. The assortments as made up contain a supply of such parts for which there is an active call. These parts are all standard and fully guaranteed. If you find that certain parts are more in demand in your territory than some of the items contained in the Cash Register of Contact Parts, you have the privilege of exchanging any such parts for others of equivalent value, for one year from date of purchase.



These privileges are extended so as to make the Cash Register of Contact Parts meet the particular needs of all. No dealer or repairman should be without this Cash Register Assortment as it is a live proposition which places him in a position to render ignition replacement service to the trade that will prove to be very profitable, because it enables him to take care of practically all of the popular cars.

As above mentioned, the Cash Register may be had in either one of three assortments. Contacts only, Combination of Contacts and Brushes, or Brushes only.

No. F1A—Assortment, including cabinet.....Each $140.00

CASE OF GOOD BUSINESS ASSORTMENT

This cabinet was designed especially for the smaller repairmen and dealers who are beginning to handle ignition supplies and are not prepared for the larger outlay as is contained in the Cash Register Assortments. While this cabinet has not as large an assortment as the Cash Register of Contact parts, nevertheless it has proven to be a Case of Good Business with many, and has led up into larger business along this line. The feature of this assortment, as with the Cash Register, is that of the service which it enables the dealer to give to the trade by having some of these popular items on hand.

This cabinet is also divided into compartments, each one marked as to its contents. The case of Good Business is similarly put up into three separate assortments to meet special demands, one containing Contacts only, another Contacts and Brushes, and the other, Brushes only

No. F2A—Including cabinet.....Each $58.00

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NIEHOFF MISCELLANEOUS REPLACEMENT PARTS

B. & S. REPLACEMENT CUTOUTS, REGULATORS, SWITCHES AND SWITCH KEYS. INSTRUMENT LIGHT.

No.	Description	Each
F1655-B—	6-V Reverse Current Cutout	$3.40
F1441-B—	12-V Reverse Current Cutout	3.40

The above numbers are used for replacement on instrument or dash. They have a 20 amp. capacity and are adapted for any 6 or 12 volt automobile generator.

F342-B—	6-V Reverse Current Cutout (large size)	7.10
F458-B—	12-V Reverse Current Cutout (large size)	7.30
F459-B—	32-V Reverse Current Cutout (large size, 15 amp.)	7.90
F1027-B—	32-V Reverse Current Cutout (large size, 15 amp.)	8.50

The above numbers are for use on automobiles, charging plants, farm lighting plants, etc. Equipped with carbon make and break. They are substantially made and have a resistance up to 64 volts and more.

F1522-B—Starter Switch 1.90

For automobiles, tractors, trucks, boats, etc. Adapted for any kind of mounting. Ruggedly constructed and waterproof.

F1660-B—Universal regulator and cutout 12.00

Used as replacement for any regulator, or for 3d brush control systems. Will charge battery at lower speed, also overcome trouble, due to overcharging batteries. It provides a means of adjusting the charging current as may be desired. Can be furnished with proper resistance for any type generator. Be sure and specify type.

F1884-B—Instrument Light 1.00

Especially designed for Ford cars, but can be used on any other make of car. Easily installed. Is well constructed and will eliminate all short circuiting. Highly polished, nickel finish.

No.	Description	Each
F486-B—	Panel Switch Key	.16

Used on Chevrolet, Olds, Saxon, Regal, Maxwell, 1917-18 19. Jordan, Dort, Kissel, Chandler, Grant, Northway, Jeffrey.

F636-B—	Panel Switch Key	.16

Used on Dodge and Jeffrey.

F639-B—	Panel Switch Key	.16

Used on Chalmers.

F726-B—	Panel Switch Key	.16

Used on Paige, Kissel, Velie.

F1121-B—	Panel Switch Key	.20

Used on Peerless, Stephens, National, Allen, Scripps-Booth, Maxwell 1920, Hupp, Stearns, Cleveland, Studebaker, Mitchell, Franklin, Columbia, Gardner, Elgin, Nash 1919, Kissel 1920.

F1126-B—	Panel Switch Key	.16

Used with Remy.

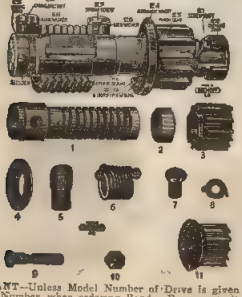
F2369-B—	Panel Switch Key	.18

Used on Nash 1920.

F2051-B—	Universal Switch for Lighting and Ignition	5.60

Can be used as replacement on any make of automobile having either battery or magneto ignition, two bulb resistance or series parallel dimming, provided with a special constructed lighting device furnished in a series of different key changes insuring protection against theft. This assembly is furnished complete with one key and resistance coil for use where lights are dimmed and an extra connector to readily adapt switch to either battery or magneto ignition. Regularly furnished for six volt systems but upon request can also furnish for twelve volts.

ECLIPSE-BENDIX DRIVE PARTS



IMPORTANT—Unless Model Number of Drive is given in addition to our Part Number, when ordering Bendix Drive parts it is essential that you specify Year and Model of Car for which part is desired.

	Each
FEB- 1—Screw Shaft	$3 50
FEB- 2—Driving Stop	1 30
FEB- 5—Driving Head	2 12
FEB- 6—Driving Spring	1 30
FEB. 6—Driving Spring; Extra large	1.70
FEB- 7—Spring Screw	30
FEB- 8—Lock Washer (2)	08
FEB- 9—Spring Bolt	26
FEB-10—Spring Bolt Nut	26
FEB-11—Pinion Gear and Weight, Assembled	7.66
FEB-12—Compression Sleeve	86
FEB-13—Compression Sleeve Ring	08
FEB-17—Drift Pin	26
FEB-18—Drift Pin Spring	26

NOTE.—Nos. 3 and 4 not sold separately, combined in eleven.

Entire Page For Factory Shipment Only.

NIEHOFF AUTOMOTIVE REPAIR SHOP EQUIPMENT

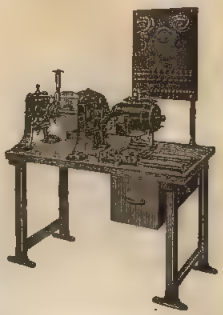
NIEHOFF HIGH POWER TEST BENCH

The Niehoff High Power Test Bench is the last word in Test Bench Construction. It is strongly built and smooth running. The control is so arranged that the repairman can conveniently take care of all speeds and tests from one position.

SPECIFICATIONS

One panel board mounted on angle steel legs and contains:

One 5-in. voltmeter reading 0-30;
One 5-in. ammeter, charge and discharge, reading 30-0-30;
One each 6 volt and 12 volt cutout;
One 0-3600 R. P. M. tachometer;
One double throw switch, 6 and 12 volt;
A set of six spark gaps and terminals.



On the table in connection with drive is a Proney brake and torque scale and a two hundred and fifty ampere starter switch. The bench is 68 in. high, 48 in. long, 28 in. wide. The table is of hardwood, and the legs of pressed steel. The vise is adjustable in all directions and absolutely does not vibrate under any speed. It will positively hold any magneto, starter or generator made.

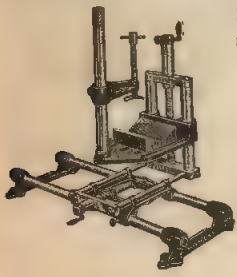
This Teest Bench is furnished in wto models, A and B.

Model A. Direct current bench with Allen Bradley Electric Control. Including motor.

No. F16TB—Each★ $1300.00

Specify voltage when ordering this bench.

Model B. Same as Model A, with the exception of friction drive in place of motor. Power to be taken from line shaft or independent motor. Line shaft pulley is 18 in. diameter, running at 300 R. P. M. will give this bench a speed range of 0 to 4500 R. P. M. forward or reverse by friction drive. This is a powerful outfit and no doubt the most practical of all benches produced. It enables the shop to operate drill press, speed lathe, etc., with one motor. "No counter shaft required." Idle pulley is furnished.



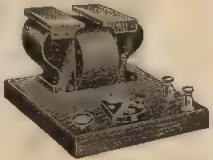
No. F17TB—Each★ $1100.00

HIGH POWER TEST VISE

This vise is identical to that used on our High Power Test Bench. It may be easily adjusted in all directions. May be mounted on any bench. As a practical and substantial outfit this vise is said by repairmen to be by far the best thing of its kind that has ever been offered to the trade. It measures 28 in. long by 14 in. wide by 15½ in. high and weighs 33 lbs.

No. F4TV—Each★ $100.00

NIEHOFF LAMINATED MAGNETIZER



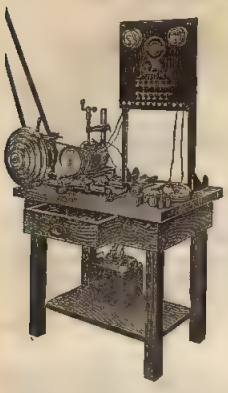
The Niehoff Laminated Magnetizer is distinctly superior to anything of its kind on the market. It will generate far more magnetism than any of the two spool types. It will fully recharge all makes of magnets in less time and at a saving of current. The poles are absolutely equal, insuring a perfect flow of magnetism to the magnets. It does not heat up quickly. The top pieces are interchangeable and may be replaced at a small cost when worn. This is the only Magnetizer having this feature which practically makes it permanent equipment. It may be had either for battery or direct current.

No. F6MG—For six-volt battery model★ ..... each $40.00

No. F7MG—For 110 DC Current Model★ ..... each 48.00

★ Items Marked Thus ★ Are Shipped From Factory Only.

NIEHOFF AUTOMOTIVE REPAIR SHOP EQUIPMENT



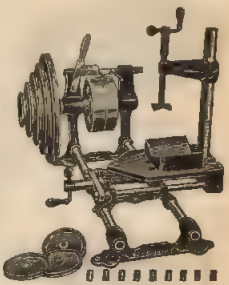
LIBERTY TEST BENCH

This equipment meets a large demand from the smaller automotive repair shops. It is for universal work and enables the repairman to make a running test on all generators and magnetos. Also to run starting motors to wear in the bearings and brushes.

This equipment is provided with a test board containing one 3½ in. ammeter with a reading of 30-0-30; one voltmeter with a reading of 0-30; one six-volt relay; six spark gaps and ten binding posts; a combination variable speed pulley and adjustable vise. The speed step pulley is made of solid aluminum which has a speed range from 75 to 3600 R. P. M. This pulley is controlled by another line shaft pulley connected to lever to automatically throw off the line shaft drive.

The Liberty Bench may be connected with either an overhead line shaft or motor. The entire equipment is substantially constructed, measuring 60 in. high, 36 in. long, and 24 in. wide. Net weight, 138 lbs. It is the most practical outfit upon the market and is especially recommended in shops where Ford cars are repaired as a specialty.

No. F37TB—Bench complete★ ..... each **$350.00**



COMBINATION VARIABLE SPEED PULLEY AND ADJUSTABLE VISE

Including accessories consisting of three mounting pulleys, one iron "V" block and eight armature shaft gear bushings.

Size of outfit overall, 26½ in. long by 17½ in. high by 15 in. wide. Weight 47½ lbs.

A very desirable equipment to mount upon any shop bench. To be connected with either line shaft or motor.

No. F19SP—Each★ **$170.00**

TEST BOARD

It is in mahogany finish and contains one 3½ in. ammeter, one 3½ in. voltmeter, one six-volt relay, six spark gaps and ten binding posts. Board, size 18 inches high by 18 inches wide. Mounted on iron legs, 30 inches high.

This is a convenient and well balanced arrangement of meters and spark gaps for those who wish a simple test board of this kind to mount upon their own work bench.

No. F18TB—Each★ **$110.00**

NIEHOFF GENEROMETER

A scientifically constructed instrument for accurately locating shorts and grounds in generator and starting motor armatures. This instrument will enable the repairman to immediately determine in what manner the armature is defective. Sometimes the trouble is of a minor charcter that can be easily fixed by the electrician himself thus saving the time and money involved in sending it out to have it rewound. The adjustments are made to accommodate all makes of automotive armatures. This instrument is put up in a case of mahogany finish and measures 15½ in. long, 10½ in. wide, and 4½ in. high.

No. F5G—Each★ **$88.00**

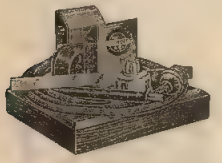
★ **Items Marked Thus ★ Are Shipped From Factory Only.**

NIEHOFF AUTOMOTIVE REPAIR SHOP EQUIPMENT

WIZARD UNDERCUTTER

A very desirable equipment for undercutting the mica insulation between the copper segments on commutators on such armatures as are used in automobiles, trucks and tractors. The time-saving features of this device commend itself to all repairmen. Not only is the work done in much less time but with greater ease. It is so simple to operate that the work may be done by an unskilled workman. The adjustments are all quickly and easily made to accommodate all types of armatures. The undercutting is done by direct motor power especially made for this device. It is universal and can be connected either to a direct or alternating current. The entire equipment is mounted on a heavy hardwood base, size 10x20x1¼ inches. The machine stands 9½ inches high with motor at its extreme elevation. A set of two size burrs are furnished.

No. F10UG—Each★ $108.00

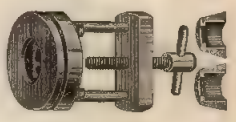


GROWLER

A well-known device for quickly locating shorts, grounds and opens in armatures. This Growler is of a new type and fully guaranteed. It will enable you to test all types of armatures anywhere from 2¼ to 12 inches in diameter. Operated from an alternating current.

No. F14G—Each★ $48.00

COMBINATION BALL BEARING AND SLIP RING PULLER



This is universally acclaimed by repairmen to be the most practical and substantial device upon the market for removing ball bearings and slip rings from all makes of magneto armatures The operation is done very easily and without any injury to any of the parts.

No. F100—Each★ $27.20

NIEHOFF DEFECTOMETER

The Niehoff Defectometer has been designed by an authority on magnetos. It is a valuable assistant to repairmen who do magneto repair work. The operation is simple and quick. With it you become expert. You can accurately determine the nature of the defect of an armature, also collector ring, condensor, and other high tension insulators. This instrument has adjustments to meet the different conditions found in making tests of various armatures It is thoroughly practical and reliable at all times. It operates from a six-volt storage battery. The case is finished in mahogany. It measures 15¾ in. long, 10¾ in. wide, and 4¼ in. high.

No. F4D—Each★ $90.00

A practical equipment for fully recharging Ford magnets without removing them from the car. The operation is very quick and simple . This instrument is also provided with means to make various kinds of tests of the electrical mechanism on Ford cars. You may accurately test the voltage of the magneto, the spark plug and also test and adjust the ignition coil. Single and double contact bulbs may also be tested. This instrument is a necessity in every Ford repair shop.

No. F12MG—Each★ $108.00

★ Items Marked Thus ★ Are Shipped From Factory Only.

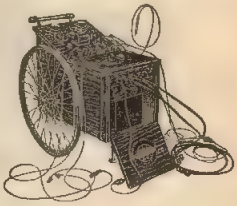
NIEHOFF AUTOMOTIVE REPAIR SHOP EQUIPMENT

BATTERY SERVICE TEST KART

This wagon was designed for the use of battery Service Stations to facilitate all necessary battery tests both internal and external. It is arranged to hold an independent battery and is provided with all the necessary cable connections.

The discharge tester is conveniently located so that a turn of the knob will cause it to immediately function with the ammeter giving you a reading at the same time. The three voltmeters will show accurately the individual cell voltage, so that the motorist can see exactly what is taking place while the inspection is being made With this instrument the following tests can be made.

1. Generator charging rate
2. Starter discharge rate
3. Testing starter by using Kart battery, thereby eliminating necessity of removing battery from car
4. Cell voltage test
5. Discharge test showing voltage of each of these cells under discharge at same time
6. Cadmium test
7. Will prove current consumption of horn and lights
8. Test for short in wiring circuit
9. Test for current consumption of ignition unit
10. Test for condition of individual cells
11. Test for voltage loss in wiring circuit.



The Battery Kart measures 36 in. long, 28 in. wide, by 36 in. high. Net weight, crated, 300 lbs.

No. F15T—Each★ $750.00

NIEHOFF CADMIUM VOLTMETER

This cadmium voltmeter is specially designed for Battery Service Stations. It is made of hardwood, walnut finish, with genuine leather handle, and has a hand-drawn scale assuring the highest degree of accuracy. The scale reading is: 2.0-3.0 and 0-15 and it is equipped with three terminals; one positive, one 3.0 and one 15-volt terminal. Therefore, both positive to cadmium, and negative to cadmium tests may be made without reversing the leads to the meter. Four red lines are drawn on the scale to indicate the reading, which should be obtained for charged and discharged positives and negatives. These lines are marked "Negative Charged," "Negative Discharged," "Positive Charged," and "Positive Discharged" respectively. This makes it possible to take a cadmium test quickly and eliminates the necessity of reading the exact indications in making the tests. Every battery man fully realizes that frequently the voltage or gravity of a battery, or both, may be satisfactory, and yet have the battery capacity very low because of the cell charge or discharge only being equal to its faulty plate. Hence, when some of the plates are not up to their proper condition the voltage will fall very rapidly under discharge and the capacity of the battery is greatly reduced. All these internal troubles with both negative and positive plates can be quickly determined by testing with the above cadmium voltmeter without taking the plates out of the jar or tearing the battery down, or even without taking battery out of car.

No. F20V—Each★ .....$47.20 **With Cadmium Leads**..each $59.00 **Cadmium Leads Only** $12 10

★ **Items Market Thus ★ Are Shipped From Factory Only.**

ACCESSORIES FOR FORD CARS

SPARK PLUGS

Special for Ford Cars—Also recommended for Overland and Studebaker pleasure and commercial cars. W't per doz. 3½ lbs.

No. 5246—½ in. standard thread, per box of 12 ..... $8.40

HERCULES Junior, manufactured from best of materials, gas tight, will not carbonize or foul, needs no attention after installing, made along scientific principles both electrically and mechanically, guaranteed by the factory for two years of constant use.

No. 5322—½ in., special for Fords, per box of 12 ..... $9.40

ONE IN A BOX

A. C. SPECIAL FOR FORDS

The AC 5159 No. 1075 spark plug for Ford cars is an AC product backed up by the AC trademark and therefore of AC quality throughout.

Spring terminal clip permits wire to be instantly detached and re-connected while motor is running. Facilitates testing spark plug and coil. No nut to be unscrewed or lost.

By unscrewing the bushing, plug may be completely disassembled. Only one gasket is used. Extra large body porcelain to withstand hard service.

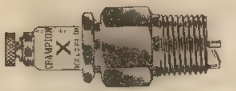
Patented CARBON PROOF porcelain. Saw tooth edges attain sufficient heat to burn oil deposits, thus offering effective resistance to carbon.

Large electrode will last indefinitely. Special shape forms natural drain preventing oil lodging in the spark gap.

No. 5159—1075—W't per box 3½ lbs., per box of 10 ..... $8.80

No. 5160—Porcelain for above, w't per box 1 lb., per box of 10 ..... $4.40

SPARK PLUGS



CHAMPION, best grade porcelain, separable cone gasket construction, similar to regular champion.

Adopted by the Ford Motor Co. as standard equipment on Ford cars since 1911.

The Champion X plug has no equal for the price and will not foul or soot.

No. 5280—A15—½ in. petticoat core, two-piece, w't per box 4 lbs., per box of 10 ..... $9.00

TEN IN A BOX

CHAMPION "PRIMING"

Will start any motor on the first quarter turn. Brings gasoline right to the sparking point. A good winter seller.

This plug is particularly adapted to Ford Cars

No. 5310—A14—½ in., petticoat core, two piece, w't per box 5 lbs., per box of 10 ..... $14.00

ONE IN A BOX

PRIMING PLUG MERCHANDISING CASE

Very attractive display case, contains 20 No. 5310-A14 Spark Plugs, case 10x8¼x7 in.

No. F5300—W't each 12 lbs., each* $28.00

SPARK PLUGS

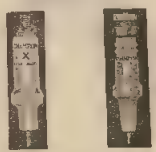
CHAMPION "FORDSON"

½ Inch Long.

Equipment on Fordson tractors and for use in engines requiring this type of plug.

No. 5295—A25—½ in. long, for Fordson tractors, petticoat core, two piece, w't per box 4 lbs., per box of 10 ..... $9.00

CHAMPION PORCELAIN INSULATORS



5288 5299

Conical Petticoat "X" Heavy Stone Insulator plug type. Gaskets furnished with all porcelains. Symbols ending with 3 are Conical Insulators. Symbols ending with 4 are Petticoat Insulators.

No. 5283—A105, to fit plugs A15, per box of 10 ..... $4.40

No. 5299—A205, to fit plugs A25, per box of 10 ..... $4.40

ABOVE ONE IN A BOX; TEN IN A CARTON

No. 5272A—½ in. special for Fords, open end Splitdorf plug, w't per doz. 4 lbs. ..... per box of 10 $10.00

ACCESSORIES FOR FORD CARS

HEISSLER STORAGE STARTING BATTERIES

Prices on Application

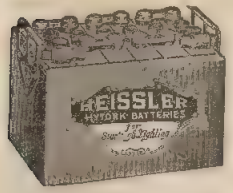
Built as well as it is possible for storage batteries to be constructed.

Connections are lead burned, and elements are carefully locked in high-grade rubber jars. These are completely encompassed by a cushion of resilient and acid resisting sealing compound. The outside container is constructed of an especially prepared and treated wood interchangeable with all makes as standard equipment on American cars.

Specify car, year model and electric system, when ordering.

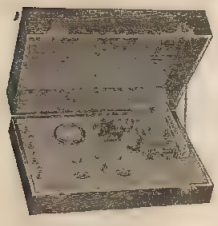
The HEISSLER is manufactured in the only factory devoted exclusively to the making of automobile starting and lighting batteries.

Weight each 65 lbs.



Year	Model	Elec. System	Type	Each.
1917		Detroit	FBS-35	$29.52★
1917–18		Elec. Weld		
1917		A. B. C. Starter		
1917		Berns	FBS-34	26.89★
		Fisher	FBS-35	29.52★
1916–17		Heinze-Springfield	FBS-63	41.13★
1917–18		Heinze-Springfield	FAS-36	29.52★
1919			FBS-35	29.52★
1920			FBS-36	33.34★
		Coupe & Sedan	FCS-36	30.45★
			FBS-35	29.52★

NIEHOFF MAG-CHARGER



A practical equipment for fully recharging **Ford** magnets without removing them from the car. The operation is very quick and simple. This instrument is also provided with means to make various kinds of tests of the electrical mechanism on Ford cars. You may accurately test the voltage of the magneto, the spark plug and also test and adjust the ignition coil. Single and double contact bulbs may also be tested. This instrument is a necessity in every Ford repair shop.

No. F12MG—Each★ $80.00

COIL UNITS

KINGSTON

Interchangeable with any Unit in the Ford Metal Coil box. The core is made of a special grade of soft Norway iron, the windings, condenser and vibrators being constructed of good quality service-giving materials. Recomended to all Ford Agencies or Branches, as this unit is the same as furnished as regular equipment.

No. 7422—4732—W't each 2 lbs., each $2.70

LOOSE

Our Very Best is the Very Best.

GENERATOR CUT-OUTS

KINGSTON

This generator cut-out is constructed so that it may be placed directly upon the generator, and no extra wiring is required. This cut-out is fully guaranteed. Heavy steel cover renders it waterproof. Will reduce battery expenses and pay for itself in a short time. Designed especially for Ford Generators, but adaptable to any 6 volt system.

No. 7423—W't each à lb., each $1.50

SWITCH KEYS

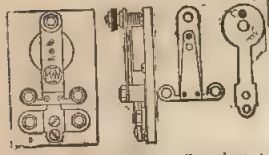
No. 4731Q—Round type, brass finish, to lift metal box coils, per dozen $0.60

LOOSE

★ Items Marked Thus ★ Are Shipped From Factory Only.

ACCESSORIES FOR FORD CARS

K-W SPARKITE CONTACT POINTS



One pair of genuine coil springs with sparkite contacts for K-W coil units packed in an envelope. Spark at lower cranking speeds. Produces a hotter spark at any speed Sparkite contacts are larger and solid metal. Give longer life and higher efficiency than other points.

No. 7420—Sparkite points, set consists of one part No. 4738 vibrator and one part No. 4734 bridge, per set $0.55

ONE SET IN AN ENVELOPE. WE DO NOT BREAK ENVELOPES

No. 7421—K. W. Tungsten point sets, set consists of one part No. 4738 vibrator and one part No. 4734 bridge .....per set $0.35

ONE SET IN AN ENVELOPE. WE DO NOT BREAK ENVELOPES

Carry a line of goods upon which you can rely.

The dealer who carries H. S. B. & Co. Brands marks his store as a place where the better goods are sold.

A house with over sixty-seven years' experience stands back of our brands.

NEIHOFF PARTS TO FIT FORD COIL

Popular Nos. to fit late Ford Coils.

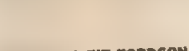
No. 234G—Upper Contact Spring, pair $0.36

No. 235G—Lower Contact Spring pair $0.36

No. 236G—Springs fit Ford Coils (1914-1915) .....pair $0.36

No. 237G—Springs fit Ford Coils (1914-1915) .....pair $0.36

PARTS TO FIT FORDSON TRACTOR



No. F285—Spring, with Large Size Tungsten Point★ .....pair $0.80

No. F286—Bridge, with Large Size Tungsten Point★ .....pair $0.80

PARTS TO FIT K. W. MASTER VIBRATOR

No. 186—Lower Contact Spring, pair $0.60

No. F187—Upper Contact Spring, pair★ $0.80

PARTS TO FIT K. W. MAGNETO

No. F277—Plat. Breaker Arm, each★ $9.00

No. F278—Plat. Breaker Screw, each★ $6.40

No. 311—Carbon Distr. Cover Plunger Brush, Model HK, each $0.30

No. F312—Carbon Distr. Cover Plunger Model T★ $0.30

No. F313—Carbon Distr. Brush, Model HK★ $0.30

WIRING ASSEMBLIES

No. 7130—Set consists of 4 high tension cables only, cut to proper length, complete with soldered terminals, w't per set 8 oz., per set $0.35

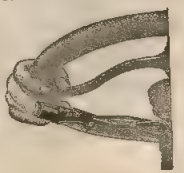
No. 7175—Set consists of 4 high tension cables, cut to proper length, complete with soldered terminals, and 4 low tension timer wires in different colors, complete in a braided cover and soldered terminals of special pattern, w't per set 1 lb., per set $1.00

ALL ABOVE ONE SET IN A CARTON

No. 7177—4355—Set consists of 5 low tension wires, in a heavy braided cover, 4 wires for timer connections and one wire for electric headlight connection, wires cut to proper length, complete with soldered terminals, w't per set 1 lb., per set $0.70

LOOSE

PUSH BUTTONS FOR HORNS



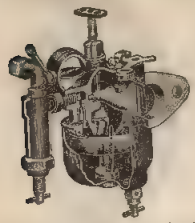
The present Horn Button on the Ford is located at the front of the steering post where it is very hard to reach and a more unhandy place would be hard to find. The Apco Horn Button is attached to the gas lever under the wheel where the operator's hand is most of the time, and even with heavy gloves on, the horn can be sounded easily. To install simply fasten attachment to lever and connect wire to the wire now on the present button, wrapping exposed parts with tape.

No. 7120—Per dozen $16.80

★ Items Marked Thus ★ Are Shipped From Factory Only.

ACCESSORIES FOR FORD CARS

KINGSTON CARBURETORS



The factory advise that the Ford Motor Co., has adopted this Carburetor as standard equipment.

This carburetor owes its success to the construction which makes it possible to thoroughly impregnate all air with atomized gasoline directly at the nozzle and at point of highest air velocities. This is the reason that Ford cars equipped with the Kingston can be throttled down to a speed as slow as walking and accelerated to 40 miles per hour in 20 seconds and every cylinder doing the full share of work all the time. These carburetors start surely and easily because of their perfect atomizing of fuel.

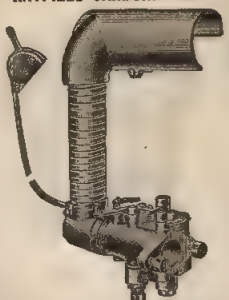
Equipped with new design laminated cork float. Fuel valve made of Monel metal. The compensating air valve is made of bronze. Is equipped with a spray nozzle.

This carburetor will, without any extra fittings, perfectly fit the Ford manifold and operating rods.

No. 5470—W't each 4½ lbs., each $8.50

ONE IN A CARTON

RAYFIELD CARBURETORS



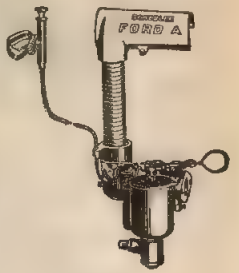
The Improved **Rayfield Carburetor Outfit** was designed especially for Ford motors and is of the plain tube type, having no loose attachments. There are two adjustments, one for low and one for intermediate speeds. The feature of this new Rayfield Outfit is the thermostatic hot air control involved in its construction, making it impossible to over-heat the Ford motor in the summer time. This feature alone will pay for the Carburetor in a short time. It is also adjusted for easy starting of the motor, quick pick-up, increased power, economy of gasoline consumption and uniformity of performance.

The outfit comes complete with all necessary fittings and can be attached in a few minutes.

No. 5467—Complete, w't each 8 lbs., each $27.00

ONE OUTFIT IN A BOX

CARBURETOR OUTFITS



Especially designed for Ford cars, has no moving parts. The new Pitot Tube Principle is introduced, which is an improved type of gasoline nozzle so built that it automatically furnishes a rich mixture for acceleration and thins out this mixture after the normal motor speed has been reached.

No. F5442—"Ford A" Outfit consists of a carburetor, steering column control, hot air drum, flexible tubing, manifold gasket, (2) ⅜x16 in. cap screws and radiator choke wire, w't each complete 12 lbs., complete outfit each★ $26.00

SPRING GOOSER WIRES

The Spring Gooser is a combination priming rod and carbureter spring. Used to replace the spring on carburetors which holds the choker valve open. For use on all Fords, whether choked from the dash or the front.

No. 7340—W't per doz. 1½ lbs., per dozen $3.15

LOOSE

STROMBERG CARBURETORS

In an officially observed test this carburetor gave 37 1/10 miles on one gallon of gasoline, more than 50% decrease in the usual Ford consumption.

No. F5458—The new Stromberg Carburetor for Ford Cars, complete with all necessary attachments ready to install, w't packed 11 lbs.★ .....each $30.40

ONE OUTFIT IN A BOX

★ **Items Marked Thus ★ Are Shipped from Factory Only.**

ACCESSORIES FOR FORD CARS

ANCO TIMER

The Anco Brush gives approved wiping contact of best electrical practice. Cannot jump and wear bumby. Cleans itself and all contacts and avoids gumming, clogging and short circuits.

Brushed brass finish. Accurately manufactured, assembled and tested so that each timer gives the same perfect result. Fits exactly in place of timer now on Ford Car.

No. 5033—Timer complete, for all models of Fords, w't each ¾ lb., each $3.00

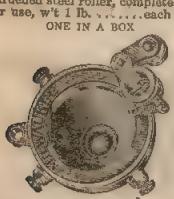
No. 5034—Timer complete, for all models of **Fordson Tractors,** w't each ¾ lb. .....each $3.00

ONE IN A STRIKING DISPLAY BOX. TEN IN A CARTON. ONE HUNDRED IN A CASE

TIMERS

No. 5030—Extra heavy pressed steel shell, aluminum finish, insulating ring of gray bone fibre, terminals insulated by fibre washers all the way through to contact points, one hand self-closing oiler, brush assembly has die cast rotor of white metal alloy, laminated pressed steel arm and hardened steel roller, complete ready for use, w't 1 lb. .....each $1.30

ONE IN A BOX



No. 5032—All parts are made of highest grade steel, machined, hardened, ground and polished. The case is a steel stamping of heavy section, copperized and nickel plated. The fibre ring is of inspected Egyptian fibre. The brush assembly is perfectly balanced of selected bronze and made with calibrated jigs insuring uniformity. Interchangeable with the regular Ford timer. Will fit Ford touring cars, trucks and tractors, w't each 2 lbs. .....each $2.70

ONE IN A BOX

TIMERS

These Timers are made of a quality unequaled in other timers. The roller is a 100-point carbon tool steel, accurately tempered. It is ground concentric within .001 of an inch and polished so as to remove even the slightest irregularity. This guarantees a smooth, even-running roller that will not jump or chatter against the race. A jumping roller causes arcing, which soon destroys both the roller and the race. High carbon steel is used in RED STAR Rollers because it is the only material that insures absolute uniformity in hardness and wear.

The bushing on which the roller rotates is of special chrome-nickel steel, hardened throughout. It has the toughness that provides a long-wearing, smooth bearing for the roller. The bushing is frozen to the accurately formed rivet pin.

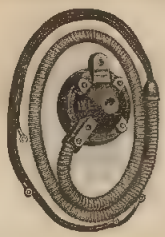
The race is made of finest selected fibre, tested for hardness and toughness. The race with contact shoes polished, leaving no possibility for the slightest inaccuracy that might cause the roller to jump and produce arcing. The assembly is gauged so that the roller rolls squarely on the race, giving perfect contact.

No. 5031—W't each 7 ozs., each $2.40

RED STAR

For Ford Cars, Trucks and Tractors

IXL SHORTPROOF TIMERS



This Timer is made throughout of machine molded Bakelite—the strongest and most durable non-conducting oil, water, and heat proof material used extensively for electrical purposes.

The Timer wires are enclosed in the case and touch no metal except the enclosed terminal screws to which they are attached and pass directly from the Timer case into a flexible metal conduit and are fully protected against wear, dirt, oil and water.

Easy starting and perfect timing under all conditions is accomplished by the use of copper contacts and a rotating copper-carbon brush carried in a die cast thin metal disc. The construction of this Brush Carrier is such that oil working the cam shaft bearing is thrown by centrifugal force from the contacts keeping them free of oil. Drain holes are provided in bottom of Bakelite cap for the escape of this oil.

This timer eliminates all ignition troubles and by insuring perfect timing and a spark of great intensity saves gas, increases power and reduces wear on the motor and component parts.

No. 5029—W't each 1¼ lbs., each $7.00

ONE IN A BOX

ACCESSORIES FOR FORD CARS

GLOBE BATTERY BOXES

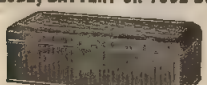
Designed to meet the demand for battery protection without changing location as originally installed. The unprotected location of the battery permits water, mud and slush to be splashed on it, the wood case swells and results in ruining the battery. This box completely covers the battery and protects it. Outside dimensions 9⅝ in. long, 7¼ in. wide, 9¾ in. high. Black enameled, rust proof steel.

A new globe box designed especially to hold the 1920 Ford battery.

It protects the battery against mud, water, snow and sleet which are likely to destroy the battery case and the battery.

No. 6610—C108FBS—Inside dimensions, 8⅜ in. long; 7⅛ in. wide; 10⅜ in. high; finished in fine black enamel, two suit case catches to hold down the snug fitting lid, w't each 7 lbs., each $3.10

GLOBE, BATTERY OR TOOL BOX

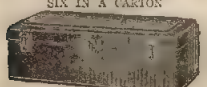


Black Enameled pressed steel. Equipped with two snap fasteners and Hasp and Staple which are welded to the Box. Beaded edge around the bottom making the box very substantial.

Designed for use on small cars.

No. 6613—F22—Length 22 in., width, 9. in., height, 6¾ in., w't each 8¾ lbs., each $3.00

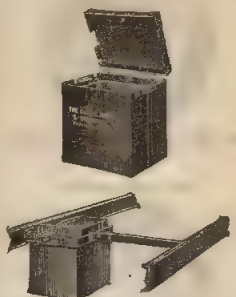
SIX IN A CARTON



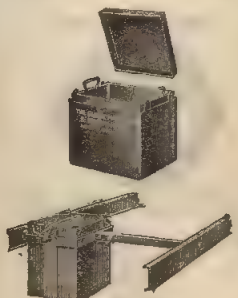
Made to fit on running boards. Black enameled pressed steel, double snap fasteners electrically welded, beaded edge around bottom.

No. 6607—Factory No. B2296, length 22 in., width 9 in., height 6¾ in., w't each, 14 lbs. .....each $3.40

ONE IN A CARTON



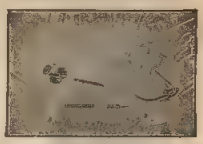
No. 6612—FUS978—**Fits inside the cradle,** no holes to drill or alterations to make, w't each 7 lbs., each $3.60



No. 6611—OS980—**Fits outside the cradle** and is installed without removing the Battery and hold-down bolts or without making alterations to the Battery Cradle. Water can be added, battery tested or entirely taken out without removing the box, w't 7 lbs. .....each $2.20

ONE IN A BOX
HALF DOZEN IN A CARTON

FOOT ACCELERATOR



Does not interfere with the handling of hand throttle. The instant the foot is removed from the accelerator to apply brake, the motor slows down.

No. 6297—Ewald, for Ford cars, w't each 1 lb. .....per set $1.10

ONE SET IN A BOX

Complete, will fit right in regular connections, no cutting or drilling required to attach. Does not interfere with any working part of the car. Works independent from the hand throttle, allowing driver to graduate flow of gas efficiently, thereby saving fuel.

No. 6296—For Ford cars, w't each 1 lb., complete .....per set $2.00

ONE SET IN A BOX

PEDAL RUBBERS

Each pedal pad constructed from high grade rubber securely fastened in heavy steel. The guard at side prevents the foot from slipping and the extra width given the pedal insures a firm foothold. Easily installed. Only one screw to tighten.

No. 6295—W't per set 1 lb., per set $1.70

SET OF THREE PADS IN A BOX

ACCESSORIES FOR FORD CARS

REPAIR PARTS FOR FORD LAMPS

ELECTRIC HEADLIGHTS COMPLETE

No. 5675—6517X—8¼ in. door; body drawn from one-piece metal sheet steel; prop; one-piece type, forged; reflector parabola shaped; silver-plated and corded; reflector is locked in place preventing rattle; bulbs 9 volts or 6-8 volt; finish, black two coats enamel inside and outside baked on, w't per pair 9 lbs.,

per pair $7.30

ONE PAIR IN A CARTON

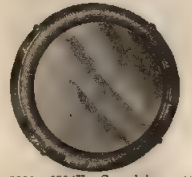
REFLECTOR FOR HEADLIGHTS

Will fit standard makes of headlights as used on Fords.

No. 5679—6585X—Silver plated, w't each ¾ lb. .....each $1.10

REPAIR PARTS FOR FORD LAMPS

HEAD LIGHT DOORS



No. 5680—6594X—Complete with glass .....each $0.70

TAIL LAMP DOORS

No. 5676—6957X—Complete with red semaphore .....each $0.70

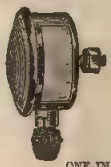
SIDE LAMP DOORS

No. 5677—6956X—Complete with white semaphore .....each $0.60

OIL FOUNTS FOR SIDE OR TAIL LAMPS

No. 5678—6599 and 6450—Complete with burner .....each $1.10

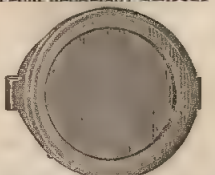
ELECTRIC TAIL LAMP ONE BULB



No. 5695—Fitted with Ediswan D. C. Switch Socket, 3 in. red semaphore lens, white glass at side, bolt and nut bracket to fit Fords, black enameled, complete with bulb, per dozen $12.00

ONE IN A CARTON

PLAIN HEADLIGHT GLASSES



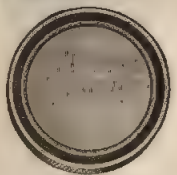
Single strength circular glasses for headlight door. W't per doz. approximately 7¾ lbs.

No. 5071—Diam. 8¾ in. ..dozen $2.15

RED SEMAPHORE GLASSES FOR TAIL LAMPS

No. 5062—3 in. Ruby Lens, w't per doz. 2¼ lbs., per dozen $2.15

HEADLIGHT DOORS



DE-LUX

The center band is black japanned and is set off by two bands of highly polished nickel.

They give the Ford car the substantial appearance of the headlights usually found on the higher priced cars.

It takes but a moment to put them on and greatly improves the looks of your car.

No. 5674—Fits on in place of the No. 6517X, for all model Ford cars, complete with glass, w't each 1¼ lbs. .....per pair $1.45

ONE PAIR IN A BOX

ACCESSORIES FOR FORD CARS

STEWART SPEEDOMETERS

FOR ALL FORD CARS

Affords a great saving of time and labor in installation. Does away with necessity of cutting a round hole in cowl board. Saw a piece out of lower part of dash large enough to accomodate the mechanism, and fit instrument in. The square black enameled flange covers the rough edges and assures a perfect finish to the job. Fully jeweled. Tungsten steel magnet.

Has 3-inch dial face with beveled odometer openings, 60-mile rotating speed dial, 100,000-mile season register and 100-mile trip odometer, which re-sets to any mile or tenth of a mile. Width 5¼ in., height 5 1/32 in.

No. T160A—Complete with all fittings, w't each 11 lbs., each $20.00

ONE IN A BOX

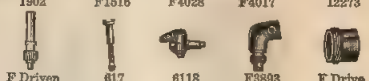
Especially designed for Ford owners who desire no instrument board. Suitable for use on Ford delivery cars and trucks, since it comes equipped with an adjustable bracket for installation on the dash. Bracket can be set so that speedometer tilts upward to face driver. Fitted with nickeled flange. Fully jeweled. Tungsten steel magnet.

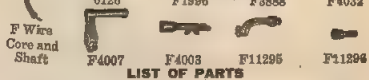
No. T160D—Complete with all fittings, w't each 11 lbs., each $20.00

ONE IN A BOX

GENUINE STEWART SPEEDOMETER REPAIR PARTS

Prices on Application





LIST OF PARTS

Part No.	Description	Price
6118	Swivel Joint, R. H.	$2.75
F	Grease Cup Cap	.20★
F1799	Flexible Shaft, complete up to 72 in.	3.50★
1902	Flexible Shaft Chain, 10 links to the foot, per foot	.35
F1911	Flexible Shaft Casing, without leather cover	2.00★
F	Extra Length Casing, over 72 in.	.40★
F1997	Stewart Flexible Shaft Lubricant, per can	.50★
12273	Upper End Clutch of Chain	.25
617	Sliding Bar and Lower End Clutch of Chain	.35
F	Road Wheel Gear, with washers and screws	1.75★
F	Washers and Screws for use on road wheel gear (set of three)	.15★
6126	Pinion or Small Gear (fibre)	.25
F	Warner and Special Stewart Pinions	.50★
F	Laminated Pinions	1.00★
F	Stud Clamps	2.50★
F512	Clamp for Steering Arm, complete with 4007	2.00★
F1516	Clamp for Steering Arm—Ford Special	2.00★
F4003	Clamp Part (Upright)	.80★
F4025	Clamp Part (Swivel Block)	.35★
F4015	Clamp Part (Cross Bar)	.40★
F4017	Clamp Part (Axle Clip)	.25★
F4014	Clamp Part ("S" Clamp Link)	.40★
F4007	Clamp Cross Bar and Straight Link, one piece	.60★
F4032	Clamp Set Screws	.10★
F	Dash, Bracket, single instrument	1.25★
F1996	Rubber Fender Washer	.15★
F2199	Nickeled Collar for Foot Board	.25★
F7208	Strap or Hanger for Flexible Shaft	.20★
F	Angle Sleeve	3.00★
F	Integral Sleeve	2.00★
F5080	Sleeve	.50★
F616	Flexible Shaft Ferrule and Union	.25★
F11297	Stud Bolt Clamp—Ford Special	2.50★
F	Extra Length Shaft, over 72 in., per foot	.70★
F	Transmission Drive Gear	2.50★
F	Transmission Driven Gear	1.75★

★ Items Marked Thus ★ Are Shipped From Factory Only.

ACCESSORIES FOR FORD CARS

BOYCE MOTO-METERS

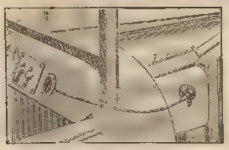
Indicates when unseen parts lack lubrication, when cooling water is getting low, or when there is an overheated condition anywhere throughout the mechanism of the car—a great trouble preventer and repair bill saver; can be attached to any radiator cap in ten minutes. Black dials with white letters.

No. 6629—Midget, new model for Fords, complete with a handsome rubber cap, ready for immediate use, w't each 1 lb. .....each **$5.25**

STEWART WARN-O-METERS

No. F5617—173B for Ford Cars. Finished in black and nickel and complete with Stewart Radiator Cap. Operates the same as the DeLuxe and standard models. Complete with all fittings, w't each 2 lbs., each **$13.35**

ONE IN A BOX



BORG AND BECK

The Hobbs Heat Indicator, accurately indicates on the dash motor temperature of the motor at all times.

Purely mechancial in operation—no electrical connections, nothing to break or get out of order.

Indicating hand on the dial is actuated through flexible, dental type shaft by a small but very efficient thermostat of novel design mounted against motor block by special clamping device. Each instrument is simply, quickly and permanently adjusted for running temperature of the individual motor at time of installation.

A precision instrument made of best possible materials, fully guaranteed by the manufacturers and should be on the instrument board of every car.

Can be installed in one hour or less One model for all cars.

You adjust this instrument to your motor. Whether the normal running point of the motor is low or high, you always know its exact condition.

By being attached to the motor it is not exposed to rain, snow or weather conditions.

The gauge is placed on the instrument board and is easily read day or night. The large white pointer and novel dial makes it readable at a glance.

It is theft proof. Its location is such that it is not liable to breakage.

The universal clamp for attaching the unit to the motor makes the installation easy. Full instructions accompany each instrument.

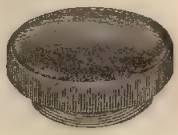
No. 5965—W't each 1 lb., each **$12.70**

ONE IN A BOX

RADIATOR CAPS

No. 7157—Brass, white enamel, black lacquered with rubberized top, w't per doz. 8 lbs. ....per dozen **$4.55**

LOOSE



POVASCO

Brass cap with highly polished rubberized top, impervious to heat or cold, will not become loose or break.

No. 6869—W't per doz. 4 lbs., per dozen **$10.80**

ONE IN A BOX

A practical addition to any Ford car, easily unscrewed.

Cast Brass, Weight Per Dozen 6 Lbs.

No. 7155—Highly polished brass, per dozen **$7.20**

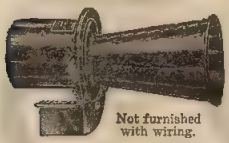
REX

Made of brass highly nickel plated and beautifully polished. W't each 7 oz.

No. 5930—Per dozen **$10.30**

ONE IN A BOX

A. E. WARNING SIGNALS



Not furnished with wiring.

Wiring is already on Ford Cars.

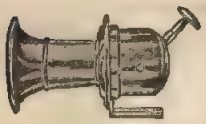
MOTOR DRIVEN

Built special to fit all **Ford** cars equipped with 6 volt batteries.

Finished in black, equipped with brackets as illustrated, ready for installation.

No. T6057—Length 10 in., diam. 5 in., w't each 4 lbs. .....each $8.00

ONE IN A BOX



This model is efficient in results. The push rod is set at a forty-five-degree angle, making possible a simplification of interior mechanism. One stroke of the plunger creates 84 sound impulses. It has a vibratone steel diaphragm.

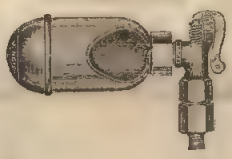
No. T6036—152B—Black enamel finish, complete with bracket, w't each 3¾ lbs. .....each $4.70

ONE IN A CASE

H.S.B.&CO. OUR VERY BEST SOLID VALUE

Our Very Best is the Very Best.

BUELL EXPLOSION WHISTLES



A powerful, warning device, fits in priming cup opening, getting the explosion direct.

No. 6070—Single tone, whistle complete, ready for installation, w't each 1 lb. .....each $5.70

No. 6072—Special Spark Plug for use on engines not having priming cups, w't each 10 oz., extra, each $1.30

ONE SET IN A BOX

SPECIAL PUMP

No. 6349—Junior, Spark Plug Pump, guaranteed to give satisfaction and inflate tire with pure, fresh air, 70 lb. pressure in three minutes, attached and used the same as the Standard Spark Plug Pump, construction strong, metal piston rings and valves used, no wearing parts to break or get out of order, guaranteed for one year, fitted with ⅛ in. connection and furnished complete with 10 ft. hose, accurate gauge and connections, w't each 2 lbs., each $11.75

H.S.B. & CO. REV-O-NOC

We Stand Behind Our Brand.

PUMPS

BRIDGEPORT

No. 6339—Seamless drawn brass tubing barrel 1¼x17 in., which affords smooth bearing surface for leather plunger bucket, black japanned hardwood handle, heavy sheet brass cap, coil spring attached to plunger rod to prevent hitting on up stroke, 3-ply, 20 in. hose equipped with screw type connection to fit all valves, heavy cast iron foot base, w't each 2 lbs. .....each $1.76

LOOSE

ROSE FRICTIONLESS

A most powerful, quick acting pump with few parts, no vacuum in the cylinder.

Single cylinder, seamless steel barrel, brass base and folding stirrup, patent valve permitting full supply of air below the plunger, complete with 24 inches of 5 ply rubber hose.

Nos.	6332	6336
Cylinder, size, in.	20x1¼	20x1⅜
W't each, lbs.	2	4
Each	$3.30	4.00

ONE IN A BOX

ACCESSORIES FOR FORD CARS

SIMPLEX AUTO JACKS

A sturdy, powerful, dependable Jack for light pleasure cars. Finest malleable iron construction, all parts carefully finished. Steel spring case, equipped with real piano wire. Pawls operate perpendicularly. Jacks work easily, rapidly and positively. Cannot get out of order—won't break.

No. 6130—36—Capacity ½ ton, height 10 in., left 6¼ in., w't 6 lbs., each $3.60

AJAX JACKS

Pressed steel, finished in black enamel, light in weight, strong and durable. Equipped with a single spring action. Used as standard equipment by many of the large manufacturers of automobiles.

No. 6148—Height 10½ in., lift 6 in., capacity 2,000 lbs., complete with steel handle, w't each 3 lbs., each $1.70

NATIONAL STANDARD

No springs, no gears, no complications, no small parts to stick and quickly rust out.

No. 6164—14—Height 9 in., with screw down, height with screw raised 14¾ in., w't 3 lbs., each $2.20

LICENSE BRACKETS

A combined License Bracket, Crank Holder and Locking Device. Fastens under nuts on front spring clip; Crank Holder turns up out of the way and is firmly held in position while starting crank is being used.

To lock car engage crank as in starting and pass any lock of suitable size through hole in bracket and around crank handle.

Finished in black enamel and supplied complete with screws and nuts.

No. 6991—W't per doz. 5 lbs., per dozen $5.30

LOOSE

FRONT TAG CLIP

Hold front number plate or license tag rigid, under spring clip nuts. Made from steel, finished in black enamel and furnished with nuts, bolts, washers, etc. Will fit any plate.

No. 5990—W't per doz. 6 lbs., per dozen pairs $3.60

ONE PAIR IN A BOX

COWL BOARD CUTTERS

A practical tool for cutting circular holes in metal or wood.

A steel center punch is screwed firmly into the cast iron frame and holds both cutting tools steady.

The two specially hardened crucible steel cutting edges can be adjusted to cut holes from ½ inch to 4½ inches in diameter.

The Cowl Board Cutter can be used in either a hand brace and bit or in an electric drill.

No. 7360—W't each ½ lb., each $6.70

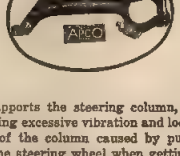
STEERING WHEELS

Here is a big, handsome, strong steering wheel that adds to the appearance of a Ford and makes driving easier and safer.

Constructed of stout, tough, hardwood finished in walnut with corrugated rim. Spider is of die cast polished aluminum.

No. 7136—Non-tilting, 17 in. wheel, w't 5 lbs. .....each $7.00

STEERING COLUMN BRACE



Supports the steering column, preventing excessive vibration and loosening of the column caused by pulling on the steering wheel when getting in and out of the car. Consists of a black enameled malleable iron bracket, bolts and screws, ready to attach. Can be put on in a very few minutes.

No. 7122—W't per doz. 10 lbs., per dozen $16.00

ONE IN A BOX

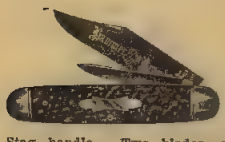
HAMMER BRAND POCKET KNIVES

Redwood handle. Two blades, spear and pen, etched. Brass lined, steel bolsters

NO.	Length	Wt. Doz.	DOZEN
228	3⅜ in.	2¼ lb.	$18.00

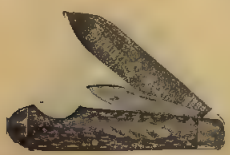
Stag handle. Two blades, spear, pen, etched. Brass lined, steel bolsters.

NO	Length	Wt Doz.	DOZEN
231	3⅜ in.	1⅝ lb.	$18.00



Stag handle. Two blades, one large clip and one Harrison punch, half polished, etched. Brass lined, nickel silver bolsters

NO	Length	Wt Doz.	DOZEN
2211	3⅜ in.	2¼ lb.	$18 00



Stag handle, easy opener. Two blades, large spear and pen. Brass lined; steel bolsters.

NO.	Length	Wt Doz.	DOZEN
6030	3½ in.	2 lb.	$18.00

Stag handle. Two blades, large clip and small pen. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	
26	2⅞ in.	1¼ lb.	$18.00

Stag handle. Two blades, large sheepsfoot and small pen. Brass lined; nickel silver cap and bolsters.

NO.	Length	Wt. Doz.	
27	2⅞ in.	1⅓ lb.	$18.00

Rosewood handle. Two blades, spear and pen; brass lined; nickel silver caps.

NO	Length	Wt Doz	DOZEN
2315	4 in.	3 lb.	$21.00

Ebony handle Two blades, spear and pen, etched. Brass lined, nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
2078	3⅝ in.	2¼ lb.	$24.00

Stag handle. Two blades, spear point, glazed finish. Brass lined, steel cap and bolster.

NO.	Length	Wt. Doz.	DOZEN
2538	3⅞ in.	2⅝ lb.	$24 00

Stag handle. Two blades, saber clip and spear point; half polished and etched. Brass lined; nickel cap and bolsters.

NO.	Length	Wt. Doz.	DOZEN
2789	3⅜ in.	2 lb.	$24.00

Green shell handle. Three blades, clip, spey and pen; nickel silver lining and bolsters; milled back.

NO.	Length	Wt. Doz.	DOZEN
3610	3½ in.	1½ lb.	$30 00

Stag handle. Two blades, clip and spey. Brass lined; nickel silver bolsters.

NO.	Length	Wt Doz.	DOZEN
2510	3⅜ in.	1½ lb.	$27.00

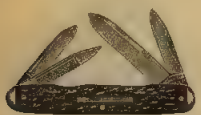
HAMMER BRAND POCKET KNIVES

Stag handle. Three blades, slim clip stabber, regular clip and leather punch, full polished. Nickel silver lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
3480	3⅝ in.	2 lb.	$42.00

Stag handle. Three blades; clip, spey and Harrison punch; half polished and etched. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
3822	3⅝ in.	2⅝ lb.	$42.00



Stag handle. Four blades, one large, two small pen, and nail file; nickel silver lining and tips; milled back.

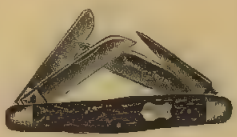
NO.	Length	Wt. Doz.	DOZEN
415	3⅜ in.	1½ lb.	$30.00

Stag handle. Four blades; spear, spey, clip and leather punch; etched. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
4224	3⅝ in.	3½ lb.	$36.00

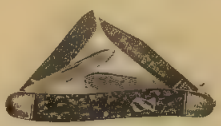
Stag handle. Four blades; large spear point, Harrison punch, can and bottle opener, screw driver. Half polished and etched. Brass lined; nickel silver bolsters and shackle.

NO.	Length	Wt. Doz.	DOZEN
BS1	3⅜ in.	2½ lb.	$36.00



Stag handle. Four blades, clip, sheepsfoot, spey and Harrison punch, milled. Nickel silver lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
4325	3⅜ in.	2 lb.	$42.00

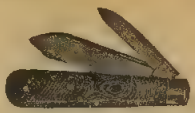


Stag handle. Four blades; clip, spear point, sheepfoot and pen; blades etched. Nickel silver lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
4215	3⅜ in.	2 lb.	$48.00

Stag handle. Four blades; saber clip, sheepfoot, can and bottle opener, Harrison punch; half polished and etched. Brass lined; nickel silver bolsters and shackle.

NO.	Length	Wt. Doz.	DOZEN
4018	4¼ in.	4½ lb.	$54.00



Amber shell handle. Two blades, spear and pen. Brass lined; nickel silver bolsters.

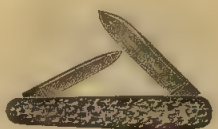
NO.	Length	Wt. Doz.	DOZEN
6155	3 in.	1½ lb.	$16.00

Stag handle. Two pen blades. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
2092	2⅝ in.	¾ lb.	$15.00

Ebony handle. Two blades, spear and pen. Brass lined, nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
2828	3½ in.	1⅝ lb.	$18.00



Stag handle. Two blades, spear and pen. Brass lined.

NO.	Length	Wt. Doz.	DOZEN
2045	3⅜ in.	⅞ lb.	$18.00

Stag handle. Two blades; spear and nail file. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
280	3⅛ in.	⅝ lb.	$21.00

HAMMER BRAND POCKET KNIVES

Stag handle. Three blades; spear and spey point, one Harrison punch; half polished and etched. Brass lining; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
3240	3⅞ in.	2¼ lb.	$33.00

Stag handle. Three blades, one clip point, one sheepfoot, one Harrison punch; half polished and etched. Brass lined; nickel silver bolsters.

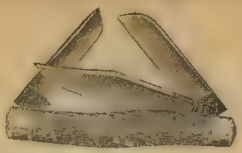
NO.	Length	Wt. Doz.	DOZEN
3236	3⅞ in.	2¼ in.	$33.00

Stag handle. Three blades; large clip, spey and pen; full polished; milled back. Nickel silver lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
3510	3¾ in.	1¼ lb.	$33.00

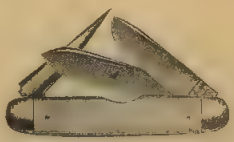
Stag handle. Three blades; clip, spey and leather punch; etched. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
3518	3⅞ in.	2 lb.	$33.00



Green shell handle. Three blades, long clip, sheep foot and spey; brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
3015	4 in.	2¼ lb.	$36.00



Silver shell handle. Three blades, spear, spey and Harrison punch. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
3440	3⅞ in.	2¼ lb.	$36.00

Stag handle. Three blades, clip, spey and Harrison punch. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
3542	3⅞ in.	2¼ lb.	$36.00

Stag handle. Three blades, slim clip, sheepsfoot and spey, full polished. Nickel silver lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
3423	3½ in.	1½ lb.	$36.00

Stag handle. Three baldes, stabber, clip and leather punch, full polished. Nickel silver lined; nickel silver bolsters.

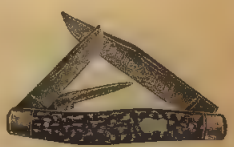
NO.	Length	Wt. Doz.	DOZEN
3435	3½ in.	1¾ lb.	$36.00

Stag handle. Three blades, slim clip, long sheepsfoot and spey, full polished. Nickel silver lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
3425	3⅞ in.	2 lb.	$42.00

Stag handle. Three blades; long clip, sheepfoot and spey; half polished and etched. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
3515	4 in.	2¾ lb.	$36.00



Stag handle. Three blades, clip, spey and Harrison punch. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
3521	3⅞ in.	2¾ lb.	$36.00

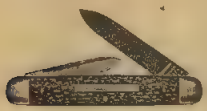
HAMMER BRAND POCKET KNIVES

Cocobolo handle. Two blades, spear and pen. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
2144	3¼ in.	1 lb.	$21.00

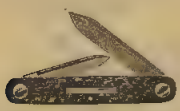
Stag handle. Two blades, pen and nail file; brass lined, nickel silver tipped; thin oval model.

NO.	Length	Wt. Doz.	DOZEN
2004	3⅛ in.	1½ lb.	$21.00



Stag handle. Two blades; spear and pen; half polished. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
2855	3¼ in.	1 lb.	$21.00



Stag handle. Two spear pointed blades; half polished. Brass lined; large nickel silver rivets.

NO.	Length	Wt. Doz.	DOZEN
6187	3¼ in.	1 lb.	$21.00

Stag handle. Two blades; spear and pen. Brass lined; nickel silver tips.

NO.	Length	Wt. Doz.	DOZEN
2048	3¼ in.	⅞ lb.	$21.00

Stag handle. Two blades; spear and pen; etched. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
261	3¼ in.	⅞ lb.	$24.00

Stag handle. Three blades, spear, pen and nail file; brass lined, nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
3154	3¼ in.	3½ lb.	$24.00

Stag handle. Three blades, large and small clip, pen; long nickel silver bolsters; brass lined.

NO.	Length	Wt. Doz.	DOZEN
392	3¼ in.	1½ lb.	$24.00

Stag handle. Three blades; spear and two pens; etched. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
3045	3⅜ in.	1½ lb.	$24.00

Stag handle. Three blades, spear, pen and nail file. Brass lined, nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
323	2⅞ in.	⅞ lb.	$24.00

Ebony handle. Three blades; spear and two pens; etched. Brass lined; nickel silver bolsters.

NO	Length	Wt. Doz.	DOZEN
3117	3⅜ in.	1½ lb.	$27.00

Stag handle. Three blades; spear and two pens; etched. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
3119	3⅜ in.	1½ lb.	$27.00

Stag handle. Three blades; spear and two pens; etched. Brass lined; nickel silver tips.

NO.	Length	Wt. Doz.	DOZEN
3048	3⅜ in.	1½ lb.	$27.00

HAMMER BRAND POCKET KNIVES

Stag handle. Three blades, large blade spear point, two pen; half polished and etched. Brass lined, nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
3745	3¼ in.	1½ lb.	$27.00

Stag handle. Three blades; large blade clip point, two spear; half polished and etched. Brass lined; nickel silver bolsters.

NO	Length	Wt. Doz.	DOZEN
3750	3¼ in	1½ lb.	$27.00

Stag handle. Three blades; spear, pen and nail file; full polished. Brass lined; nickel silver tips, sunk joints.

NO.	Length	Wt. Doz	DOZEN
848	3¼ in.	1½ lb.	$30.00

Stag handle. Three blades, large and small pen with nail file; brass lined, nickel silver tips, milled back.

NO.	Length	Wt. Doz.	DOZEN
315	3⅜ in.	1 lb.	$30.00

Ebony handle. Three blades; large blade saber clip; half polished and etched. Brass lined; nickel silver bolsters.

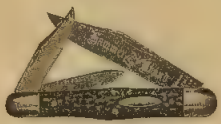
NO.	Length	Wt. Doz.	DOZEN
3306	3½ in.	1⅝ lb.	$36.00

Stag handle. Three blades; saber clip, short clip and Harrison punch. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
3338	3½ in.	1⅝ lb.	$36.00

Stag handle, thin model. Three blades, spear, pen and nail file, half polished and etched. Nickel silver lined, nickel caps.

NO.	Length	Wt Doz	DOZEN
3281	3 in.	1 lb.	$30.00



Three blades; two clip and one spear; full polished. Brass lined; nickel silver bolsters.

Stag handle

NO.	Length	Wt. Doz.	DOZEN
307	3½ in.	1⅝ lb.	$36.00

Pearl handle

309	3½ in.	1⅝ lb.	$54.00

Stag handle. Four blades; two spear point, can opener, cork screw. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
488	3¼ in.	1⅝ lb.	$42.00

Stag handle. Four blades; large spear, two pens, nail file. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
422	2⅞ in.	⅞ lb.	$27.00

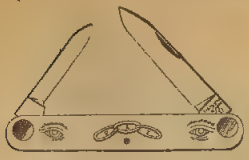
Stag handle. Four blades, spear, two pens and nail file. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
4104	3⅜ in.	1½ lb.	$30 00

Stag handle. Four blades; two spear point, one sheep foot point, one nail file; half polished. Brass lined; nickel silver tips.

NO	Length	Wt. Doz.	DOZEN
483	3 in.	— lb.	$36 00

HAMMER BRAND POCKET KNIVES



Silver shell handle, stamped with emblem of secret societies. Two blades; spear point; half polished. Brass lined; large nickel silver rivets.

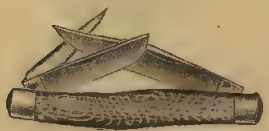
NO.	Length	Wt. Doz.	DOZEN
6171E	3¼ in.	1 lb	$21.00

State emblem wanted.

Note—This knife is also used for advertising purposes. Prices quoted upon receipt of full information.

For illustration, see Page 2110-1. Gold plated handle. Two blades, large and small pen. Chain shackle. Brass lined.

NO.	Length	Wt. Doz.	DOZEN
2800	2⅛ in.	⅛ lb.	$24.00

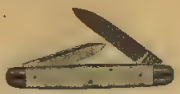


Amber shell handle. Three blades, clip, spey and Harrison punch. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
3621	3¾ in.	2½ lb.	$42.00

Pearl handle. Two blades; spear point; half polished. Brass lined; nickel silver cap and bolsters.

NO.	Length	Wt. Doz.	DOZEN
2070	2⅝ in.	1 lb.	$30.00



Pearl handle. Two blades; spear point; half polished. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
295	2⅜ in.	1⅛ lb.	$30.00

Pearl handle. Two blades, pen and nail file; brass lined, nickel silver tips.

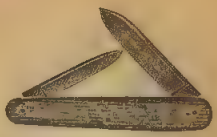
NO.	Length	Wt. Doz.	DOZEN
2006	3½ in	1 lb.	$36.00

Pearl handle. Two blades, spear and nail file; brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
282	3⅛ in.	⅜ lb.	$36 00

Pearl handle. Two blades; spear and pen. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
2858	3⅜ in.	1 lb.	$39.00

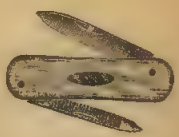


Pearl handle. Two blades, spear and pen. Brass lined.

NO.	Length	Wt. Doz.	DOZEN
2047	3⅜ in.	⅞ lb.	$42.00

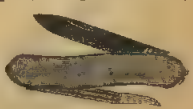
Pearl handle. Two blades; spear and pen; etched. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
263	3⅛ in.	1⅛ lb.	$42.00



Pearl handle. Two blades; pen and nail file. Shadow. Nickel silver lined.

NO.	Length	Wt. Doz.	DOZEN
644	2¾ in.	⅝ lb.	$42.00



Pearl handle. Two blades, pen and nail file; thin shadow pattern; nickel silver lined; full polished

NO.	Length	Wt. Doz.	DOZEN
2279	3 in.	1 lb	$48.00

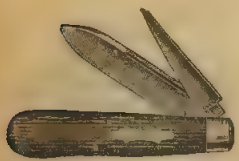
Pearl handle, emblem. Two blades, pen and nail file, milled and full polished. Gold emblem; nickel silver lined; nickel silver bolsters.

NO.	Emblem	Length	Wt. Doz.	DOZEN
2270M	Masons	3 in.	1 lb.	$60.00
2270E	Elks	3 in.	1 lb.	60.00
2270S	Shriners	3 in.	1 lb.	60.00

HAMMER BRAND POCKET KNIVES

Ebony handle. Two blades, clip and pen; glazed and etched. Brass lined, steel bolsters.

NO.	Length	Wt. Doz.	DOZEN
2257	3½ in.	2 lb.	15.00



Cocobolo handle. Two blades, spear and Harrison punch. Brass lined; steel bolsters.

NO.	Length	Wt. Doz.	DOZEN
6444	3¾ in.	2 lb.	$16.20

Ebony handle. Two blades, sheepfoot point and pen point, half polished and etched. Brass lined, nickel silver bolsters.

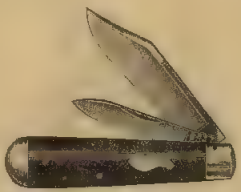
NO.	Length	Wt. Doz.	DOZEN
BS2	3½ in.	2 lb	$16.80

Redwood handle. Two blades, spear and pen, etched. Brass lined. nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
2033	3¼ in.	2 lb.	$18.00

Stag handle. Two blades, spear and pen; etched. Brass lined, nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
2057	3¼ in.	2 lb.	$18.00



Ebony handle. Two blades, clip and pen; etched. Brass lined, nickel silver bolsters

NO.	Length	Wt. Doz.	DOZEN
2981	3½ in.	2 lb.	$18 00

Two blades, spear point, half polished and etched. Brass lined, nickel silver bolsters.

Ebony handle

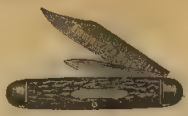
NO.	Length	Wt. Doz.	DOZEN
2421	3¼ in.	1⅛ lb.	$18.00

Stag handle

NO.	Length	Wt. Doz.	DOZEN
2423	3¼ in.	1⅛ lb.	$18.00

Ebony handle. Two blades, clip and pen. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
6037	3¼ in.	2 lb.	$18.00



Stag handle. Two blades, clip and pen; half polished and etched. Brass lined, nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
6038	3¼ in.	2 lb.	$18.00

Pearlshell handle. Two blades, clip and pen; half polished and etched. Brass lined, nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
6142	3¼ in.	2 lb.	$24 00

Redwood handle. Two baldes. spear and clip, etched. Brass lined, nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
2020	3½ in.	2 lb.	$18.00

Stag handle. Two blades, spear point, half polished and etched. Brass lined, nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
2022	3¼ in.	1⅛ lb.	$18.00

HAMMER BRAND POCKET KNIVES

Ebony handle. Two blades, spear and pen; glazed finish. Steel lined, steel bolsters.

NO.	Length	Wt. Doz.	DOZEN
225	3⅜ in.	1½ lb.	$9 60

Iron stag handle. Two blades, spear and pen, etched.

NO.	Length	Wt. Doz.	DOZEN
2101	3⅜ in.	1⅝ lb.	$10.80

Stained bone handle. Two blades, spear and pen. Steel lined, steel bolsters

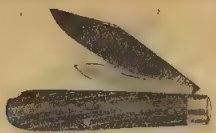
NO.	Length	Wt. Doz.	DOZEN
2500	3⅜ in.	2 lb.	$10.80

Stag handle. Two blades, clip and pen; glazed finish. Steel lined, steel bolsters.

NO.	Length	Wt. Doz.	DOZEN
2643	3¼ in.	1½ lb.	$10.80

Redwood handle. Two blades, spear and pen; glazed finish. Steel lined, steel bolsters.

NO.	Length	Wt. Doz.	DOZEN
226	3⅜ in.	1⅝ lb.	$10.80



Redwood handle. Two blades, clip and pen; glazed finish. Steel lined, steel bolsters.

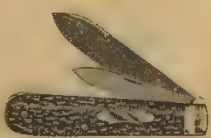
NO.	Length	Wt. Doz.	DOZEN
209	3⅜ in.	1⅝ lb.	$10.80

Stained bone handle. Two blades, clip and pen. Steel lined, steel bolsters.

NO.	Length	Wt. Doz.	DOZEN
2504	3⅜ in.	1⅝ lb.	$10.80

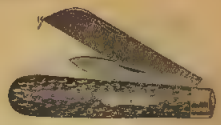
Redwood handle. Two blades, sheep foot and pen. Steel lined, steel bolsters.

NO.	Length	Wt. Doz.	DOZEN
264	3⅜ in.	1⅝ lb.	$10.80



Stag handle. Two blades, spear and pen. Brass lined, steel bolsters.

NO.	Length	Wt. Doz.	DOZEN
2414	3¼ in.	1½ lb.	$15.00

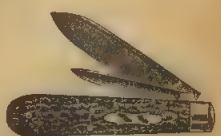


Stag handle. Two blades, sheep-foot and pen. Brass lined, steel bolsters.

NO.	Length	Wt. Doz.	DOZEN
2418	3⅜ in.	1⅝ lb.	$15.00

Stag handle. Two blades, clip and spear. Brass lined, nickel silver bolsters.

NO	Length	Wt. Doz.	DOZEN
2440	3⅜ in.	2 lb	$15.00



Stag handle. Two blades, one spear point, one Harrison punch, glazed and etched. Brass lined, steel bolsters.

NO.	Length	Wt. Doz.	DOZEN
6446	3¾ in.	2 lb.	$15.00

Two blades, spear and pen; glazed and etched. Brass lined, steel bolsters.

Cocobolo handle

NO.	Length	Wt. Doz.	DOZEN
2254	3½ in.	2 lb.	$15.00

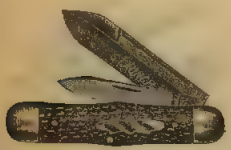
Stag handle

NO.	Length	Wt. Doz.	DOZEN
2256	3½ in.	2 lb.	15.00

HAMMER BRAND POCKET KNIVES

Cocobolo handle. Two blades, heavy large spear and small pen; glazed and etched. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
2550	3¾ in.	2 lb.	$24.00



Stag handle. Two baldes, spear point, glazed and etched. Brass lined, nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
2553	3¾ in.	2 lb.	$24.00

Stag handle. Two large blades, spear point and clip point, half polished, etched Brass lined, nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
2309	3¾ in.	2¼ lb.	$24.00

Ebony handle. Two blades, heavy spear and pen. Brass lined, nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
2109	3¾ in.	2 lb.	$24.00

Physician's

Stag handle. Two blades, slim spear and pen. Half polished, etched, brass lined. Nickel silver cap and bolster.

NO.	Length	Wt. Doz.	DOZEN
2542	4¼ in.	2¾ lb.	$24.00

Stag handle. Two blades, spear point, half polished, etched. Brass lined, nickel silver cap and bolsters.

NO.	Length	Wt. Doz.	DOZEN
2503	4 in.	2¾ lb.	$24.00

Stag handle. Two blades, large blade clip point, half polished and etched. Brass lined, nickel silver cap and bolsters.

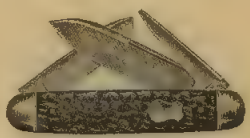
NO.	Length	Wt. Doz.	DOZEN
2007	4¼ in.	3¼ lb.	$27.00

Stag handle. Two blades; clip and spey; half polished and etched. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
2513	3¾ in.	1¾ lb.	$27.00

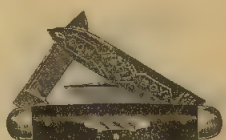
Stag handle. Three blades, spear, sheepsfoot and pen, half polished. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
3202	3½ in.	2½ lb.	$30.00



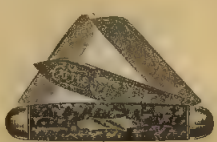
Stag handle, cattle knife. Three blades, spear, spey and a leather punch. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
3402	3½ in.	2½ lb.	$30.00



Ebony handle. Three blades, spear, clip and spey, half polished. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
3229	3¾ in.	2½ lb.	$30.00



Stag handle. Three blades, spear, sheepfoot and spey point; half polished and etched. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
3230	3¾ in.	2½ lb.	$33.00

HAMMER BRAND POCKET KNIVES

We selected these wonder knives to lead our list because they are of sturdy construction and the standard established years ago has been maintained. These goods run uniformly to grade and replacements of stock enable you to assure satisfaction to customers. You can recommend the "Hammer Brand" to your customers as enthusiastically as we do to you.

Iron stag handle. One large spear blade.

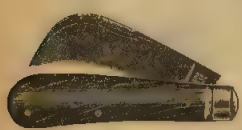
NO.	Length	Wt. Doz.	DOZEN
1101	3⅞ in.	1½ lb.	$8.40

Stained bone handle. One large blade. Steel lined; steel bolsters.

NO.	Length	Wt. Doz.	DOZEN
1500	3⅞ in.	1⅞ lb.	$7.80

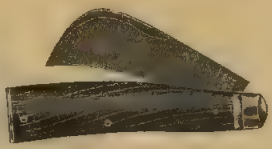
Redwood handle. One large spear blade, etched. Steel lined; steel bolsters.

NO.	Length	Wt. Doz.	DOZEN
1750	3⅞ in	1⅞ lb.	$7 80



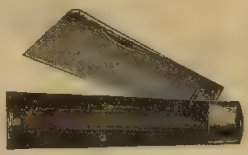
Redwood handle. One pruning blade; glazed finish. Steel lined and steel bolsters.

NO.	Length	Wt. Doz.	DOZEN
142	4 in.	2⅞ lb.	$15.00



Rosewood handle. One large pruning blade; brass lined; nickel silver cap and bolster.

NO	Length	Wt. Doz	DOZEN
1073	4 in.	4¾ lb.	$21.00



Rosewood handle. Cotton sampling; one blade; steel lined; steel bolster.

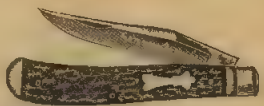
NO.	Length	Wt Doz.	DOZEN
1150	4¼ in.	3¾ lb	$18.00

Stag handle. One budding blade; glazed finish. Brass lined.

NO.	Length	Wt. Doz.	DOZEN
102	4 in.	⅞ lb.	$15.00

Ebony handle. Budding; has one blade; white ivory tip.

NO.	Length	Wt. Doz.	DOZEN
100	4 in.	14 oz.	$27.00



Stag handle. One large saber clip blade, etched. Brass lined, nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
1789	3⅞ in.	2⅝ lb.	$15.00

Stag handle. One lock-back clip blade, etched. Brass lined, nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
1665	4¼ in.	3 lb.	$27.00

Redwood handle. One saber clip blade; glazed finish. Steel lined and steel bolsters.

NO.	Length	Wt. Doz	DOZEN
188	5¼ in.	4¾ lb.	$24.00

Ebony handle. Two blades, spear and pen; steel lined, steel bolster; nickel plated chain to shackle.

NO	Length	Wt Doz.	DOZEN
6041	3⅛ in.	1⅛ lb.	$9.00

HAMMER BRAND POCKET KNIVES

Pearl handle. Three blades, spear, pen and nail file. Brass lined, nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
328	2⅞ in.	⅞ lb.	.....$33.00

Pearl handle. Three blades; spear point; half polished. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
3365	2⅞ in.	⅞ lb.	.....$39.00

Pearl handle. Three blades, spear, pen and nail file; brass lined; nickel silver bolsters.

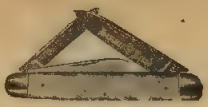
NO.	Length	Wt. Doz.	DOZEN
3157	3¼ in.	3⅛ lb. .	..$42.00

Pearl handle. Three blades; spear, pen and nail file. Nickel silver lined, nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
317	3 in.	1 lb.	.....$48.00

Pearl handle. Three blades; two spear point, one file blade; half polished and etched. Brass lined and nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
371	3 in.	1 lb.	.....$48.00



Pearl handle. Three blades, spear and two pens, full polished. Nickel silver lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
3757	3½ in.	1½ lb. ..	.. .. $48 00

Pearl handle. Three blades; two spear point, one file blade; full polished. Nickel silver lined.

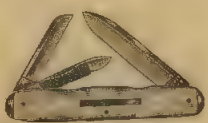
NO.	Length	Wt. Doz.	DOZEN
3025	3½ in.	⅝ lb.	$54.00

Pearl handle. Three blades; spear, pen and nail file; etched. Nickel silver lined, nickel silver tips.

NO.	Length	Wt. Doz.	DOZEN
3282	3 in.	1 lb.	$60.00

Pearl handle. Three blades, cattle spear, sheepsfoot and pen; brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
3204	3½ in.	2½ lb.	.....$60.00



Pearl handle. Three blades, large pen, small sheepsfoot, nail file; brass lined; nickel silver tips, milled back.

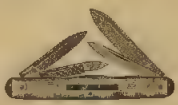
NO.	Length	Wt. Doz.	DOZEN
345	3⅝ in.	1¾ lb.	.....$60.00

Pearl handle. Four blades; large spear, two pens and nail file. Brass lined; nickel silver bolsters.

NO.	Length	Wt. Doz.	DOZEN
423	2⅞ in.	⅞ lb. .	.....$42.00

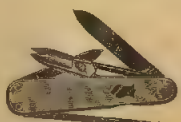
Pearl handle. Four blades; spear point, sheepfoot and nail file; full polished. Brass lined; nickel silver tips.

NO.	Length	Wt. Doz.	DOZEN
485	3 in.	1⅛ lb.	...$54.00



Pearl handle. Four blades, one large, two small, pen and nail file; nickel silver tips and lining; back is finely milled.

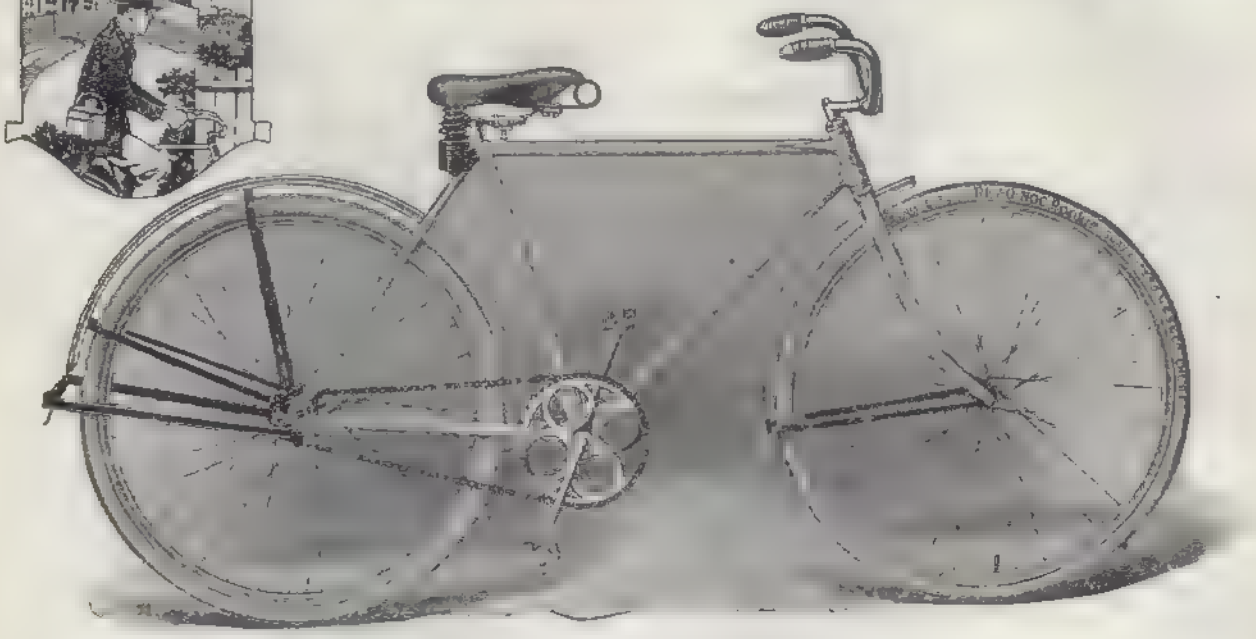
NO.	Length	Wt. Doz.	DOZEN
417	3 in.	1⅛ lb.	.....$48.00



Pearl handle, four blades, one large, one small, pen, scissors and nail file; nickel silver lining.

NO.	Length	Wt. Doz.	DOZEN
444	3½ in.	2½ lb.	.....$66 00

HIBBARD, SPENCER, BARTLETT & CO.
STATE STREET BRIDGE



CHICAGO BICYCLES

Frame—19 gauge 1 in. steel tubing, reinforced to joints.
Fork—Oval nickel plated Crown
Hanger—One piece round hanger, 7 in. crank.
Sprocket—Front 26 tooth, circular design, rear 9 tooth.
Front Hub—New Departure, turned from solid bar of steel.
Chain—1 in. pitch, twin roller type.
Mudguards—Enameled to match frame.
Rims—No. 1046 one piece, enameled to match frame.
Handle Bars—No. 1103 CHICAGO Pattern.
Saddle—No. 204 HIBBARD Eagle Scout.
Grips—No. 1408 leather.
Pedals—No. 1501-S Torrington Improved rubber.
Stand—No. 1009 furnished, enameled in black.
Tires—No. 110 HIBBARD Rookie, size 28×1¼.
Finish—Dark Royel blue, red sun-burst head.

No. F600—20 in. frame, **stripped model,** with N. D. brake, guards and stand★ ..... each **$41.10**

No. T610—20 in. frame, equipped with saddle, handle bars, pedals, brake, bars and stand, **without tires** ..each **$47.10**

No. T620—20 in. frame, equipped complete with saddle handle bars, pedals, No. T110 HIBBARD Rookie Tires, brake, guards and stand ..... each **$53.00**

No. T650—20 in. frame, equipped with saddle, handle bars, pedals, No. 113 Il-a-noy single clincher tires, brake guards and stand ..... each **$57.00**

No. F602—22 in. frame, **stripped model,** with N. D. brake, guards and stand★ ..... each **$41.10**

No. T612—22 in. frame, equipped with saddle, handle bars, pedals and stand, **without tires** ..... each **$47.10**

No. T622—22 in. frame, equipped complete with saddle, handle bars, pedals, No. T110 HIBBARD Rookie tires, brake, guards and stand ..... each **$53.00**

No. T652—22 in. frame, equipped with saddle, handle bars, pedals, No T113 Il-a-noy single clincher tires, brake, guards and stand ..... each **$57.00**

Tool Bag or Tools not Included with Above Models

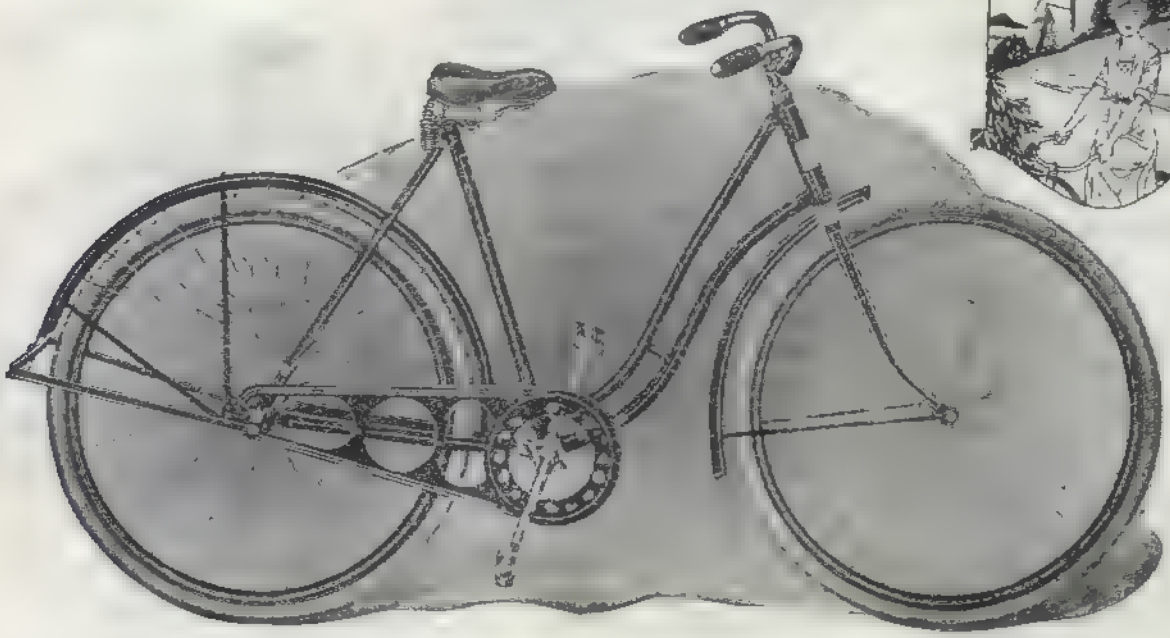
Extra for tool bag and tools ..... each **$0.80**

Extra for steel lined clincher rims on models Nos. F600★, T 610, F602★, and T612 ..... each **1.50**

Weight, packed for shipment, about 55 lbs.

★ **Items Marked Thus ★ are Shipped from Factory Only.**

HIBBARD, SPENCER, BARTLETT & CO.
STATE STREET BRIDGE



LADIES' REVONOC BICYCLES

Frame—Regular 19 gauge 1 in. steel tubing, regular model for ladies.

Fork—Oval Crown, enameled to match frame.

Hanger—One piece round hanger, 7 in. crank.

Sprocket—Front 24 tooth, circular design, rear 9 tooth.

Front Hub—New Departure, turned from solid bar of steel.

Chain—1 in pitch, twin roller pattern.

Mudguards—Enameled to match frame.

Rear Guard—Laced, enamel to match frame.

Chain Guard—Heavy sheet steel, enameled to match frame.

Rims—No. 1047, one piece, enameled to match frame.

Handle Bars—No. 1101 Schmneer pattern, ladies' special.

Saddle—No. 201 ladies' HIBBARD suspension type.

Grips—No. 1408 leather

Pedals—No. 1502-5 Torrington Improved rubber, ladies special.

Stand—No. 1009, furnished HIBBARD, enameled in black.

Tires—No. T107 HIBBARD Sport, size 28×1¾.

Finish—High gloss black, with double gold stripe.

No. T720—20 in. frame, equipped complete with saddle, handle bars, pedals, No. T107 HIBBARD Sport Tires, brake, guards and stand ..... each **$60.50**

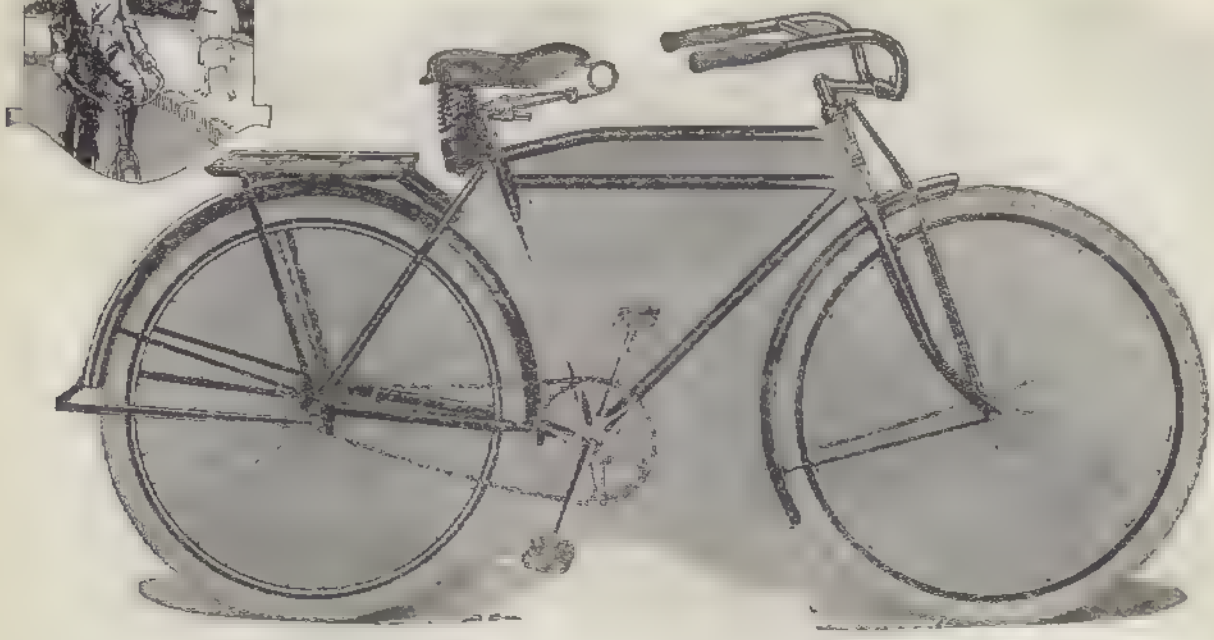
No. T750—20 in. frame, equipped with saddle, handle bars, pedals, No. 113 Il-a-noy single clincher tires, brake, guards and stand ..... each **$63.40**

Tool Bag or Tools not included with Above Models

Extra for tool bag and tools ..... each **$2.10**

Weight, packed for shipment, 50 lbs.

HIBBARD, SPENCER, BARTLETT & CO.
STATE STREET BRIDGE



REVONOC MOTO-LIKE BICYCLES

Frame—19 gauge 1 in. steel tubing, double bar moto-like pattern.

Fork—Oval Crown, moto-like truss pattern.

Hanger—One piece, drop forge Diamond pattern, 7 in. crank.

Sprocket—26 tooth, Star design, rear 9 tooth.

Front Hub—N. D. turned from solid bar of steel.

Chain—1 in. pitch, twin roller pattern.

Mudguards—Drop side motorcycle pattern, enameled to match frame.

Rims—No. 1042 one piece wood enameled to match frame.

Handle Bars—No. 1107 braced motorcycle bar.

Saddle—No. 203 Moto-bike, Spanish leather.

Grips—No. 1409 leather Bull Dog pattern.

Pedals—No. 1501-8 Torrington rubber, motorcycle pattern.

Stand—No. 1009 furnished, enameled in black.

Luggage Carrier—No. 1469 furnished, enameled in black.

Tires—No. T108 HIBBARD Service, size 28×1¼

Finish—Rich black, brown sun-burst head and seat post mast.

No. F200—20-22 frame, **stripped model,** with N. D. brake, stand, luggage carrier ..... each **$48.40**

No. T210—20-22 frame, equipped with saddle, handle bars, pedals, brake, guards, stand, luggage carrier, **without tires,** each **$57.70**

No. T220—22-22 frame, equipped complete with saddle, handle bars, pedals, No. T108 HIBBARD Service tires, brake, guards, stand and luggage carrier ..... each **$64.50**

No. T250—20-22 frame, equipped complete with saddle, handle bars, pedals, No. 113 Il-a noy single clincher tires, brake, guards, stand, luggage carrier ..... each **$66.50**

Tool Bag or Tools not Included with Above Models

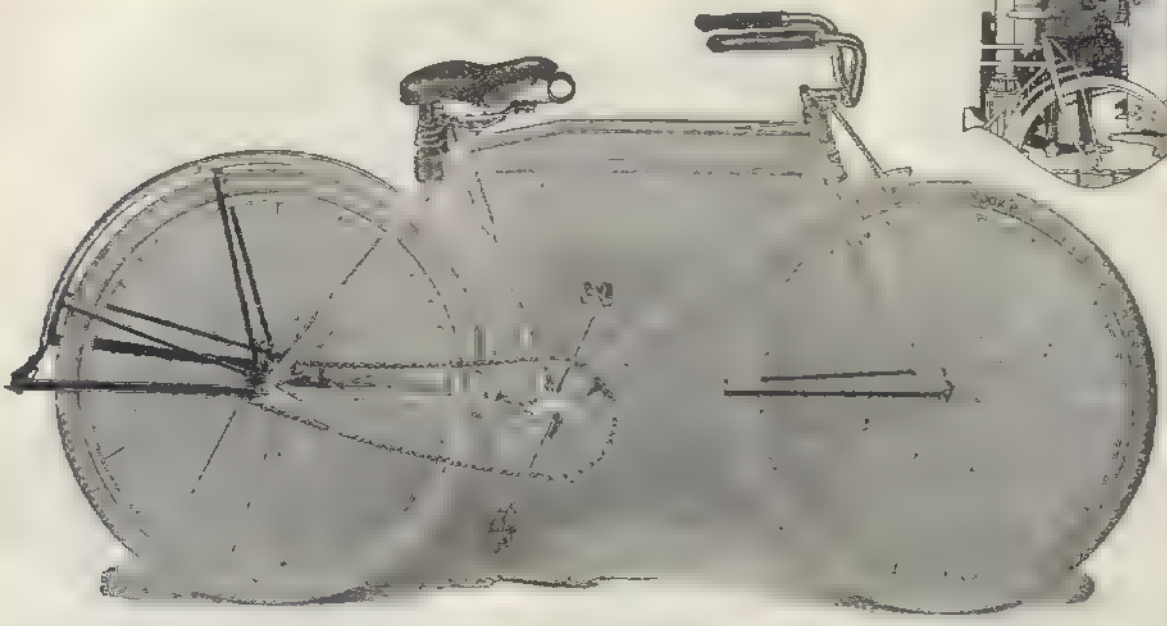
Extra for steel lined Clincher rims on models F200 and T210 ..... each **$0.80**

Extra for tool bag and tools ..... each **2.50**

Weight, packed for shipment, 70 lbs.

★ **Items Marked Thus ★ are Shipped from Factory Only.**

HIBBARD, SPENCER, BARTLETT & Co.
STATE STREET BRIDGE



REVONOC ROOKIE BICYCLES

Frame—19 gauge 1 in. steel tubing, double bar, re-inforced at all joints.
Fork—Oval Crown, moto-like truss pattern.
Hanger—One piece, drop forge Diamond pattern 7 in. crank.
Sprocket—26 tooth, Diamond design, rear 9 tooth.
Front Hub—New Departure, turned from solid bar of steel.
Chain—1 in. pitch, twin roller pattern.
Mudguards—Front and rear enameled to match frame.
Rims—No. 1043 one piece, Rock Elm, enameled to match frame.
Handle Bars—No. 1100.
Saddle—No. 200 HIBBARD top notch.
Grips—No. 1409 leather Bull Dog pattern.
Pedals—Torrington Improved rubber, No. 1501.
Stand—No. 1009 furnished, enameled in black.
Tires—No. T110 HIBBARD Rookie, size 28×1¾.
Finish—Carmine, Dark Blue, sun-burst head and seat post mast.

No. F300—20-22 in. frame **stripped model,** with N. D. brake, guards and stand★ .....each **$47.40**

No. T310—20-22 in. frame, equipped with saddle, handle bars, pedals, brake, guards and stand, **without tires,** each **$54.40**

No. T320—30-22 in. frame, equipped complete with saddle, handle bars, pedals, No. T100 HIBBARD Rookie Tires, brake, guard and stand .....each **$60.50**

No. T350—20-22 in. frame, equipped complete with saddle, handle bars, pedals, No. 113 Il-a-noy single clincher tires, brake, guards and stand .....each **$64.00**

Tool Bag or Tools not Included with Above Models

Extra for steel lined clincher rims on models No. F300 and No. T310 ..... each **$0.80**

Extra for tool bag and tools .....each **2.10**

Weight, packed for shipment, 65 lbs.

★ **Items Marked Thus ★ are Shipped from Factory Only.**

HIBBARD, SPENCER, BARTLETT & CO.
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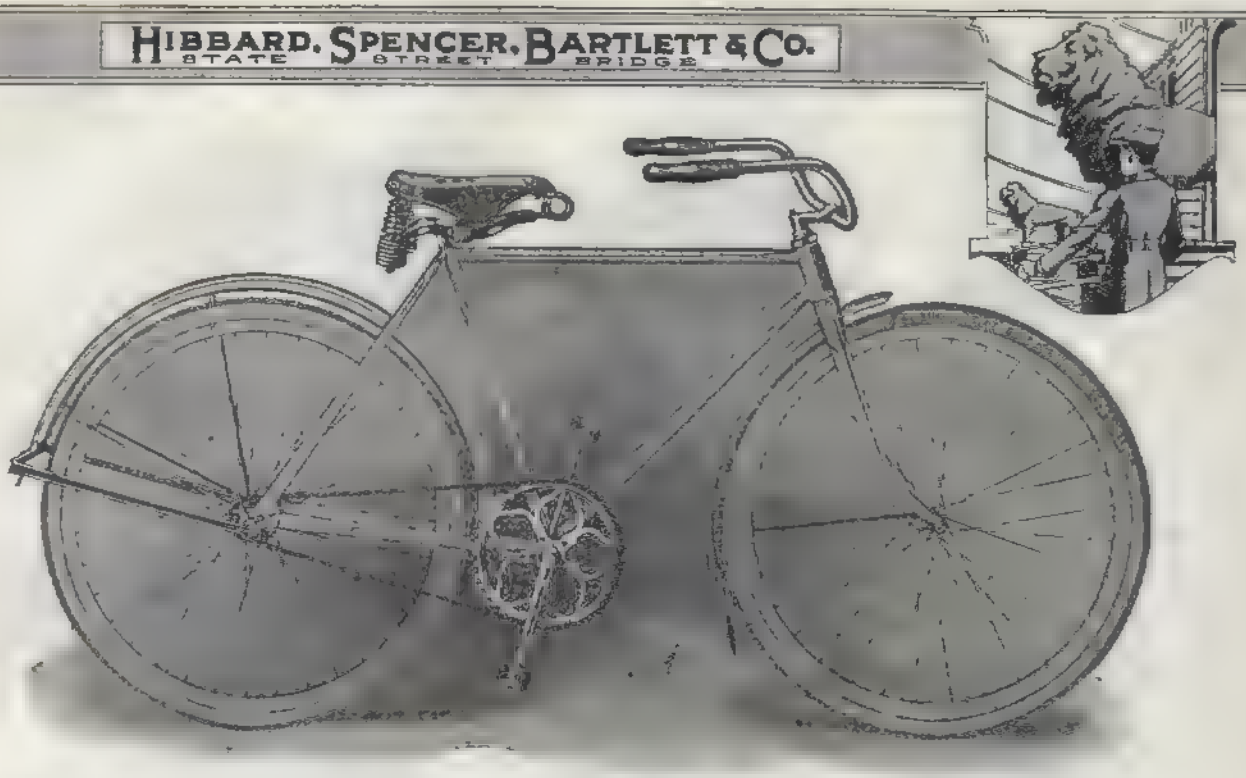


HIBBARD BICYCLES

Frame—19 gauge 1 in. steel tubing re-inforced at joints.
Fork—Diamond crown, nickel plated ribbed sides.
Hanger—One piece Diamond hanger, 7 in. crank.
Sprocket—Front 60 tooth, recessed, rear 20 tooth.
Front Hub—New Departure, turned from solid bar of steel.
Chain—½ in. pitch, ⅜ in wide, roller type.
Gear—84.
Mudguards—Enameled to match frame, splasher on front guard.
Rims—No. 1041 one piece wood, enameled to match frame.
Handle Bars—No. 1108 Scout pattern.
Saddle—No. 214 [illegible] Easy Special.
Grips—No. 1409 Leather, Bull Dog pattern.
Pedals—No. 1501-8 Torrington Improved rubber.
Stand—No. 1009 furnished enameled in black.
Tires—No. T105 [illegible] "Trusty Tread", size 28×1½ in.
Finish—Dark Royal blue, white sunburst head, single white stripe.

No. F100—20 in. frame, **stripped model,** with N. D. brake, guards and stand★ ..... each **$48.30**
No. T110—20 in. frame, equipped with saddle, handle bars, pedals, brake, guards and stand, **without tires,** each **56.60**
No. T120—20 in. frame, equipped complete with saddle, handle bars, pedals, No. T105 [illegible] tires, brake, guards and stand ..... each **$65.50**
No. T150—20 in. frame, equipped with saddle, handle bars, pedals, No. 113 Il-a-noy single clincher tire, brake, guards and stand ..... each **$66.50**
No. F102—22 in. frame, **stripped model,** with N. D. brake, guards and stand★ ..... each **$48.30**
No. T112—22 in. frame. equipped with saddle, handle bars, pedals, brake, guards and stand, **without tires,** each **56.60**
No. T122—22 in. frame, equipped complete with saddle, handle bars, pedals, No. T105 [illegible] tires, brake, guards and stand ..... each **$65.50**
No. T152—22 in. frame, equipped with saddle, handle bars, pedals, No. 113 Il-a-noy single clincher tires, brake, guards and stand ..... each **$66.50**

Tool Bag or Tools not Included with Above Models

Extra for steel lined clincher rims on models F100, T110, F102 and T112 ..... each **$0.80**

Extra for tool bag and tools ..... each **2.10**

Weight, packed for shipment about 60 lbs.

★ **Items Marked Thus ★ are Shipped from Factory Only.**

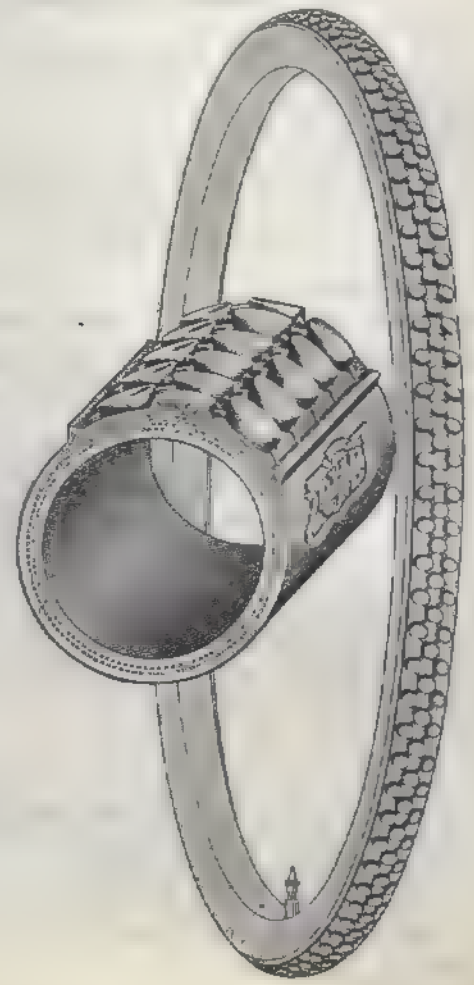
TRUSTY STUD TIRES

The finest bicycle tires we know how to build. Constructed from the best of materials under the latest and most modern ideas of manufacture, resulting in a tire suitable for the most exacting demands. For those to whom "[illegible]" appeals.

Tube—Extra Heavy and tough, uniform thickness, gray.
Fabric—Two plies of 18 oz. Motorcycle fabric.
Tread—Extremely heavy, large nonskid studs, tough & resiliant.
Color—White sides, Black Non Blooming tread, flannelette lined Rim base.
Guarantee—Fully guaranteed for one year.

No. T105—28×1½, w't per pair 7 lbs. .....per pair **$9.30**
No. T105—28×1⅝, w't per pair 7½ lbs. .....per pair **9.70**

WRAPPED ONE PAIR IN A PACKAGE



THORNPROOF CONSTRUCTION

An extra well made tire of bicycle fabric reinforced with extra plies of fabric and rubber, manufactured under the drum process eliminating the possibility of porousness.

First quality materials in hands of skilled workmen produces a tire with long life and wear resisting qualities. We recommend this tire for your trade.

Tube—Reinforced extra Heavy gray tube.

Fabric—Two plies of Bicycle fabric reinforced with two extra plies on tread, making a 4 ply tire.

Tread—Three Rows of tough, elastic studs of large diameter reinforced with extra strips of rubber giving an unusually thick tread.

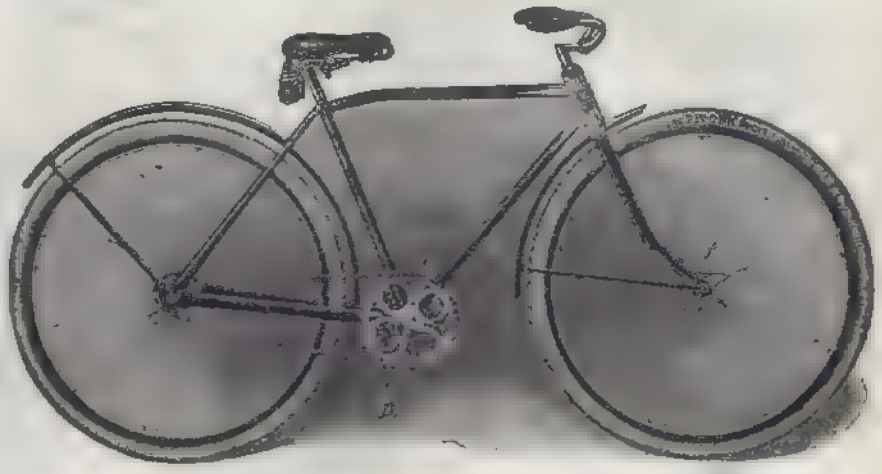
Color—White sides, red non-blooming tread flannelette strip.

Guarantee—Fully guaranteed for one year.

No. T106—28×1½, w't per pair 5¾ lbs. .....per pair **$8.40**
No. T106—28×1⅝, w't per pair 6 lbs. .....per pair **$8.80**

TWENTY-FIVE PAIR IN A CASE

BOYS' JUVENILE REVONOC BICYCLES



Due to the drop bar construction of this Juvenile model bicycle, which permits of wide adjustments, it is suitable for the younger generation from the time they are old enough to ride a bicycle until they have grown to young manhood and use the regular 20 in. men's size of frame.

This particular feature also eliminates the necessity of carrying several sizes of Juvenile bicycles in order to accommodate your trade.

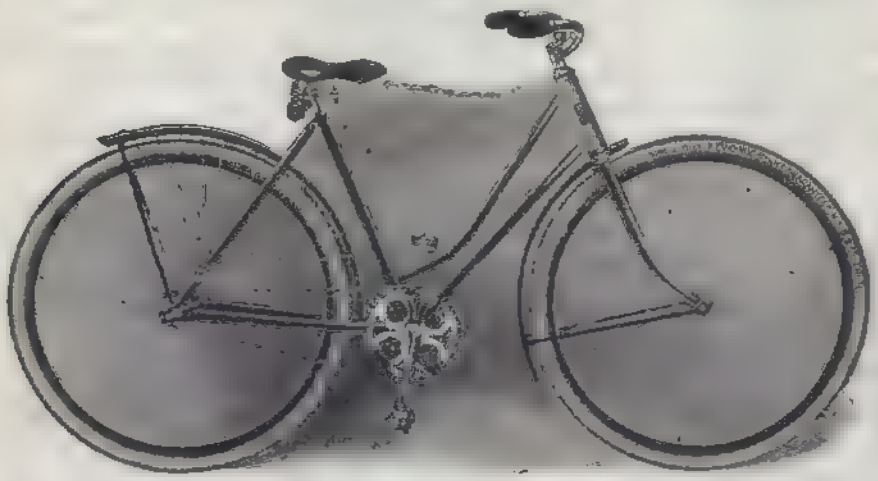
Frame—Juvenile Diamond frame with drop top bar.
Fork—Oval Crown, nickel plated.
Sprocket—Front 22 tooth, circular design, rear 9 tooth.
Front Hub—New Departure, turned from solid bar of steel.
Chain—1 in. pitch, twin roller type.
Mudguards—Enameled to match frame.
Rims—One piece, enameled to match frame.
Handle Bars—No. 1102 Boys Schinneer pattern.
Saddle—No. 202 HIBBARD Juvenile suspension type.
Grip—No. 1408 leather.
Pedals—No. 1498 Juvenile Rat Trap pattern.
Tires—No. T107 HIBBARD Sport white tire, size 26x1¾.
Finish—Black Hudson blue sun-burst head.

No. T928—16-18 in. frame, equipped complete with saddle, handle bars, pedals, No. T107 HIBBARD Sport tires, brake and guards ..... each $52 00

Tool Bag or Tools not Included with Above Models

Extra for tool bag and tools ..... each $2.10

Weight, packed for shipment, 45 lbs.



GIRLS' REVONOC BICYCLE

Due to the construction of this Juvenile model bicycle, which permits of wide adjustments, it is suitable for the younger generation from the time they are old enough to ride a bicycle until they have grown to young womannood and use the regular 20 in. size frame.

This particular feature also elminates the necessity of carrying several sizes of Juvenile bicycles in order to accommodate your trade.

Frame—Juvenile Girls model, regular.
Fork—Oval Crown, nickel plated.
Sprocket—Front 22 tooth, circular design rear 9 tooth.
Front Hub—New Departure, turned from solid bar of steel.
Chain—1 in. pitch, twin roller type.
Mudguards—Enameled to match frame.
Rims—One piece, enameled to match frame.
Handle Bars—No. 1102 Girls' Schinneer pattern.
Saddle—No. 202 HIBBARD Juvenile Suspension Type.
Grip—No. 1408 leather.
Pedals—No. 1499 Juvenile Rat Trap pattern with rubber inserts.
Tires—No. T107 HIBBARD Sport white tire, size 26x1¾.
Finish—Black Hudson blue sun-burst head.

No. T827—17 in. frame, equipped complete with saddle, handle bars, pedals, No. T107 HIBBARD Sport Tires, brake and guards ..... each $53.70

Tool Bag or Tools not Included with Above Models

Extra for tool bag and tools ..... each $2.10

Weight, packed for shipment, 45 lbs.

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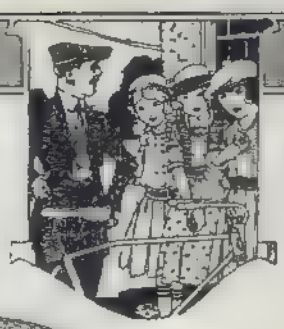
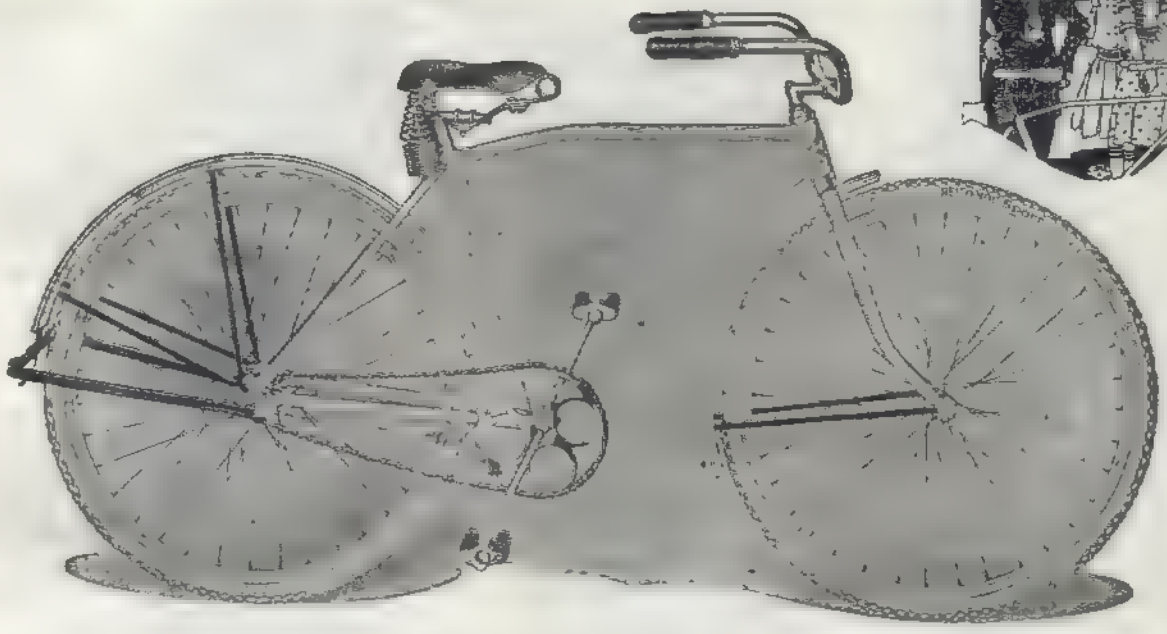




GLENWOOD BICYCLES

Frame—19 gauge 1 in. steel tubing, single arch camel-back bar model.

Fork—Oval Crown with New Departure.

Hanger—One piece, drop forge Diamond pattern 7 in. crank.

Sprocket—26 tooth, Star design, rear 9 tooth.

Front Hub—New Departure, turned from solid bar of steel.

Chain—1 in. pitch twin roller pattern.

Mudguards—Semi-drop side motorcycle pattern, enameled to match frame.

Rims—No. 1045 one piece, Rock Elm, enameled to match frame.

Handle Bars—Chicago No. 1108 Scout pattern.

Saddle—No. 204 HIBBARD Eagle Scout pattern.

Grips—No. 1409 leather Bull Dog pattern.

Pedals—No. 1501-S Torrington Improved rubber.

Stand—No. 1009 furnished, enameled in black.

Tires—No. T107 HIBBARD Sport, size 28x1¾.

Finish—Medium green, white sun-burst head and seat post mast.

No. F508—18-20 in. frame, **stripped model,** with New Departure brake, guards and stand★ .....each **$44.10**

No. T518—18-20 in. frame, equipped with saddle, handle bars, pedals, brake and stand, **without tires** ..each **$50.40**

No. T528—18-20 in. frame, equipped complete with saddle, handle bars, pedals, No. T107 HIBBARD Sport Tires, brake guards and stand .....each **$57.50**

No. T558—18-20 in. frame, equipped complete with saddle, handle bars, pedals, No. 113 Il-a-noy single clincher tires, brake, guards and stand .....each **$60.00**

Tool Bag or Tools not included with Above Models

Extra for steel lined clincher rims on models No. F508 and No. T518 .....each $0.80

Extra for tool bag and tools .....each 1.50

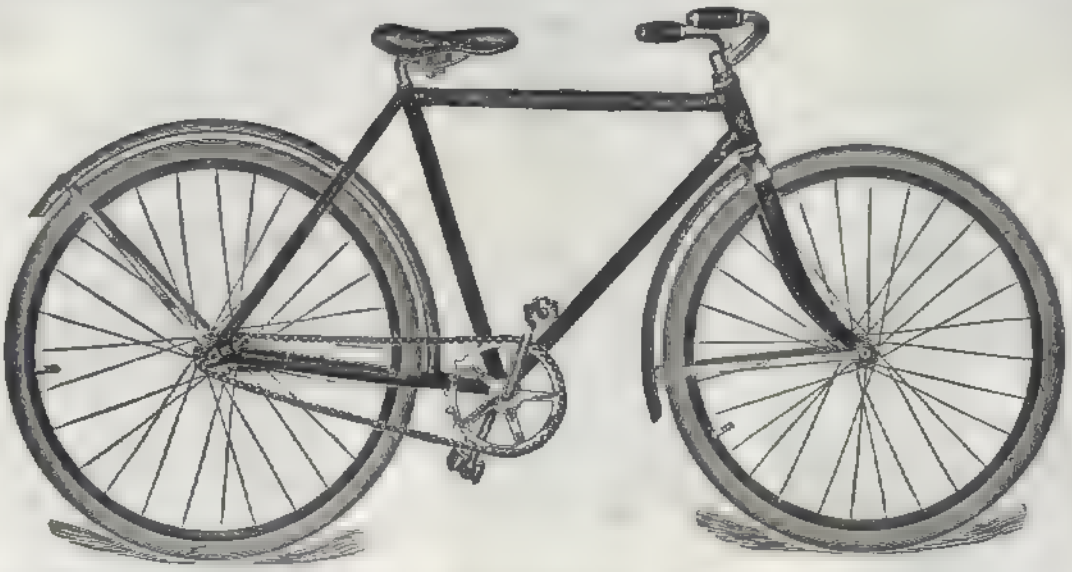
Weight, packed for shipment, 50 lbs.

★ **Items Marked Thus ★ are Shipped from Factory Only.**

CHICAGO JUVENILE BICYCLES

The great increase in the sale of bicycles has extended to the juvenile as well as to the adult models. Our line did not contain a low priced model, within the reach of all the younger generation who wished to ride.

To meet the increasing demands we have added our Chicago Juvenile Bicycle, which we believe will answer the requirements of the trade that demands this priced machine.



Frame—Option 18 in. or 19 in. **External joints. All parts of frame reinforced.**

Wheels—24 in. in 18 in. frame, and 26 in. in 19 in. frame.
Main Tubes—⅞ in.
Rear Fork—⅞ in., tapering to oval.
Upper Stays—⅞ in. oval.
Seat Post—Cluster fitted with binder bolt.
Fork—Oval pattern, arch crown nickel plated.
Rims—Steel.
Hubs—Turned from solid bar stock.
Crank Hanger—Drop forged, two piece.
Crank—Round, length 5½ in.
Sprocket—22 tooth, front 7 tooth, rear geared.
Pedals—Pirate rat trap.
Saddle—Padded wood base, with grain leather top.
Handle Bars—Adjustable, reversible.
Tires—Nonpareil, guaranteed. 18 in. frame, 24 in. tires 19 in. frame, 26 in. tires.
Finish—Red, with black line stripe. Rims to match.

No tool bag or tools furnished with this model except wrench, which fits all nuts. Coaster brakes furnished at a slight additional cost. See prices below.

No. T1028—18 in. frame, 24 in. wheels, equipped with handle bar, pedals, saddle, tires and mud guards, each $36.30
No. T1028B—18 in. frame, 24 in. wheels, equipped with handle bar, pedals, saddle, tires, coaster brake and mud guards, each ..... each $44.30
No. T1029—19 in. frame, 26 in. wheels, equipped with handle bar, pedals, saddle, tires and mud guards, each $37 60
No. T1029B—19 in. frame, 26 in. wheels, equipped with handle bar, pedals, saddle, tires, coaster brake and mud guards, each ..... each $43.60

We cannot deviate in any particular from the equipment on above bicycles.

WT, PACKED FOR SHIPMENT, WITHOUT COASTER BRAKE, 40 LBS., WITH COASTER BRAKE, 41 LBS.

BICYCLE GUARANTY

We agree with the purchaser of ANY OF OUR BICYCLES to make good by repair or replacement any defects in material or workmanship, provided the defective part is delivered to us, transportation charges prepaid.

This guaranty does not cover cost of repairing bicycles damaged by accident, misuse, or neglect, and expires 12 months after date the purchase is made.

In returning defective parts, do not fail to put your own name and address on the tag, and to write a letter giving full particulars. Failure to do this may be the cause of much unnecessary delay.

TIRE GUARANTY

We guarantee ANY OF OUR BRANDED TIRES to be perfect in workmanship and material, and if any defect should develop within the season on goods purchased from us, we will repair or replace without charge, provided they are returned to us charges prepaid.

Rim cut, punctured, or tires abused, misused or worn out in service will not be replaced.

This guaranty continues in effect 12 months following date of purchase.

See that every package sent has your full address—name, town, street No. or county and state—securely fastened to it.

BICYCLES AND BICYCLE SUNDRIES

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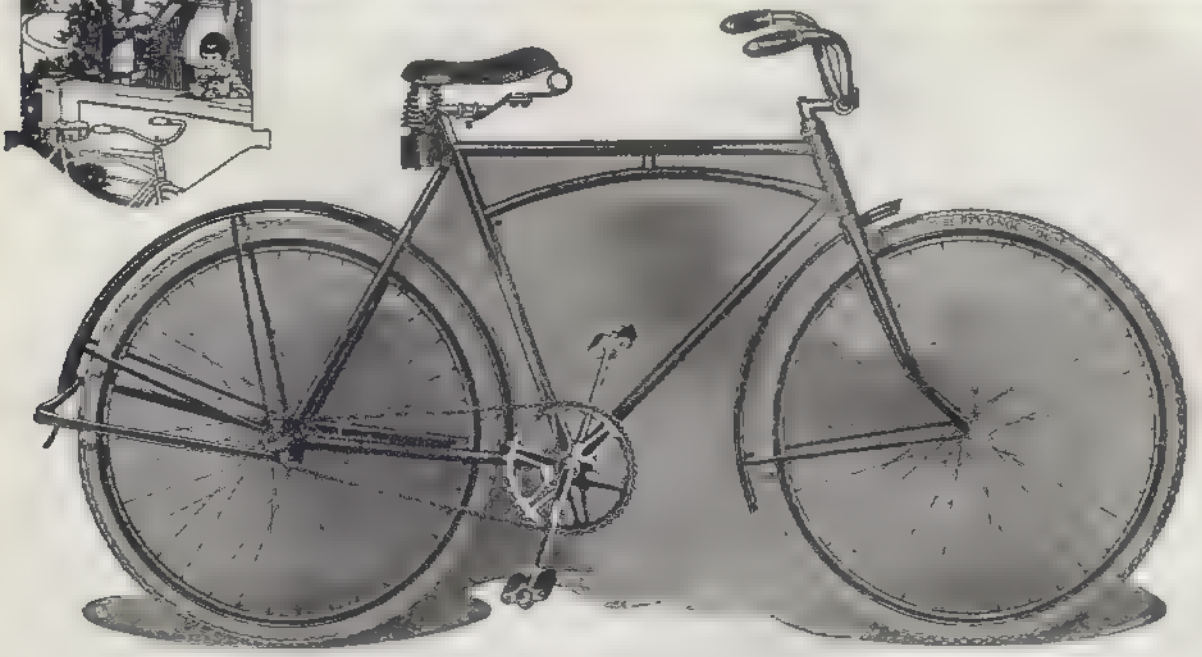


REVONOC RECRUIT BICYCLES

Frame—19 gauge 1 in steel tubing, braced curved truss bar.
Fork—Diamond darts, enameled to match frame.
Hanger—One piece, drop forge Diamond pattern 7 in. crank.
Sprocket—Front 26 tooth, rear 9 tooth.
Front Hub—New Departure, turned from solid bar of steel.
Chain—1 in. pitch, twin roller pattern.
Mudguards—Regular, enameled to match frame.
Rims—No. 1044 one piece, Rock Elm, enameled to match frame.
Handle Bars—No. 1103 CHICAGO Pattern.
Saddle—No. 200 HIBBARD top notch.
Grips—No. 1408, wound leather.
Pedals—No. 1501-S Torrington Improved rubber.
Stand—No. 1009 furnished, enameled in black.
Tires—No. T107 Hibbard Sport, size 28×1¾.
Finish—Black, dark grey sun-burst head and seat post mast.

No. F402—22 in. frame, **stripped model,** with New Departure brake, guards and stand★ .....each **$45.40**

No T412—22 in. frame, equipped with saddle, handle bars, pedals, brake, guards and stand, **without tires,** eahc **$52.20**

No. T422—22 in. frame, equipped complete with saddle, handle bars, pedals, No. T107 HIBBARD Sport Tires, brake, guards and stand .....each **$59.00**

No. T452 22 in. frame, equipped with saddle, handle bars, pedals, No. 113 Il-a-noy single clincher tires, brake, guards and stand .....each **$61.90**

Tool Bag or Tools not Included with Above Models

Extra for steel lined clincher rims on models No F402 and No. T412 .....each **$0.80**

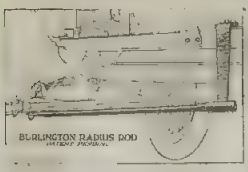
Extra for tool bag and tools .....each **2.10**

Weight, packed for shipment, about 60 lbs.

☆ **Items Marked Thus ★ are Shipped from Factory Only.**

FRONT RADIUS RODS

BURLINGTON, FOR FORD CARS



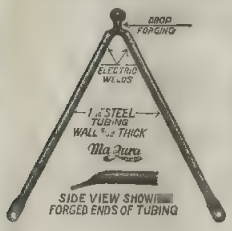
Made of steel, black japanned. Can easily be installed on any Ford Car or truck. Requires only three bolts on a side. No holes to drill. All parts interchangeable, no rights or lefts. Improves steering, insures safe and smoother driving over rough roads. The normal road shocks are cushioned through a spring.

Per Set

No. A-61BRR—Complete with all necessary bolts ready to install $10 50

Packed loose; weight per set 15 lbs.

MAZURA
FOR 1920 AND 21 MODEL FORD CARS



New Type, Attaches beneath the Axle.

An extra strong rod made of heavy Bessemer butt-welded straight steel tubing. The "Y" drop-forging is of unusual strength, and open ends of tubing are forged into shape to secure an extra strong construction at these points.

No. **A-27338**
Less than 25, Each $3 60
Lots of 25 or more, Each 3 30

Six in a bundle; weight each 6¼ lbs.

FRONT RADIUS ROD SUPPORTS

AUXILIARY, FOR FORD CARS

These rods are for reinforcing the regular Ford radius rod. They assist to brace the front axle, keep it straight, prevent bending or breakage of regular rod. No vibration; makes steering easier on rough roads; easily and quickly attached.

FOR FORD CARS, All Models Previous to 1920.

Each

No. A-701 ¾ inch solid steel rods, malleable iron clamp; black japanned finish $8 70

Packed loose, wrapped; weight per dozen 145 lbs.

FOR FORD CARS, All Models Previous to 1920.

Each

No. A-704—½ inch steel tubing; malleable iron threaded clamp; black japanned finish $3 75

Packed loose, wrapped; weight each 5 lbs.

FRONT RADIUS ROD SUPPORTS

MAZURA, FOR 1920 and 21 MODEL FORD CARS

Tubular steel rod, 1 inch in diameter; black japanned finish. An adequate brace for front axle. Holds axle in line, making steering easier. Will fit all cars having the radius rod attached to bottom of axle.

No. **A-420**
Lots of 1 to 25, Each $2 76
Lots of 25 or more, Each 2 61

One in a carton; weight each 5 lbs.

PERFECTION FOR FORD CARS
Fits all Model Ford Cars.

In attaching to 1920 and 1921 models it necessitates bending of bar about 1/16 of an inch.

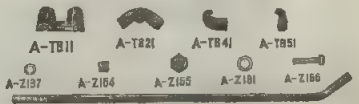
Made of steel angle 1x1x⅛ inches. For reinforcing the radius rod and to brace the front axle, preventing it from bending. Will not rattle nor become loose; easily and quickly attached.

Each

No. A-1P—Weight each 7 lbs $1 95

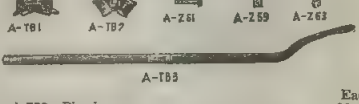
Packed loose; wrapped.

RADIUS ROD REPAIR PARTS
FOR No. A-701 RADIUS ROD



	Each
No. A-TB41—Axle clamp front	$0 78
No. A-TB51—Axle clamp rear	78
No. A-TB11—Bottom clamp	1 65
No. A-TB21—Top clamp	96
No. A-TB31—Rod	✚ 2 40
No. A-Z137—Lock washer	27
No. A-Z164-Z166 Consists of one No. A-Z164 nut and No. A-Z166 machine bolt	27
No. A-Z181—Lock washer	✚ 27
No. A-AP76 Clamp assembly consisting one each of the following: Nos. A-TB11, A-TB21, A-Z137, and A-Z164-Z166	4 50

FOR No. A-704 RADIUS ROD



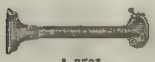
	Each
No. A-TB3—Pipe brace	✚ $0 96
No. A-TB1—Bottom clamp	90
No. A-TB2—Top clamp	57
No. A-Z61-Z59 Consists of one No. A-Z61 machine bolt and No. A-Z59 nut	27
No. A-Z63—Lock washer	27
No. A-AP75—Clamp assembly consists one each of the following: No. A-TB1, A-TB2, A-Z61-Z59 and A-Z63	3 60

Above radius repair parts packed loose.

✚F. O. B. Wisconsin Factory Only.

PARTS FOR FORD CARS

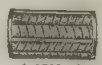
All parts illustrated correspond with the standard Ford repair parts of corresponding numbers. The letter "A" prefixed to numbers is merely to designate Automobile Department.


A-2501
A-2502

A-2503B
A-2503C

A-2504

A-2506


A-2508-09
A-2508-09B

A-2509
A-2509B

A-2510

A-2510A

A-2510B

A-2512C

A-2513C

A-2514B

A-2518

A-2519

A-2519A

A-2520B

A-2521B

A-2522B

A-2523

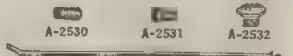
A-2524C

A-2525B

A-2526-B

A-2528
A-2528A

A-2529

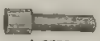

A-2530
A-2531
A-2532
A-2547

A-2548

A-2549

A-2550

A-2551


A-2557
A-2558

A-2559

A-2562

A-2563

A-2564

REAR AXLE

Nos.			Per 100
A-2501	Axle housing (right) 1915-21	$900 00	1800 00
A-2502	Axle housing (left) 1915-2	900 00	1800 00
A-2503B	Axle housing bolt and nut 5/16	5 00	9 99
A-2503-C	Rear axle housing bolt and nut, 1x5/16	5 00	9 99
A-2503D	Axle housing bolt and nut 1/2	5 00	9 99
A-2503E	Axle housing bolt and nut 7/16x1 1/16	5 00	9 99
A-2504	Rear axle case gasket	3 00	6 00
A-2505	Rear axle shaft fits 56 inch standard tread 1912-21	(See page 2509 for price.)	
A-2506	Axle shaft washer 1909-21	3 00	6 00
A-2508	Rear axle shaft roller bearings 2 3/4x4 1909-26	125 00	249 99
A-2508-09	Axle shaft roller bearing complete with right sleeve 1909-21	155 00	309 99
A-2508-09B	Axle shaft roller bearing complete with left sleeve 1909-21	155 00	300 00
A-2509	Axle shaft roller bearing sleeve, Right, 1909 21	25 00	50 01
A-2509B	Axle shaft roller bearing sleeve, Left, 1909-21	25 00	50 01
A-2510	Axle housing cap 1909-21	5 00	9 99
A-2510A	Axle roller bearing steel washer 1909-21	3 00	6 00
A-2510B	Axle outer roller bearing felt washer 1909-21	5 00	9 99
A-2512C	Diff. case, left (no bushing used) 1914-21	160 00	320 01
A-2513C	Diff. case, right (no bushing used) 1914-21	100 00	200 01
A-2512-13C	Diff case, right and left (no bushings used) completely assembled with studs and nuts 1914-21	320 00	639 99
A-2514B	Diff case, stud and nut 1915-21	3 00	15 99
A-2518	Drive gear 1909-21	300 00	600 00

REAR AXLE

Nos.			Per 100
A-2519	Diff. drive gear screw 1909-21 (two pieces,	$ 5 00	$9 99
A-2519A	Diff gear lock ring 1909-21	3 00	6 00
A-2520B	Diff. gear 1909-21	125 00	249 99
A-2521B	Diff. gear key 1911-21	5 00	9 99
A-2522B	Diff. gear pin	3 00	6 00
A-2523	Diff. gear thrust washer, fibre	10 00	20 01
A-2524C	Diff. pinion 1915-21	40 00	80 01
A-2525B	Diff. pinion bushing (1911-16)	10 00	20 01
A-2526B	Diff. spider 1909-21	80 00	159 99
A-2528	Diff thrust plate, white metal 1909-21	20 00	39 99
A-2528A	Diff. thrust plate, bronze	50 00	99 99
A-2529	Diff. thrust plate, steel 1909-21	15 00	30 00
A-2530	Diff. thrust plate pin 11/32 Long 1909-16	3 00	6 00
A-2531	Diff. thrust plate pin 1/4 Long 1909-16	3 00	6 00
A-2532	Diff. housing oil plug 1909-21	5 00	10 02
A-2540	D. S. housing front bushing (babbitt) (Order No. 2581)		
A-2545	Rear axle grease cup. (Order No. A-8GC) page 2543		
A-2547	Rear radius rod 1909-21	250 00	500 01
A-2548	Radius rod nut 1909-21	5 00	9 99
A-2549	Radius rod lock nut 1909-21	5 00	9 99
A-2550	Radius rod lock washer 1909-21	2 00	3 99
A-2551	Radius rod bolt and nut 1909-21	10 00	20 01
A-2557	Hub cam shaft, right 1909-21	20 00	39 99
A-2558	Hub cam shaft, left 1909-21	20 00	39 99
A-2559	Hub cam shaft bushing 1909-21	10 00	20 01
A-2562	Cam shaft lever 1909-21	15 00	300 00
A-2563	Cam shaft lever pin 1909-21	3 00	6 00
A-2564	Lever clevis pin 1909-21	5 00	9 99

PARTS FOR FORD CARS

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REAR AXLE

Nos.			Per 100
A-2566	Hub brake shoe 1909-21	$ 40 00	80 01
A-2567	Brake shoe support bolt and nut 1909-21	10 00	20 01
A-2568	Brake shoe support nut 1909-21	5 00	9 99
A-2570B	Brake shoe coil spring 1913-21	3 00	6 00
A-2571	Universal joint assembly 1909-21	200 00	400 02
A-2572	Joint knuckle (male) 1909-21	60 00	120 00
A-2573	Joint knuckle (female) 1909-21	75 00	150 00
A-2574	Joint knuckle pin 1909-21	2 00	4 02
A-2575	Joint ring complete 1909-21	60 00	120 00
A-2576	Joint ring rivets (set of 4) 1909-21	5 00	9 99
A-2578	Joint housing plug 1909-21	5 00	9 99
A-2579	Ball joint grease cup 1909-21	15 00	30 00
A-2580	Ball cap gasket 1909-21	5 00	9 99
A-2581	Drive shaft housing front bushing 1909-21	30 00	60 00
A-2582	Rear axle D. S. tubing 1911-21	800 00	1599 99
A-2583	D. S. roller bearing housing 1911-21	200 00	399 99
A-2584B	D. S. roller bearing stud and nut 1912-21	10 00	20 01
A-2586	D. S. roller bearing housing set screw 1911-21	5 00	9 99
A-2587	D. S. roller bearing 2 5/8 in. long 1911-21	150 00	300 00
A-2588	D.S. roller bearing distance plate 1911-21	5 00	9 99
A-2589	D. S. ball race 1911-21	35 00	69 99
A-2589B	D. S. ball-bearing assembly 191121	100 00	200 01
A-2590	D. S. ball retainer 1911-21	3 00	6 00
A-2591	D. S. ball thrust collar 1911-21	$ 30 00	60 00
A-2592	D. S. ball-bearings, 1911-21 (Order No. A-AA2-3/8, page 2595)		
A-2593	D. S. roller bearing sleeve 2 3/8 in. dia., 2 1/8 in. long 1911-21	190 00	380 01
A-2595B	D. S. only (tapered) 1911-21	400 00	800 01
A-2596	D. S. 1" bore 3 7/16 in. long sleeve 1911-21	120 00	240 00
A-2597B	D. S. pinion 1911-21	125 00	249 99
A-2598	D. S. castle nut 1911-21	5 00	10 02
A-2598B	D. S. pinion key 1911-21	5 00	9 99
A-2602B	Rear axle shaft 60 inch tapered tread 1911-16		(See page 2609 for price.)

FRONT AXLE

Nos.			Per 100
A-2691	Front axle only 1909-21	1000 00	2000 01
A-2694	Spindle body (right) 1911-21	200 00	400 02
A-2694A	Spindle body (right), less cones 1911-21	150 00	300 00
A-2695	Spindle body (left) 1911-21	200 00	400 02
A-2695A	Spindle body (left), less cones 1911-21	150 00	300 00
A-2696	Spindle arms (right or left) 1911-21	60 00	120 00
A-2696B	Spindle arms (right) 1911-15	75 00	150 00
A-2697	Spindle arm nut 1911-21 (Order No. A-2548		
A-2704	Stationary cone 1909-21	20 00	39 99
A-2705	Adj. cone, right thread 1909-21	20 00	40 02
A-2706	Adj. cone, left thread 1909-21	20 00	40 02
A-2707	Spindle nut, right thread 1909-21	10 00	20 01

PARTS FOR FORD CARS

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FRONT AXLE

Nos.			Per 100
A-2708	Spindle nut, left 1909-21	$10 00	20 01
A-2709	Spindle nut washer, right 1909-21	2 00	3 99
A-2710	Spindle bolt with oiler 1910-21	25 00	50 01
A-2711	Spindle bolt nut 1909-21 (Order No. A-2568)		Per 100 Pairs
A-2713	Spindle body bushing 1909-21	20 00	39 99
			Per 100
A-2714	Spindle arm bushing 1909-21	5 00	9 99
A-2715C	Spindle oiler 1917-21	5 00	9 99
A-2717	Spindle conn. rod 1909-21	250 00	530 01
A-2718	Spindle conn. rod bolt with oiler 1909-21	15 00	30 00
A-2718A	Spindle conn. rod bolt without oiler 1909-21	15 00	30 00
A-2719	Spindle connecting rod bolt nut 1909-21	3 00	6 00
A-2721	Spindle conn. rode yoke 1909-18	40 00	80 01
A-2721B	Spindle conn. rod yoke ball 1919-21	25 00	50 01
A-2721C	Spindle conn. rod yoke 1919-21	50 00	99 99
A-2722	Steering yoke clamp bolt and nut 1909-21	8 00	16 02
A-2725B	Steering gear, conn. rod 1909-21	100 00	200 01
A-2728	Ball socket cap 1909-21	15 00	30 00
A-2729B	Ball socket bolt and nut 1909-21 (Order No. A-2722)		
A-2733	Front radius rod 1909-19	(For prices see page 2610.)	
A-2733B	Front radius rod 1919-21	(For price see page 2511.)	
A-2734	Front radius rod nut 1909-21 (Order No. A-2548)		
A-2736	Front radius rod ball cap 1909-21	15 00	30 00
A-2737	Front radius rod ball socket 1911-21	25 00	50 01
A-2741	Radius rod ball cap stud 1911-21	6 00	12 00
A-2742	Radius rod ball cap spring 1911-21	3 00	6 00

WHEELS

Nos.			Per 100
A-2800	Front wheel (Order No. A-1808) 1909-21	(Shown on page 2350	
A-2803	Front hub assembly 1909-21	$225 00	450 00
A-2804	Outer race 1909-21	15 00	30 00
A-2805	Inner race 1909-21	20 00	40 02
A-2806	Outer ball retainer 1909-21	2 00	3 99
A-2807	Inner ball retainer 1909-21	3 00	6 00
A-2808	Dust ring 1909-21	10 00	20 01
A-2809	Felt washer front and rear hub 1909-21	5 00	9 99
A-2810	Large balls, 12 only required for inside of Ford front hub 1909-21 (Order No. A-AA-2½, page 2532)		
A-2811	Small balls, 11 only required for outside of Ford front hub 1909-19 (Order No. A-AA2-⅝, page 2532		
A-2814C	1912-19 (Order No. A-1803½)	(Shown on page 2350.)	
A-2815C	Rear hub assembly 1912-21	150 00	300 00
A-2816B	Rear hub key 1912-21	5 00	9 99
A-2818	Rear hub brake drum, 8 inch hole, 8 inch in diameter 1819-21	50 00	99 99
A-2819	Hub cap 1909-21 (Order No. A-3HC)	(Shown on page 2352.)	
A-2825	Hub bolt and nut complete, 1911-21. Same as Ford No. 2825 and 2825B combined	6 00	12 00
A-2828	Rear hub lock nut Size 2⅛x⅜ inches, 1912-21	6 00	12 00
A-2829	Axle inside roller bearing felt washer	5 00	9 99
A-2846	Demountable rim clamp 1919-21 (Order No. A-71C)	(Shown on page 2353.)	
A-2847	Demountable rim bolt 1919-21 (Order No. A-5A)	(Shown on page 2353.)	
A-2853	Front cross member, 22¾ ins.; long 1909-21	100 00	200 01
A-2856	Front corner bracket (left) 1909-21	15 00	30 00

PARTS FOR FORD CARS

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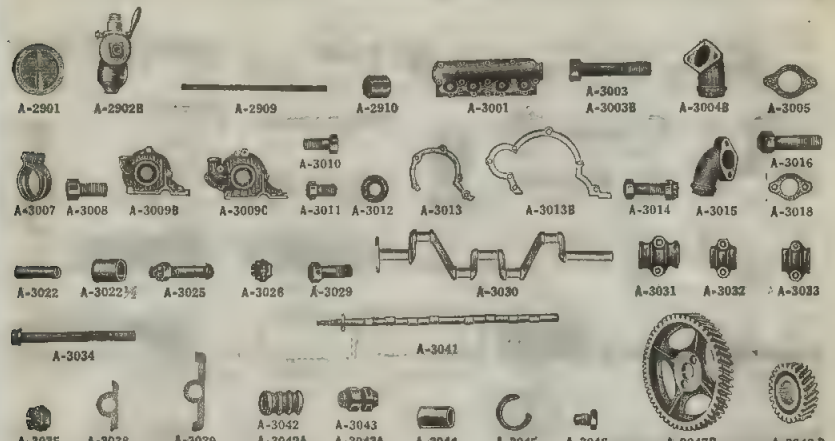

GASOLINE TANK—TOURING CAR

Nos.		Per 100
A-2901	Filling Plug 1909-21	*$10 00* 20 01
A-2903	Tank bolt and nut 1909-21 (Order No. A-3074)	---- ----
A-2908	Pet cock 1909-21 (Order No A-3079)	
A-2909	Feed pipe 1909-21	*35 00* 69 99
A-2910	Feed pipe pack nut 1909-21	*5 00* 9 99

MOTOR

Nos.		Per 100
A-3001	Cylinder head 1909-21	*$600 00* 1200 00
A-3002	Cylinder head gaskets 1909-21 (See page 2492 for price.)	
A-3003	Cylinder head cap screw, 7/16x2¾ ins., 1909-21	*5 00* 9 99
A-3003B	Cylinder head cap screw, 7/16x3¼ ins; 1918-21	*5 00* 9 99
A-3004B	Cyl. head outlet conn. 1917-21	*35 00* 69 99
A-3005	Cyl head outlet conn gasket 1909-21	*5 00* 9 99
A-3006	Cyl. head outlet hose 1909-21 (Order No A-3RH-2	(Shown on page 2447
A-3007	Cyl. head outlet hose clip, 2⅜ inch diameter 1909-21	*5 00* 9 99
A-3008	Cyl. head outlet conn. screw 1909-21	*5 00* 9 99
A-3009B	Cyl. front cover 1919-1920	*100 00* 200 01
A-3009C	Cylinder front cover 1919-21	*100 00* 200 01
A-3010	Cyl. cover bolt and nut 1909-21 (Order No. A-4808)	*6 00* 12 00
A-3011	Cyl. cover cap screw 1909-21 7/16x3 1/16	*3 00* 6 00
A-3012	Cylinder cover felt 1909-21	*5 00* 9 99
A-3013	Cylinder cover liner 1909-19	*2 00* 3 99
A-3013B	Cylinder cover liner 1919-21	*3 00* 6 00
A-3014	Cylinder cover and crank case bolt and nut 1909-21 (Order No. A-2722)	---- ----
A-3015	Cylinder water inlet conn. 1909-21	*30 00* 60 00
A-3016	Cylinder inlet conn screw 1909-21	*5 00* 10 02
A-3018	Cyl water inlet gasket 1909 21	*5 00* 10 02
A-3020	Piston complete 1909-20 (Order No. A-3LW)	(Shown on page 2494.)

MOTOR

Nos.		Per 100
A-3020C	Piston complete 1909-21 (Order No. A-3LW-0025)	(Shown on page 2494.)
A-3020D	Piston complete 1909-21 (Order No. A-3LW-03125)	(Shown on page 2494.)
A-3022	Piston pin 1909-21	*$25 00* 50 01
A-3022½	Piston pin bushing 1909-21	Per 100 Pairs *30 00* 60 00
A-3023	Piston ring 1909-21 (Order No. A-1LJ)	Per 100 (Shown on page 2497)
A-3023B	Piston ring 1909-21 (Order No. A-1LJ-31)	(Shown on page 2497.)
A-3024	Conn. rod 1909-21	(See page 2516 for price.)
A-3025	Conn. rod cap bolt and nut 1909-21	*10 00* 20 01
A-3026	Conn. rod cap bolt nut 1909-21	*5 00* 9 99
A-3029	Conn rod clamp screw 1909-21	*5 00* 10 02
A-3030	Crank shaft 1909-20	*1000 00* 2000 01
A-3031	C. S rear bearing cap 1909-21	*60 00* 120 00
A-3032	C S front bearing cap 1909 21	*30 00* 60 00
A-3033	C. S center bearing cap 1909-21	*40 00* 79 98
A-3034	C S. bearing bolt, center and front 1909-21	*10 00* 20 01
A-3035	Crank shaft bearing bolt nut 1909-21	*5 00* 9 99
A-3038	C. S. bearing liner center and front 1909-21	*1 00* 2 01
A-3039	C S. rear bearing liner 1909-21	*1 00* 2 01
A-3041	Cam shaft 1909-20	*350 00* 700 02
A-3042	Cam shaft front bearing 1909-21	*35 00* 70 02
A-3042A	Cam shaft front bearing (new style) 1909-21	*35 00* 70 02
A-3043	Cam shaft center bearing 1909-21	*30 00* 60 00
A-3043A	Cam shaft center bearing (new style babbit lined)	*30 00* 60 00
A-3044	Cam shaft rear bearings 1909-21	*15 00* 30 00
A-3045	Cam shaft bearing ring 1909-21	*5 00* 9 99
A-3046	Cam shaft bearing set screw 1909-21	*5 00* 9 99
A-3047B	Large time gear, on cam shaft 1919-21	*100 00* 200 01
A-3048B	Small time gear, on crank shaft 1919-21	*75 00* 50 00

PARTS FOR FORD CARS

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Nos.	MOTOR	Per 100
A-3049	Cam shaft gear dowel pin 1909-21	$5 00 $ 9 99
A-3050B	Cam shaft gear lock nut 1909-21	15 00 30 00
A-3051	Small time gear key 1909-21	5 00 9 99
A-3052	Valve 1909-21	15 00 30 00
A-3052B	Valve (5/16 over size stem) 1909-20	15 00 30 00
A-3054	Valve spring 1909-21	5 00 9 99
		Per 100 Sets
A-3056	Valve spring seat 1909-21 (8 to a set)	5 00 9 99
A-3057	Valve spring seat pin 1909-21 (8 to a set)	5 00 9 99
		Per 100
A-3058	Push rod 1909-21	15 00 30 00
A-3058B	Push rod 1909-21 (1/64 oversize stem)	15 00 30 00
A-3059½	Push rod bushing 1909-21	25 00 50 01
A-3060B	Exhaust manifold 1913-21	150 00 300 00
A-3061	Exhaust pipe pack nut	20 00 40 02
A-3062	Inlet pipe 1909-21	130 00 260 01
A-3063	Inlet and exhaust pipe gasket 1909-21	3 00 6 00
A-3064	Inlet and exhaust pipe gland 1909-21	2 00 4 02
A-3064A	Combination gasket (Nos. A3063 and A3064) 1909-21. (For prices see No. A 2 in 1, page 2492.)	
A-3065	Inlet and exhaust pipe clamp 1909-21	15 00 30 00
A-3068	Inlet and exhaust clamp stud 1909-21	8 00 15 99
A-3068	Breather pipe 1909-21	10 00 20 01
A-3069C	Crank case front end sup. 1917-21	75 00 150 00
A-3070	Crank case and cyl. gasket, Left 1909-21 (FELT)	5 00 10 02
A-3071	Crank case and cyl. g'sk't, Right 1909-21 (FELT)	5 00 10 02
A-3072	Crank case and cyl. cover cap screw ¾x1 in., 1909-21 (Order No. A-3ACS-1)	(See page 2523)
A-3073	Crank case arm bolt and nut (side) 1909-21	8 00 15 99
A-3074	Crank case arm bolt and nut (top) 1909-21	8 00 15 99
		Per 100
A-3076	Crank case front frame bearing 1909-21	60 00 120 00
A-3077	Crank case front bearing cap 1909-21	20 00 40 02
A-3078	Crank case front bearing screw 1909-21	5 00 9 99
A-3079	Crank case oil cock 1909-21	20 00 40 02

Nos.	MOTOR	Per 100
A-3080	Crank case drain cup plug 1909-21 (Order No. A-2532)	
A-3081	Crank case oil tube 1909-21	$25 00 50 01
A-3084	Engine pan (right) 1909-21	35 00 70 02
A-3085	Engine pan (left) 1909-21	35 00 70 02
A-3088	Eng. pan and hood board bolt and nut, ¼x¾	5 00 9 99
A-3088B	Eng. pan and hood board bolt and nut, ¼x3⅛ 1909-21	5 00 9 99
A-3088C	Eng. pan and hood board bolt and nut ¼x3⅛ 1909-21	5 00 9 99
A-3101	Crank case lower cover 1912-20, 6½x15½	40 00 80 01
A-3101B	Crank case lower cover reinforcement 1912-21	30 00 60 00
A-3102	Crank case lower cover gasket 1912-21 (FELT)	10 00 18 00
A-3103	Crank case lower cover screw 1912-21	3 00 8 01
A-3110	Cylinder valve cover 1912-20, 3¾x8 in.	15 00 30 00
A-3111B	Cylinder valve cover gasket 1912-21	5 00 9 99
A-3112	Cylinder valve cover screw 1912-21	10 00 20 01
A-3115	Set of Motor felt gaskets 1912-21 (includes 2580, 3070, 3071, 3102, 3111, 3363 and 3377)	
	COMMUTATOR	
A-3162	Commutator case sup. bolt 1912-19	5 00 9 99
A-3165	Commutator brush only 1912-21	35 00 70 02
A-3207	Commutator brush cap pin 1909-21	1 00 2 01
A-3210	Commutator contact point nut 1910-21	2 00 3 99
A-3212	Commutator thumb nut 1909-21	5 00 9 99
A-3220	Commutator lock nut 1909-21	5 00 9 99
	MAGNETO	
A-3252	Magneto spool sup. screw 1909-21 (Order No. A-3371)	
A-3254	Magnet bolt 1909-21	3 00 6 00
A-3255B	Magnet bolt washer 1911-21	1 00 2 01
A-3257	Magnet brass sup. 1909-21	5 00 9 99

PARTS FOR FORD CARS

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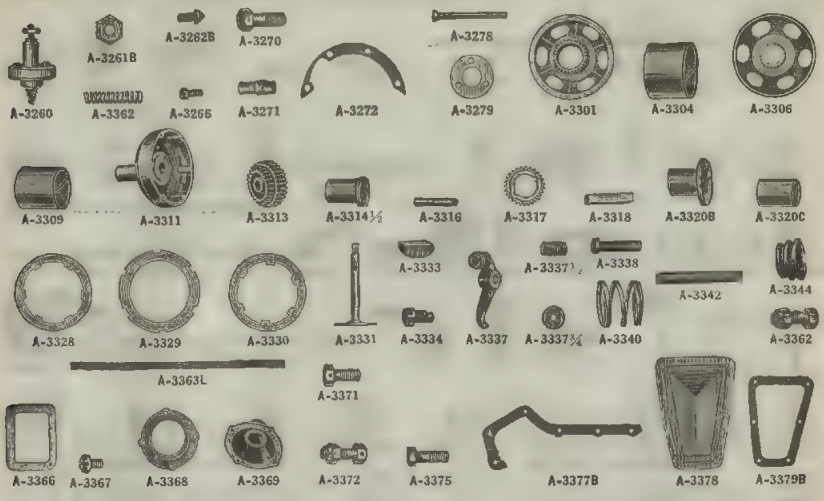

MAGNETO

Nos.			Per 100
A-3260	Magneto contact assembly 1909-21	$25 00	50 01
A-3261B	Magneto contact nut 1909-21	1 00	2 01
A-3262	Magneto contact spring 1909-21	5 00	9 99
A-3262B	Magneto contact screw and spring assembly 1919-21	10 00	20 01
A-3266	Magneto contact fibre screw 1909-21	1 50	2 01
A-3270	Fly wheel cap screw 1909-21	15 00	30 00
A-3271	Fly wheel dowel pin 1909-21	5 50	9 99
A-3272	Magneto coil support shim 1909-21	5 00	9 99
A-3278	Magneto clamp screw 1911-21	3 00	6 00
A-3279	Magneto contact washer 1909-21	3 00	6 00

TRANSMISSION

			Per 100
A-3301	Trans. reverse plate assb. 1909-21	275 00	549 99
A-3304	Trans reverse gear bushing 1909-21	70 00	140 01
A-3306	Trans. slow speed plate assb. 1909-21	250 00	500 01
A-3309	Trans. slow speed gear bushing 1909-21	60 00	120 00
A-3311	Trans. brake drum assembly 1909-21	300 00	600 00
A-3313	Trans. triple gear assb. 1909-21	175 00	350 01
A-3314½	Trans. triple gear flanged, bushing 1911-21	30 00	60 00
A-3316	Trans. triple gear riveting pin 1909-21	40	87
A-3317	Trans driving gear 1909-21	90 00	180 00
A-3318	Trans. driving gear key 1909-21	3 00	6 00
A-3320B	Trans. driven gear sleeve bushing 1909-21	60 00	120 00
A-3320C	Trans. driven gear sleeve bushing 1909-21	20 00	40 02
A-3323	Trans. driving plate screw 1909-21 (Order No. A-3371)		
A-3328	Trans. thrust plate, small 1909-21	15 00	30 00
A-3329	Trans thrust plate, large 1909-21	15 00	30 00

TRANSMISSION

Nos.			Per 100
A-3330	Trans distance plate 1909-21	$ 30 00	60 00
A-3331	Trans gear shaft 1909-21	150 00	300 00
A-3333	Trans. clutch disc. drum key 1909-21	5 00	9 99
A-3334	Trans. clutch disc. drum set screw 1909-21	5 00	10 02
A-3337	Trans. clutch finger 1909-21	15 00	30 00
A-3337½	Trans. clutch finger screw 1909 21	5 00	9 99
A-3337¾	Trans clutch finger washer 1909-21	2 00	3 99
A-3338	Trans clutch finger pin 1909-21	2 00	3 99
A-3340	Trans cluten spring 1909-21	35 00	70 02
A-3342	Trans clutch spring thrust ring pin 1909-21	5 00	9 99
A-3344	Trans. clutch shift 1909-21	60 00	120 00

TRANSMISSION COVER

			Per 100
A-3362	Trans. cover bolt and nut 1909-21	8 00	15 99
A-3363	Trans cover gasket (front, length 15½ ins 1909-21 (felt)	5 00	9 99
A-3366	Transmission cover door felt gasket 1909-21	4 00	7 98
A-3367	Trans. cover door screw 1909-21	2 00	3 99
A-3368	Universal ball cap (rear) 1909 21	30 00	60 00
A-3369	Universal ball cap (front, 1909-21	90 00	180 00
A-3371	Universal ball cap screw 1909-21	5 00	9 99
A-3372	Universal ball cap bolt and nut 1909-21	8 00	15 99
A-3375	Trans. cover screw 1909-21	5 00	9 99
A-3377	Trans. cover gasket, (pair) 1909-21 (felt)	15 00	30 00
A-3378	Trans. cover sloping door 1911-20, 9½ inches long	15 00	30 00
A-3379B	Transmission cover sloping door gasket 1911-21	5 00	9 99

PARTS FOR FORD CARS

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TRANSMISSION CONTROL

Nos.		Per 100
A-3400	Trans. clutch release ring 1909-21	$25 00 50 01
A-3402C	Clutch lever and shaft with release fork 1913-20	
A-3402D	Clutch lever and shaft 1913-20	
A-3403	Clutch lever screw and nut 1909-21	5 00 9 99
A-3405	Clutch lever pin 1909-21	2 00 3 99
A-3406B	Clutch release fork, right or left 1913-20	25 00 50 01
A-3406C	Clutch release fork pin 1913-21 1909-14	2 00 3 99
A-3408	Clutch release, fork key 1909-14	5 00 10 02
A-3411	Clutch lever clevis pin 1909-21 (Order No. A-2564)	5 00 9 99
A-3413	Trans. band assembly 1909-21	75 00 150 00
A-3415	Trans. band washer 1909-21	3 00 6 00
A-3416	Transmission band lining 1909-21 (Order No. A-3UCL	(Shown on page 2448
A-3419	Trans. band adjusting screw 1909-21	10 00 20 01
A-3420	Trans. band adjusting screw nut 1909-21	5 00 9 99
A-3422B	Trans. band brass rivets 1909-21. 5/16"x1 1/4"	(See page 2440 for price. See page 2444
A-3423B	Trans. band brass rivets 1909-21 3/4"x	(for price)
A-3425	Trans. band spring 1909-21	5 00 9 99
A-3426	Trans. band adjusting nut 1909-21	5 00 9 99
A-3427	Slow speed shaft 1909-20	15 00 30 00
A-3428	Slow speed notch 1909-20 on slow speed shaft	30 00 60 00
A-3429	Slow speed notch pin 1909-21	2 00 3 99
A-3432	Speed lever 1909-21	10 00 20 01
A-3433	Speed lever clevis pin 1909-21 (Order No. A-2564)	
A-3434	Reverse pedal 1909-21	60 00 120 00
A-3436	Brake and reverse pedal support	20 00 40 02
A-3437	Brake and reverse sup. bolt and nut 1909-21	8 00 15 99
A-3439	Brake pedal 1909-21	60 00 120 00
A-3440	Clutch pedal 1909-21	60 00 120 00
A-3441	Pedal pin 1909-21 (Order No. A-3405)	
A-3442	Clutch pedal support 1909-21	20 00 39 99

TRANSMISSION CONTROL

Nos.		Per 100
A-3443	Clutch pedal sup. bolt and nut 1909-21	$8 00 15 99
A-3446	Slow speed conn. lock nut 1909-21	2 00 3 99
A-3447	Slow speed conn. clevis 1909-21	10 00 20 01
A-3450	Controller shaft bracket bolt and nut 1909-21	15 00 30 00
A-3451	Controller shaft bracket felt 1909-21	1 00 2 01
A-3452	Handl rake lever assembly 1909-20	5 00 9 99
A-3455	Hand brake lever pin 1909-21 (Order No. A-3429	125 00 249 99
A-3456B	Hand brake lever pin 1909-21 (Order No. A-2574)	
A-3458	Hand brake lever pawl 1909-21	10 00 20 01
A-3459	Hand brake lever pawl pin 1909-21	2 00 4 02
A-3460	Hand brake lever pawl rod 1909-21	10 00 20 01
A-3462	Hand brake lever pawl lift assembly 1909-21	15 00 30 00
A-3465	Hub brake lever on controller shaft 1909-20	20 00 40 02
A-3466	Hub brake lever pin 1909-21 (Order No. A-3405)	
A-3467	Hub brake lever clevis 1909-21 (Order No. A-3447)	10 00 20 01
A-3468	Hub brake pull rod (right) 1909-21	60 00 120 00
A-3469	Hub brake pull rod (left) 1909-21	60 00 120 00
A-3470	Hub brake rod support, right 1909-21	10 00 20 01
A-3471	Hub brake rod support, left 1909-21	10 00 20 01
A-3472	Hub brake rod support bolt and nut 1909-21	5 00 9 99

STEERING GEAR

A-3506	Steering gear cover bushing 1909-21	15 00 30 00
A-3506B	Steering gear driving pinion washer 1909-21	2 00 4 02
A-3511	Steering gear wheel nut	15 00 30 00
A-3513C	Steering gear tubing, flange, screw and nut 1909-21	5 00 9 99
A-3517	Steering gear pinion 1909-21	15 00 30 00

(Continued)

PARTS FOR FORD CARS

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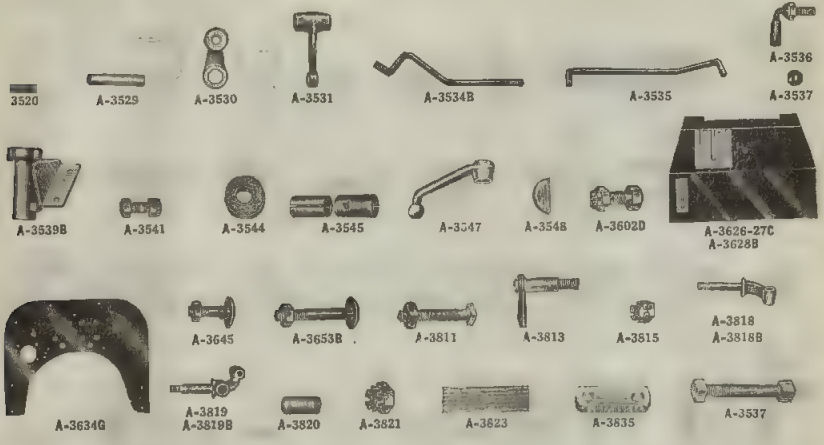

STEERING GEAR

Nos.			Per 100
A-3520	Steering gear drive pinion key 1909-14	$3 00	6 00
A-3523	Steering gear post castle nut, 1909-14 (Order No. A2568)		
A-3529	Lead and throttle rod pin 1909-21	1 00	2 01
A-3530	Lead rod lever 1909-21	10 00	20 01
A-3531	Throttle rod lever 1909-21	10 00	20 01
A-3534B	Commutator pull rod 1912-21	10 00	20 01
A-3535	Carburetor pull rod 1909-21	10 00	20 01
A-3536	Ball and socket joint 1909-21	10 00	20 01
A-3537	Ball and socket joint nut 1909-21	2 00	3 99
A-3539B	Steering post bracket with bushing 1911-21	75 00	150 00
A-3541	Steering post bracket bolt and nut, 3/12	8 00	15 99
A-3544	Steering post bracket felt washer 1909-21	3 00	6 00
			Per 100 Pair
A-3545	Steering post bracket bushing 1909-21	$20 00	40 02
			Per 100
A-3547	Steering gear ball arm 1909-21	$50 00	100 02
A-3548	Steering gear ball arm key 1909-21	5 00	9 99

BODY PARTS

			Per 100
A-3602D	Body bracket conn. bolt and nut, 1910-21	$6 00	12 00
A-3626C-27C	Foot board, two first boards, 1914-21	100 00	200 01
A-3628B	Foot board, 1914-21	70 00	80 01
A-3629X	Touring rear stay strap assembly complete 1920-21 (Order No. A-ARS,) page 2405		
A-3634G	Dash board, 1917-21	$00 00	600 00

BODY PARTS

Nos.			Per 100
A-3642	Dash bracket bolt 1917-20 (Order No. A-3074)		
A-3645	Dash bracket to dash bolt and nut 1909-16	$5 00	9 99
A-3653B	Dash to body bracket bolt and nut 1915-21	5 00	9 99
A-3665	Gas lamp bracket nut 1909-16 Order No. A-2568)		
A-3800	Front spring (Order No. A-2000 shown on page 2348)		
A-3808	Front spring clip without nut 1909-21 (See page 2449 for price)		
A-3809	Front spring clip nut 1909-21 (Order No. A-2568)		
A-3811	Front spring tie bolt and nut 1909-21	6 00	12 00
A-3813	Front spring hanger 1909-21	20 00	39 99
A-3815	Front and rear spring hanger nut 1909-21 (Order No. A 2719)		
A-3818	Front spring perch (right), 1909-19	60 00	120 00
A-3818B	Front spring perch (right), 1919-21	60 00	120 00
A-3819	Front spring perch (left), 1909-19	60 00	120 00
A-3819B	Front spring perch (left), 1919-21	60 00	120 00
A-3820	Front spring perch bushing 1909-21	5 00	9 99
A-3821	Front spring perch nut 1909-21 (Order No. A-2828)		
A-3823	Front spring leather 1909-21	10 00	20 01
A-3824	Rear spring (Order No. A-2001 shown on page 2348)		
A-3833	Rear spring clip, without nut 1909-21 (See page 2449 for price)		
A-3834	Rear spring clip nut 1909-21 (Order No. A-2543)		
A-3835	Rear spring clip bar 1909-20, 3/8x1 1/16x4x7/16	10 00	20 01
A-3837	Rear spring tie bolt and nut 1909-21	7 00	14 01

PARTS FOR FORD CARS

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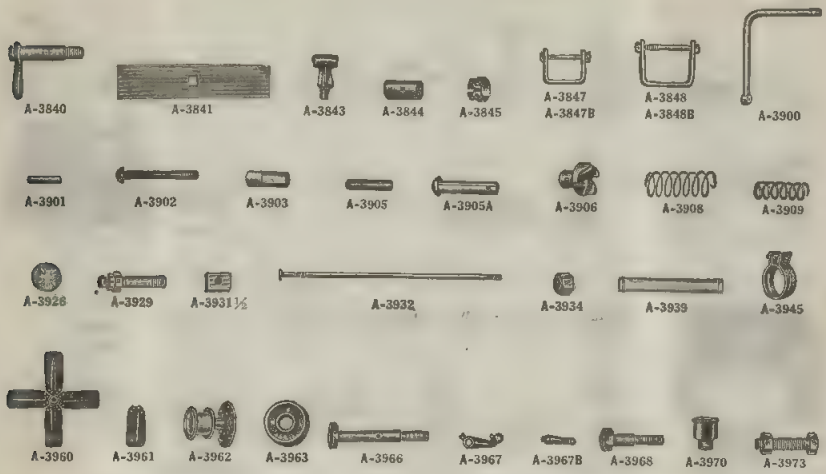

BODY RARTS

Nos.		Per 100
A-3840	Rear spring hanger 1909-21	$20 00 39 99
A-3842	Rear spring leather pad 1909-21	10 00 20 01
A-3843	Rear spring perch 1909-21	40 00 80 01
A-3844	Rear spring perch bushing 1909-21	5 00 9 99
A-3845	Rear spring perch nut 1909-21	10 00 20 01
A-3847	Front spring clip assembly with bolt and nut 1909-21	10 00 20 01
A-3847B	Front spring clip assembly with bolt and nut 1916-21	10 00 20 01
A-3848	Rear spring clip assembly with bolt and nut, 1909-21	10 00 20 01
A-3848B	Rear spring clip assembly with bolt and nut 1918-21	10 00 20 01

STARTING CRANK

A-3900	Starting crank only 1909-21	60 00 120 00
A-3901	Starting crank handle 1909-21	20 00 40 02
A-3902	Starting crank handle bolt 1909-21	10 00 20 01
A-3903	Starting crank sleeve 1909-21	10 00 20 01
A-3905	Starting crank ratchet pin 1909-21	5 00 9 99
A-3905A	Starting crank ratchet pin 1909-21	5 00 9 99
A-3906	Starting crank ratchet 1909-21	25 00 50 01
A-3908	Starting crank spring 1909-21	5 00 9 99
A-3909	Starting crank handle spring 1915-21	3 00 6 00

RADIATOR-THERMO SYPHON

Nos.		Per 100
A-3924X	Touring car top to wind shield strap assembly. 1915-21 Order No. A-7TS Page 2405)	
A-3926	Radiator cap 1909-21	$15 00 30 00
A-3929	Radiator stud and nut 1904-21	8 00 16 02
A-3930	Radiator stud spring 1909-21 (Order No. A-2742)	
A-3931½	Radiator stud washer nut 1909-21	3 00 6 00
A-3932	Radiator rod (20¾ in. long) 1909-21	15 00 30 00
A-3934	Radiator rod nut 1909-21	3 00 6 00
A-3939	Outlet connection pipe 1909-21	35 00 70 02
A-3945	Outlet connection hose clip 1909-21	5 00 9 99

RADIATOR FAN

A-3960	Fan and pulley assembly 1909-21	150 00 300 00
A-3961	Fan blade 1909-21	10 00 20 01
A-3962	Driven fan pulley	80 00 159 99
A-3963	Fan drive pulley 1909-21	30 00 60 00
A-3966	Fan shaft 1909 21	20 00 39 99
A-3967	Fan bracket 1909-21	40 00 80 01
A-3967B	Fan bracket 1917-21	30 00 60 00
A-3968	Fan bracket bolt 1909-21	15 00 30 00
A-3970	Fan grease cup 1909-21	10 00 20 01
A-3973	Fan adj. screw and nut 1909-21	6 00 12 00

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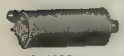
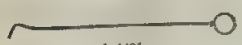

A-4025

A-4026B

A-4037B

A-4040B

A-4052
A-4052B
A-4053B


A-4431

A-4452

A-4559

A-4731

A-4804D

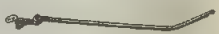
A-4805B

A-4806

A-4808

A-4808B

A-4808C


A-4809

A-4816

A-4817

A-4819

A-4819B

A-5892

MUFFLER

		Per	100
A-4025	Muffler assembly 1909-21	$200 00	499 99
A-4026B	Muffler head, front 1917-21	45 00	90 00
A-4034	Muffler bracket bolt (Order No. A-3074)		
A-4037B	Long exhaust pipe 1909-21	175 00	350 01
A-4040B	Muffler head, rear 1917-21	45 00	90 00

HOOD

A-4052	Hood clip 1909-16	5 00	9 99
A-4052B	Hood clip 1917-21	5 00	10 02
A-4053B	Hood clip spring 1917-20	2 00	4 02

PARTS FOR HOLLEY CARBURETOR

Nos.			
A-4431	Carburetor priming rod 1909-21	5 00	9 99
A-4451A	Holley carburetor float with lever, 1909-21	See Page 2461 for price	
A-4452A	Spray needle assembly Holley Carb., 1913-21	20 00	39 99
A-4559	Spray needle assembly Holley Carb., 1912	50 00	99 99

FORD SPARK COIL

A-4731	Switch plug 1909-21	5 00	9 99

FENDERS, 56 inch Tread.

		Per	100
A-4804D	Rear fender iron (right or left) 1913-21	$20 00	39 99
A-4805B	Rear fender iron bolt and nut, 1915-21	5 00	9 99
A-4806	Fender eye bolt, nut and washer, 1909-21 (old No. A-2935)	10 00	20 01
A-4808	Front fender iron bolt and nut (side) 1910-21	6 00	12 00
A-4808B	Front fender iron bolt and nut (bottom) 1910-21	6 00	12 00
A-4808C	Front fender apron to frame bolt and nut, 1915-21	5 00	9 99
A-4809	Front fender iron (right or left) 1909-21	75 00	150 00

RUNNING BOARDS AND SHIELDS

A-4816	Running board truss rod-front, with nuts 1909-21	50 00	99 99
A-4817	Running board truss rod-rear, with nuts 1909-21	50 00	99 99
A-4819	Running board fender bolt and nut, 1909-21	5 00	9 99
A-4819B	Running board bolt and nut, 1909-21	5 00	9 99

CONTACT POINTS

No. A-5008-9 { Vibrator with tungsten point.
Vibrator bridge with tungsten point.
(Order No. A-73PS) Page 2392.

FEED PIPE GASKET

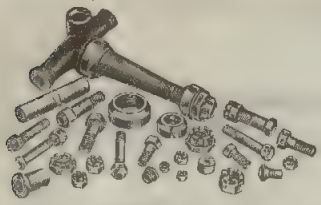
A-5892		$2 00	3 99

PLAIN HEADLIGHT LENS

A-6576X (See page 2358 for price).

PARTS FOR FORD CARS

ASSORTMENTS



All parts are of highest grade and guaranteed to fit perfectly.

Assortment consists of 590 repair parts, replacing 72 important parts, as follows

Package Number	Quantity in Package	
2503C	10	Axle Housing Bolt and Nut.
2503E	20	Axle Housing Bolt and Nut.
2514B	5	Diff. Case Stud and Nut.
2519	50	Diff. Drive Gear Screw.
2548	10	Radius Rod Castle Nut Hardened.
2567	5	Brake Shoe Support Bolt and Nut.
2568	20	Brake Shoe Support Nut.
2578	7	Joint Housing Plug.
2584B	10	D. S. Roller Bearing Stud and Nut.
2586	5	D. S. Roller Bearing Housing Set Screw.
2596	2	D. S. Sleeve 1-inch bore.
2598	5	D. S. Cast. Nut.
2694	5	Spindle Body Right.
2695	5	Spindle Body Left.
2697	10	Spindle Arm Nut.
2704	20	Stationary Cone.
2705	20	Adjusting Cone Right Thread.
2706	20	Adjusting Cone Left.
2707	5	Spindle Nut, Right Thread.
2708	5	Spindle Nut, Left Thread.
2709	20	Spindle Washer.
2710	15	Spindle Bolt with Oiler.
2711	10	Spindle Bolt Nut.
2713	20	Spindle Body Bushing.
2718	20	Spindle Con. Rod Bolt with Oiler.
2719	10	Spindle Con. Rod Bolt Nut.
2722	5	Steering Yoke Clamp Bolt and Nut.
2729B	----	Ball Socket Bolt and Nut, use No. 2722.
2734	----	Front Radius Rod Nut, use No. 2548.
2741	2	Radius Rod Ball Cap Stud and Nut.
2825	50	Hub Bolt and Nut.
2828	5	Rear Hub Lock Nut.
3003	5	Cyl. Head Cap Screw.
3008	5	Cyl. Head Outlet Con. Screw.
3010	10	Cyl. Cover Bolt and Nut.
3011	10	Cyl. Cover Cap Screw.
3014		Cyl. Cover and Crank Case Bolt and Nut, use 2722.
3022	2	Piston Pin.
3025	2	Con. Rod Cap Bolt and Nut.
3029	10	Con. Rod Clamp Screw.
3035	--	C. S. Bearing Bolt Nut, use No. 2568.
3040	2	C. S. Starting Pin.
3046	2	Cam Shaft Bearing Set Screw.
3049	2	Cam Shaft Gear Dowel Pin.
3066	10	Inlet and Exhaust Clamp Stud and Nut.
3072	20	Crank Case and Cyl. Cover Cap Screw.

PARTS FOR FORD CARS

ASSORTMENTS

Package Number	Quantity in Package	
3073	2	Crank Case Arm Bolt and Nut, Side.
3074	2	Crank Case Arm Bolt and Nut, Top.
3103	10	Crank Case Lower Cover Screw.
3112	2	Cyl. Valve Cover Stud and Nut.
3167	2	Com. Roller.
3168	2	Com. Roller Pin.
3252	------	Magnet Spool Support Screw, use No. 3371.
3254	2	Magnet Bolt.
3257	2	Magnet Brass Support.
3270	6	Fly-Wheel Cap Screw.
3328	------	Trans. Driving Plate Screw, use No. 3371.
3334	2	Trans. Clutch Disc Drum Set Screw.
3362	50	Trans. Cover Bolt and Nut.
3371	10	Universal Ball Cap Screw.
3372	------	Universal Ball Cap Bolt and Nut, use No. 2722.
3409	2	Clutch Release Fork Clamp Screw.
3420	2	Trans. Band Adjusting Screw Nut.
3446	2	Slow Speed Con. Lock Nut.
3452	2	Controller Shaft Bracket Bolt and Nut.
3523	------	Steering Gear Post Castle Nut, use No. 2568.
3537	10	Ball and Socket Joint Nut.
3815	------	Front and Rear Spring Hanger Nut, use No. 2719.
3821	------	Front Spring Perch Nut, use No. 2828.
3834	------	Rear Spring Clip Nut, use No. 2548.
3934	2	Radiator Rod Nut.
3968	5	Fan Bracket Bolt.

No. A-590—Assortment as described above..... Per Ass't. ✚$157 50

One assortment in a carton; weight 100 lbs.

Automobile Tires and Accessories is a "dandy" line to carry. If you are not already handling this profitable line—do so at once—and it's well to buy them from Belknap's.

✚F. O. B. Ohio Factory Only.

Seat Covers for Ford Cars

Made strong and durable, being double stitched where strain is greatest. Arm rests are made of imitation leather. All seams and doors are bound with a high grade black imitation leather binding. Coverings for back cushions are put on with snap buttons, doors are tacked on with large head leatherette nails. Covers are for all the upholstery in the car—backs, cushions and doors. Packed one set to a carton. Prices are without kick pad or dust cover.

Stock No	Car	Model	MATERIALS: Cotton Mohair	Water-proof Tan	Black and White
518A	Touring,	1913-14	$20.00	$20 00	$26.00
518	Touring,	1915-16	18.00	18.00	24.00
519	Touring,	1917 21	18.00	18.00	24 00
520	Runabout,	1913-14	13 00	13 00	17.00
521	Runabout,	1915-16	12.00	12.00	16.00
522	Runabout,	1917-21	12.00	12 00	16.00
650	Couplet,	1917-21	17 00	22.00	23.00
660	Sedan,	1917-21	22.00	28.00	30.00

Seat Covers for Backs and Cushions Without Doors

The same cover as above except door and dash coverings are excluded.

Stock No.	Car	Model	Cotton Mohair	Water-proof Tan
523	Touring,	1913-14	$14.00	$14.00
524	Touring,	1915-16	14 00	14.00
525	Touring,	1917-21	14 00	14 00
526	Runabout,	1913-14	10 00	10 00
527	Runabout,	1915-16	10.00	10.00
527A	Runabout,	1917-20	10.00	10.00

Slip Top Covers for Fords

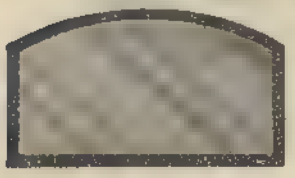
Top dust covers are needed to add the finishing touch to a set of seat covers. Protects top when down and adds to appearance of the car.

Reinforced on edges, being double sewed and double thickness where needed.

No. 528 Touring car covers:
- Cotton mohair $7.00
- Waterproof tan 7.00
- Black and white 8.50

No. 529 Runabout covers:
- Cotton mohair $7.00
- Waterproof tan 7.00
- Black and white 8.50

Stik-Tite Curtain Lights



No. 1

No. 17

Require no fasteners or stitching.

No		Each
1	For 1916 and earlier models	$1.00
17	For 1917 to 1921 models	.50

Door Coverings for Ford Cars

Made of heavy Neverleek material with large pocket. The material is extra strong.

Pocket is one of the most convenient accessories on a Ford. Made for right front and both rear doors only.

- No. 531 Right front door covering with pocket $1.50
- No. 532 Right rear door covering with pocket 1.50
- No. 533 Left rear door covering 1.50
- No. 534 Left front door panel 2.00

Windshield Extensions

Closes the space between top and windshield. Protects driver from wind, cold, dirt and dust. Fits any model touring and runabout.

No. 540 Windshield Extensions, made of enamel drill ..... each, $1.00

Cushions for Ford Cars

A good medium price cushion for the Ford. The covering is DuPont Fabrikoid 4000 quality artificial leather, no buttons, all piped style.

Frame is heavier than regular Ford frame, having a wooden insert in the bottom edge making the cushion very rigid and strong. Front cushion has 32 oil tempered springs, rear cushions, 36 springs.

Packed one cushion in a heavy shipping carton, weight 20 lbs.

No. 512 Cushions for front touring or runabout ..... each, $12.00

No. 513 Cushions for rear touring ..... each, 13.00

Divided Cushions for Fords

Covering DuPont Fabrikoid, 4000 quality. Frame made with wood insert around bottom making very rigid.

One pair in a carton, weight 22 lbs.

No. 451 Divided cushions for front touring or runabouts ... per set, $15.00

Ford Top Straps

Made of extra heavy web. Japanned tongueless buckle. Drab color.

No. 15 Front top strap ..... each, $0.50

No. 12 Back top strap ..... each, .60

Top Prop Nuts

Japanned, tapped ⅞ inch. Made in two sizes, 1¼ and 1⅛ inch across face.

	Each
1¼ inch	$0.05
1⅛ inch	.05

Peerless Radiators

1917-21 Models
This model will not fit old model Fords unless used with special hood and shield outfit. On the 1917 to 1921 models it fits the hood regularly furnished.

No. 11 Black enamel, weight 60 lbs ..... each $28.00

No. 11 Nickel plated ..... each, $30.00

One in a Box

Peerless Radiators

1909 to 1916

Will fit all models up to 1917. Has large water capacity and cooling surface.

No. 10 Black enamel, weight 50 lbs ..... each, $30.00

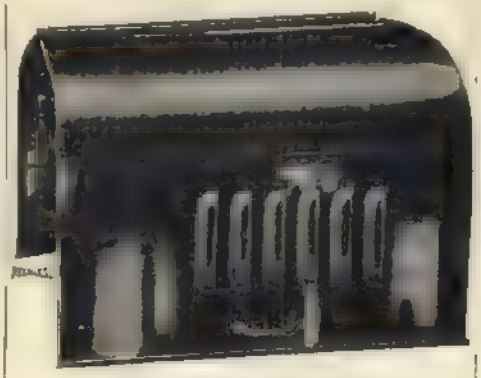
One in a Box

Combination Radiator, Hood and Splash Pan

This combination of radiator, hood and shield is produced particularly to convert the 1915-1916 Ford cars into the latest model. The tapered hood gives the car the new stream-line effect. The change is easily and quickly made. The front shield adds to the appearance of the car and keeps dust from the springs. The radiator is the regular Peerless No. 11, with honeycomb core which has proven most efficient.

No. 12 Combination, complete with malleable iron engine connection and 4 hood latches.....each $40.00

Hoods for Ford Cars



For 1917 and later Ford cars. Built of heavy gauge steel and finished with two coats of black enamel, baked on. Of four piece construction, strongly and rigidly made.

No. 4050B Hood, 1917-21 model ....each, $8.00

Radiator Caps

Made of aluminum alloy, black japan finish.

Each
No. 40 ..... $0.35

Black Rubberized Radiator Caps

Made of extra heavy metal, with black rubberized finish.

No. 55 .....each, $0.30

Ford Radiator Caps

Made of heavy gauge brass, polished. Unique top assures easy removal. Furnished in regular type. Regular Ford $0.20

Boyce MotoMeters

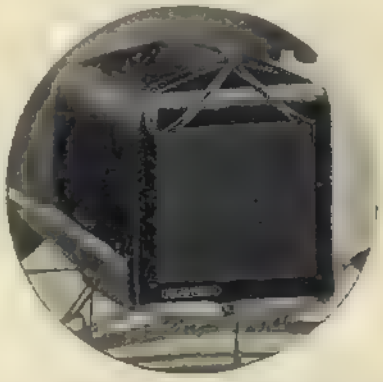
Special for Ford

Boyce MotoMeters have a heavily nickeled frame thermometer tube protected against breakage by two metal ribs. They are noted for their accuracy. Can be attached to the radiator cap in a few minutes.

Ford Special Model.....each, 3.50

Hood and Radiator Covers

For Ford Cars



Our Hood and Radiator Covers save engine and radiator. Keeps water warm and makes starting easy. With motor hot one or two turns of the crank starts the engine. Saves gasoline by using a lean mixture, and does away with warming up motor. A quick getaway is insured in spite of zero weather. Made in two pieces, so radiator cover can be used without hood cover in moderate weather. Hood and radiator cover held in place by snap buttons.

When car is standing curtain can be closed tight, keeping engine and water hot.

All covers are lined with heavy felt. Top materials are waterproof. Heavy reinforcing is made around cut-out places for handles and radiator filling spout. Made for any model Ford.

Hood and Radiator Cover Complete

No. 544 Enamel Drill.....each, $5.00

Radiator Cover Only

No. 546 Enamel Drill.....each, $3.00

Radiator Hose

This hose differs from the usual radiator hose furnished for Ford cars.

It is a 3 ply hose specially prepared in proper lengths. It will withstand the destructive action of heat and oil and will not blow out.

Its heavy stock is compounded so that it will withstand all the requisites of a good hose.

No. 3944. 1¾ x 2¾ in. outlet connection hose.....each, $0.15
No. 3006. 2 x 4 in. cylinder head outlet hose .....each, .30

One Dozen in a Box

Thompson Hose Clamps

Galvanized steel made especially for Ford hose connections.

No. 3945. Outlet connection hose clamps .....each, $0.05
No. 3007. Cylinder head outlet hose clamps .....each, .05

Twenty-five in a Box

Uniq Running Boards

Board is made of California redwood, covered with aluminum and bound with aluminum molding. Furnished complete with bolts ready to attach to car. Used in place of the plain boards furnished with the Ford, and radically improves its appearance, at the same time furnishing a step that is not slippery in wet weather and that will not rust, dent, sag or rattle.

Style A.....per pair, $8.00

Ford Running Boards

These are exact duplicates in every respect of the 1921 Ford Model T, made of 18 gauge automobile steel and finished in two coats of high grade baked on black enamel.

Per pair $5.00

Fenders for Ford Cars

Front Left

Front Right

Rear Left

Rear Right

These fenders are exact duplicates of those supplied with Ford cars and are interchangeable with them.

Built of all 20-gauge, full finished steel. This is an exception to the general method of Ford fender manufacture.

Fenders made of lighter steel than 20 gauge will not stand the vibration and wear that is encountered on a Ford car.

Peerless Fenders are finished in two coats of hard, lustrous enamel baked on.

New Peerless Fenders add greatly to the appearance and resale value of a used Ford car. There is nothing that depreciates the appearance and value of the Ford car as loose, rattly, rusty, shapeless, broken fenders.

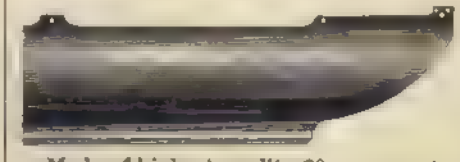
They are crated to withstand shipping without damage.

No. 16 Fenders fit all old models to and including 1916.

No. 17 Fenders fit 1917 and later model cars.

Per set of four.....$22.00
Front Fenders only.... per pair, 12.00
Rear Fenders only.... . per pair, 10.00

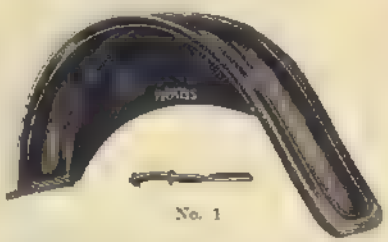
Running Board Shields



Made of highest quality 20 gauge automobile steel. Will match fenders and will fit any model car from 1915 to 1920. Finished in gloss black enamel.

Running Board Shields for Fords...
.....per pair, $6.00

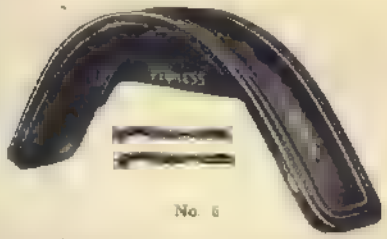
Commercial Fenders



No. 1

A general purpose truck fender. The best truck fender on the market and in constant demand. Made of heavy gauge steel, finished with two coats of black japan baked on. Especially recommended for use when a Ford car is converted into a commercial car. Complete with wrought iron brackets, bolts and washers.

No. 1 Commercial Fenders, per pair, $6.00



No. 5

Especially built for Ford one ton trucks when equipped with 32 x 4½ pneumatic tires but is also a general utility fender for other trucks. Made of heavy gauge full finished steel with two coats of black enamel baked on. Strong and rigid construction. Complete with wrought iron brackets, bolts and washers.

No. 5 Commercial Fenders, per pair, $7.50

Fender Braces

Front

Rear

A device which eliminates the rattle of the fenders on Ford cars. Can be attached by any one in a few minutes. Made of steel and black japanned. The small size is used on the rear fender, the large size on front fenders.

Front Fender Braces .....each, $0.10
Rear Fender Braces..... .10

Running Board Truss Rods

4816

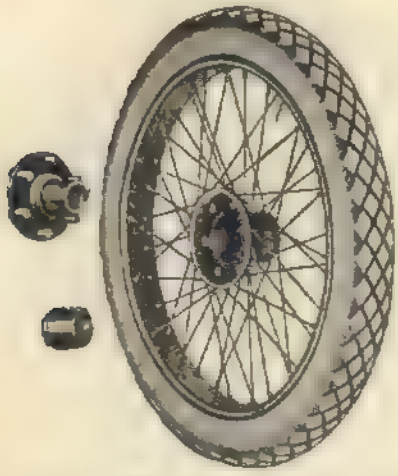
4817

These rods are made of ⅜ in. round steel fitted with A. L. A. M. hexagon nuts at each end.

They connect the two running boards together underneath the car. These rods are duplicates of regular Ford equipment.

No. 4816..... . . .each, $0.50
No. 4817..... each, .50

DAYTON QUICK DETACHABLE WIRE WHEELS



Dayton quick detachable wire wheels are laced with the system of balanced triple spoke lacing, the strongest and only satisfactory system of lacing yet devised for motor car service.

Five wheels and four inner hubs constitute a set. The wheels are made detachable and interchangeable. The inner hub mountings for the axle spindles are so arranged that any wheel may be changed from one position to another, with no other operation than the simple unscrewing and replacing of the hub cap. The spare wheel is carried with inflated tire and can be applied to any of the hub mountings.

Wire wheels are known as "suspension" wheels, which means that the weight of the car is hung from the top half of the wheel. You could knock out the wire spokes in the bottom halves of the wheels and the car would still be perfectly supported. Wire wheels "cradle" the car and make a difference in its riding qualities which few shock absorbers equal and none surpass.

Wire wheels give more tire mileage due to resiliency and heat radiation. The steel rim with its numerous radiating steel spokes carries off the heat, whereas in a wood wheel the wood felloe, which is practically a non-conductor of heat, locks the heat securely in the tire.

These facts coupled with the light weight of Dayton Wire Wheels account for a tire saving of at least 25 per cent.

Dayton Wire Wheels will not collapse, no matter how violent the skid. They are five times as strong as wood wheels. There is no shrinkage and cracking from weather conditions and climatic changes.

The extra or spare wheel makes tire changing quicker and easier than with any demountable rim.

The stylish appearance of Dayton Wire Wheels commends itself to every Ford owner.

Installation

The fitting of the car for the reception of Dayton Quick Detachable Wire Wheels is a very simple matter. The wood wheels are removed from the axle spindles and the balls which are located in the front wheels are changed over into the front wire wheel mountings. These are then placed on the spindles exactly the same as were the wood wheel hubs.

Similarly the brake drums are removed from the rear wood wheels and bolted on to the flanges of the rear wire wheel mountings, using the bolts and nuts attached for this purpose.

Hubs and hub caps are marked right and left side, and are applied to the right or left of the driver when seated in car.

Speedometer

The regular Ford size (Model 100) Stewart-Warner Speedometer Sprocket will fit the Dayton Wire Wheels.

For All Models of Ford Cars Only

Set consists of 5 wheels, with 30x3½ in. plain clincher rims, 4 inner hubs, 4 hub caps, hub cap wrench, spoke nipple wrench, and outer hub dust cover for spare wheel.

White, black, cream or red enamel finish .....per set, $80.00

Other colors, enamel finish. per set, 85.00

Repair Parts for Dayton Wire Wheels for Fords

Spokes and Nipples (not enameled) .....each, $0.10

Always specify length of spokes when ordering.

Inner Front Hubs, right or left..... .....each, 4.50

Inner Rear Hubs, right or left.... .....each, 5.25

Hub Caps, right or left, nickeled.... .....each, 3.50

Hub Cap Washers.....each, .60

Wire Wheel Carriers

A strong, durable wire wheel carrier that can be easily attached to the rear of the car. Holds spare wheel rigidly and securely. The wheel can be easily put on and removed.

All Models Ford..... .. ...$12.95

Peerless Wheel Discs

Made in two styles, for Ford regulation and demountable wheels, make Ford wheels equal in appearance to those of highest priced cars.

These discs are stamped in one piece from high grade 20 gauge cold rolled, full finished automobile sheet steel. The design makes them sturdy, rigid and elegant.

They are simple in construction. They fit over the hub cap on the outside, bolted with four bolts to the felloe of the Ford regulation wood wheel or demountable wheel.

They can be attached by anyone in a few minutes and require no special tools.

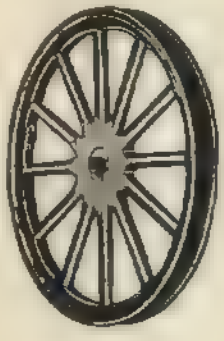
Packed one set (4 discs) in a carton. Finished bright red enamel.

For regulation wheels (per set of 4) $10.00

For demountable wheels (per set of 4) 10.00

When ordering discs for demountable wheels be sure to specify whether they are for four or five lug wheels.

Front and Rear Wheels



Standard Ford Type

Painted black and varnished, equipped with plain clincher rims.

No. 2800 Front wheel, 30x3 in., without hub .....each, $6.00

No. 2814C Rear wheel, 30x3½ in., without hub .....each, 6.00

Demountable Rims and Wheels For Ford Cars

30x3½ demountable clincher rims mounted on first grade hickory wheels, ready to receive Ford hubs.

Set consists of five rims, four wheels, wheel bolts and nuts and rim wrench. Furnished in black or natural finish.

No. 116 Set Demountable Rims and wheels for Fords, complete, ... per set, $35.00

Extra Rims ..... each, 3.50

One Complete Set in a Crate

Pneumatic Demountable Wheels and Rims for Ford One Ton Trucks

For 32x4½ S. S. pneumatic tire. Furnished to replace solid tires on rear wheels for Ford truck.

Wheels are equipped with split rim, straight side type. The set includes two wheels, 3 rims, one socket wrench, 12 new hub flange bolts and one rim tool. Black finish.

Set complete ..... each, $40.00

Extra Rims ..... each, 6.00

Roller Bearings for Front Wheels

The concave rollers of this bearing are placed at an angle of approximately 20° on ball shaped (or convex surfaced) cups and cones, allowing the rollers to travel in natural alignment, the same as in a ball bearing.

The outer surface of the inner cone is convex, having the contour of a perfect ball; the rollers being concave, permit the cone to move in any direction similar to universal joint action and allow it to swing to meet any misalignment due to machining a shaft deflection. These Roller Bearings need little or no attention, but can be easily adjusted for any small wear by slight lateral adjustment of cup or cone.

	Each
Ford	$10.00
Chevrolet 490	10.00

All bearings are listed for two wheel sets.

Bailey Ball Thrusts

Replaces thrust washers at left (gear) side of Ford and Chevrolet 490 differential.

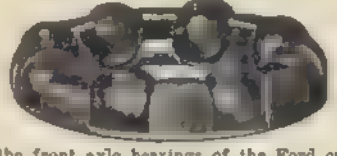
Holds the gears in mesh, reducing the possibility of stripped gears, noise and wear.

They are an exact replacement and are made to a thousandth part of an inch.

Bailey Ball Thrusts..... each, $3.75

Goodrich Ball Retainers

For Fords and Chevrolet 490 Cars



In the front axle bearings of the Ford car the balls run loose. They are merely poured into the raceway, and allowed to take care of themselves. The Goodrich National Ball Retainer separates the balls, so that each runs alone in the raceway, reducing friction to about one-third.

Complete with balls, per set of four, two large and two small..... $2.25

Hub Caps

Regular Pattern

Threaded to fit all models of Ford cars. Stamped from 18 gauge brass, polished nickel plated.

		Each
No. 2819	Brass, nickel plated.....	$0.20

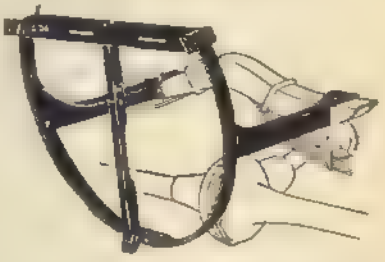
Humboldt Rear Tire Holders with Locking Base

For Ford Cars

It fastens to the rear frame in an easily accessible manner, and the license bracket is rigidly clamped around the two vertical supporting arms, thus eliminating any possibility of the lamp blowing out due to the excessive vibration. The locking base is another notable feature, making the tires secure against theft. Tires are carried in a vertical position clear of the exhaust. Strongly built from malleable iron and steel throughout and finished in our exclusive baked ebony enamel. Suitable for one or two tires. Each set packed complete with straps in an individual carton.

No. 1287 Each $5.00

Emco Tire Carriers



No more fussing with rusted bolts or balky straps. The spare tire or rim on the Emco Tire Carrier goes on or comes off with a quick-and-easy motion of the hand. Attaches easily to any type Ford and to 490 Chevrolet. Guaranteed for the life of the car. Made in the following styles.

FD3 Single demountable, Fords.... . . . . each, $5.00

FD4 Double demountable, Fords... . . . . each, 8.90

NOTE—Model FD3 is regular equipment on Ford sedans and coupes.

Hub Cap Wrenches

Is made of pressed steel, fits hub caps, also spark plugs and several other places on the car.

No. 1349 Each $0.20

Tuthill Titanic Springs

Front Spring for Fords

Titanic front springs are made without weakening center bolt hole and that is why we guarantee them forever against center breakage.

No. 102 7 leaves.... .....each, $6.00

Harvey Boltless Front Springs

Front Spring for Fords

Harvey Boltless Front Springs eliminate all front spring trouble. Guaranteed against sagging or breaking for one year. We recommend No. C1 for passenger cars and No. C7 for commercial cars and one ton trucks.

No. C1 7 leaves . ..... each, $6.00
No. C7 9 leaves .. . .each, 7.00

Front Springs for Fords

No. 3800 7 leaf standard, regular Ford Front Spring.....each, $4.00

No. 10 10 leaf Ford Front Spring, recommended for commercial cars and one ton trucks.....each, 8.50

Standard Rear Springs for Fords

A standard 8 leaf Ford Rear Spring which fits all models from 1910 to 1921.

No. 3824 Rear Springs.....each, $12.00

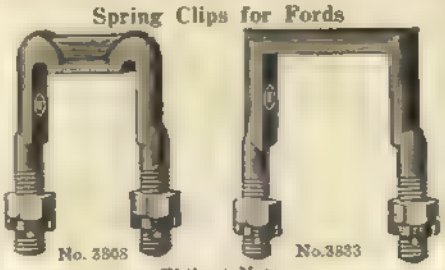
Harvey Rear Springs

Rear Spring for Fords

A high grade, long lasting Ford rear spring for all regular model Ford cars. Guaranteed against breaking and sagging for one year. We recommend the 10 leaf spring for sedans and commercial cars.

No. C2 8 leaves .....each, $15.00
No. C10 10 leaves .....each, 18.30

Spring Clips for Fords



Without Nuts

No. 3808 Front spring clips .....each, $0.30
Extra long for 9 and 10 leaf .....each, .50
No. 3833 Rear spring clips . . each, .25
Extra long for 9 and 10 leaf each, .50

Hyatt Roller Bearings for Fords

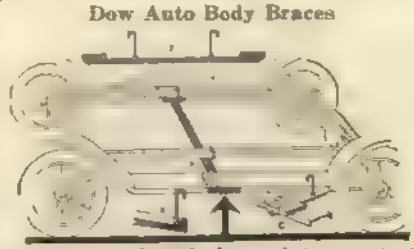
No. 2508 Axle shaft bearing.....
.. ..each, $1.50

No. 2587 Drive shaft bearing.....
....each, 1.75

Hyatt Roller Bearing Sleeves for Fords

		Each
No. 2509	Axle shaft bearing sleeve, right	$0.30
No. 2509B	Axle shaft bearing sleeve, left .	.30
No. 2593	Drive shaft roller bearing sleeve	1 90
No. 2596	Drive shaft sleeve..... .	1 20

Dow Auto Body Braces



A strong steel angle brace that supports the car. Stops the rattle, prevents uneven loading and keeps the springs from breaking. Fastens to the chassis. No holes to bore.

Each $3.00

Rear Axle Truss Rods

Prevents sagging or breaking of axles. Quickly attached.

No. 706 Weight 2½ lb.....each, $1.75

Apco Brake Rod Supports

Made of malleable iron with enclosed spring and a self lubricating stud. Can be attached without disturbing the original supports.

No. 45 Brake rod supports pair, $1.00

Auxiliary Front Radius Rods

For reinforcing the regular Ford radius rods. Made of angle steel. Keeps the axle true.

No. 50 Weight 5 lb., complete....$1.50

Ten in a Crate

Angle Bar Auxiliary Radius Rods

Adapted to those models of Ford cars having the radius rod attached beneath the front axle. Operates independently of radius rod. Holds front axle in line and aids easy steering.

No. 220 Angle bar for 1920-21 model Fords $2.00

Balcrank Stabilizers

This is a new steering help that is attached to the front axle and tie rod of Fords and other light cars. Its heavy coil spring absorbs the wobbly motion of the front wheels and prevents these vibrations from reaching the steering wheel. This relieves drivers of arm strain, making the car itself easier and safer to drive.

The stabilizer is simple in construction, but as dependable as any other part of the car. It can't lock and it is mechanically impossible for it to get off center. It can be put on with a monkey wrench in ten minutes.

Balcrank Stabilizers.....each, $6.75

One in a Box

Radius Rod Anti-Rattlers

Will permanently stop all rattling.

No. 21.....each, $0.50

Steering Rod Anti-Rattlers

The steering rod type has steel spring and adjustable screw.

No. 51 . ...per pair, $0.50

Door Anti-Rattlers

Makes the door rattle proof. Very easily attached. Screws on to door jamb with two screws. Can also be used as window anti-rattlers.

Door Anti-Rattlers .....each, $0.15

Little Giant Steering Rod Anti-Rattlers

These are specially shaped springs which stop the rattling of worn bushings, etc.

Per pair $0.75

Baby Giant Brake Rod Silencers

These little devices weigh only two ounces and will wear forever. They insure safety and silence of brake rod joints and tight brake rod connections.

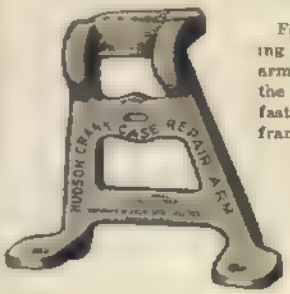
Price per set of 4.....$0.50

Steering Column Braces

As the Ford steering column has no support except four bolts at the dash, the Apco Brace was designed to make the column rigid. Made of malleable iron, black enameled.

No. 42.....each, $1.00

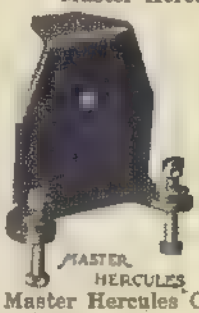
Hudson Crank Case Repair Arms



For use in repairing broken crank case arms. To use, remove the two bolts that fasten the arm to the frame and two in the crank case flange, set the repair arm in place and bolt to the crank case and to the frame.

Each $1.50

Master Hercules Repair Arms



Made of frame steel, strong and durable.

Will fit any model Ford crank case. Guaranteed to stand all legitimate tests.

All necessary bolts and nuts furnished.

Master Hercules Crank Case Repair Arms .....each, $1.25

Gemco Non-Tilting Steering Wheels

For Ford Cars

A high grade 17-inch steering wheel with walnut finished, corrugated rim.

The increased rim leverage makes driving easier and adds to the appearance of the car.

No. 1 Black enameled spider, each, $5.00
No. 5 Nickel plated spider...each, 5.50

Non-Tilting Steering Wheels

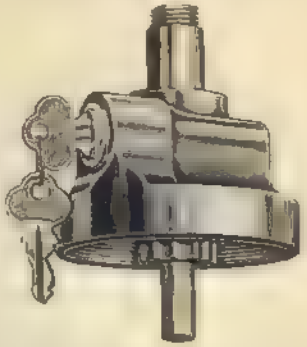
For Chevrolet "490"

A high grade 17-inch steering wheel, with walnut finished rim and non-tilting malleable iron spider

Larger in diameter than regular equipment, making steering easier

Chevrolet "490" steering wheels.... ....each, $6.00

Simplex Locks for Fords



For the steering wheel on all model Ford cars. Light, strong. Made of highly polished aluminum. Holds steering wheel disengaged, spinning, locked secure against theft. Unpickable two-way tumbler lock; hard machine, steel turnbolt will resist even sledge hammer. Die-cast aluminum body, thick walled.

Can be attached by anyone in fifteen minutes.

Complete with two keys.....$6.50

Lyon Front Ford Bumpers

In the Lyon Bumper a strong bracket two feet long is firmly attached under the car, and acts as a lever to rigidly support the bumper and balance it. It will not rattle. Is thirty pounds of the highest quality steel, scientifically constructed into a perfect bumper. The two reinforced spring leaves absorb the shock of a collision at fifteen miles an hour without damage.

No. 8 Front, nickeled.....each, $12.00
No. 58 Rear, nickeled.....each, 14.00

Special Ford Bumpers

Can be quickly attached to any Ford car, being secured by a U bolt passing around the lamp bracket support and a set screw tightened against the frame.

Each

No. 24C Channel bar, 1¾ x 1¼ in., nickel plated $10.60

Hilliard Anti-Shock Springs for Ford Passenger Cars

Aid the original Ford Springs to withstand the road strain, either up or down. A positive rebound check that prevents upthrow either up or down. Positively no side throw. They are neat appearing and easy to install. Have brass bushings in all wearing parts. They do not interfere with the original spring action but absorb the rebound.

Sedan type made of 1-32 in. heavier spring steel than other passenger cars.

Regular Type Hilliard Anti-Shock Springs for touring cars, roadsters and coupes.....per set, $19.50

For Sedans .....per set, 19.50

Hilliard Anti-Shock Springs for One Ton Trucks

Hilliard anti-shock springs for Ford one ton trucks save wear on car, motor and tires, eliminate danger of broken springs, do away with tipping and side sway and interfere in no way with the original spring action.

Easy to install and will give a cushion to relieve shock of 1000 lb. overload.

No coil springs used. Brass bushings on all wearing parts.

Hilliard Ford One Ton Anti-Shock Springs.....per set, $40.00

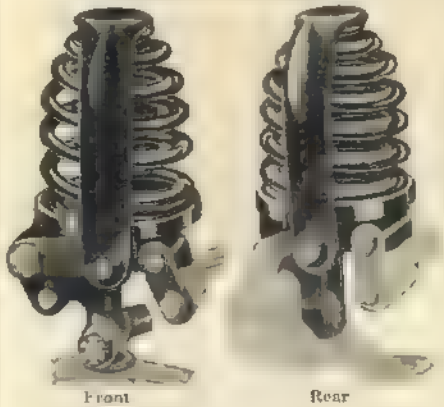
Ford Front License Brackets

These clips hold the license plate below the radiator on the Ford car.

No. 97 Neverout Ford Front Clips .....per pair, $0.30

One Pair in a Box

Halladay Direct Suspension Shock Absorbers for Fords

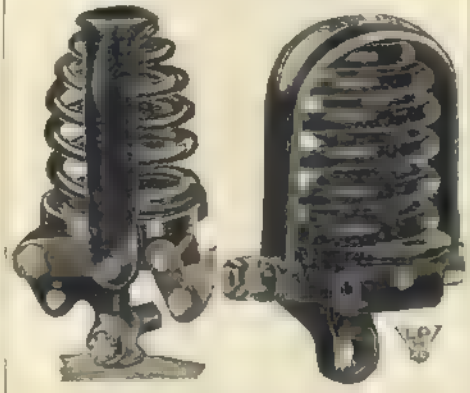


Front Rear

Halladay Shock Absorbers prevent rebound by eliminating the cause. The "beehive" spring is the most resilient and durable possible to make. No frictional bearing to interfere with spring action and no light breakable parts to be lost. Absorbs greater part of up or down movement leaving only a small amount of spring displacement. Save wear on tires, axles and other working parts

Touring Model . . . per set of four, $16.50
Sedan or Light Truck Model . . . . . per set of four, 18.50
Roadster Model . . . . per set of four, 18.50

Halladay Direct Suspension Shock Absorbers for Ford One Ton Trucks



Truck springs are necessarily very rigid to carry the maximum load. To meet this condition the springs used in these shock absorbers are the largest ever used for shock absorber purposes on a truck of this character. They have ample capacity to absorb jolts and jars.

Light loads up to 1000 lb. are carried on the "beehive" shaped outer springs. Large loads are carried on the outer and also the inner supplementary springs assuring easy riding, whatever the load.

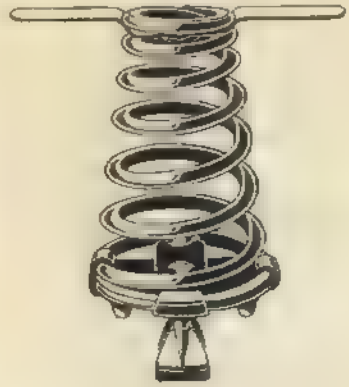
One Ton Truck Model... .. per set of 4, $42.00
One Ton Truck Model .... .. rear only, 24 00

Combination Crank Holder, Lock and License Tag Brackets

Attaches to front spring clips and fitted with a folding prong which holds the crank in a vertical position. Eliminates swinging and rattle. Made of malleable iron, finished in black enamel.

No. 250 Without padlock....each, $1.50

ARG. Auxiliary Springs



Made from the highest grade of spring steel obtainable.

It has a special patented plate at the top which locks under the spring clips, another special plate clamps on the bottom and ties to the axle by a clip.

A combination shock absorber and snubber. Adds long life to front spring.

ARG. Auxiliary Springs.....each, $5.00

Robe Rails

These rails are highly finished and will fit any car.

	Each
No. 19N Nickel plated, black ends, ⅝ in. hollow.....	$1.25

One in a Package

Foot Accelerators

Permits a perfect foot control, independent of steering wheel control. Is applied in 20 minutes without boring holes or marring the car. Is so attached that floor boards can be removed or replaced without interference from the accelerator pedal. Finished in baked ebony enamel.

No. 71.....each, $1.50

Bulldog Foot Accelerators for Fords

The foot rest makes it easy to hold throttle steady. Floor boards can be removed by simply unscrewing button on foot pedal.

Each $1.50

Mufflers for Fords

Especially for Fords. Built of heavy sheet steel. Reduces all exhaust noises to a gentle purr, with the least possible back pressure.

Each

No. 4025 Complete with brackets..$2.00

Apco Ford Mufflers

The Apco Muffler for Ford cars was designed after many years of experimental work.

It is a one-piece cast outfit with a testing valve which acts as an automatic relief in case of a muffler explosion.

The valve when open gives the exhaust free access to the air and a missing cylinder can be detected easily.

The muffler proper is made from a one-piece casting with no bolts, plates, nuts, rivets, etc., to work loose and rattle.

Outfit furnished complete with pedal, chain, screws, etc., ready to attach. Weighs six pounds.

No. 99. . .. . each, $5.00

Taber Combined Cut-Outs and Mufflers for Ford Cars

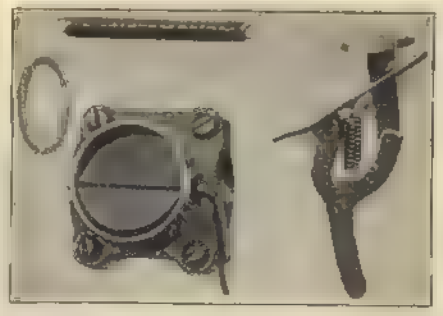
A patented device now in use on thousands of Ford cars throughout the world. It does away with the danger of muffler blow-outs. It minimizes back pressure. It keeps the motor running sweet and clean under all conditions. It does away with carbon. It is mud proof and rattle proof. It helps starting in all kinds of weather and tends to economize on gas consumption.

Outfit complete consists of patented cut-out and muffler, wear proof pedal, strap iron support, tail pipe, 5½ in. coil spring, wire leader and full directions for installation.

Each $5.85

Cut-Out Outfits

For Ford Cars



Consists of a gray iron, solid back valve, locking pedal, locking devices, spring and cable.

Valve is made with a one-piece lever and lever is mounted so that it is parallel with the exhaust pipe, a construction which enables installation without the use of a pulley.

Valves are carefully ground, bored accurately to size and tested for defects before leaving factory.

F1 Ford Cut-Out Outfits....each, $1.25

One Set in a Box

Petry Cut-Out Outfits

For Ford Cars

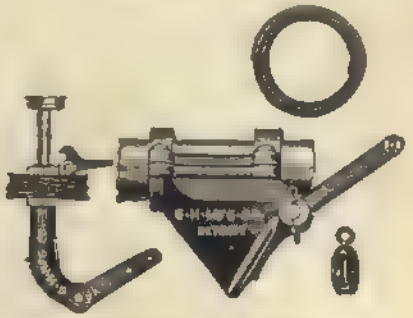
Special 1½ in. complete with chain and pedal.

Petry Cut-Out Outfit for Fords....$4.50

One Set in a Box

Gray-Hawley Muffler Cut-Out Outfits

Special Ford Outfit



Puts Pep in Your Motor

Saves muffler in case of backfire.

Neatly designed, best material and accurately machined to be instantly attached without any fitting. Entirely different from the cheap outfits usually offered for Ford cars. It's up to the Gray-Hawley standard in every way.

Gray-Hawley Cut-Out Outfit for Fords $2.00

One Set in a Box

Jiffy Crank Holders

A heavy spring which hooks over the lamp bracket on one end and holds the starting crank on the other end. Does away with all rattling of the starting crank. Baked on glossy black japan finish.

Each $0.25

Ford Fan and Pulley Assemblies

Made of pressed steel blades on a malleable iron hub, with high grade bronze bushings.

Each

No. 3960...$1.50

Juelson Ford Fans

The Juelson fan is well built, being made from highest quality material. Has a cone-shaped hub which protects the bushings against dirt. The blades and bushings are instantly detachable.

It is so constructed that the air currents are directed and driven over all of the surfaces of all of the cylinders.

The two-bladed design concentrates all the air currents on the vital parts of your engine. It is so well balanced that very little power is required to turn the fan. Vibration and fan noises are entirely eliminated. It can be easily attached and is furnished complete with all necessary attachments.

Each

Juelson Ford Fan.....$1.60

One in a Carton

Federal Fan Belts

Federal fan belts are made up of multiple plies of specially treated fabric, impervious to oil and grease. They are practically unstretchable and are very durable. They will outlast the ordinary belts supplied for the purpose.

They are very economical and will be a great saving to the Ford owner.

No.	Model of Car	Each
1	Ford 1910-1916	$0.50
2	Ford 1917-1920	.55
42	Ford 1921 starter models	.60
20	Fordson Tractor	1.50

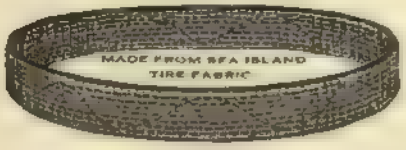
Securely Packed, Five Belts in a Carton

Old Hickory Cord Belts

Made endless of Sea Island tire fabric impregnated with a special compound, making belts impervious to oil and water.

		Each
No. 32	For 1911 to 1916 Ford cars	$0.40
No. 33	For 1917 to 1920 Ford cars	.40
No. 13	For 1921 Ford cars	.55

Old Hickory Fordson Tractor Belts



Made from Sea Island tire fabric, four ply with strong linen thread and treated with a chemical preservative which makes them strong and durable.

No. 218 Fordson Tractor Belts .. each, $1.70

Fan Belts

Best oak tanned belting leather, all stretch removed, lap stitched and cemented. Specially treated to withstand the action of heat and water.

		Each
No. 3	For Fords up to 1916 incl.,	$0.45
No. 37	For 1917-1920 models	.50
No. 1921	For 1921 models	.60

Fan Belt Guides

A new Apco guide. Is made of two pieces of steel and is attached to a square bolt as shown.

No. 36 Fan Belt Guide.....each, $0.25

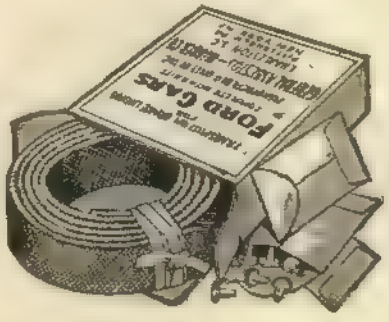
One in a Box, Weight 2 Oz.

White Stripe Transmission Lining For Ford Cars

Does not harden under the action of hot oil and friction. But keeps soft and pliable—and thus presents an ideal braking surface to the drum of the Ford through a long service.

White Stripe. Per set of 3 linings .$2.25

Garco Transmission Linings



Built to give long, efficient and satisfactory service on Ford cars. Garco Transmission Lining is woven of a high grade material and contains no wire. Cannot short circuit the Ford magneto—is not affected by oil. Sets for Ford cars consist of three pieces of lining 23½ in. long by 1⅛ in. wide by ⅛ in. thick. Packed in boxes with rivets needed for applying.

Garco. Per set of three.....$2.00

Raybestos Transmission Linings

Raybestos lining for Ford transmission is made without the wire insert to preclude the possibility of short circuiting the magneto. One set of three pieces 23x1¼x⅛ in., in a box with rivets

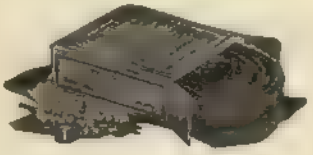
Raybestos. Per set of three.. . . $2.25

Advance Cork Insert Transmission Linings

These linings are made of best transmission fabric into which circular pieces of cork are inserted. The surfaces of the corks protrude slightly. The corks never become smooth or glassy, and will outlast three ordinary linings.

Advance. Per set of three.. . . $3.50

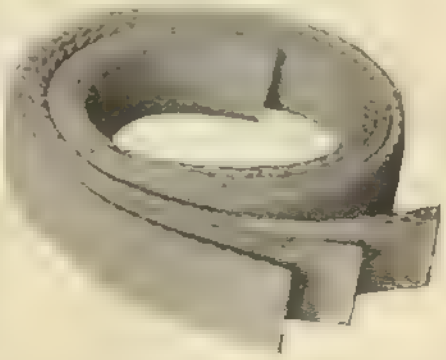
Chatterless Transmission Linings



Boxes contain three pieces of lining 23 in. long, 1⅛ in. wide and ⅛ in. thick, with sufficient rivets for attachment.

Chatterless. Per set of three.. ..... .$1.25

Standard Transmission Linings



The same lining as furnished as standard equipment.

Made of tightly woven twill weave fabric 1⅛ x ⅛ in. in strips 23½ in. long to fit Ford car. Plain white. No rivets furnished with this set.

Standard Transmission Lining in sets of 3 strips.....per set, $0.75
50 or 100 ft. rolls.. . . per ft. .12½

Apco Ford Transmission Tools

For holding transmission bands together while assembling.

Clamp holds bands in perfect alignment. Wrench drop forged and milled to correct size. Finished in black enamel.

No. 123.....each, $0.75

Brake Shoes

Gray iron, one piece. Interchangeable with regular Ford shoes.

Each

No. 2566 With springs.....$0.40

2 in 1 Copper Gaskets

For Ford intake and exhaust manifolds, replaces Ford parts No. 3068 and No. 3064.

2 in 1 Manifold Gaskets...per 100, $5.85

Split Brass Rivets

Put Up in Boxes

Style A—For Ford Transmission Bands

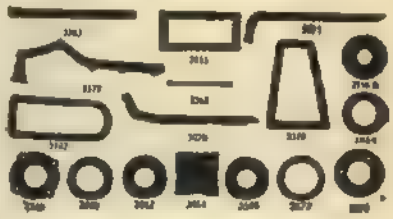
[illegible] in. 100 in a box, per doz. boxes . . $.
[illegible] in. 100 in a box, per doz. boxes . . .
[illegible] in., 100 in a box, per doz. boxes . . .

One Dozen Boxes in a Carton

Cork Gaskets for Fords

Cork Gaskets for Ford cars in complete sets .....per set, $1.00

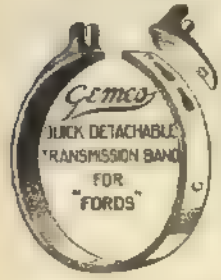
Felt Washers



Are made of good quality pressed felt and are the correct sizes for their respective places on Ford cars. Numbers given correspond to same parts in Ford part lists.

No.	Name	Number for Car	Per 100
3363	Trans. cover gasket, front, 15½ in. long	1	$5.00
3111B	Cylinder valve cover gasket	2	5.00
3451	Controller shaft bracket gasket	1	1.00
2580	Universal ball cap gasket	1	5.00
3279	Magneto contact washer	1	3.00
3177	Commutator ring	1	3.00
2510B	Axle outer roller bearing washer	2	5.00
2809	Front and rear hub washer	2	5.00
3012	Cylinder cover felt	1	5.00
3544	Steering post bracket washer	1	3.00
3377B	Trans. cover gasket	1 Pr	15.00
3070B	Crank case and cylinder (left)	1	10.00
3071	Crank case and cylinder (right)	1	10.00
3102B	Crank case lower cover	1	10.00
3379B	Trans. cover sloping door gasket	1	10.00

Q. D. Ford Transmission Bands



This band can be placed in about 30 minutes, whereas it formerly required at least 5 hours to renew either the transmission or brake linings.

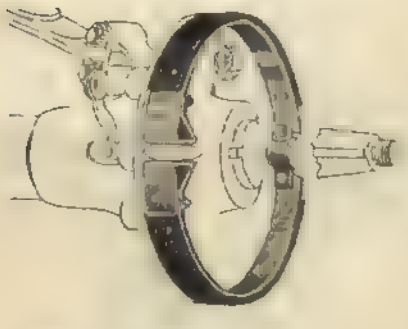
No. 220 Weight 1½ lbs., each $1.90

One in a Carton; Ten in a Box

Cork Washers and Gaskets for Fords

Pressed Steel Brake Shoes

For Ford Cars



Made in one piece, from the best grade of steel, uniformly perfect. Cannot break—slip—or warp, and lining can be replaced in a few minutes when worn. Will last 10,000 to 25,000 miles on the original set of lining. Fits all Fords, 1909 to 1920. Each set packed in individual box.

No. 1260 Per set of two.....$2.50

Sold in Box Lots Only

No.	Name of Gasket and Number Required Per Car	Gaskets Per Box	Per Box
2510B	Axle outer roller bearing washer (2)	20	$0.80
2580	Universal ball cap gasket (1)	10	.50
3070B	Crank case and cylinder gasket, right (1)	10	1.50
3071B	Crank case and cylinder gasket, left (1)	10	1.50
3102B	Crank case lower cover gasket (1)	10	1.50
3111B	Cylinder valve cover gasket (2)	20	1.00
3279	Magneto contact washer (1)	10	.30
3363	Short Transmission cover strip (1)	10	.20
3363	Long Transmission cover strip (1)	10	.20
3377B	Transmission cover gasket (2)	20	2.00
3379B	Transmission cover, sloping door gasket (1)	10	1.50
3381	Bendex cover gasket	10	1.50
5056	Motor mounting gasket	10	1.50

Felt Washers in Sets

Set of 20

Carton contains one complete set of 20 felt washers as used on Ford cars .....per carton, $0.50

Set of 6

Carton contains 6 felt washers for wheels, crankshaft and steering bracket .....per carton, $0.20

Laminated Shims for Ford Cars

No. 1 Crankshaft Rear Bearing

1/32 in. thick.....each, $0.13
1/64 in. thick.....each, .08

No. 2 Crankshaft Front and Center Bearing

1/32 in. thick.....each, $0.09
1/64 in. thick.....each, .06

No. 4 Connecting Rod

1/32 in. thick.....each, $0.06
1/64 in. thick.....each, .05

Twenty-five in a Package

Cylinder Head Gaskets
For Ford Cars

Our Ford Cylinder Head Gaskets are made of soft Lake Superior copper and highest grade asbestos. They combine strength of metal and elasticity of packing, holding tight where nothing else will.

No. 3002 Cylinder Head Gaskets.. .....each, $0.50

Shurnuff Grease Retainers

Consists of four specially treated felt washers, a cold drawn steel cap, and a retainer washer. When placed in the axle the grease from the axle housing is prevented from getting into the brake drums and leaking at the drum housing.

Per pair...$0.50

Grease Cups

These are high grade compression cups made especially for Ford cars.

No. 101 1/8 I. P. thread, 1/4 oz. capacity, brass .....each, $0.25

No. 104 1/8 in. I. P. thread, 1/2 oz. capacity, brass .....each, .35

Adjustable Windshields

A high grade complete windshield for Ford cars, ready to attach. It has the rain vision and ventilating features which add to safety and comfort while driving. Polished plate glass with ground edges and rubber strips in lower frame seals space between bottom of shield and cowl when closed. Black enamel finish baked on.

No. Z17 For 1915 to 1920 Ford cars without starter.....each, $21.00

No. 170 Windshield without lamp brackets for 1919 to 1921 starter equipped Ford cars.....each, 21.00

Windshield Glass

1/4 Inch Crystal Sheets

Size In.	Description	Each
10 x 38	Top Ford Windshield Glass	$....
12 x 38	Bottom Windshield Glass	....

When sold in unit packages of 3 top and 3 bottom glasses to box, the following prices will apply:

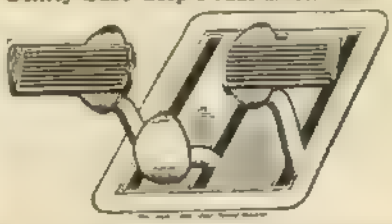
10 x 38 Top glass .....$....
12 x 38 Bottom glass .....

Windshield Weatherstrips

Made especially to fit offset windshield on Ford car. Comes in 37 in. lengths; packed twelve lengths to a box. Keeps out rain and snow.

No. 109 Each $0.60

Utility Sure-Grip Pedal Extensions



Make the Ford pedals standard size. Made of high grade pressed steel with heavy rubber pads, will last as long as the car itself

Utility Sure-Grip Pedal Extensions . per set, $1.25

Neverslip Pedal Pads

The pedal pads are made of the highest grade of rubber obtainable. They have a corrugated surface which absolutely prevents the foot from slipping. They fit all Ford cars.

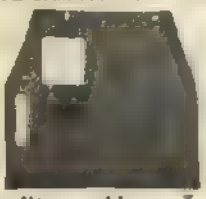
Neverslip Pads .....per set of 3, $0.60

Anti-Draft Pedal Pads for Fords

Keeps the cold air from coming in through space around brake lever and foot pedal.

No. 601 Anti-Draft Pedal Mat . per set, $0.60

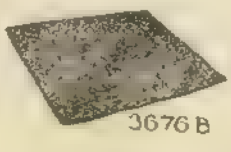
Ford Rubber Floor Mats



Best quality rubber. In ordering, always specify year and car mat is intended for.

		Each
No. 3624E	For 1915-20 Models	$1.75
No. 403	For 1920-21 Starter Models	2.00

Tonneau Mats for Ford Cars



Exact duplicate of regular tonneau mat as supplied with Ford cars.

	Each
No. 3676B	$2.00

LAWN MOWERS

—BLUE GRASS—

Ball-Bearing. High Grass. Double Gear.

Drive Wheels 11 Inches Diameter, Cutter 6 Inches Diameter.

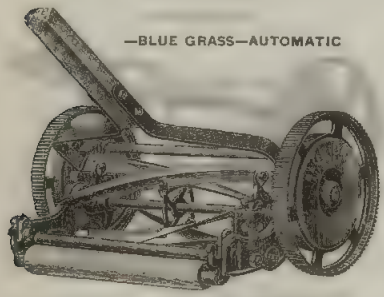
Extra long wheel base causing mower to run smoothly and cut easier over rough ground. Five heavy revolving cutter blades of extra heavy crucible cast steel. Stationary blade made of Disston crucible cast saw steel tempered in oil. Stationary knife bar is pivoted on steel cones. Highest quality dust proof cone and steel balls. Patented ball retainer. Center adjustment of stationary knife bar. By loosing jamb nut and running down screw, stationary blade can be raised at center to revolving cutter independent of the ends. Ball-bearing parts. Ball bearing cones and cups guaranteed never to wear out or require replacing.

Furnished in red and gold, varnished hardwood handle.

Nos.	4714	4716	4718	4720
Width cut, inches	14	16	18	20
Weight each, boxed, lbs	55	58	61	63
Each	$34 05	36 00	38 25	40 05

One in a wood box, handle loose.

—BLUE GRASS—AUTOMATIC



Ball-Bearing, High Grass, Drive Wheels 10 inches Diameter, Revolving Cutter 6 Inches Diameter.

Simplicity, durability and self-sharpening, no screws or bolts to adjust or rust, without complications, the only adjustment necessary is made with finger and thumb.

Extra long wheel base; four revolving cutter blades made of crucible steel, equipped with ball-bearings, that will never wear or require adjusting. Silent in operation, adjustable throughout; stationary knife bar pivoted on steel cones. No pressed cups used, cups and cones made of solid cone steel, ground perfect, best quality steel balls.

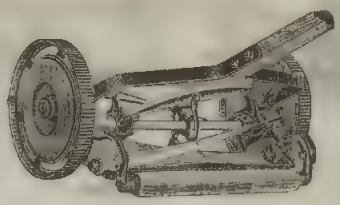
Finished in gold and carmine, varnished hardwood handle

Nos.	25-14	25-16	25-18	25-20
Width, cut, inches	14	16	18	20
Weight each boxed, lbs	55	58	61	63
Each	$34 05	36 00	38 25	40 05

One in a wood box, handle loose.

LAWN MOWERS

—BLUE GRASS—



Ball-Bearing.

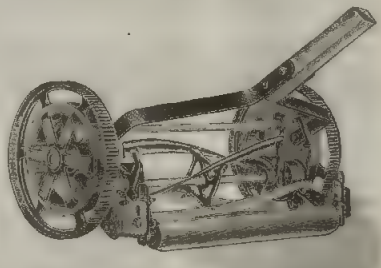
High wheel 10 inches, cutter 6 inches diameter, four revolving crucible cast steel cutter blades, bed knife of saw steel, cups, balls and cones ground perfect and are dust proof, ball bearing, silent in operation.

Finished in blue, silver and gold; varnished hardwood handle. Same ratchet as on ball-bearing high grass lawn mowers.

Nos.	1900-14	1900-16	1900-18	1900-20
Width cut, inches	14	16	18	20
Weight each boxed, lbs	48	50	53	58
Each	$30 00	31 20	32 55	34 80

One in a wood box, handle loose.

—BLUE GRASS—



Ball-Bearing, High Grass, Drive Wheels 10 Inches Diameter, Revolving Cutter 6 Inches Diameter.

Crucible spring steel ball-pivoted bed-knife; all shafting full ⅝ inch diameter; cones and cups will never wear or require adjustment and are made of solid cone steel; ground perfect; dust proof; adjustable throughout; silent in operation; best quality steel balls; patented ball retainer; steel wheel bearings; hardwood roller.

Finished in red, gold and silver; varnished hardwood handle.

Nos.	35-14	35-16	35-18
Width cut, inches	14	16	18
Weight each boxed, lbs	48	50	53
Each	$28 50	30 00	31 50

One in a wood box, handle loose.

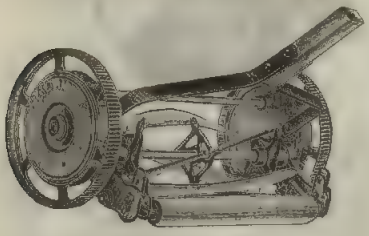
LAWN MOWERS

—BLUE RIBBON—

Full ⅝ inch diameter revolving cutter shaft used, making a very stiff revolving cutter, other manufacturers use ½ to 5/16 inch and the reel is easily knocked out of shape, leaving the grass ragged.

Stationary blades are made from crucible cast saw steel, and tempered in oil.

All revolving blades are made from crucible cast steel.



Plain Bearing.

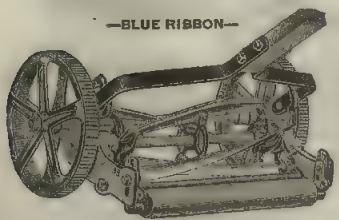
High wheel 10 inches; four revolving crucible steel blades; stationary knife bar pivoted on steel cones; heavy shafting high speed; light running; thoroughly adjustable; continuous cut; self sharpening; heavy long phosphor bronze journal bearings; saw-steel bed knife; hardwood roller; grass catcher attachment.

Finished in green, red and gold; varnished hardwood handle.

Nos.	1905A-14	1905A-16	1905A-18
Width cut, inches	14	16	18
Weight each boxed, lbs.	47	49	53
Each	$24 45	26 25	27 45

One in a wood box, handle loose.

—BLUE RIBBON—



Ball-Bearing, With Set Screw Adjustment.

High wheel 9 inches, cutter 5½ inches diameter, four revolving crucible steel blades, open wheels, solid steel cones and cups, dust proof, adjustable ball-bearing, silent in operation.

Finished in silver and gold, varnished hardwood handle.

Nos.	1909A-12	1909A-14	1909A-16	1909A-18
Width cut, inches	12	14	16	18
Wt. each boxed, lbs.	37	39	40	43
Each	$23 25	24 00	25 20	25 95

One in a wood box, handle loose.

LAWN MOWERS

—BLUE RIBBON—

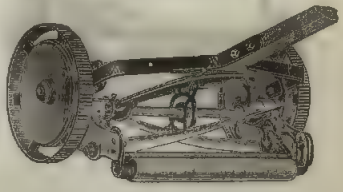
Plain Bearing, With Set Screw Adjustment.

High wheel 10 inches, cutter 5½ inches diameter. Four high quality tool steel, oil tempered revolving blades. Ball pivoted spring steel bed knife. The best plain bearing mower ever offered. Open spokes in wheel and side plates. High speed, adjustable throughout; silent in operation. All shafting full ⅝ inch in diameter. Finished in aluminum and gold.

Nos.	1913A-14	1913A-16	1913A-18
Width cut, in.	14	16	18
Weight each boxed, lbs.	43	45	47
Each	$19 80	20 70	21 75

One in a wood box, handle loose.

—CYCLONE—



Plain Bearing, With Set Screw Adjustment.

Low wheel, 8 inches, cutter 5½ inches in diameter, three revolving steel blades, spring steel bed knife, the best cheap mower on the market, well made, perfect in action.

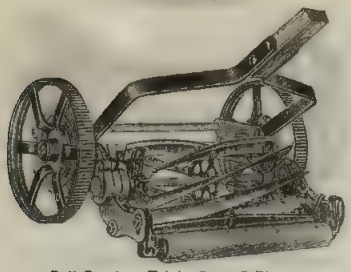
Finished in red and silver with gold stripe.

Nos.	C400A-12	C400A-14	C400A-16	C400A-18
Width cut, inches	12	14	16	18
Wt. each boxed, lbs.	37	39	40	43
Each	$15 45	16 50	17 25	18 45

One in a wood box, handle loose.

LAWN MOWERS

GOLF KING



Ball-Bearing; Triple Gear; 7 Blades.

All blades crucible cast steel; patented adjustment for center of stationary knife as well as each end; drives from both ends; noiseless and light running; all friction reduced to a minimum; spoked wheels; seven revolving blades; stationary knife-bar mounted on steel cones; all blades tempered in oil; four complete sets of ball-bearings; patented ball retainer; ball-bearing cups and cones, will never wear or require adjustment; hardwood roller; special arrangement of handle for terrace cutting.

Diameter wheels, 10 inches; diameter cutter 6 inches. Finished in blue, silver and gold; varnished hardwood handle.

Nos.	7-14	7-16	7-18	7-20
Width cut, inches	14	16	18	20
Weight each boxed, lbs.	60	65	70	75
Each	✚$52 50	56 25	60 00	✚63 00

One in a wood box, handle loose.

RICHMOND, PONY

Ball-Bearing.

A Splendid Mower for Large Lawns.

The lower straight blade in this mower is of the laid steel pattern, very heavy; guaranteed the very best blade in use. The singletree, or pull, is so arranged that it will draw from either end of the mower, so pony can walk on cut grass. Mower can be used by one man in ordinary grass; the draft attachment can be removed without trouble; light running and durable.

Finished in gold bronze and emerald green enamel with red trimmings.

No.	31
Width, cut, inches	31
Weight each, lbs.	80
Each	$118 50

Crated.

✚F. O. B. Indiana Factory Only.

LAWN MOWERS

TOWNSEND'S, HORSE

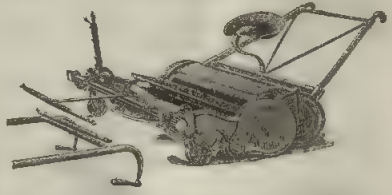
Fitted with triple rolls, having triple pawls in each roll, making the most powerful and instantaneous driving mechanism ever put into a mower; this feature maintains the motion of blades even in turning sharp corners, where in other mowers the blades remain stationary. It will cut over rough and uneven ground, and cuts its swath clean, easily and smoothly. Instant change of height of cut can be made.

Finished in light blue with gold bronze trimmings; furnished with tool box, seat, handles, shafts and side bar attachments.

Nos.	10	12	15
Width cut, inches	30	35	38
Wt. each crated, lbs.	550	600	650
Each	✚$337 50	✚357 00	✚375 00

Crated.

RICHMOND, HORSE



The frame construction is reinforced at each end with heavy steel bars. All parts are accurately machined and fitted. Equipped with graduated raising and lowering device.

Both the bottom knife and the reel are demountable without disturbing the frame of the mower. Reel bearings turn in adjustable split brass bushings. Four revolving blades, 1/16 inch in thickness are made of the best knife steel obtainable, vanadium-crucible analysis oil tempered. Double riveted malleable reel braces throughout.

Fitted with train of three gears and durable triple pawl ratchets. Diameter of drive rollers 15 inches. Reel is 8 inches in diameter and is quickly adjusted to the stationary or bottom knife. The adjusting screws are easily accessible.

Finished in bright green and red with gold bronze trimmings. Fully equipped with seat, shafts and side-draft attachments.

Nos.	30R	35R	40R
Width, cut, inches	30	35	40
Wt. each crated, lbs.	740	790	840
Each	✚$360 00	✚420 00	✚471 00

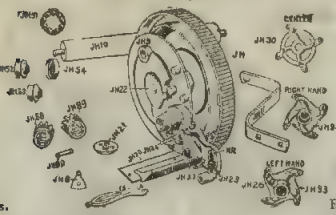
Crated.

✚Townsend, F. O. B. New Jersey Factory.

✚Richmond, F. O. B. Indiana Factory Only.

REPAIRS FOR LAWN MOWERS

BLUE GRASS, No. 35



Nos.		Each
JH	Drive wheel, both alike	✚$2 31
NR	R. H. roller bracket	✚ 39
NL	L. H. roller bracket	✚ 39
JH3	R. H. side plate	✚ 4 05
JH2	L. H. side plate	✚ 4 05
JH6	Pinion cap	✚ 54
1906	Straight bar knife—	
	14-in	✚ 2 04
	16-in	✚ 2 31
	18-in	✚ 2 58
	20-in	✚ 2 85
JH20	Straight knife—	
	14-in	✚ 1 50
	16-in	✚ 1 62
	18-in	✚ 1 77
	20-in	✚ 1 89
JH300	Spiral cutter-complete—	
	14-in	✚14 85
	16-in	✚16 20
	18-in	✚17 55
	20-in	✚18 90
JH9	Spiral cutter blades—	
	14-in	✚ 1 50
	16-in	✚ 1 62
	18-in	✚ 1 77
	20-in	✚ 1 89
JH10	Wood roller—	
	14-in	✚ 1 50
	16-in	✚ 1 77
	18-in	✚ 2 04
	20-in	✚ 2 16
JH11	Handle irons, both alike—	
	14-in	✚ 96
	16-in	✚ 96
	18-in	✚ 1 08
	20-in	✚ 1 20
JH88	R. H. pinion	✚ 1 08
JH89	L. H. pinion	✚ 1 08
JH90	Double ratchet pin	✚ 24
15	Wrench	✚ 24
JH18	Pinion cap bolt	✚ 30
JH22	Drive wheel bolt	✚ 30
JH25	Pointed screw for R. H. cone	✚ 30
JH25	¼ Pointed screws for L. H. cone	✚ 30
JH21	Drive wheel washer	✚ 24
JH23	Roller bracket bolt	✚ 30
JH24	Bolt for handle iron	✚ 30
JH33	Bolts for knife bar	✚ 30
JH34	Adj. screws for knife bar	✚ 30
JH26	Set screw for spider	✚ 30
JH93	Left-hand spider	✚ 1 35
JH94	Right-hand spider	✚ 1 35
JH30	Center spider	✚ 69
JH50	Wood handle, complete	✚ 2 70
JH51	Ball retainer and balls	✚ 81
JH52	Right-hand BB cone	✚ 1 35
JH53	Left-hand BB cone	✚ 1 35
JH54	Ball-bearing cups	✚ 69
JH55	Cone for knife bar	✚ 30
JH56	Screws for lower blade	✚ 24

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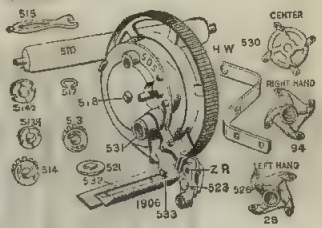
REPAIRS FOR LAWN MOWERS

BLUE RIBBON, No. 1905A.



Nos.		Each
HW500	Drive wheel, both alike	✚$2 70
531	Phosphor bronze jrnl. bearings, both alike	✚ 1 35
ZR	Roller bracket, right hand	✚ 45
ZL	Roller bracket, left hand	✚ 45
505	R. H. side plate	✚ 4 05
504	L. H. side plate	✚ 4 05
1906	Straight knife bar—	
	14-in	✚ 2 04
	16-in	✚ 2 31
	18-in	✚ 2 55
	20-in	✚ 2 85
532	Straight knife—	
	14-in	✚ 1 50
	16-in	✚ 1 62
	18-in	✚ 1 77
	20-in	✚ 1 89
508	Spiral cutter, complete—	
	14-in	✚14 85
	16-in	✚16 20
	18-in	✚17 55
	20-in	✚18 90
509	Spiral cutter blades, each—	
	14-in	✚ 1 50
	16-in	✚ 1 62
	18-in	✚ 1 77
	20-in	✚ 1 89
510	Wood roller—	
	14-in	✚ 1 50
	16-in	✚ 1 77
	18-in	✚ 2 04
	20-in	✚ 2 16
511	Handle irons, both alike—	
	14 in	✚ 96
	16-in	✚ 96
	18-in	✚ 1 08
	20-in	✚ 1 20
89	L. H. pinion	✚ 1 35
88	R. H. pinion	✚ 1 35
90	Double ratchet pin	✚ 24
515	Wrench	✚ 24
518	Drive wheel bolt	✚ 30
520	Set screw and nut for journal box	✚ 30
521	Drive wheel washer	✚ 24
523	Roller bracket bolt	✚ 30
524	Bolt for handle iron	✚ 30
533	Bolt for end of straight knife bar	✚ 30
526	Set screw for spider	✚ 30
28	Left hand spider	✚ 1 35
94	Right hand spider	✚ 1 35
530	Center spider	✚ 69
550	Wood handle, complete	✚ 2 70
555	Shaft collar	✚ 30
556	Lower blade screws	✚ 24
557	Adjusting screw for knife bar	✚ 30

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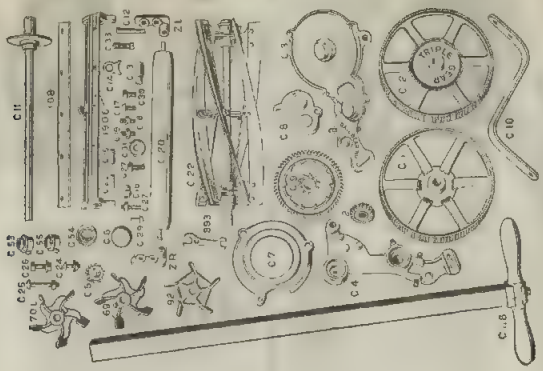
REPAIRS FOR LAWN MOWERS

—BLUE GRASS—1890 MODEL



Nos.		Each
C1X	Wheel	✣$4 05
C1	Wheel, L. H	✣ 4 05
C2	Wheel, R. H	✣ 4 05
2	Intermediate gear	✣ 1 25
C3	Side plate, L. H	✣ 8 10
C4	Side plate, R. H	✣ 6 75
C5	Pinion	✣ 1 08
C6	Washer for B. B. cup	✣ 24
C7	Outside cap for master gear	✣ 2 04
C8	Shield	✣ 1 08
C9	Master gear	✣ 2 70
C10	Handle irons—	
	Inch 14 16 18 20	
	Each ✣$1 08 ✣1 05 ✣1 62 ✣1 89	
C11	Ratchet plate shaft	✣$4 05
C12	Pin for ratchet plate	✣ 54
C13	Shoulder stud for No. 2 gear	✣ [illegible]
C14	Ratchet	✣ 30
C15	Wheel shaft pin	✣ 24
C16	Knife bar end cone	✣ 45
C17	Lower blade screw	✣ 24
C18	Adj. screw and nut for B. B. cup	✣ 30
C19	Jamb screw and nut for B. B. cup	✣ 30
C20	Wood roller—	
	Inch 14 16 18 20	
	Each ✣$1 62 ✣1 89 ✣2 16 ✣2 43	
C22	Reel complete with five knives—	
	Inch 14 16 18 20	
	Each ✣$13 50 ✣14 85 ✣16 20 ✣17 85	

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Nos.		Each
C23	Pin for pinion	✣$0 24
C24	Roller bracket bolt	✣ 30
C25	Handle iron bolt	✣ 45
C26	Bolt, nut and washer for end of knife bar	✣ 45
C27	Cone screw cup point	✣ 30
C28	Adjusting screw for center of knife bar	✣ 30
C29	Rivet for spider	✣ 18
C30	Spider set screw	✣ 30
C31	Wheel washer	✣ 24
C33	Adjusting screw for knife bar	✣ 30
C32	Ball retainer and balls	✣ 60
C33	Cone for reel, both alike	✣ 1 35
C34	Ball-bearing cup	✣ 1 35
C35	Wheel cones, both alike	✣ 1 35
C9	R. H. five arm spider	✣ 2 70
70	L. H. five arm spider	✣ 2 70
82	Center five arm spider	✣ 1 35
108	Lower blade—	
	Inch 14 16 18 20	
	Each ✣$1 62 ✣1 89 ✣2 16 ✣2 43	
1906	Knife bar—	
	Inch 14 16 18 20	
	Each ✣$3 51 ✣3 78 ✣4 05 ✣4 32	
		Each
C118	Wood handle	✣$2 70
ZR	R. H. roller bracket	✣ 42
ZL	L. H. roller bracket	✣ 42
1983	Wrench	✣ 30

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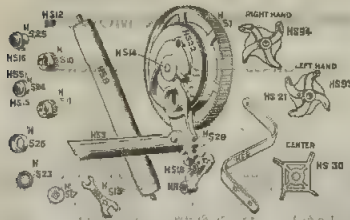
REPAIRS FOR LAWN MOWERS

—BLUE GRASS—

FOR Nos. 4714, 4716, 4718 AND 4720.



Nos.		Each
HS1	Drive Wheel, both alike	+$2 70
NR	R. H. Roller Bracket	+ 45
NL	L. H. Roller Bracket	+ 45
HS22	R. H. Side Plate	+ 4 05
HS33	L. H. Side Plate	+ 4 05
HS4	Straight Knife Bar	
	14-inch	+ 2 04
	16-inch	+ 2 31
	18-inch	+ 2 58
	20 inch	+ 2 85
HS5	Straight Knife —	
	14-inch	+ 1 50
	16-inch	+ 1 62
	18 inch	+ 1 77
	20-inch	+ 1 89
HS6	Spiral Cutter, complete—	
	14-inch	+14 85
	16-inch	+16 20
	18 inch	+17 55
	20 inch	+18 90
HS7	Spiral Cutter Blades, each—	
	14-inch	+ 1 50
	16-inch	+ 1 62
	18 inch	+ 1 77
	20-inch	+ 1 89
HS8	Wood Roller	
	14-inch	+ 1 50
	16-inch	+ 1 77
	18-inch	+ 2 04
	20 inch	+ 2 18
HS9	Handle Irons, both alike—	
	14 inch	+ 96
	16-inch	+ 96
	18-inch	+ 1 08
	20 inch	+ 1 20
HS10	L. H. Pinion	+ 1 35
HS11	R. H. Pinion	+ 1 35
HS12	Double Ratchet Pin	+ 24
HS13	Wrench	+ 24
HS14	Drive Wheel Bolt	+ 30
HS15	Pointed Screw for R. H. Cone	+ 30
HS16	Cup-pointed Screw for L. H. Cone	+ 30
HS17	Drive Wheel Washer	+ 24
HS18	Roller Bracket Bolt	+ 30
HS19	Bolt for Handle Iron	+ 30
HS20	Screw for Lower Blade	+ 24
HS21	Set Screw for Spider	+ 30
HS93	Left Hand Spider	+ 1 35
HS94	Right Hand Spider	+ 1 35
HS30	Center Spider	+ 69
HS29	Wood Handle, complete	+ 2 70
HS23	Ball Retainer and Ball	+ 81
HS24	Right Hand BB Cone	+ 1 35
HS25	Left Hand BB Cone	+ 1 35
HS26	Ball Bearing Cups	+ 69
HS28	Adjusting Screw to Knife Bar	+ 30

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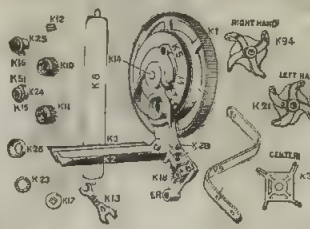
REPAIRS FOR LAWN MOWERS

—BLUE GRASS—

FOR No. 25 BLUE GRASS AUTOMATIC MOWER



Nos.		Each
K1	Drive Wheel, both alike	+$2 85
RR	R. H. Roller Bracket	+ 45
LL	L. H. Roller Bracket	+ 45
K4	L. H. Side Plate	+ 4 20
K5	R. H. Side Plate	+ 4 20
K2	Straight Knife Bar—	
	Inch 14 16 18 20	
	Each +$3 60 +4 20 +4 80 +5 55	
K3	Straight Knife—	
	Inch 14 16 18 20	
	Each +$1 56 +1 68 +1 86 +1 95	
K6	Spiral Cutter Complete—	
	Inch 14 16 18 20	
	Each +$15 45 +16 80 +18 00 +19 50	
K7	Spiral Cutter Blades, each—	
	Inch 14 16 18 20	
	Each +$1 56 +1 65 +1 86 +1 95	
K8	Wood Roller—	
	Inch 14 16 18 20	
	Each +$1 56 +1 86 +2 10 +2 25	
K9	Handle Irons, both alike—	
	Inch 14 16 18 20	
	Each +$0 99 +99 +1 11 +1 29	
K10	L. H. Pinion	+$1 41
K11	R. H. Pinion	+ 1 41
K12	Double Ratchet Pin	+ 24
K13	Wrench	+ 24
K14	Drive Wheel Bolt	+ 30
K15	Pointed Screw for R. H. Cone	+ 30
K16	Cup-pointed Screw for L. H. Cone	+ 30
K17	Drive Wheel Washer	+ 24
K18	Roller Bracket Bolt	+ 30
K19	Bolt for Handle Iron	+ 30
K20	Screw for Lower Blade	+ 24
K21	Set Screw for Spider	+ 36
K93	Left Hand Spider	+ 1 41
K94	Right Hand Spider	+ 1 41
K30	Center Spider	+ 72
K22	Wood Handle	+ 2 85
K23	Ball Retainer and Ball	+ 84
K24	Right Hand BB Cone	+ 1 41
K25	Left Hand BB Cone	+ 1 41
K26	Ball Bearing Cups	+ 72
K27	Cone pointed Headless Set Screw for End of Knife Bar	+ 36
K28	⅜x2" inch Screw or Adjusting	+ 36
K29	Hexagon Nut for Set Screw on End of Knife Bar	+ 24
K31	Cone for End of Knife Bar	+ 36
K32	Brass Eccentric for Knife Bar	+ 2 10
K33	Machine Screw for Eccentric	+ 24
K34	Taper Pin for Cross Rod	+ 24
K35	Taumo Nut for Adjusting	+ 36

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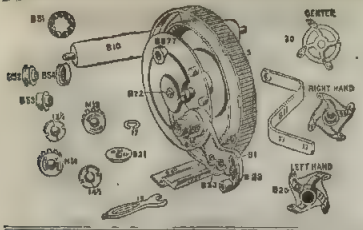

REPAIRS FOR LAWN MOWERS

—BLUE GRASS— AND —BLUE RIBBON—

	Blue Grass 1900 Model		Blue Ribbon 1904 Model		Blue Ribbon 1905 Model		Blue Ribbon 1907 Model		Blue Ribbon 1909 Model	
	No.	Each	No.	Each	No.	Each	No.	Each	No.	Each
Drive wheel, both alike	5	+$2 70	02	+$2 31	HW01	+$2 70	BBHW	+$2 70	XX	+$2 31
Right hand roller bracket	B	+ 45	NW4R	+ 45	HR	+ 45	HR	+ 45	WR	+ 45
Left hand roller bracket	B1	+ 45	NW4L	+ 45	HL	+ 45	HL	+ 45	WL	+ 45
Left hand pinion	B89LH	+ 1 35	NW13	+ 81	HW13	+ 1 35	HW13	+ 1 35	XX89	+ 81
Right hand pinion	B88RH	+ 1 35	NW14	+ 81	HW14	+ 1 35	HW14	+ 1 35	XX88	+ 81
Double ratchet pin	B90	+ 24								
Right hand ratchet clutch			NW13½	+ 45	HW13½	+ 69	HW13½	+ 69		
Left hand ratchet clutch			NW14½	+ 45	HW14½	+ 69	HW14½	+ 69		
Wrench	15	+ 24	NW15	+ 24	HW15	+ 24	HW15	+ 24	XX15	+ 24
Grinding wire	17	+ 24	NW17	+ 15	HW17	+ 15	HW17	+ 15		
Drive wheel bolt	B22	+ 30	NW18	+ 30	HW18	+ 30	HW18	+ 30		
Cotter for end of cutter shaft	B19	+ 30	NW19	+ 24	HW19	+ 24	HW19	+ 24		
Pointed screws for right hand cone	B25	+ 30					HW20	+ 30		
Cup pointed screws for left hand cone										
Drive wheel washer	B21	+ 24	NW21	+ 24	HW21	+ 24	HW21	+ 24	XX21	+ 24
Roller bracket bolt	B23	+ 30	NW23	+ 30	HW23	+ 30	HW23	+ 30	XX23	+ 30
Bolt for handle iron	B24	+ 30	NW24	+ 30	HW24	+ 30	HW24	+ 30	XX24	+ 30
Lower blade screws	B32	+ 24	NW25	+ 30						
Screws for straight knife bar	B33	+ 30	NW26	+ 30					XX25	+ 30
Set screw for spider	B26	+ 30			HW26	+ 30	HW26	+ 30	XX26	+ 30
Left hand spider	93	+ 1 35	NW16L	+ 1 35	HW28	+ 1 35	HW28	+ 1 35	XX16L	+ 1 35
Right hand spider	94	+ 1 35	NW16R	+ 1 35	HW29	+ 1 35	HW29	+ 1 35	XX16R	+ 1 35
Center spider	30	+ 69	NW16C	+ 1 35	HW30	+ 69	HW30	+ 69	XX16C	+ 1 35
Pin for ratchet clutch	B49	+ 24	NW49	+ 24	HW49	+ 24	HW49	+ 24		
Wood handle, complete	B50	+ 2 70	NW50	+ 2 70	HW50	+ 2 70	HW50	+ 2 70	XX50	+ 2 04
Ball retainer and balls	B51	+ 81					B51	+ 45	XX51	+ 45
Right hand ball-bearing cone	B52	+ 1 35					B52	+ 1 35	XX52	+ 1 35
Left hand ball-bearing cone	B53	+ 1 35					B53	+ 1 35	XX53	+ 1 35
Ball-bearing cups	B54	+ 69					B54	+ 69	XX54	+ 69
Cone for knife bar	B55	+ 30								
Right hand side plate	BB77	+ 4 05	NW3	+ 3 39	HW55	+ 4 05	B155	+ 4 05	XX2	+ 3 39
Left hand side plate	BB66	+ 4 05	NW2	+ 3 39	HW5	+ 4 05	B166	+ 4 05	XX3	+ 3 39
Phosphor bronze journal bearings, both alike			W2	+ 81	HW2	+ 1 35				
Cap for pinion									XX4	+ 5 4
Ratchet pins									XX90	+ 2 4
Cotter for end of wheel shaft									XX19	+ 2 4

Blue Grass 1900 Model

Size, inches	14	16	18	20
Straight knife bar No. 1906	+$2 04	+$2 31	+$2 04	+$2 85
Straight knife No. B20	+ 1 50	+ 1 62	+ 1 77	+ 1 89
Spiral cutter, complete No. B300	+14 85	+16 20	+17 55	+18 90
Spiral cutter blades No. 89	+ 1 50	+ 1 62	+ 1 77	+ 1 89
Wood roller No. B10	+ 1 50	+ 1 77	+ 2 04	+ 2 16
Handle irons, both alike No. B11	+ 96	+ 96	+ 1 08	+ 1 23

Blue Ribbon 1904 Model

Size, inches	10	12	14	16	18
No. 1895	+$2 70	+$3 24	+$3 51	+$3 78	+$4 05
No. NW8	+ 8 79	+10 14	+12 84	+14 19	+15 54
No. NW9	+ 1 08	+ 1 35	+ 1 50	+ 1 62	+ 1 77
No. NW10	+ 96	+ 1 20	+ 1 50	+ 1 77	+ 2 04
No. NW11	+ 81	+ 96	+ 96	+ 96	+ 1 08

Blue Ribbon 1905 and 1907 Model

Size, inches	14	16	18	20
Straight knife bar No. HW7	+$4 20	+$4 59	+$5 40	+$6 09
Spiral cutter, complete No. HW8	+14 85	+16 20	+17 55	+18 90
Spiral cutter blades No. HW9	+ 1 50	+ 1 62	+ 1 77	+ 1 89
Wood roller No. HW10	+ 1 50	+ 1 77	+ 2 04	+ 2 16
Handle irons, both alike No. HW11	+ 96	+ 96	+ 1 08	+ 1 23

Blue Ribbon 1909 Model

Size, inches	14	16	18
No. XX7	+$3 51	+$3 78	+$4 05
No. XX8	+12 84	+14 19	+15 54
No. XX9	+ 1 50	+ 1 62	+ 1 77
No. XX10	+ 1 50	+ 1 77	+ 2 04
No. XX11	+ 96	+ 96	+ 1 08

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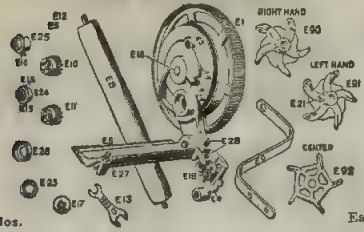
REPAIRS FOR LAWN MOWERS

—BLUE GRASS—

FOR Nos. 1114, 1116, 1118 AND 1120



Nos.		Each
E1	Drive wheel, both alike	✚$2 70
ER	R. H. roller bracket	✚ 45
EL	L. H. roller bracket	✚ 45
E2	L. H. side plate	✚ 4 05
E3	R. H. side plate	✚ 4 05
E4	Straight knife bar—	
	14-inch	✚ 2 04
	16-inch	✚ 2 31
	18-inch	✚ 2 58
	20-inch	✚ 2 85
E5	Straight knife—	
	14-inch	✚ 1 50
	16-inch	✚ 1 62
	18-inch	✚ 1 77
	20-inch	✚ 1 89
E6	Spiral cutter, complete—	
	14-inch	✚14 85
	16-inch	✚16 20
	18-inch	✚17 55
	20-inch	✚18 90
E7	Spiral cutter blades, each	
	14-inch	✚ 1 50
	16-inch	✚ 1 62
	18-inch	✚ 1 77
	20-inch	✚ 1 89
E8	Wood roller—	
	14-inch	✚ 1 50
	16-inch	✚ 1 77
	18-inch	✚ 2 04
	20-inch	✚ 2 16
E9	Handle irons, both alike—	
	14-inch	✚ 96
	16-inch	✚ 96
	18-inch	✚ 1 08
	20-inch	✚ 1 20
E10	L. H. pinion	✚ 1 38
E11	R. H. pinion	✚ 1 35
E12	Double ratchet pin	✚ 24
E13	Wrench	✚ 24
E14	Drive wheel bolt	✚ 30
E15	Pointed screws for R. H. cone	✚ 30
E16	Cup-pointed screw for L. H. cone	✚ 30
E17	Drive wheel washer	✚ 24
E18	Roller bracket bolt	✚ 30
E19	Bolt for handle iron	✚ 30
E20	Screws for lower blade	✚ 24
E21	Set screw for spider	✚ 30
E91	Left hand spider	✚ 1 35
E90	Right hand spider	✚ 1 35
E92	Center spider	✚ 1 35
E22	Wood handle, complete	✚ 2 70
E23	Ball retainer and balls	✚ 81
E24	Right hand BB cone	✚ 1 35
E25	Left hand BB cone	✚ 1 35
E26	Ball-bearing cups	✚ 69
E27	Center knife bar adjusting screw	✚ 30
E28	Adjusting screws to knife bar	✚ 30

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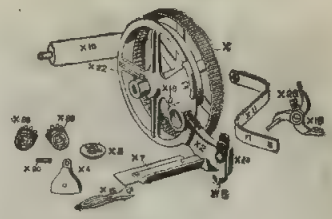
REPAIRS FOR LAWN MOWERS

—BLUE RIBBON—

1913 MODEL



Nos.		Each
X	Drive wheel, both alike	✚$2 31
2	Journal bearings, both alike	✚ 45
	Roller brackets, right or left	✚ 36
X2	R. H. side plate	✚ 3 39
X3	L. H. side plate	✚ 3 39
X4	Pinion cap	✚ 45
X7	Straight knife and bar—	
	12-inch	✚ 3 51
	14-inch	✚ 4 05
	16-inch	✚ 4 59
	18-inch	✚ 5 10
X8	Spiral cutter, complete—	
	12-inch	✚11 49
	14-inch	✚12 84
	16-inch	✚14 19
	18-inch	✚15 54
X9	Spiral cutter blades, each—	
	12-inch	✚ 1 23
	14-inch	✚ 1 50
	16-inch	✚ 1 62
	18-inch	✚ 1 77
X10	Wood roller—	
	12-inch	✚ 1 20
	14-inch	✚ 1 50
	16-inch	✚ 1 77
	18-inch	✚ 2 04
X11	Handle irons, both alike—	
	12-inch	✚ 81
	14-inch	✚ 96
	16-inch	✚ 96
	18-inch	✚ 1 08
X88	R. H. pinion	✚ 81
X89	L. H. pinion	✚ 81
X90	Ratchet pins	✚ 24
X15	Wrench	✚ 24
X64	Spiral cutter spider (mention if for center, or which end)	✚ 1 35
X19	Cotter for end of wheel shaft	✚ 24
X20	Set screw and nut for journal box	✚ 30
X21	Drive wheel washer	✚ 24
X23	Roller bracket bolt	✚ 30
X24	Bolt for handle iron	✚ 30
X25	Bolts for straight knife bar	✚ 30
X26	Set screw for spider	✚ 30
X50	Wood handle, complete	✚ 2 04

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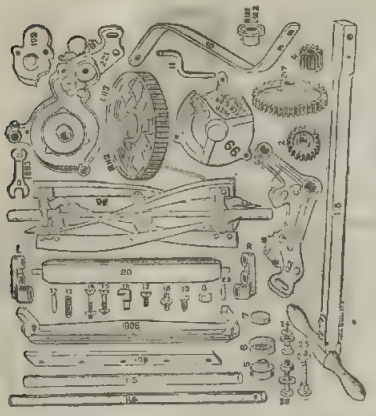
REPAIRS FOR LAWN MOWERS

—BLUE GRASS—1906 MODEL



Nos.		Each
2	Intermediate gear	✚$2 04
3	Steel pawl, all alike	✚ 30
4	Pinion	✚ 1 35
5	Ball-bearing cone	✚ 1 35
6	Cup, with balls and retainer	✚ 1 35
7	Washer for ball-bearing cup	✚ 24
R	Right hand roller bracket	✚ 45
L	Left hand roller bracket	✚ 45
10	Handle brace—	
	14-inch	✚ 96
	16-inch	✚ 1 08
	18-inch	✚ 1 23
	20-inch	✚ 1 35
11	Sharpening crank	✚ 30
12	Pin for ratchet plates R121 and L122	✚ 24
13	Bed-knife adjusting screw	✚ 30
14	Long bolt for gear box	✚ 30
15	Short bolt for gear box	✚ 24
16	Hook for handle brace	✚ 24
17	Machine screw for stationary knife blade	✚ 24
18	Adjusting screw and nut for ball-bearing cup	✚ 30
19	Cup point set screw	✚ 30
20	Wood roller—	
	14-inch	✚ 1 35
	16-inch	✚ 1 50
	18-inch	✚ 1 62
	20-inch	✚ 1 77
22	Cylinder complete with four knives—	
	14-inch	✚ 14 31
	16-inch	✚ 15 66
	18-inch	✚ 17 01
	20-inch	✚ 18 36

Continued Next Column.

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REPAIRS FOR LAWN MOWERS

—BLUE GRASS—1906 MODEL

Nos.		Each
22¼	Cylinder complete with five knives—	
	14-inch	✚$14 85
	16-inch	✚ 16 20
	18-inch	✚ 17 55
	20-inch	✚ 18 90
23	Pin for pinion	✚ 24
24	Bolt and washer for roller bracket	✚ 30
25	Bolt for wood handle	✚ 30
26	Bolt for end of cast bed knife back	✚ 45
99	Outside cap for left hand side plate	✚1 35
108	Lower straight knife—	
	14-inch	✚1 62
	16-inch	✚1 89
	18-inch	✚2 16
	20-inch	✚2 43
109-4	Shield	✚ 81
110-4	Right hand cylinder head for four-knife	✚2 70
110-5	Right hand cylinder head for five-knife	✚3 24
111-4	Left hand cylinder head for four-knife	✚2 70
111-5	Left hand cylinder head for five-knife	✚3 24
112	Cylinder ring for four-knife	✚1 35
	Cylinder ring for five-knife	✚1 62
114	Wheel shaft—	
	14-inch	✚1 08
	16-inch	✚1 35
	18-inch	✚1 62
	20-inch	✚1 89
115	Front cross rod—	
	14 inch	✚1 35
	16-inch	✚1 62
	18-inch	✚1 89
	20-inch	✚2 16
1906	Cast bed knife back—	
	14 inch	✚3 00
	16 inch	✚3 24
	18-inch	✚3 51
	20-inch	✚3 78
217	Master gear wheel	✚2 70
118	Wood handle	✚2 70
119	Spiral blade for cylinder—	
	14-inch	✚1 62
	16-inch	✚1 89
	18-inch	✚2 16
	20-inch	✚2 43
R112	Right hand drive wheel	✚2 70
L113	Left hand drive wheel	✚2 70
221	Left side frame	✚3 10
122	Right side frame	✚5 40
R121	Right side ratchet plate	✚ 69
L121	Left side ratchet plate	✚ 69
1893	Wrench	✚ 24

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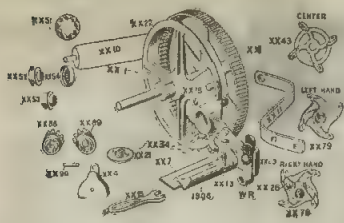
REPAIRS FOR LAWN MOWERS

—BLUE RIBBON—1909A MODEL



Nos.		Each
XX	Drive wheel, both alike	✣$2 31
WR	Right hand roller bracket	✣ 45
WL	Left hand roller bracket	✣ 45
XX22	Right hand side plate	✣ 3 39
XX33	Left hand side plate	✣ 3 39
XX4	Cap	✣ 54
1906	Straight knife bar—	
	14-inch	✣ 2 31
	16-inch	✣ 2 55
	18-inch	✣ 2 85
XX7	Straight knife—	
	14-inch	✣ 1 77
	16-inch	✣ 2 04
	18-inch	✣ 2 31
XX8	—Spiral cutter, complete—	
	14-inch	✣12 84
	16-inch	✣14 19
	18-inch	✣15 54
XX9	Spiral cutter blades—	
	14-inch	✣ 1 50
	16-inch	✣ 1 62
	18-inch	✣ 1 77
XX10	Wood roller—	
	14-inch	✣ 1 50
	16-inch	✣ 1 77
	18-inch	✣ 2 04
XX11	Handle irons, both alike—	
	14-inch	✣ 96
	16-inch	✣ 96
	18-inch	✣ 1 08
XX88	Right hand pinion	✣ 81
XX89	Left hand pinion	✣ 81
XX90	Ratchet pins	✣ 24
XX13	Bolt for straight knife bar	✣ 30
XX15	Wrench	✣ 24
XX18	Pinion cap bolt	✣ 30
XX19	Cotter for end of wheel shaft	✣ 24
XX21	Drive wheel washer	✣ 24
XX23	Roller bracket bolt	✣ 30
XX24	Bolt for handle iron	✣ 30
XX26	Set screw for spider	✣ 30
XX50	Wood handle, complete	✣ 2 04
XX51	Ball retainer and balls	✣ 81
XX52	Right hand BB cone	✣ 1 35
XX53	Left hand BB cone	✣ 1 35
XX54	Ball-bearing cups	✣ 69
XX34	Adjusting screw for knife bar	✣ 30
XX43	Center spiral cutter spider	✣ 69
XX78	Right hand spiral cutter spider	✣ 1 35
XX79	Left hand spiral cutter spider	✣ 1 35

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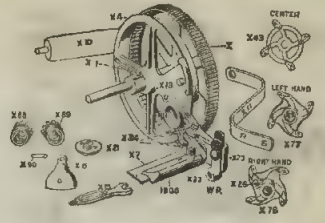
REPAIRS FOR LAWN MOWERS

—BLUE RIBBON—1913A MODEL



Nos.		Each
X	Drive wheel, both alike	✣$2 31
WR	Right hand roller bracket	✣ 45
WL	Left hand roller bracket	✣ 45
X4	Right hand side plate	✣ 3 39
X5	Left hand side plate	✣ 3 39
1906	Straight knife bar—	
	12-inch	✣ 2 04
	14-inch	✣ 2 31
	16-inch	✣ 2 04
	18-inch	✣ 2 85
X7	Straight knife—	
	12-inch	✣ 1 50
	14-inch	✣ 1 77
	16-inch	✣ 2 04
	18-inch	✣ 2 31
X8	Spiral cutter, complete—	
	12-inch	✣11 49
	14-inch	✣12 84
	16-inch	✣14 19
	18-inch	✣15 54
X9	Spiral cutter blades—	
	12-inch	✣ 1 20
	14-inch	✣ 1 50
	16-inch	✣ 1 62
	18-inch	✣ 1 77
X10	Wood roller—	
	12-inch	✣ 1 20
	14-inch	✣ 1 50
	16-inch	✣ 1 77
	18-inch	✣ 2 04
X11	Handle irons, both alike—	
	12-inch	✣ 81
	14-inch	✣ 96
	16-inch	✣ 96
	18-inch	✣ 1 08
X88	Right hand pinion	✣ 81
X89	Left hand pinion	✣ 81
X90	Ratchet pins	✣ 24
X15	Wrench	✣ 24
X18	Pinion cap bolt	✣ 30
X19	Cotter for end of wheel shaft	✣ 24
X21	Drive wheel washer	✣ 24
X23	Roller bracket bolt	✣ 30
X24	Bolt for handle iron	✣ 30
X33	Bolt for straight knife bar	✣ 30
X26	Set screw for spider	✣ 30
X50	Wood handle, complete	✣ 2 04
X34	Adjusting screw for knife bar	✣ 30
X46	Center spiral cutter spider	✣ 69
X21R	Right spiral cutter spider	✣ 1 35
X21L	Left spiral cutter spider	✣ 1 35

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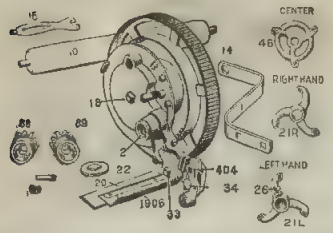
REPAIRS FOR LAWN MOWERS

—CYCLONE—C400A MODEL



Nos.		Each
14	Drive wheel, both alike	✦$2 70
2	Journal bearings, both alike	✦ 81
404	Right hand roller bracket	✦ 45
405	Left hand roller bracket	✦ 45
13	Right hand side plate	✦ 3 39
15	Left hand side plate	✦ 3 39
1906	Straight knife bar—	
	12-inch	✦ 2 04
	14-inch	✦ 2 04
	16-inch	✦ 2 31
	18-inch	✦ 2 04
20	Straight knife—	
	12-inch	✦ 1 50
	14-inch	✦ 1 50
	16-inch	✦ 1 62
	18-inch	✦ 1 77
17	Spiral cutter, complete	
	12-inch	✦ 9 45
	14-inch	✦10 80
	16-inch	✦12 15
	18-inch	✦13 50
180	Spiral cutter blades—	
	12-inch	✦ 1 50
	14-inch	✦ 1 50
	16-inch	✦ 1 62
	18-inch	✦ 1 77
10	Wood roller—	
	12-inch	✦ 1 50
	14-inch	✦ 1 50
	16-inch	✦ 1 77
	18-inch	✦ 2 04
11	Handle irons, both alike—	
	12-inch	✦ 96
	14-inch	✦ 96
	16-inch	✦ 96
	18 inch	✦ 1 08
88	Right hand pinion	✦ 81
89	Left hand pinion	✦ 81
90	Ratchet pin	✦ 24
16	Pin wrench	✦ 24
18	Drive wheel bolt	✦ 30
21L	Left hand three arm spider	✦ 1 35
21R	Right hand three arm spider	✦ 1 35
22	Drive wheel washer	✦ 24
24	Bolt for handle iron	✦ 30
25	Wood handle, complete	✦ 2 70
26	Set screw for spider	✦ 30
33	Machine bolt for knife bar	✦ 30
34	Roller bracket bolt	✦ 30
35	Adjusting screw for knife bar	✦ 30
37	Cone for end of knife bar	✦ 30
38	Set screw and nut for journal box	✦ 30
46	Center three arm spider	✦ 69

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LAWN ROLLERS

WATER BALLAST

Hand.

Made of best grade steel; electric welded seams; equipped with face plate scraper.

Its weights can be regulated by injecting water or sand into the roller.

Nos.	WB3	WB5	WB7
Diameter, ins.	14	18	24
Rolling width, ins.	20	23¼	23¼
Weight empty, lbs.	46	76	94½
Weight filled with water, lbs.	149	274	413
Weight filled with sand, lbs.	227	425	665
Shipping weight, lbs.	50	85	110
Each	✦$40 50	✦45 00	✦51 75

Packed loose.

COUNTERPOISE WEIGHTS

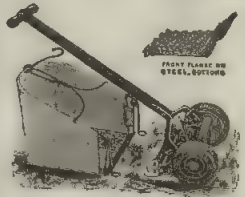
To be used on above rolle s

Nos.	35	53	47
Fits Roller No	1420	1824	2424
Weight each, lbs	35	53	47
Each	✦$13 50		

Packed loose.

GRASS CATCHERS

—BLUE GRASS—



Galvanized Bottom

Per Dozen

No. BG100G—Round back; heavy duck sides, sides are firmly fastened to the bottom by three folds of sheet steel; projections on the bottom prevent grass from slipping forward while mowing; for mowers 12 to 18 inches; depth 20 inches; width 18 inches; weight per dozen 50 lbs $45 00

No. BG50G—Round back; heavy duck sides; side is fastened to the bottom by a double fold of sheet metal; projections on the bottom prevent grass from slipping forward while mowing; for mowers 12 to 18 inches; depth 17 inches; width 18 inches; weight per dozen 48 lbs 41 25

No. BG160G Square back; heavy duck sides; side is fastened to the bottom by a double fold of sheet metal; for mowers 12 to 18 inches; depth 16½ inches; width 17 inches; weight per dozen 40 lbs 36 00

No. BG260G Square back; heavy duck sides; has a central handle which permits of the catcher being carried with one hand when filled with grass; attached to mower by means of brackets; for mowers 12 to 18 inches; depth 16½ inches; width 16 inches; weight per dozen 42 lbs 36 00

Canvas Bottom.

Per Dozen

No. BG250—Square back; heavy duck sides; has a central handle which permits of the catcher being carried with one hand when filled with grass; attached to mower by means of brackets; for mowers 12 to 18 inches; depth 16½ inches; width 16 inches; weight per dozen 38 lbs $33 75

One dozen in a carton.

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HOUSEHOLD LUBRICANT

For lawn mowers, sewing machines, bicycles, etc.; will not gum or corrode; put up in tins.

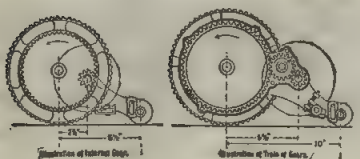
Per Dozen

No. 4—4 ounce cans..... $3 75

Three dozen in a wood case; wt. per dozen 6 lbs.

LAWN MOWERS

"TRAIN OF GEARS"



No. 47 No. 1890

Used On Blue Grass Mowers No. 1890 and No. 47.

Advantage of a Train of Gears over Internal Gear.

Train geared mowers run more easily and steadily owing to their great length of wheel base. Driving wheels may drop in a rut, but before the knives reach it the wheels are out again and the grass is cut smoothly, because the wheels and roller span the rut.

There is an additional advantage of better distribution of wear and tear and increased power and speed. The action is on the forward side of pinion and pull is down toward bed-knife, so when strain or cutting occurs the revolving cutter is always firm against bed-knife and cuts smooth.

Ball-Bearing Device used on Blue Grass Mowers.

Has 7/32 inch best quality steel balls. All of the ball-bearing cones used on these lawn mowers are made of the best quality of steel, thoroughly case hardened and the ball race ground to a perfect cylinder. These cones are tested before adjusted to the revolving cutter shaft.

All perfectly ground, dust proof, and made with as great a degree of perfection as the finest bicycle.

All blades used on these mowers are of the highest grade of crucible steel tempered in oil. The revolving cutters on these mowers are made a perfect cylinder by being ground on special grinding machines.

The success of the Blue Grass Mowers has been largely due to the patented ball-bearing adjustment, the stationary knife and the mode of adjusting the stationary knife bar; together with manner of fitting stationary knife bar.

LAWN MOWERS

—BLUE GRASS—

Stationary Knife Bar On Blue Grass Mowers.

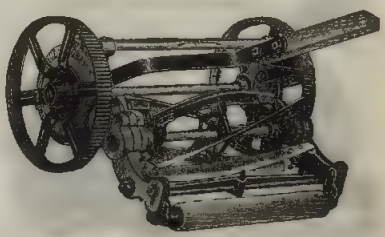
On all Blue Grass Mowers the stationary knife bar is squared in a most particular manner. The ends of the knife bar being faced and the bottom of the bar planed where stationary blade is attached. In the end of each stationary knife bar is inserted a steel cone, which is pivoted in the side plates and held firmly in place by heavy machine bolts, making the machine absolutely rigid. We do not know of any other lawn mower having as much machine work or expense on the stationary knife bar, as is used on these machines.

Stationary Blade On Blue Grass Mowers.

The stationary blade used on all Blue Grass Mowers is made from Disston saw steel and has a certain springy character that allows the revolving cutter to have a perfect joint at all times with the stationary blade; without frequent adjustment of the stationary blade; as is the case with most lawn mowers, using the thick heavy stationary blade which is very stiff and will not allow for any slight difference in the wearing qualities of the revolving blades.

The ratchets used on the Blue Grass Mowers are noiseless and never in operation when the mower is trundled from place to place or pulled backward. All mowers of similar character have noisy ratchets with working pins that are in operation at all times, shortening their life.

—BLUE GRASS—



Ball-Bearing. High Grass. Triple Gear.

Drive Wheels 10½ Inches Diameter, Cutter 6 Inches Diameter.

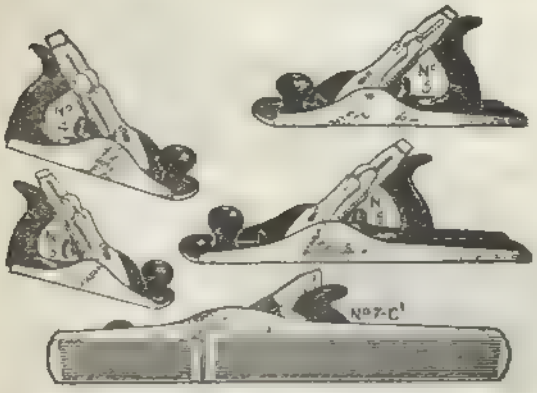
Triple gear open frame, long wheel base, five high grade crucible cast steel cutter blades, dust proof ball-bearing journals, knife bar mounted on milled steel cones, has a train of gears and drives from both ends; both revolving cutter and driving wheels operate on ball-bearings, so constructed that they never require adjusting. Silent in operation. Has patented center adjustment for adjusting the stationary blade at center to the revolving blades, independent of the ends.

Finished in red, silver and gold; varnished hardwood handle.

Nos.	1890-14	1890-16	1890-18	1890-20
Width cut, inches	14	16	18	20
Weight each boxed, lbs.	68	65	68	72
Each	$41 25	42 00	44 25	46 05

One in a wood box; handle loose.

PLANES



"BAILEY" ADJUSTABLE IRON

The handle and knob are made of highly finished, thoroughly seasoned rosewood. The English steel cutter is tempered, ground and honed, ready for use, is adjustable both endwise and sidewise, and bedded to the heel of bevel. The width of mouth can be varied by changing the setting of the frog. Bottoms, either flat or corrugated—see cut 7C—as desired.

Flat Bottom	Corrugated Bottom	Type	Length	Cutter	W't	Each
No. 1		Smooth	5½ in.	1¼ in.	1¼ lbs.	$3.80
No. 2		Smooth	7 in.	1⅝ in.	2¼ lbs.	4.90
No. 3	No. 3 C	Smooth	8 in.	1⅝ in.	3¼ lbs.	5.40
No. 4	No. 4 C	Smooth	9 in.	2 in.	3½ lbs.	5.90
No. 4½	No. 4½C	Smooth	10 in.	2⅜ in.	4½ lbs.	6.75
No. 5¼	No. 5¼C	Jr.Jack	11½ in.	1⅝ in.	4 lbs.	6.05
No. 5	No. 5 C	Jack	14 in.	2 in.	4¾ lbs.	6.75
No. 5½	No. 5½C	Jack	15 in.	2¼ in.	6¾ lbs.	7.60
No. 6	No. 6 C	Fore	18 in.	2⅜ in.	7½ lbs.	8.70
No. 7	No. 7 C	Jointer	22 in.	2⅜ in.	8½ lbs.	9.90
No. 8	No. 8 C	Jointer	24 in.	2⅜ in.	9½ lbs.	11.90

ONE IN A BOX

"BAILEY" WOOD

These planes are made for those wanting a wood bottom plane of superior quality. Made of specially selected, well seasoned Beech. The cutters are the celebrated Bailey cutters and are adjustable both endwise and sidewise.

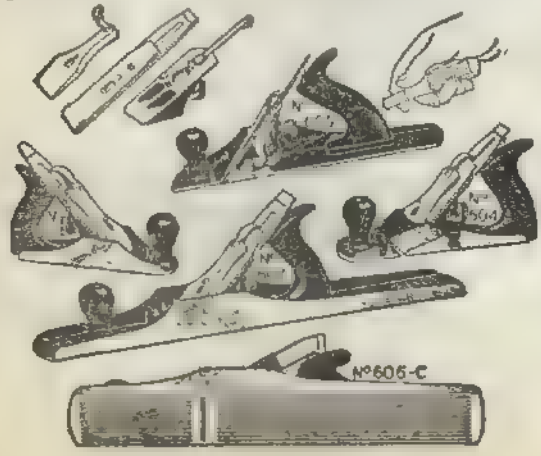
	Type	Length	Cutter	W't	Each
No. 24	Smooth	9 in.	2 in.	2¾ lbs.	$4.60
No. 26	Jack	15 in.	2 in.	3¾ lbs.	4.70
No. 27½	Jack	15 in.	2¼ in.	4¾ lbs.	5.50
No. 28	Fore	18 in.	2⅜ in.	5½ lbs.	6.00
No. 31	Jointer	24 in.	2⅜ in.	6½ lbs.	6.50
No. 32	Jointer	26 in.	2⅜ in.	7⅜ lbs.	6.90
No. 35	Handle Smooth	9 in.	2 in.	3½ lbs.	5.30

ONE IN A BOX

STANLEY "BED ROCK"

For fine work on hard and knotty wood, this plane surpasses all others.

The cutter, frog and bottom are so machined and fitted that they are practically one solid piece of metal, thus preventing any chance of vibration.



The frog travels in a groove, ensuring it being square with the mouth of the plane, and preventing shifting or "wobbling."

The width of the mouth can be regulated by use of a screw driver as shown in the cut, without removing the cutter and lever.

The cutters are made of the best English steel and are adjustable both endwise and sidewise.

The shape of the sides, a distinctive feature, adds greatly to the strength of the plane.

The handles and knobs are of rosewood and finely finished.

Bottoms either flat or corrugated (see No. 605C) as desired.

Flat Bottom	Corrugated Bottom	Type	Length	Cutter	W't	Each
No. 602		Smooth	7 in.	1⅝ in.	2¼ lbs.	$5.40
No. 603	No. 603 C	Smooth	8 in.	1⅝ in.	3¼ lbs.	5.90
No. 604	No. 604 C	Smooth	9 in.	2 in.	3⅝ lbs.	6.50
No. 604½	No. 604½C	Smooth	10 in.	2⅜ in.	4½ lbs.	7.45
No. 605	No. 605 C	Jack	14 in.	2 in.	4¾ lbs.	7.40
No. 605½	No. 605½C	Jack	15 in.	2¼ in.	6¾ lbs.	8.40
No. 606	No. 606 C	Fore	18 in.	2⅜ in.	7⅜ lbs.	9.50
No. 607	No. 607 C	Jointer	22 in.	2⅜ in.	8½ lbs.	10.90
No. 608	No. 608 C	Jointer	24 in.	2⅜ in.	9½ lbs.	13.00

ONE IN A BOX

REVONOC ADJUSTABLE PLANES

WOOD SMOOTH

UNHANDLED

Nos.	22R	24R
Length, in.	8	9
Cutter, in.	1⅝	2
W't, each, lbs.	2¼	2½
Each	$3.70	4.00

HANDLED

Nos.	35R	36R
Length, in.	9	10
Cutter, in.	2	2⅜
W't each, lbs.	3	3½
Each	$4.80	5.40

WOOD JACK, FORE AND JOINTER

JACK

Nos.	26R	27½R
Length, in.	15	15
Cutter, in.	2	2¼
W't each, lbs.	3¾	4¼
Each	$4.30	4.90

FORE

Nos.	28R
Length, in.	18
Cutter, in.	2⅜
W't each, lbs.	5
Each	$5.40

JOINTER

Nos.	31R	32R
Length, in.	24	26
Cutter, in.	2⅜	2⅝
W't each, lbs.	6½	7
Each	$5.70	6.10

IRON SMOOTH

FLAT BOTTOM

Nos.	2R	3R	4R	4½R
Length, in.	7	8	9	10
Cutter, in.	1⅝	1¾	2	2⅜
W't each, lbs.	2¼	3	3½	5
Each	$4.30	4.60	5.00	5.80

CORRUGATED BOTTOM

Nos.	3RC	4RC	4½RC
Length, in.	8	9	10
Cutter, in.	1¾	2	2⅜
W't each, lbs.	3	3½	5
Each	$4.85	5.25	6.10

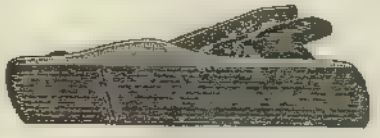
ALL ABOVE, ONE IN A BOX

IRON JACK, FORE AND JOINTER

FLAT BOTTOM

Nos.	5R	5½R	6R
Style	Jack	Jack	Fore
Length, in.	14	15	18
Cutter, in.	2	2¼	2⅜
W't each, lbs.	4½	6	7
Each	$5.80	6.50	7.30

Nos	7R	8R
Style	Jointer	Jointer
Length, in.	22	24
Cutter, in.	2⅜	2⅜
W't each, lbs.	8	9½
Each	$8.50	10.00



CORRUGATED BOTTOM

Nos.	5RC	5½RC	6RC
Style	Jack	Jack	Fore
Length, in.	14	15	18
Cutter, in.	2	2¼	2⅜
W't each, lbs.	4½	6	7
Each	$6.10	6.85	7.70

Nos.	7RC	8RC
Style	Jointer	Jointer
Length, in.	22	24
Cutter, in.	2⅜	2⅜
W't each, lbs.	8	9½
Each	$9.00	10.50

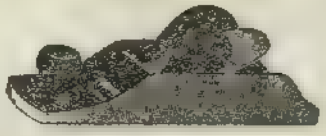
IRON BLOCK

No. 101R REVONOC—3½ in. 1 in. cutter, w't 4 oz., each $0.50

HALF DOZEN IN A BOX

No. 100R REVONOC—3½ in., handled, 1 in. cutter, w't 6 oz. ..... each $0.60

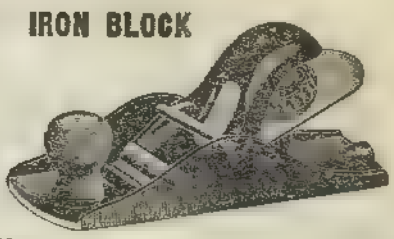
No. 103R REVONOC—5½ in., adjustable, 1⅜ in. cutter, w't ¾ lbs., each $1.40



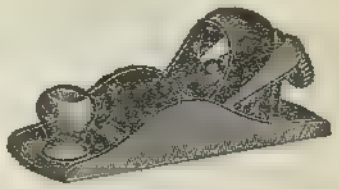
No. 1300R REVONOC—8 in., double-ender, 1⅜ in. cutter, w't 1½ lbs., each $2.00

ONE IN A BOX

IRON BLOCK

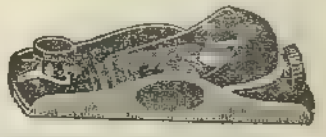


Nos.	102R	110R
Length, in.	5½	7½
Cutter, in.	1⅜	1⅝
W't each, lbs.	¾	1¼
Each	$1.10	1.40



No. 2200R REVONOC—7½ in., adjustable, 1⅝ in. cutter, w't 1¼ lbs., each $2 00

ONE IN A BOX



JAPANNED CAP—LOW ANGLE

Nos.	600½R	650½R
Length, in.	6	7
Cutter, in.	1½	1⅝
W't each, lbs.	1	1
Each	$2.90	3.10

Throat and lateral adjustment, japanned cap.

Nos.	9½R	15R
Length, in.	6	7
Cutter, in.	1⅝	1⅝
W't each, lbs.	1½	1⅝
Each	$2.70	2.90

With throat and lateral adjustment, knuckle joint, nickel plated cap.

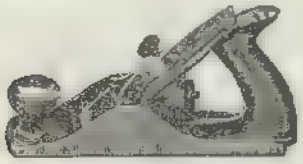
Nos.	1800R	1900R
Length, in.	6	7
Cutter, in.	1⅝	1⅝
W't each, lbs.	1½	1½
Each	$3.10	3.30

ALL ABOVE, ONE IN A BOX

SIEGLEY AND STANLEY PLANES

SIEGLEY ADJUSTABLE IRON

SMOOTH



Corrugated Bottom.

Nos.	4S	4½S
Length, in.	9	10
Cutter, in.	2	2¼
W't each, lbs.	2¾	3⅛
Each	$5.50	6.40

ONE IN A BOX

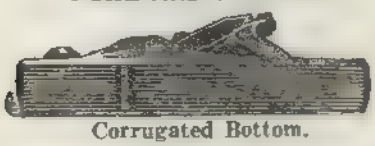
JACK

Corrugated Bottom.

Nos.	5S	5½S
Length, in.	14	15
Cutter, in.	2	2¼
W't each, lbs.	3½	4⅛
Each	$6.40	7.30

ONE IN A BOX

FORE AND JOINTER



Corrugated Bottom.

Nos.	6S	7S	8S
Style	Fore	Jointer	
Length, in.	18	22	24
Cutter, in.	2¼	2⅜	2⅛
W't each, lbs.	4¾	5½	6½
Each	$8.30	9.50	11.20

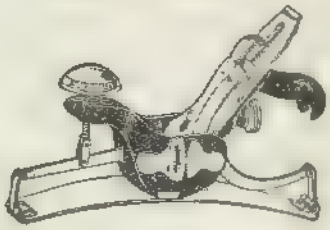
ONE IN A BOX

Combination.

No. 2S—9 in., nickel plated combination carpenters plow and dado with slide and center beading plane, 9 plow cutters, 3/16, ¼, 5/16, ⅜, 7/16, ½, ⅝, ¾ and ⅞ in., 7 deading tool, ¼, 5/16, ¼, 5/16, ⅜, 7/16 and ½, in., ⅞ in. match cutter and sash tool, w't 7½ lbs. .....each $15.70

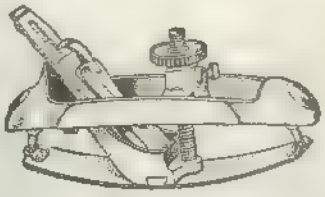
ONE IN A BOX

STANLEY CIRCULAR



No. 113—10 in., adjustable, 1¾ in. cutter, w't 8½ lbs., each $9.50

ONE IN A BOX

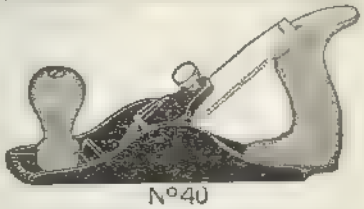


VICTOR, 10 in. adjustable, 1⅝ in. cutter, w't each 4 lbs.

No. 20—Japanned .....each $11.70

ONE IN A BOX

STANLEY IMPROVED SCRUB



N°40

This tool has a single iron with cutting edge rounded, and is particularly adapted for roughing down work before using jack or other planes.

Nos.	40	40½
Length, in	9½	10½
Cutter, in.	1⅜	1⅝
Each	$3.10	4.20

ONE IN A BOX

STANLEY LOW ANGLE BLOCK

The construction of this plane is such that it is especially adapted for use in cutting across the grain on heavy work, where more power is required than can be obtained by use of the ordinary block plane. The plane is fitted with an adjustable throat, which enables the user to work equally well on hard or soft wood.

No. 62—14 in., 2 in. cutter, w't 4 lbs. .....each $7.20

ONE IN A BOX

STANLEY PLANES

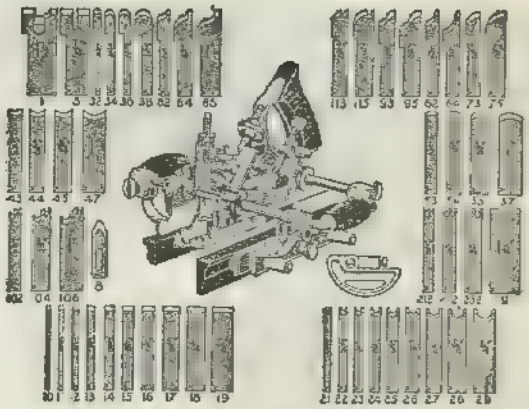
BEADING, CENTER, PLOW, DADO, RABBET, FILLISTER, MATCH, SASH, SLITTING AND MOULDING

THE MOST COMPLETE STANLEY SET

Will accomodate cutters of almost any shape and size. All metal parts nickel plated, handle and fences of selected rosewood, all parts well finished.

No. 55—Length 10 in., w't 15¼ lbs., complete with 52 cutters, each $39.00

ONE IN A BOX



BEADING, CENTER BEADING, PLOW, DADO, RABBET, FILLISTER, MATCH PLANE, SASH AND SLITTING

Seven beading tools, ¼ in., 5/16 in., ⅜ in., 7/16 in., ½ in., 9/16 in. and ⅝ in., ten plow and dado bits—⅛ in., 3/16 in., ¼ in., 5/16 in., ⅜ in., 7/16 in., ½ in., ⅝ in., ¾ in. and ⅞ in., a tonguing tool, a sash and a slitting cutter, are regularly furnished.

Each plane has an adjustable fence, a depth gauge, spurs for use across the grain, a cam leveling or steading rest and can be used either right or left hand.

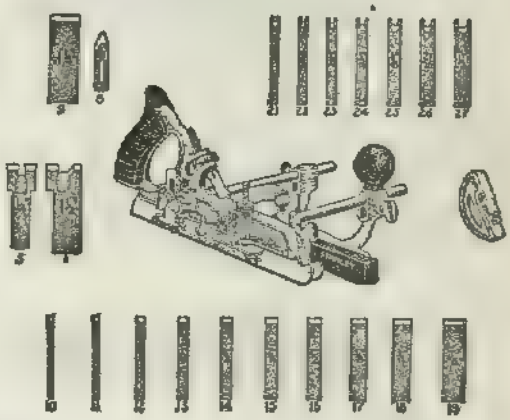
No. 45—Nickel plated, with twenty tools ..... each $19.80

Extra Bottoms and Cutters.

By substituting special bottoms for the sliding section, cutters as follows may be used. Special bottom required for each cutter. Prices of hollows and rounds include two cutters and two bottoms, of nosing tool, one cutter and one bottom.

No. 6—Hollow and round ¼ in. cutters work ½ in. circle, per pair $3.00
No. 8—Hollow and round ⅝ in. cutters work 1 in. circle, per pair 3.00
No. 10—Hollow and round ¾ in. cutters work 1¼ in. circle, per pair 3.30
No. 12—Hollow and round 1 in. cutters work 1½ in. circle, per pair 3.30
No. 5—Nosing tool, 1¼ in. cutters work 1½ in. circle ..... each 2.40
Extra Cutters, 20 tool bits, etc. ..... per set 10.00
Extra Screws ..... per dozen .96
Extra Spurs ..... per dozen .96

ONE IN A BOX



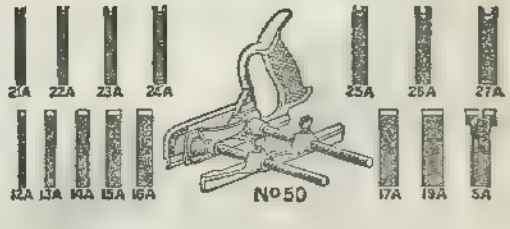
PLOW, BEADING AND MATCHING

For light work, consists of a main stock with metal handle, carrying a spur and a depth gauge and forming a support for one side of cutter, a sliding section carrying a spur and forming a support for other side of cutter, a fence with a 5 inch adjustment.

The cutters comprise 7 plow and dado bits—¼, 5/16, ⅜, 7/16, ½, ⅝ and ¾ inch, 7 beading tools, ⅛, 3/16, ¼, 5/16, ⅜, 7/16 and ½ inch, and a ¼ inch tonguing tool.

No. 50—Nickel plated, length 9¾ inches, 15 cutters, w't 3½ lbs., each $10.90

ONE IN A BOX



PLOW, DADO, FILLISTER AND MATCHING

Skew cutters are the feature of this plane, main stock carries a spur, depth gauge, slitting cutter, sliding section carrying a spur forming an extra sole for the plane. Rosewood handle and knob.

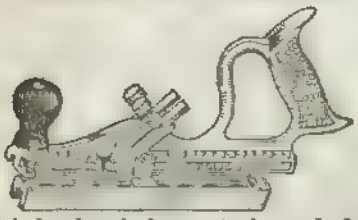
Cutters comprise 8 plow and dado bits—3/16, ¼, 5/16, ⅜, ½, ⅝, ¾, 1¼ in., 1½ in. fillister cutter, ¼ in. tonguing tool and slitting cutter.

No. 46—Nickel plated, length 10½ in., 11 cutters, w't 5¾ lbs., each $14.00

ONE IN A BOX

STANLEY ADJUSTABLE PLANES

TONGUING AND GROOVING



Nickel plated iron stock and face, including tonguing and grooving tools.

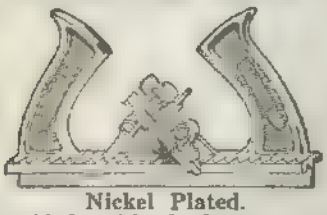
The fence is set in a center pivot and can be swung around and locked either way. Set one way it exposes two cutters for cutting the tongue and when reversed leaves only one exposed for making the groove.

No. 48—8¾ in., for ⅜ to 1¼ in. boards, w't 3 lbs. .....each $6.80

No. 49—¾ in., for ⅛ to ⅜ in boards, w't 2½ lbs. .....each $6.80

ONE IN A BOX

DOUBLE END MATCH



Nickel Plated.

Provided with both tongue and groove irons. With one side a tongue can be cut, and by reversing ends, the plane will cut a groove to fit.

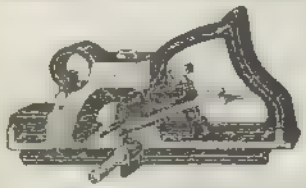
No. 146—Matches ⅜ in. boards, cuts groove ⅛ in., w't 1⅛ lbs., each $5.10

No. 147—Matches ⅝ in. boards, cuts groove 5/16 in., w't 2 lbs., each $5.45

No. 148—Matches ⅞ in. boards, cuts groove ¼ in., w't 2¾ lbs., each $5.75

ONE IN A BOX

RABBET AND FILLISTER



The sides and bottom being square with each other, the planes will lie perfectly flat on either side. Adjustable fence slides under bottom to regulate width of cut. Has one spur on each side and adjustable depth gauge. Is suitable for either right or left hand work. The front part of plane can be easily detached thus providing a bull nose plane.

No. 278—Japanned iron stock and fence, 6¾ in. long, 1 in. cutter, w't 2 lbs. .....each $4.10

ONE IN A BOX

IMPROVED RABBET

Iron stock, length 8 in., with depth gauge.

WITH SPUR

This plane will lie perfectly flat on either side, and can be used with right or left hand equally well, while planing into corners or up against perpendicular surfaces.

Nos.	190	191	192
Cutter, in.	1⅛	1½	1
W't, lbs.	2½	2¼	2
Each	$3 80	3.55	3.30

ONE IN A BOX

DUPLEX RABBET AND FILLISTER

This plane has two seats for the cutter, one for regular work and the other where a bull nose is required. Has spur and removable depth gauge. Adjustable fence can be used on either side and slides under the bottom regulating width of cut. To use as rabbet plane, remove fence and arms.

No. 78—8¼ in. iron stock and fence, 1⅛ in. cutter, w't 3 lbs., each $4.20

ONE IN A BOX

SKEW CUTTER, FILLISTER AND RABBET

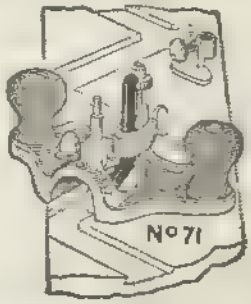
The fence and depth gauge can be attached to either side so that the plane can be used equally well for right or left hand work. The adjustable fence slides under the bottom, regulating the width of the cut. By removing arms and fence a skew cutter rabbet plane is obtained.

No. 289—8¼ in., japanned, 1⅝ in. cutter with fence and depth gauge and two adjustable spurs, one on each side, w't 4 lbs. .....each $4.90

ONE IN A BOX

WOODWORKERS' ROUTER

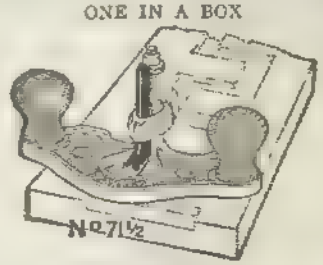
For surfacing the bottom of grooves and depressions parallel with the general surface of the work. The open throat design gives more freedom for chips and a better view of the work and cutter. The latter has an attachment for regulating the thickness of the chip and a second attachment for closing the throat for use on narrow surfaces.



Open Throat.

No. 71—Nickel plated, width 7⅛ in., ¼ and ⅜ in. steel bits, with throat attachment, w't 2⅛ lbs., each $5.20

ONE IN A BOX

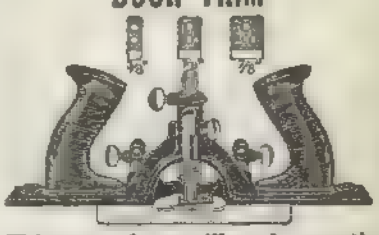


Closed Throat.

No. 71½—Nickel plated, width 7⅛ in., ¼ and ⅜ in. steel bits, w't 2⅛ lbs., each $4.10

ONE IN A BOX

DOOR TRIM

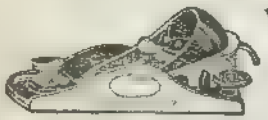


This new plane will make mortises for Butts, Face Plates, Strike Plates, Escutcheons, etc., without the use of a butt gauge or chisel. Cutter can be set to work from either end of the plane or across it. Spring prevents taking a heavier chip than can be easily carried.

No. 171—11 in., japanned, nickel plated trimmings, rosewood handles, 3 forged steel cutters, w't 3 lbs., each $7.50

ONE IN A BOX

"BAILEY" BLOCK PLANES



With Throat and Lateral Adjustments.

JAPANNED CAP

Nos.	9½	15
Length, in.	6	7
Cutter, in.	1⅝	1⅝
W't each, lbs.	1½	1¾
Each	$2.90	3.10

NICKEL PLATED CAP

Nos.	16	17
Length, in.	6	7
Cutter, in.	1⅝	1⅝
W't each, lbs.	1½	1¾
Each	$3.30	3.60

ONE IN A BOX

Knuckle joint with throat and lateral adjustment.

NICKEL PLATED CAP

The knuckle joint in the cap makes it a lever, too; and placing the cap in position, will also clamp the cutter securely in its seat.

Nos.	18	19
Length, in.	6	7
Cutter, in.	1⅝	1⅝
W't each, lbs.	1½	1½
Each	$3.80	4.10

ONE IN A BOX

Low Angle.

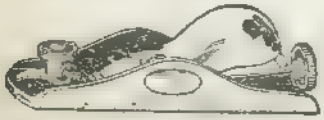
JAPANNED CAP

No. 60—Nickel plated cap, length 6 in., cutter 1⅝ in., w't each 1½ lbs., each $3.40

Nos.	60½	65½
Length, in.	6	7
Cutter, in.	1⅝	1⅝
W't each, lbs.	1½	1½
Each	$3.10	3.30

No. 61—Nickel plated cap, length 6 in., cutter 1⅝ in., **rosewood knob,** w't 1½ lbs. ..... each $2.90

ONE IN A BOX



NICKEL PLATED CAP

No.	65
Length, in.	7
Cutter, in.	1⅝
W't each, lbs.	1½
Each	$4 00

ONE IN A BOX

BAILEY BLOCK PLANES

This plane has two slots and a movable cutter seat. When it is desirable to use it as a bull nose plane, the adjustable cutter seat can be reversed as indicated in cut.

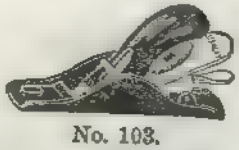
No. 131—Double end, 8 in., 1⅝ in. cutter, w't 1½ lbs. ..... each $3.60

ONE IN A BOX

STANLEY BLOCK PLANES

No. 101—3½ in., 1 in. cutter, w't 4½ oz., each $0.56

ONE IN A BOX



No. 103.

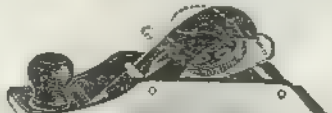
No. 102—5½ in., 1⅝ in. cutter, w't ¾ lb., each $1.10

No. 103—5½ in., **adjustable,** 1⅝ in. cutter, w't ¾ lb. ..... each $1.50

ONE IN A BOX

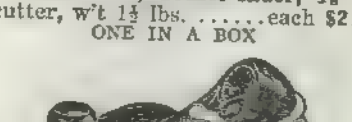
No. 110—7 in., 1⅝ in. cutter, w't 1¾ lbs. ..... each $1.50

ONE IN A BOX



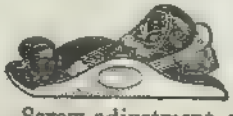
No. 130—8 in., double-ender, 1⅝ in. cutter, w't 1½ lbs. ..... each $2.20

ONE IN A BOX



No. 220—7 in. adjustable, 1⅝ in. cutter, w't 1½ lbs. ..... each $2.20

ONE IN A BOX



No. 203—Screw adjustment, rosewood knob, length 5½ in., 1⅝ in. cutter, w't ⅞ lb. ..... each $1.90

ONE IN A BOX

CABINET MAKERS' EDGE PLANES

A useful tool for piano makers and all cabinet workers, for trimming inside work where space prevents use of any other plane.

No. 97—10 in., 2½ in. cutter, w't 3¾ lbs., each $5.60

ONE IN A BOX

BAILEY VENEER SCRAPERS

No. 12 takes the same cutter as No. 112 Scraper Planes. For many kinds of work, its peculiar form is of great advantage.

Nos.	Iron. 12	Wd. Fce. 12½
Length, in.	6½	6½
Cutter, in.	3	3
W't each, lbs.	3½	3½
Each	$6.20	8.40
Extra Cutters	each $0.66	

ONE IN A BOX

STANLEY SCRAPER PLANES

No. 112—9 in. adjustable, 3 in. cutter, with 1 scraper blade, w't 4 lbs., each $5.50

Extra Cutters, for scraping, each $0.66

Extra Cutters, for toothing, Nos. 22, 28, 32—22, 28 or 32 teeth each $0 90

ONE IN A BOX

BULL NOSE RABBET PLANES

No. 75—4 in., iron stock, 1 in. cutter, w't 8 oz., each .$0.95

STANLEY EDGE TRIMMING PLANES

No. 95—6 in., ⅜ in. cutter, japanned, w't each 1¼ lbs. ..... each $2.40

ONE IN A BOX

CABINET SCRAPERS

Designed to do fine scraping such as veneering, cabinet work, etc. Has a rosewood face which reduces friction and prevents marring the surface worked upon. Handles are raised to protect user's hands and are pierced for easy hanging up when not in use.

No. 81—Stanley's, nickel plated, raised handles, length 10 in., 2½ in. cutter, w't per doz. 30 lbs., per dozen $36.00
ONE IN A BOX

No. 811—Extra cutters, per dozen $4.60
ONE DOZEN IN A BOX

No. 80—Stanley's, japanned, raised handles, length 11 in., 2½ in. cutter, w't per doz. 21 lbs., per dozen $22.00
ONE IN A BOX

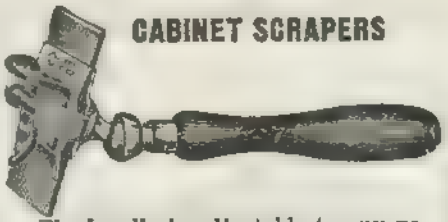
No. 800—Extra cutters, per dozen $4.60
ONE DOZEN IN A BOX

The adjustable handle allows the blade to be tilted to any angle desired. Special blades of different forms and widths can be securely held in any position required, thus permitting the tool to be worked in many places inaccessible to other scrapers.

No. 82—Stanley's, japanned with polished edges, maple handle and knob, length 14½ in., 3 in. cutter, swinging adjustment, w't per doz. 21 lbs. .....per dozen $28.80
ONE IN A BOX

No. 820—Extra cutters, per dozen $4.60
ONE DOZEN IN A BOX

CABINET SCRAPERS

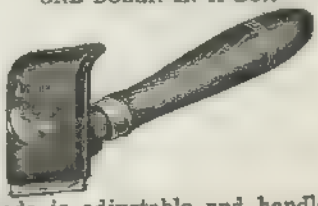


The handle is adjustable to any position up or down and sidewise. Blade can be instantly removed or adjusted by releasing the lever under hand rest.

The hand rest relieves strain on the wrist and prevents chattering. Will hold any blade up to 3 in. wide.

No. 114—Polished steel frame, crucible steel blades, rubberoid handle, blades 3×5 in., 16 gauge, w't per doz. 24 lbs. ....per dozen $43.20
ONE IN A BOX

No. 1140—Extra blades, doz. $8.00
ONE DOZEN IN A BOX

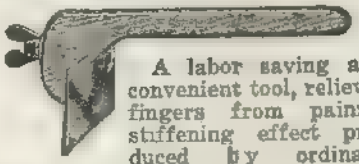


Blade is adjustable and handle by an ingenious ball and socket arrangement, can be instantaneously set at a wide angle to the blade in any direction.

No. 116—Japanned steel frame, 3×1½ in. crucible steel blade, stained handle, adjustable to any position, w't per doz. 21 lbs. ..doz. $24.00
ONE IN A BOX

No. 1160—Extra cutters ..doz. $7.20
ONE DOZEN IN A BOX

No. 150—Bennett, adjustable, nickel plated, blade, 3 in. wide, 5 in. long, 11 in. maple handle, w't per doz. 17 lbs., per dozen $26.00
ONE IN A BOX



A labor saving and convenient tool, relieves fingers from painful stiffening effect produced by ordinary scraper. Rapid work can be done with less than usual effort and correct scraping-angle is more easily preserved.

No. 10—Cruso, 3×3 in. cast steel polished blade, polished beechwood handle, japanned malleable iron clamp, w't doz. 10 lbs., dozen $11.00
HALF DOZEN IN A BOX

No. 11—Extra blades for No. 10, per dozen $3.50
ONE DOZEN IN A BOX

CABINET SCRAPERS

Best Crucible Steel, Nicely Finished, Dressed on Edges.

Made of selected high grade English steel, great care being taken to give special temper for this kind of work.

Nos.	22½	23	24	25½
Size, in.	2½×5	3×5	3×6	3½×6
W't, doz, lbs.	1¾	2¼	2¾	2⅞
Per dozen	$3.50	4.00	4.60	6.80

DISSTON'S, Cast Steel, Polished.

Nos.	1	2	3
Inches	2½×5	4×6	3×6
W't per doz., lbs.	2	3½	3
Per dozen	$2.00	3.50	2.70

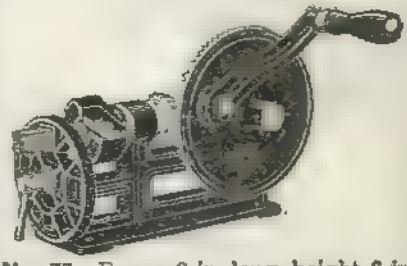
ONE DOZEN IN A BOX

Extra heavy gauge, high grade English Steel. Edges are carefully tempered while center of blades are left a little flexible. Nicely finished and dressed on edges.

Nos.	32½	34	35	36	36½
Size in.	2½×5	3×4	3×5	3×6	3½×6
W't doz. lbs.	2	2	2½	3	4
Per dozen	$6.60	6.60	7.80	9.30	8.90

HALF DOZEN IN A BOX

STANLEY DOWEL AND ROD TURNING MACHINE

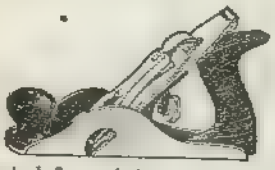


No. 77—Frame 9 in. long, height 6 in. japanned, malleable frame, 6½ in. steel gear wheel, adjustable handle, cuts dowels of varying sizes and lengths to perfect dimension and with it one can also form rods of practically any length. Operated by hand. Workman can cut his dowels when ready to use them. For use of cabinet and pattern makers and manual training schools. Complete with one ⅜ in. Cutter head, w't each 13 lbs. .....each $15.30
ONE IN A BOX

Extra cutter heads for No. 77 Dowel Machine, sizes ¼, 5/16, 7/16, ½, 9/16, 11/16, ¾ in. .....each $1.56
ONE DOZEN IN A BOX

STANLEY PLANES, BEADERS, ETC.

CARRIAGE MAKERS' RABBET PLANES



Adapted for mining, wagon making and other heavy work.

Flat Bottom.

Nos.	10½	10
Length, in.	9	13
Cutter, in.	2⅛	2⅜
W't, lbs.	3	4¼
Each	$6.80	8.20

ONE IN A BOX

SIDE RABBET PLANES

Convenient tools for side-rabbeting and trimming dados, mouldings and grooves of all sorts. A reversible nose piece will give each tool a form by which it will work close up into corners.

No. 98—4 in., nickel plated, right hand, w't 8 oz. .....each $2.80

ONE IN A BOX

No. 99—4 in., nickel plated, left hand, w't 8 oz. .....each $2.80

ONE IN A BOX

UNIVERSAL HAND BEADERS

Very handy for beading, reeding or fluting straight or irregular surfaces and for light routering. The handles are curved to give ample room between the user's hands and the surface of the work.

No. 66—Width 11¾ in., nickel plated stock, 7 steel cutters and 1 blank with 2 gauges for straight or curved work, w't 1¼ lbs, each $2.10

ONE IN A BOX

RABBET AND BLOCK PLANES

The detachable side will easily change this tool from block plane to a rabbet plane and vica versa. The cutter is adjustable end-wise and is set on askew.

No. 140—7 in., with detachable side, 1¾ in. cutter, w't 1½ lbs., each $3.80

ONE IN A BOX

IMPROVED DADO

8 Inch, Iron Stock, with Depth Gauge and Two Adjustable Spurs.

Holds true in narrow widths where a wood plane will not. Has a skew cutter and adjustable depth gauge and spurs on each side of plane, thus allowing wear to be taken up and depth of the cut regulated.

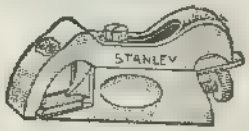
Nos.	392	393	394
Cutter, in.	¼	⅜	½
Each	$3.70	3.95	4.20

Nos.	395	396	397
Cutter, in.	⅝	¾	⅞
Each	$4.40	4.60	4.80

ONE IN A BOX

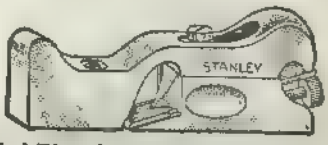
CABINET MAKERS' RABBET PLANES

For fine cabinet or other work where extreme accuracy is required. The sides and bottom, being square with each other, the plane will lie perfectly flat on either side and can be worked either right or left hand. They have adjustable throats; this means that the width of the throat opening, or mouth, can be widened or narrowed as coarse or fine work may require. They are also fitted with the side groove or "Handy" grip feature. The cutters are adjustable end-wise.



Nickel Plated, with Adjustable Throat.

No. 90—4 in., bull nose, adjustable, 1 in. cutter, w't 1 lb. ...each $5.10

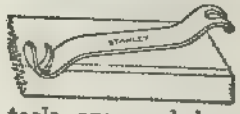


Nickel Plated, with Adjustable Throat.

Nos.	92	93	94
Length, in.	5½	6½	7½
Cutter, in.	¾	1	1¼
W't, lbs.	1½	1¾	2
Each	$5.10	6.10	7.10

ONE IN A BOX

CORNERING TOOLS

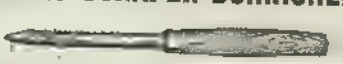


These tools are used by pattern makers and all wood workers for rounding sharp edges. They have a different size cutter at each end and their form is such that no depth gauge is required.

Nos.	28	29
Size, in.	5¾×⅜	5¾×⅝
Cutters, in.	1/16 & ⅛	¼ & ⅜
W't, lbs.	1½	1½
Per dozen	$5.90	6.20

HALF DOZEN IN A BOX

CABINET SCRAPER BURNISHERS

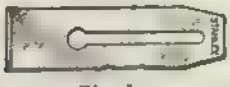


This tool is used to put a smooth finishing edge to a cabinet scraper.

No. 01—Polished oval cast steel blade, wood handle with ferrule, entire length 8½ in., w't per doz. 1½ lbs., per dozen $7.20

HALF DOZEN IN A BOX

PLANE IRONS



Single.

Width, in.	1⅝	1¾	2
No. 60—Bailey, each	$0.70	.80	.85
No. 60R Revonoc, each	.70	.80	.85
Width, in.	2⅛	2¼	2⅜	2½
No. 60—Bailey, each	$0.90	1.00	1.05	1.10
No. 60R Revonoc, each	$0.90	1.00	1.05	1.10

HALF DOZEN IN A BOX

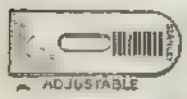
Double, for Wood Bottom Planes.

Width, in.	1⅝	2	2⅛
No. 65—Bailey, each	$1.25	1.45	1.50
No. 65R Revonoc, each	1.25	1.45	1.50
Width, in.	2¼	2⅜	2½
No. 65—Bailey, each	$1.60	1.65	1.70
No. 65R Revonoc, each	1.60	1.65	1.70

Double, for Iron Bottom Planes.

Width, in.	1⅝	2	2⅛
No. 75—Bailey, each	$1.25	1.45	1.60
No. 75R Revonoc, each	1.25	1.45	1.60
Width, in.	2⅜	2½
No. 75—Bailey, each	$1.65	1.70
No. 75R Revonoc, each	1.65	1.70

HALF DOZEN IN A BOX



Block.
Irons, for Bailey planes, Nos. 9½, 9¾, 15, 15⅓ 16, 17, 18, 19 and 220, each $0.55

Irons, for Revonoc planes, Nos. 9½R, 9¾R, 15R, 15⅓R, 1600R, 1700R, 1800R, 1900R, 6500R, 2200R, each $0.56

Extra Caps and Levers, for Bailey planes, Nos. 9½, 9¾, 15, 15⅓ and 103, each $0.30

Extra Caps and Levers, for Bailey planes, Nos. 18 and 19...each $0.60

HALF DOZEN IN A BOX

Block.
Irons, for **Bailey** planes, Nos. 110 and 130, each $0.45

Irons, for Revonoc planes, Nos. 102R, 103R .....each $0.30

Irons, for Revonoc planes, Nos. 110R and 1300R .....each $0 45

Extra Caps and Screws, for **Bailey** planes, Nos. 110, 220 and 130, each $0 30

Extra Caps and Screws for Revonoc planes, Nos. 110R to 1300R, each $0.30

No. 4—Extra Caps for Nos. 3, 4, 5, 5½, 6 and 7 **Bailey** and Revonoc Planes .....each $0.80

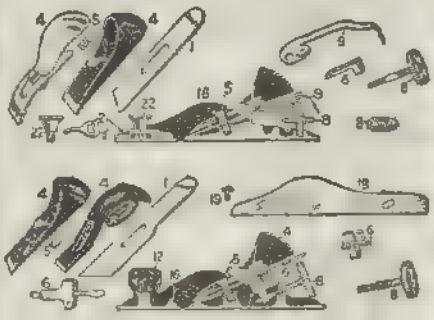
HALF DOZEN IN A BOX

SIEGLEY SINGLE PLANE IRONS

Width, in.	2	2¼	2⅜	2½
Each	$0.85	1.00	1.05	1.10

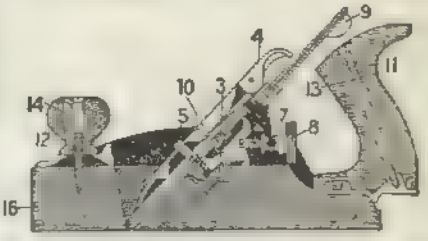
HALF DOZEN IN A BOX

PLANE PARTS

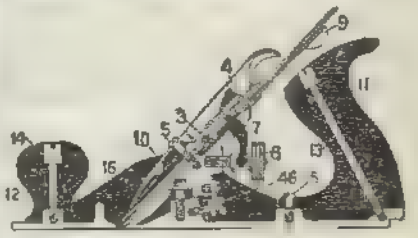


No. 1B—Plane iron.
No. 4B—Cap.
No. 5B—Cap screw.
No. 6B—Frog complete.
No. 7B—Adjusting lever.
No. 8B—Adjusting nut.
No. 9B—Lateral adjustment.
No. 12B—Knob.
No. 16B—Bottom—adjustable throat.
No. 18B—Detached side.
No. 21B—Eccentric plate.
No. 22B—Finger rest knob.

PLANE PARTS



Sectional View of Bailey Wood Planes.



Sectional View of Bailey Iron Planes.

No. 1—Plane iron.
No. 2—Plane iron cap.
No. 3—Plane iron screw.
No. 4—Lever cap.
No. 5—Cap screw.
No. 6—Frog.
No. 7—"Y" adjustment.
No. 8—Brass adjusting nut
No. 9—Lateral adjustment.
No. 10—Frog screw.
No. 11—Handle.
No. 12—Knob.
No. 13—Handle "bolt and nut."
No. 14—Knob "bolt and nut."
No. 15—Handle screw.
No. 16—Bottom.
No. 35—Top casting—wood plane.

BAILEY NEW STYLE

BAILEY OLD STYLE.

An improvement has been made in the "Bailey" Iron Plane which necessitated a change in the construction of the Bottom and Frog, thereby making it impossible to use the new style Frog in an old style Bottom, or the old style Frog in a new style Bottom.

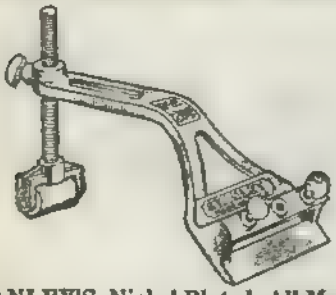
For a time an intermediate style was made having same Frog and Bottom as the latest design, except that there was no Frog adjusting screw, consequently no clip on the Frog.

The latest design Frog or Bottom will be furnished for both the intermediate and new style Planes. If your Plane is of the intermediate pattern, remove the steel clip from the Frog and the parts will fit.

In order that we may fill your order correctly, kindly advise us which style Plane you have.

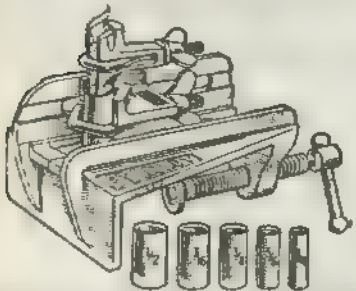
The difference in construction of the Frogs and Bottoms is very clearly shown in the illustration above.

GUTTER AND CHISEL GRINDER



STANLEY'S, Nickel Plated, All Metal.
This device is designed for holding plane irons, chisels and other similar tools so that they may be ground or honed to any desired angle or bevel.
No 200—W't each 1¼ lbs.,
each $1.90
ONE IN A BOX

DOWELING JIG

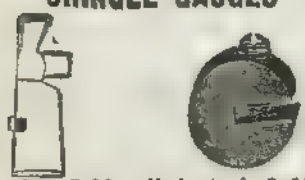


STANLEY'S, Nickel Plated, All Metal.
This tool enables the user to bore dowel holes in the edge, end or surface of any work with ease and accuracy. It is also an excellent bit guide for mortising. Will take any thickness of material up to 3 in.
No. 59—Furnished with five steel guides ¾, 5/16, ⅜, 7/16 and ½ in. long, w't each 1¾ lbs. .....each $3.60
ONE SET IN A BOX
No. 60—Furnished with nine steel guides ¼, 5/16, ⅜, 7/16, ½, 9/16, ⅝, 11/16 and ¾ in., w't 1¾ lbs. ....each $5.20
ONE SET IN A BOX

ROOFING BRACKETS

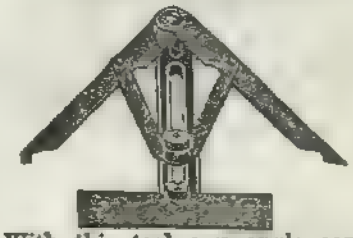
No. 1—Stanley's, steel, japanned, 8 in., w't per doz. 14 lbs.,
per dozen $10.80
HALF DOZEN IN A BOX

SHINGLE GAUGES



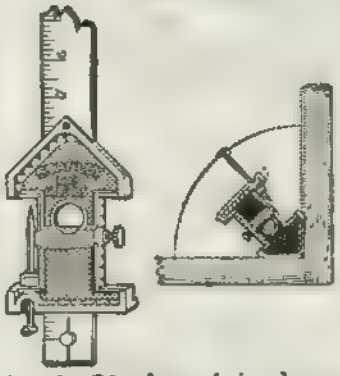
No. 040—Cold rolled steel, ¾x1/16 in., with set screws, w't per doz. ¾ lb.,
per dozen $2 80
HALF GROSS IN A BOX

ANGLE DIVIDERS



With this tool any angle can be found and bisected. Fitting moulding or other woodwork to odd angles can be done with ease and certainty. It is also graduated for parts of circle commonly used. A handy tool for laying out work, can also be used as a try or T square.
No. 30—Stanley's, nickel plated, w't per doz. 8 lbs. ....per dozen $35.20
ONE IN A BOX

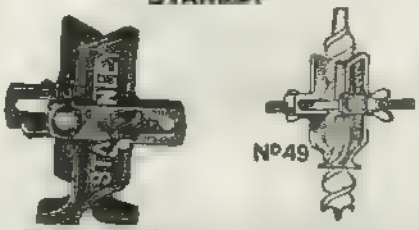
ODD JOBS



No. 1—Stanley, 4 in. long, nickel plated, combines a level, plumb, try square, mitre square, bevel, scratch awl, depth gauge, marking gauge, mortise gauge, beam compass and a one-foot rule. A practical tool for a great many purposes, w't per doz. 8 lbs. .....per dozen $21.20

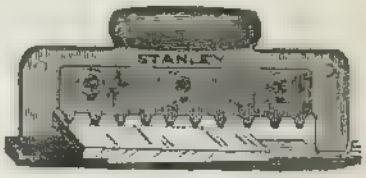
BIT GAUGES

STANLEY

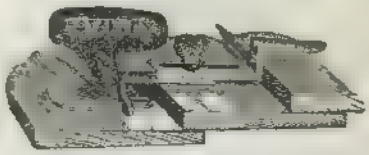


This gauge being adjustable will fit any bit and will always remain secure and accurate. To operate, loosen the thumb screws, insert the shank of the bit, turn the twist of the bit in the gauge to the required depth and tighten the thumb screws, stops on either side prevent the worm being bent or broken. Will hold bits of any size up to 1 in. in diameter.
No. 49—Nickel plated steel, adjustable, w't per doz. 3¾ lbs.,
per dozen $13.70
ONE SET IN A BOX

CLAPBOARD MARKERS AND GAUGES

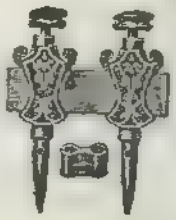


No. 88—Stanley's, clapboard markers, metal stock, wood handle, steel blade, adjustable, w't per doz. 12 lbs. .....per dozen $15.30
ONE IN A BOX

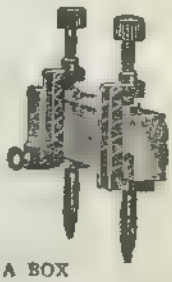


No. 89—Stanley's, clapboard gauges, metal stock, wood handle, steel blade, adjustable, w't per doz. 6 lbs. .....per dozen $16.80
QUARTER DOZEN IN A BOX

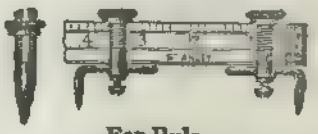
TRAMMEL POINTS



For Bar.
No. 2—Stanley's, cast brass, steel points, with pencil holder, w't per doz. prs. 3¾ lbs., per doz.
prs. $24.50
ONE PAIR IN A BOX



No. 4—Stanley's, iron, nickel plated, steel points, with pencil pocket, w't per doz. prs. 3¾ lbs.
per doz. prs. $18.00
ONE PAIR IN A BOX



For Rule.
No. 99—Stanley's, cast brass, steel points, with pencil socket, w't per doz. pairs 2 lbs.,
per dozen sets $15.60
ONE IN A BOX

BARTLETT'S BEAD PLANES

Side, single boxed, w't each 12 oz.

Nos.	472	472½	473	474
Size, in.	¼	5/16	⅜	½
Each	$1.40	1.40	1.40	1.40

ONE IN A PACKAGE

Center, double boxed, w't each 12 oz.

Nos.	512	513	514
Size, in.	¼	½	¾
Each	$1 70	1.70	1.70

ONE IN A PACKAGE

BARTLETT'S SASH PLANES

No. 169—Ogee, boxed, dovetailed, screw arms, self regulating, w't 2 lbs. .....each $6.00

ONE IN A PACKAGE

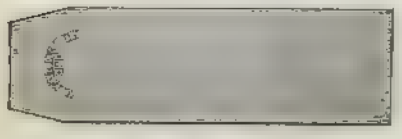
BARTLETT'S MOULDING PLANES

Scotia or Quarter Round. Specify size in ordering.

Nos.	545	546	547
Size, in.	⅝	¾	⅞
W't, each, lbs.	1½	1½	1½
Each	$1.40	1.70	1.80

ONE IN A PACKAGE

PLANE IRONS

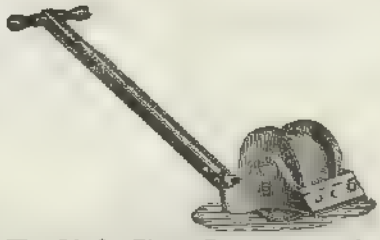


BARTLETT'S, single, for wood bench planes.

Nos.	816	817	818	820
Width, in.	2	2⅜	2½	2⅝
W't, doz., lbs.	6⅛	6⅞	7⅛	8⅛
Each	$0.90	.95	1.00	1.05

ONE DOZEN IN A BOX

FLOOR SCRAPERS



The Little Giant floor scraper is a device used for scraping any kind of a floor. The blade is mounted on a frame at an angle of 60 degrees, and the frame is mounted on four rollers. The large roller is a weight of 65 lbs., and is used to give the pressure upon the blade when the scraper is in operation.

It has a capacity of from five to seven squares (100 square feet in a square) per day. The handle can be shortened, when necessary, for small rooms. Every inch of the floor can be scraped, as the blade extends to the full width of the frame and allows it to go along the base-board and quarter-round strip. Six blades are included with each machine, which will scrape 15,000 square feet of floor.

No. T90—"Little Giant," complete with 6 blades, 7⅞ in. long, 2⅛ in wide, w't crated 105 lbs. ....each $56.00

ONE IN A BOX

EXTRA BLADES

No. 900—For T90 floor scrapers, w't per doz. 2½ lbs. ..per dozen $12.00

ONE DOZEN IN A BOX

The handle can be moved to either side, thus permitting close work in corners.

No. T100—Stearn's, 2—6 in. blades 2½ in. wide, adjustable cross handle, length of handle and braces 38½ in., 5 in. wheels with rubber tires, heavy iron frame, aluminum finished, shipping w't each 135 lbs., each $24.00

ONE IN A BOX; SHIPPING W'T PER BOX 135 LBS.

EXTRA BLADES

No. 1000—For No. T100 floor scrapers, w't per doz. 2 lbs., per dozen $12.00

ONE DOZEN IN A BOX

MORTISE GAUGES

No. 68—Stanley's, 8½ in. beechwood bar marked in 16ths, fixed marking point, plated beechwood head, brass thumb screw, wood slide, w't per doz. 1⅞ lbs. .....per dozen $10.60

HALF DOZEN IN A BOX

No. 73—Stanley's, 6½ in., boxwood bar marked in 16ths, fixed marking point, plated boxwood head, brass thumb screw, brass slide, w't per doz. 2 lbs. .....per dozen $16.00

HALF DOZEN IN A BOX

No. 72—Stanley's, 8½ in., beechwood bar marked in 16ths, fixed marking point, boxwood head, boxwood thumb screw, double bar, w't per doz. 1⅞ lbs. per dozen $8.00

HALF DOZEN IN A BOX

No. 77—Stanley's, 6½ in., rosewood bar marked in 16ths, fixed marking point, plated rosewood head, brass thumb screw, screw slide, w't per doz. 2½ lbs. .....per dozen $22.80

HALF DOZEN IN A BOX

PANEL GAUGES

No. 85—Stanley's, 17½ in., **beechwood** bar marked in 8ths, adjustable marking point, plated beechwood head, boxwood thumb screw, w't per doz. 5⅝ lbs., per dozen $6.40

No. 85½—Stanley's, 20½ in., **rosewood** bar marked in 8ths, adjustable marking point, plated rosewood head, brass thumb screw, w't per doz. 5⅝ lbs. .....per dozen $46.70

NO. 85, ONE DOZEN; NO. 85½, HALF DOZEN IN A BOX

WOOD PLANES

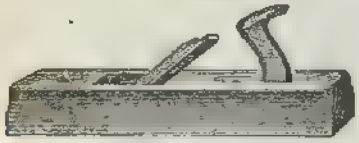
BARTLETT'S BENCH

All Bartlett planes are fitted with superior irons, manufactured from best cast steel and fully warranted.

Smooth.

No. 03—8 in., 2 to 2¼ in. double iron, polished lignumvitae start, w't 2 lbs., each $2.50

ONE IN A PACKAGE



Jack.
Polished Lignumvitae Start.

No. 010—16 in., 2 to 2¼ in., **single** iron, w't 3½ lbs. .....each $2.40

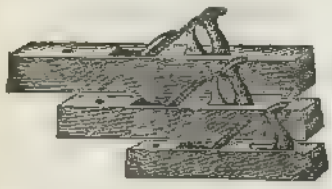
No. 013—16 in., 2 to 2¼ in., **double** iron, w't 3½ lbs. .....each $2.80

ONE IN A PACKAGE

No. 019—22 in., fore, 2⅜ to 2½ in., double iron, polished lignumvitae start, w't 5½ lbs. .....each $4.70

ONE IN A PACKAGE

OGONTZ BENCH



Double Iron, Polished Ebony Start.

8 in. Smooth, 2 to 2¼ in., w't 2 lbs., each $2.30

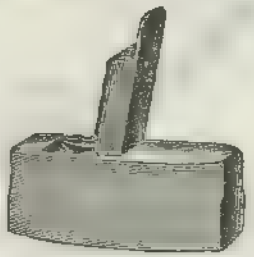
18 in. Jack, 2 to 2¼ in., w't 3⅝ lbs., each $2.60

22 in. Fore, 2⅜ to 2½ in., w't 6 lbs., each $4.30

26 in. Jointer, 2½ to 2⅝ in., w't 7½ lbs., each $4.60

ONE IN A PACKAGE

BARTLETT'S TOOTH



No. 36W—2⅛ in., cast steel iron, w't 1⅝ lbs. .....each $2 70

ONE IN A PACKAGE

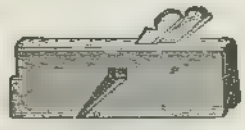
BARTLETT'S DADO

Specify size in ordering.

No. 62B—Screw top, sizes ½, ¾ and ⅞ in., w't 1 lb. .....each $4.00

ONE IN A PACKAGE

BARTLETT'S STEP NOSING



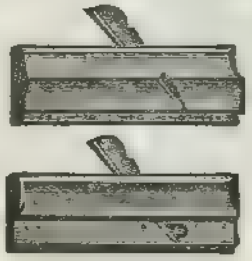
Specify size in ordering.

No. 113½—2 irons, sizes 1⅜ **and** 1½ **in.,** 1½ **in.,** w't 1¼ lbs. .....each $3.00

No. 113½—2 irons, sizes 1⅜ **and** 1½ **in.,** w't 1⅛ lbs. .....each $3.40

ONE IN A PACKAGE

BARTLETT'S BOARD MATCH

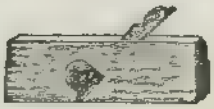


One Pair No. 99.
Specify size in ordering.

No. 199—Sizes ½, ⅝, ¾, ⅞ and 1 in., w't 2¼ lbs. .....per pair $4.20

ONE PAIR IN A PACKAGE

BARTLETT'S SKEW RABBET



Specify size in ordering.

No. 146½—W't 14 oz.—

Size, in.	½	⅝	¾	⅞	1
Each	$1.60	1.65	1.70	1.75	1.80

No. 146½—1¼ in. w't 1¼ lbs., each $1.85

No. 146½—1⅜ in., w't 1⅜ lbs., each $1.90

No. 146½—1⅝ in., w't 1⅝ lbs., each $2.10

ONE PAIR IN A PACKAGE

BARTLETT'S JACK RABBET

No. 149. Side Handle.
With 2 Cutters, Sizes 1½, 1¾ and 2 in. W't 2¼ Lbs.

Specify size in ordering.

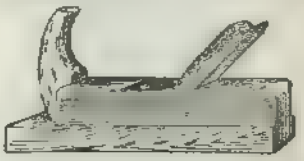
No. 149—Center handle, each $4.70

No. 149—Side handle...each 5.20

ONE PAIR IN A PACKAGE

HORN SCRUB

This plane is imported from Germany where it is extensively used. It has a round nose iron and is especially useful for rough planing.



No. 500—9 in., 1⅝ in. single iron, with horn, white hardwood nicely finished, w't 1⅛ lbs., each $3.00

ONE IN A PACKAGE

Extra iron for No. 500, each $0.80

HORN SMOOTH

No. 400—8½ in., 2 in. double iron, with horn, white hardwood nicely finished, w't 2½ lbs. ....each $4.50

ONE IN A PACKAGE

PLANES
—BLUE GRASS—

Polished hardwood base and knob; perfectly smooth and true face; japanned smooth iron castings; with brass screw adjustments.

—BLUE GRASS—

Wood Bottom Bench. Smooth.

Each

No. 702—Lgth. 9 ins., size cutter 1¾ ins. $6 60

One in a cardboard box; weight each 2⅝ lbs.

—BLUE GRASS—

Wood Bottom Bench, Smooth. Handled.

Each

No. 704 Lgth. 9 ins.; size cutter 2 ins. .. $7 95

One in a cardboard box; weight each 3¼ lbs.

—BLUE GRASS—

Wood Bottom Bench, Jack, Fore and Jointer.

Nos.	Style	Length	Size Cut	Weight	Each
706	Jack	15 in.	2 in.	4 lbs.	$6 90
710	Fore	20 "	2⅜ "	5¾ "	8 85
713	Jointer	24 "	2⅝ "	6½ "	9 45

One in a cardboard box.

Japanned smooth iron castings; polished face and sides; polished mahogany handle and knob; with brass screw adjustment.

—BLUE GRASS—

Iron Bottom Bench. Plain Bottom; Smooth.

Nos.	801	802
Length, inches	8	9
Size cutter, inches	1¾	2
Weight each, lbs.	3¼	3¾
Each	$8 40	9 24

One in a cardboard box.

PLANES

Japanned smooth iron castings, polished face and sides, polished mahogany handle and knob; with brass screw adjustment.

—BLUE GRASS—

Iron Bottom Bench. Corrugated Bottom; Smooth.

Nos.	811	812
Length, inches	8	9
Size cutter, inches	1¾	2
Weight each, lbs.	3	3¼
Each	$9 00	9 75

One in a cardboard box.

—BLUE GRASS—

Iron Bottom Bench. Plain Bottom.

Nos.	804	806
Kind	Jack	Fore
Length, inches	14	18
Size cutter, inches	2	2⅜
Weight each, lbs.	5⅝	7¼
Each	$10 65	13 56

One in a cardboard box.

—BLUE GRASS—

Iron Bottom Bench. Corrugated Bottom.

Nos.	814	815	816	817
Kind	Jack	Jack	Fore	Jointer
Length, inches	14	15	18	22
Size cutter, inches	2	2¼	2⅜	2⅝
Weight each, lbs.	5¾	6	7¼	8½
Each	$11 13	12 51	14 37	16 50

One in a cardboard box.

—BLUE GRASS—Iron Block.

Each

No. 911 Toy Size. Japanned cast iron frame, length 3¼ in.; 1 inch tool steel cutter $0 90

Half dozen in a cardboard box; weight each 2½ lb.

—BLUE GRASS—Iron Block.

Each

No. 912—Not Adjustable. Japanned cast iron frame and cap; length 5½ ins.; 1⅜ in. tool steel cutter $1 77

One in a cardboard box; weight each ¾ lb.

For Blue Grass PLANE IRONS See Page 91.

PLANES

Japanned smooth iron castings; polished face and sides; polished mahogany handle and knob; with brass screw adjustment.

—BLUE GRASS—Iron Block.

Each

No. 913 Adjustable. Japanned cast iron frame and cap; length 6½ ins.; 1⅝ in. tool steel cutter; with screw adjustment $2 46

One in a cardboard box; weight each 1 lb.

—BLUE GRASS—Iron Block.

Double; Not Adjustable. Can be easily used as a regular block plane, or cutter reversed for planing in close corners not easily reached with other planes.

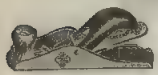
Each

No. 916—Japanned cast iron frame and cap; hardwood knob; length 7¾ inches; 1⅝ inch tool steel cutter ... $3 66

One in a cardboard box; weight each 1¾ lbs.

—BLUE GRASS—Iron Block.

Not Adjustable.



Each

No. 914—Japanned cast iron frame and cap; hardwood knob; length 7½ in; 1⅝ in. tool steel cutter ... $2 46

One in a cardboard box; weight each 1¼ lbs.

—BLUE GRASS—Iron Block.

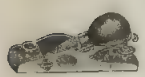
Adjustable.

Each

No. 917—Japanned cast iron frame and cap hardwood knob; length 6 ins.; 1⅝ inch tool steel cutter; with screw adjustment $3 66

One in a cardboard box; weight each 1¾ lbs.

—BLUE GRASS—Iron Block.



Knuckle Joint, Adjustable Mouth. Japanned cast iron frame and knuckle joint; adjustable mouth and patent nut; length 6 inches; 1⅝ inch tool steel cutter with screw adjustment.

Each

No. 906—Weight each 1¾ lbs $5 91

One in a cardboard box.

—BLUE GRASS—Iron Block.

Adjustable Mouth. Japanned cast iron frame and cap; tool steel cutter with screw adjustment; adjustable mouth and patent nut.

Each

No. 900—Length 6 inches; 1⅝ inch cutter $4 80

No. 902—Length 7 inches; 1⅝ inch cutter 5 07

One in a cardboard box; weight each 1½ lbs.

For Blue Grass PLANE IRONS, See Page 91.

PLANES

Best grade seasoned beechwood bottom, knob and handle, varnished; japanned cast iron frame and cap; best quality English steel cutters, sharpened ready for use, screw and lever adjustment, brass screw.

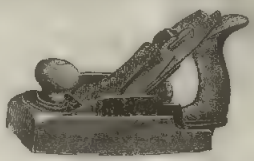
—PINE KNOT—Wood Bottom Bench.

Smooth.

Nos.	PK22	PK24
Length, inches	8	8
Cutter, inches	1¾	2
Weight, each pounds	2	2⅞
Each	$6 36	6 60

One in a card board box.

—PINE KNOT—Wood Bottom Bench.



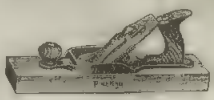
Smooth, Handled.

Each

No. PK35—Length 9 inches, 2 inch cutter; weight each 3¼ pounds $7 50

One in a cardboard box.

—PINE KNOT—Wood Bottom Bench.



Nos.	Kind	Length, ins.	Cutter, ins.	Weight, lbs.	Each
PK26	Jack	15	2	3¼	$6 60
PK27½	"	15	2⅜	4	7 80
PK28	Fore	18	2⅜	5	8 25

One in a cardboard box.

—PINE KNOT—Iron Bottom Bench.

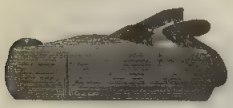
Plain Bottom; Smooth.

Nos.	PK3	PK4	PK4½
Length, inches	8	9	10
Cutter, inches	1¾	2	2⅜
Weight each, lbs	3½	3¾	4¾
Each	$8 07	8 70	10 50

One in a cardboard box.

PLANES

Japanned cast iron frame and cap; polished bottoms and sides; varnished rosewood knob and handle; best quality English steel cutters, sharpened ready for use; screw and lever adjustment, brass screw.



—PINE KNOT—
Iron Bottom Bench.

Corrugated Bottom; Smooth.

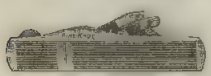
Nos.	PK3C	PK4C	PK4½C
Length, inches	8	9	10
Cutter, inches	1¾	2	2⅜
Weight each, lbs	3½	3¾	4¾
Each	$8 40	8 88	11 40

One in a cardboard box.

—PINE KNOT—
Iron Bottom Bench.
Plain Bottom.

Nos.	PK5	PK5½
Kind	Jack	Jack
Length, inches	14	15
Cutter, inches	2	2¼
Weight each, lbs	4¾	6¾
Each	$9 75	11 64

One in a cardboard box.



—PINE KNOT—
Iron Bottom Bench.

Corrugated Bottom.

Nos.	PK5C	PK5½C	PK7C
Kind	Jack	Jack	Jointer
Length, inches	14	15	22
Cutter, inches	2	2¼	2¾
Weight each, lbs	4¾	6¾	8½
Each	$10 26	11 94	15 69

One in a cardboard box.

Japanned cast iron frames and caps of special high quality, polished bottom and sides, best quality English steel cutters, sharpened ready for use, true screw adjustment.

—PINE KNOT—Iron Block. Each

No. PK101—Toy size, without handle. Length 3½ ins.; 1 in. cutter, wt. each ⅝ lbs $0 87

Half dozen in a cardboard box.

—PINE KNOT—Iron Block. Each

No. PK102—Not Adjustable. Lgth. 5½ ins.; 1¼ in. cutter; wt. each 1 lb $1 74

One in a cardboard box.

—PINE KNOT—Iron Block. Each

No. PK103 Lever adjustment. Lgth. 5½ ins.; 1¼ in. cutter; wt. each 1⅝ lb $2 40

One in a cardboard box.

PLANES

Japanned cast iron frames and caps of special high quality, polished bottom and sides, best quality English steel cutters, sharpened ready for use, true screw adjustment.

—PINE KNOT—Iron Block.

Each

No. PK120—Adjustable. Lgth. 7½ ins.; 1¾ in. cutter; wt. each 1⅝ lbs $3 36

One in a cardboard box.

—PINE KNOT—Iron Block.

Adjustable Throat.
Brass Adjusting Screw.

No.	PK9½
Length, ins	6
Cutter, ins	1⅜
Wt. ea., lbs	1½
Each	$4 56

One in a cardboard box.

—PINE KNOT—Iron Block.

Knuckle Joint. Adjustable, with adjustable throat and brass screw adjustment, nickel plated knuckle joint cap. Has a knuckle joint in the cap which makes it also a lever and placing the cap in position will clamp the cutter securely.

Each

No. PK18—Length 6 inches; 1⅝ inch cutter, weight each 1½ pounds $5 46

One in a cardboard box.

—PINE KNOT—Iron Block.

Adjustable, with adjustable throat screw adjustment. Low angle. The cutter rests on its seat at an angle of only 12 degrees.

Nos.	PK60	PK63
Length, inches	6	7
Cutter, inches	1½	1¾
Weight each, lbs	1¼	1⅝
Each	$5 46	5 82

One in a cardboard box.

—PINE KNOT—Iron Block.

Double End.

Double, not adjustable, seasoned hardwood knob; two slots and two cutter seats; can be used as block plane or by reversing cutter and clamping wedge can be used to plane close up into corners or other difficult places. Each

No. PK130—Length 8 inches, 1¾ inch cutter; weight each 1¾ pounds $3 54

One in a cardboard box.

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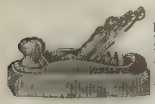
PLANES

BAILEY, Wood Bottom Bench.

Varnished hardwood bottoms, knobs and handles, japanned cast iron frame and cap, tool steel cutter, tempered and polished; screw and lever adjustment.



Smooth.

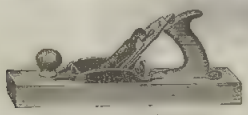
Nos.	22	24
Length, ins	8	8
Width cut, ins	1¾	2
Wt. each, lbs	2¼	8
Each	$6 51	6 87

One in a cardboard box.

Smooth, Handled.

Nos.	35	36
Lgth, ins	9	10
Width cut, ins	2	2⅜
Wt. each, lbs	3½	4
Each	$8 01	9 06

One in a cardboard box.



Jack, Fore and Jointer.

Nos.	Style	Length, inches	Width cut, in.	Weight each, lbs.	Each
26	Jack	15	2	4	$7 11
28	Fore	18	2⅜	5¼	9 00
31	Jointer	24	2⅜	6½	9 66

One in a cardboard box.

Each

Extra Handles, For Nos., 26, 28, and 31 ..... $0 72

Half dozen in a cardboard box; weight per dozen 2 lbs.

BAILEY, Iron Bottom Bench.

Japanned cast iron frame, polished bottoms, sides and caps; varnished rosewood knobs and handles. Tool steel cutters, tempered and polished, screw and lever adjustment.

Plain Bottom, Smooth.

Nos.	2	3	4	4½
Length, inches	7	8	9	10
Width cut, inches	1⅝	1¾	2	2⅜
Weight each, lbs	2¼	3	3½	5
Each	$3 19	3 52	9 33	10 71

One in a cardboard box.

Corrugated Bottom, Smooth.

Nos.	3C	4C	4½C
Length, inches	8	9	10
Width cut, inches	1¾	2	2⅜
Weight each, lbs	3¼	4	5
Each	$8 97	9 81	11 25

One in a cardboard box.

Each

Extra Handles for above planes, except No. 2 ..... $1 26

Half dozen in a cardboard box; weight per dozen 2 lbs.

PLANES

BAILEY, Iron Bottom Bench.

Japanned cast iron frame, polished bottoms, sides and caps; varnished rosewood knobs and handles. Tool steel cutters; tempered and polished, screw and lever adjustment.

Plain Bottom.

Nos.	5	5¼	6	7	8
Style	Jack	Jack	Fore	Jointer	
Length, inches	14	15	18	22	24
Width cut, inches	2	2¼	2⅜	2⅝	2⅝
Weight each, lbs	4¾	6	7	7½	9
Each	$10 71	12 09	13 77	15 75	18 78

One in a cardboard box.

Corrugated Bottom.

Nos.	5C	5¼C	6C	7C	8C
Style	Jack	Jack	Fore	Jointer	
Length, inches	14	15	18	22	24
Width cut, inches	2	2¼	2⅜	2⅝	2⅝
Weight each, lbs	5	6	7	8	9
Each	$11 25	12 69	14 46	16 53	18 63

One in a cardboard box.

Each

Extra Handles for above planes $1 26

Half dozen in a cardboard box; weight per dozen 3 lbs.

BAILEY, Iron Block.

Cast iron frames, polished bottoms and sides, tool steel cutters, tempered and polished. True screw adjustment. Adjustable throat opening, lateral adjustment.

Adjustable, Without Handle.

Japanned Trimmings.

Nos.	9¼	15
Lgth., in	6	7
Width cutter, in.	1⅜	1¾
Wt. each, lbs.	1½	1½
Each	$4 86	5 13

One in a cardboard box.

Per Dozen

Extra Cutters, 1¾ inch $12 00

Half dozen in a cardboard box; weight per dozen 1½ lbs.

With Removable Rosewood Handle.

Japanned Trimmings.

No.	15½
Lgth., ins	7
Width cutter, in	1¾
Each	$6 12

One in a cardboard box, weight each ¾ lb.

Per Doz.

Extra Cutters, 1¾ inch $12 00

Half dozen in a cardboard box; weight per dozen 1½ lbs.

This plane has the cutter set at a very low angle, which is of great advantage when working across the grain. Length 6 inches; width cutter 1½ inches.

Each

No. 60—Nickeled trimmings $5 64

No. 60½—Japanned trimmings 5 10

One in a cardboard box; weight each 1¼ lbs

For Bailey PLANE IRONS, See Page 92.

PLANES

BAILEY, Iron Block.

Cast iron frames, polished bottoms and sides, tool steel cutters, tempered and polished. True screw adjustment. Adjustable throat opening, lateral adjustment.

Knuckle Joint.

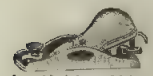
Fitted with a new and patented form of lever or cap. The knuckle joint permits of great leverage, consequently the lever can be placed in position or removed. When clamped in place, it will hold the cutter firmly to its seat. Length 7 ins.; width cutter 1⅝ ins.

	Each
No. 65—Nickel plated trimmings	$6 66
No. 65½—Japanned trimmings	5 49

One in a cardboard box; weight each 1½ lbs.

	Per Dozen
Extra Cutters, 1⅝ inch	$12 00

Half dozen in a cardboard box; weight per dozen 1½ lbs.



Knuckle Joint.

Has a patented form of lever or cap, which, being made entirely of steel. A great improvement in this plane is the great leverage of the knuckle joint, which, when clamped in place will hold the cutter firmly to its seat. Nickel plated cap, lever and screws.

	Each
No. 18—Length 6 inches; 1⅝ inch cutter	$6 00

One in a cardboard box; weight each 1½ lbs.

	Per Dozen
Extra Cutters, 1⅝ inch	$12 00

Half dozen in a cardboard box; weight per dozen 1½ lbs.

STANLEY, Iron Bottom Bench.

The cutter, frog and bottom are so designed that they are practically one solid piece of metal, thus preventing any chance of vibration. Frog may be adjusted either forward or backward without removing lever and cutter, while cutter is adjustable both end wise and side wise.

"Bed Rock", Plain Bottom, Smooth.

Nos.	602	603	604
Length, in.	7	8	9
Size cutter, in.	1⅝	1⅝	2
Wt. each, lbs.	2¼	3¼	3¾
Each	$8 88	9 66	10 41

One in a cardboard box.

"Bed Rock", Corrugated Bottom, Smooth.

Nos.	603C	604C
Length, inches	8	9
Size cutter, inches	1⅝	2
Weight each, lbs.	3¼	3¾
Each	$10 14	10 95

One in a cardboard box.

For Bailey PLANE IRONS, see page 91.

PLANES

STANLEY, Iron Bottom Bench.

The cutter, frog and bottom are so designed that they are practically one solid piece of metal, thus preventing any chance of vibration. Frog may be adjusted either forward or backward without removing lever and cutter, while cutter is adjustable both end wise and side wise.

"Bed Rock", Plain Bottom.

Nos.	605	606	607
Kind	Jack	Fore	Jointer
Length, inches	14	18	22
Size cutter, inches	2	2⅜	2⅜
Weight each, lbs.	6½	7¼	8½
Each	$12 03	15 18	16 52

One in a cardboard box.

"Bed Rock," Corrugated Bottom.

Nos.	605C	606C	607C
Kind	Jack	Fore	Jointer
Length, inches	14	18	22
Size cutter, inches	2	2⅜	2⅜
Weight each, lbs.	6½	7¼	8½
Each	$12 66	15 93	18 39

One in a cardboard box.

Japanned cast iron frames and caps, tool steel cutters, tempered and polished.

STANLEY, Iron Block.

Toy Size. Not Adjustable.

	Each
No. 101—Length 3½ ins.; 1 in. cutter	$0 93

Half doz. in a cardboard box; wt. each ¾ lbs.

	Per Dozen
Extra Cutters, 1 inch	$3 57

Half dozen in a cardboard box; weight per dozen 1 lb.

STANLEY, Iron Block.

Handled. Not Adjustable.

	Each
No. 100—Length 3½ ins.; 1 in. cutter	$1 17

Half dozen in a cardboard box; weight each 1 lb.

	Per Dozen
Extra Cutters, 1 inch	$3 57

Half dozen in a cardboard box; weight per dozen 1 lb.

STANLEY, Iron Block.

Not Adjustable.

	Each
No. 102—Length 5½ ins.; 1⅜ in. cutter	$1 77

One in a cardboard box; weight each 1 lb.

	Per Dozen
Extra Cutters, 1⅜ inch	$5 97

Half dozen in a cardboard box; weight per dozen 1 lb.

D 1

PLANES

Japanned cast iron frame and caps, tool steel cutters, tempered and polished.

STANLEY, Iron Block.

Adjustable.

Each

No. 103—Length 5½ ins.; 1⅝ in. cutter..... $2 49

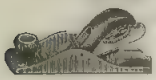
One in a bardboard box; wt. each 1 lb.

Per Dozen

Extra Cutters, 1⅝ inch..... $12 00

Half dozen in a cardboard box; weight per dozen 1 lb.

STANLEY, Iron Block.



Hardwood Knob. Not Adjustable.

Each

No. 110—Length 7½ ins.; 1⅝ in. cutter..... $2 49

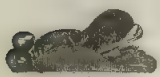
One in a cardboard box; wt. each 1½ lbs.

Per Dozen

Extra Cutters, 1⅝ inch..... $9 06

Half dozen in a cardboard box; weight per dozen 1 lb.

STANLEY, Iron Block.



Lever Adjustment.

Each

No. 120—Length 7 ins.; 1⅝ in. cutter..... $3 51

One in a cardboard box; weight each 1½ lbs.

STANLEY, Iron Block.

Rosewood Knob, Screw Adjustment.

Each

No. 220—Length 7 ins.; 1⅝ in. cutter..... $3 63

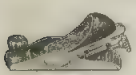
One in a cardboard box; wt. each 1½ lbs.

Per Dozen

Extra Cutters, 1⅝ inch..... $12 00

Half dozen in a cardboard box; weight per dozen 1 lb.

STANLEY, Iron Block.



Rosewood Knob, Screw Adjustment.

No. 203—Length 5½ ins.; 1⅝ in. cutter..... Each $3 15

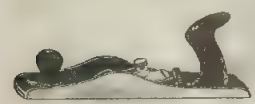
One in a cardboard box; weight each 1 lb.

Per Dozen

Extra Cutters, 1⅝ inch..... $12 00

Half dozen in a cardboard box; weight per dozen 1 lb.

STANLEY, Iron Block.



Adjustable.

Low Angle.

Hardwood handle and knob. Fitted with patent adjustable throat, which enables the user to work equally well on hard or soft wood.

Each

No. 62—Length 14 inches, 2 inch cutter..... $11 97

One in a cardboard box; weight each 4 lbs.

PLANES

Japanned cast iron frame and caps, tool steel cutters, tempered and polished.

STANLEY, Iron Block.

Double End.

Easily used as a block plane or cutter; may be reversed for planing in close corners not easily reached with other planes.

Not Adjustable, Hardwood Knob.

Each

No. 130—Length 8 inches, 1⅝ inch cutter..... $3 63

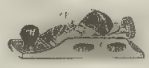
One in a cardboard box; weight each 1¾ lbs.

Per Dozen

Extra Cutters—1⅝ inch..... $9 06

Half dozen in a cardboard box; weight per dozen 1½ lbs.

STANLEY, Iron Block.



Adjustable Double End.

Hardwood knob; has two slots and movable cutter seat. When it is desired to use it as a bull nose plane the cap and cutter can be removed and the adjustable cutter seat reversed.

Each

No. 131—Length 8 inches, 1⅝ inch cutter..... $5 88

One in a cardboard box; weight each 1¾ lbs.

STANLEY, Rabbet and Block.

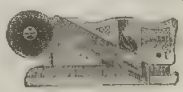
A detachable side will easily change this tool from a block plane to a rabbet plane or vice versa; the cutter is set on a skew.

Each

No. 140—Length 7 ins., 1¾ in. cutter..... $6 36

One in a cardboard box; weight each 2 lbs.

STANLEY, Side Rabbet.



For side-rabbeting and trimming dados, mouldings and grooves of all sorts. A reversible nose piece will give the tool a form by which it will work close up into corners when required.

Each

No. 98—Length 4 inches; 1½ inch cutter..... $4 20

One in a cardboard box; weight each about 1½ lbs.

STANLEY, Bull-nose Rabbet.

Non-adjustable, polished bottom, for general rabbeting and working into close corners.

Each

No. 75—Length 4 inches; 1 inch cutter..... $1 53

One in a cardboard box; weight about ¾ lb.

STANLEY, Carriage Makers' Rabbet.

Varnished rosewood handle and knob; with screw and lever adjustments, adjustable throat.

Each

No. 10½—Lgth. 9 ins., 2⅛ in. cutter..... $11 31

One in a cardboard box; wt. each about 9 lbs.

PLANES

Japanned cast iron frame, tool steel cutters, tempered and polished; true screw adjustment.

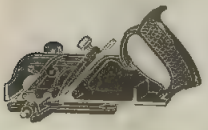
STANLEY, Improved Rabbet.

Japanned cast iron frame and handle. All fitted with detachable depth gauge. No. 190 with spur for working across grain.

	Each
No. 191—Length 8 ins.; 1¼ in. cutter	$5 98
No. 190—Length 8 ins.; 1½ in. cutter	6 27

One in a cardboard box; weight each 2½ lbs.

STANLEY, Duplex Rabbet and Filletster.



Japanned cast iron frame and handle, can be used as a bull nose rabbet. The arm to which the fence is secured can be screwed into either side of the stock, making a superior right or left hand filletster, with adjustable spur and depth gauge.

	Each
No. 78—Lgth. 8½ ins., 1½ in. cutter	$6 99

One in a cardboard box; weight each about 3 lbs.

STANLEY, Rabbet and Filletster.

Japanned cast iron frame, fence and handle. The arm to which the fence is secured can be screwed into either side of the stock, making a superior right or left hand filletster, with adjustable spur and depth gauge, allowing a groove to be cut any desired depth up to ½ inch. The screw at top of frame can be removed allowing the plane to be used as a bull nose rabbet. Plane is also equipped with spur for use in working across the grain.

	Each
No. 278—Length 6¾ in.; 1 in. cutter	$6 81

One in a cardboard box, weight each 2 lbs.

STANLEY, Tongueing and Grooving.

Nickel plated cast iron frame and handle, rosewood knob. Has two plow cutters of the same width, and one extra wide cutter. When the guide or fence is set both cutters work and a tongue can be made. Fence hung on a pivot, can be swung around end for end. This movement covers one of the cutters.

	Each
No. 48—Length 10½ inches; cuts 5/16 inch groove on boards ¾ to 1¼ inches; centers on ⅝ inch	$11 31

One in a cardboard box; weight each 8¾ lbs.

PLANES

Cast iron frame, tool steel cutters, tempered and polished; true screw adjustment.

STANLEY, Double End Match.

Nickel plated cast iron frame, handle and cap. Provided with both tongue and groove irons, both governed by one permanent fence. With one side a tongue can be cut and by reversing ends the plane will cut a groove to fit. Tongueing tools made wide on one side for use on thicker stuff than plane will tongue and groove in the center.

Nos.	147	148
Length, inches	8	9
Size of cutter, inches	5/16	¼
For boards, inches	½ to ¾	¾ to 1
Centers on, inches	⅝	⅞
Weight each, lbs.	2¼	2¾
Each	$9 06	9 60

One in a cardboard box.

STANLEY, Adjustable Circular.

Japanned cast iron frames, caps and handles; polished bottom, can be adjusted to work on concave or convex surfaces; graduated scale on the gears, face can be set to work an arc of the same circle, both concave and convex.

	Each
No. 113—Lgth. 10 ins.; 1¾ in. cutter	$15 81

One in a cardboard box; weight each about 4 lbs.

STANLEY, Plow, Dado, Filletster and Matching.

Nickel plated cast iron, rosewood handle and knob.

Has 8 plow and dado bits, 5/16 to 1¼ inch, one 1½ inch filletster cutter, 1 slitting blade, one ¼ inch tongueing tool. Is readily converted into a filletster, plow or matching plane. All the tools except the slitting blade are secured on the main stock askew.

	Each
No. 46—With 11 cutters, length 10½ inches	$20 94

One in a cardboard box; weight each 6 lbs.

STANLEY, Adjustable Beading, Rabbet and Matching.

Nickel plated cast iron, rosewood handle, knob and fence.

Fitted with an adjustable fence or guide and a depth gauge also with spurs for use when working across the grain.

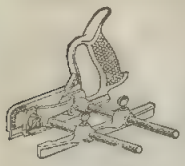
Has one 1½ inch sash tool, one ¼ inch match tool, one slitting tool, one 1¼ inch filletster, eleven plow and dado tools, ⅛ to ⅝ inch, seven beading tools, ⅛ to ½ inch.

	Each
No. 45—With 22 cutters, length 11 inches	$29 82

One in a cardboard box; weight each 9½ lbs.

PLANES

STANLEY, Adjustable. Beading and Matching.



Nickel plated cast iron stock and frame. For ordinary center beading. By adjusting fence, center beading can be done up to 5 inches from the edge of a board. Except for working across the grain, the spurs need not be used. Each plane furnished with 1/4, 1/16, 1/8, 3/16, 3/8, 7/16 and 1/2 inch beading tools, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, and 7/8 inch plow and dado bits, and a pair of 1/4 inch, tongueing tools.

Each

No. 50—With 15 cutters; length 9 1/4 inches $16 29

One in a cardboard box; weight 8 1/2 lbs.

STANLEY, Wood Workers' Handy Router.

Nickel plated, cast iron, beechwood knobs, open throat. Furnished with patented pointed cutters.

Perfectly adapted to smooth the bottom of grooves, panels or all depressions below the general surface of any wood work.

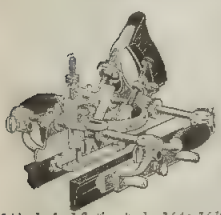
Bits can also be clamped to back side of upright post, and outside of stock. In this position will plane into corners, will router out mortises for sash frame pulleys, or will smooth surfaces not easily reached with any other tool.

Each

No. 71—With one cutter each, 1/4 and 1/2 inch; length 7 1/2 inches $8 67

One in a cardboard box; weight each 2 3/4 lbs.

STANLEY, Patent, Universal.



Consists of a main stock with two sets of transverse sliding arms, a depth gauge adjusted by a screw and a sliding arm, and a sliding cutter with stop. The bottom is adjustable both vertically and laterally.

Has one 1 1/4 inch sash tool, one 1 1/4 inch match tool, one slitting tool, one fillester, eleven plow and dado tools, 1/8 to 1/2 inch, nine beading tools, 1/8 to 3/4 inch, four fluting tools, 1/4 to 3/4 inch, four hollow cutters, 1/2 to 1 inch, four round cutters, 1/2 to 1 inch, two quarter hollow cutters, 1/2 and 3/4 inch, two quarter round cutters, 5/8 and 7/8 inch, three reverse ogee cutters, 1/2 to 1 inch, two Roman ogee cutters, 5/8 and 7/8 inch, three Grecian ogee cutters, 1/2 to 1 inch, two 3/4 round cutters with bead, 5/8 and 7/8 inch, three reeding tools, two beads, 1/8 to 1/4 inch.

Each

No. 55—Nickel plated, cast iron frame, rosewood handles, complete with 53 tool steel cutters tempered and polished, arranged in four separate cases $58 62

One in a cardboard box; weight complete, about 15 1/4 lbs.

PLANES

STANLEY

Adjustable Scraper.

Japanned cast iron frame, rosewood handle and knob. The blade is adjustable endwise and for angle and can be firmly locked in any position desired.

This tool is used for scraping and finishing veneers, cabinet work or hard wood in any form. Can be used equally well as a tooth plane and scraping off old paint and glue.

Each

No. 112—Length 9 inches; 3 inch cutter $9 15

One in a cardboard box; weight each 4 lbs.

Japanned cast iron frames and caps; polished bottoms; tool steel cutters, tempered and polished; stained hardwood handles and knobs.

Iron Bottom, Smooth. Plain Bottom. Not Adjustable.

No.	25S
Lgth., ins.	9
Size cutter, ins.	1 3/4
Wt. each, lbs	1 3/4
Each	$3 30

One in a cardboard box.

Iron Bottom, Jack. Plain Bottom. Not Adjustable.

No.	75J
Length, ins.	13 1/2
Size cutter, ins	2
Wt. each, lbs.	8
Each	$4 80

One in a cardboard box.

WOOD BENCH PLANES

Selected seasoned beechwood, plain finish; extra quality cast steel cutters, tempered, polished starts.

Smooth.

Length 8 inches; width of cut 1 7/8 to 2 inches.

Each

No. 03—Double iron $3 90

Thirty in a case; weight each about 2 lbs.

Jack.

Length 16 ins.; width of cut 2 1/8 to 2 1/4 inches.

Each

No. 015—Double iron $4 50

Thirty in a case; weight each about 5 lbs.

Fore.

Each

No. 021—Double iron; length 22 inches; width of cut 2 3/8 to 2 1/2 inches $7 35

Thirty in a case; weight each about 6 lbs.

PLANE IRONS

All orders for Plane Irons should specify the number of plane for which they are intended.

—BLUE GRASS—

Highest quality tool steel, oil tempered, ground and sharpened.

The improved form of these irons renders it unnecessary to detach the cap iron at any time, as the connecting screw will slide back to the extreme end of the plane iron without danger of falling out. The screw may then be tightened by a turn with thumb and finger, and the cap iron will serve as a convenient handle or rest in whetting or sharpening the cutting edge of plane iron.

—BLUE GRASS—Single.

For iron and wood bottom bench planes.

Nos.	2900-1⅝	2900-1¾	2900-2	2900-2¼
Width cut, inches	1⅝	1¾	2	2¼
Weight per doz., lbs.	2	2½	3	3¼
Each	$1 17	1 26	1 32	1 44

Nos.	2900-2¼	2900-2⅜	2900-2
Width cut, inches	2¼	2⅜	2⅝
Weight per dozen, lbs	3¾	4	5¾
Each	$1 59	1 59	1 65

Third dozen in a cardboard box.

—BLUE GRASS—Double.

For iron and wood bottom bench planes.

Nos.	2901-1⅝	2901-1¾	2901-2	2901-2¼
Width cut, inches	1⅝	1¾	2	2¼
Weight per doz., lbs.	4	4½	5¼	6¼
Each	$1 95	2 22	2 31	2 46

Nos.	2901-2¼	2901-2⅜	2901-2⅝
Width cut, inches	2¼	2⅜	2⅝
Weight per dozen, lbs.	7	7½	8¼
Each	$2 65	2 70	2 76

Third dozen in a cardboard box.

—BLUE GRASS—Block.

	Per Dozen
No. 2916— For Blue Grass Planes No. 916	$7 50
No. 2917— " " " " " 917	7 50
No. 2918— " " " " " 918	9 45
No. 2920— " " " " " 920	9 45

Half dozen in a cardboard box; average weight per dozen 15⅝ lbs.

PLANE IRONS

All orders for Plane Irons should specify the number of plane for which they are intended.

COMMON

Special steel bit, tempered and sharpened.

COMMON, Single.

For common wood bench planes.

Nos.	200-2	200-2⅛	200-2¼
Width cut, inches	2	2⅛	2¼
Weight per dozen, lbs.	6	6½	7½
Per Dozen	$15 75	17 25	18 75

Nos.	200-2⅜	200-2½	200-2⅝
Width cut, inches	2⅜	2½	2⅝
Weight per dozen, lbs	7¾	9	9¾
Per Dozen	$19 20	21 00	21 75

Half dozen in a cardboard box.

COMMON, Double.

For common wood bench planes.

Nos.	201-2	201-2⅛	201-2¼	201-2½
Width cut, in	2	2⅛	2¼	2½
Wt. per doz., lbs	9½	10½	11	12¾
Per Dozen	$27 00	27 75	29 25	30 75

Half dozen in a cardboard box.

BAILEY

Tool steel, tempered and polished, sharpened ready for use.

BAILEY, Single.

For iron and wood bottom bench planes.

Nos.	206-1⅝	206-1¾	206-2
Width cut, inches	1⅝	1¾	2
Weight per dozen, lbs	2	2½	3
Each	$1 08	1 17	1 23

Nos.	206-2⅛	206-2¼	206-2⅜	206-2⅝
Width cut, inches	2⅛	2¼	2⅜	2⅝
Weight per dozen, lbs.	3¼	3½	4	5
Each	$1 35	1 47	1 50	1 53

Half doz. in a cardboard box.

BAILEY, Double.

For iron and wood bottom bench planes.

Nos.	207-1¾	207-2	207-2¼
Width cut, inches	1¾	2	2¼
Weight per dozen, lbs.	4½	5½	6¼
Each	$1 86	2 10	2 22

Nos.	207-2¼	207-2⅜
Width cut, inches	2¼	2⅜
Weight per dozen, lbs.	7	7½
Each	$2 31	2 40

Half dozen in a cardboard box.

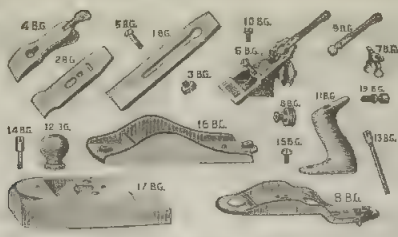
ARE YOU ACQUAINTED WITH THE SERVICE RENDERED BY OUR SPECIAL ENGINEERING DEPARTMENT?

THIS DEPARTMENT IS IN CHARGE OF EXPERIENCED MEN WHO GLADLY WILL GIVE YOU ANY DESIRED INFORMATION.

WRITE US REGARDING YOUR ENGINEERING PROBLEMS.

REPAIRS FOR BENCH PLANES

—BLUE GRASS—



When ordering specify the number of the part and the number of the plane for which the part is wanted.

For Iron Planes.

Nos.	For Planes, Nos.		800 810	801 811	802 812	803 813	804 814	805 815	806 816	807 817	808 818
1BG	Single Steel Cutter	Each	$1 02	+$1 17	$1 17	+$1 29	$1 29	+$1 29	+$1 29	$1 29	+$1 44
2BG	Cap for Steel Cutter	"	+ 78	+ 84	84	+ 96	+ 96	+ 96	+ 96	+ 96	+ 96
3BG	Cap Screw	"	+ 48	+ 48	48	+ 48	48	+ 48	+ 48	+ 48	+ 48
4BG	Clamp	"	1 17	+ 1 17	1 17	+ 1 17	1 17	1 17	1 17	1 17	+ 1 17
5BG	Clamp Screw	"	+ 45	+ 45	45	+ 45	+ 45	+ 45	+ 45	+ 45	+ 45
6BG	Frog Complete	"	+ 1 56	1 56	1 56	+ 1 56	1 56	1 56	1 56	1 56	+ 1 56
7BG	Fork Adjustment	"	63	+ 63	+ 63	+ 63	63	+ 63	63	+ 63	+ 63
8BG	Brass Adjusting Nut	"	+ 69	69	+ 69	+ 69	69	+ 69	+ 69	+ 69	+ 69
9BG	Lateral Adjustment	"	+ 63	+ 63	+ 63	+ 63	+ 63	+ 63	+ 63	+ 63	+ 63
10BG	Frog Screw	"	+ 45	+ 45	45	+ 45	45	+ 45	+ 45	+ 45	+ 45
11BG	Handle	"	96	96	96	96	96	96	96	+ 96	+ 96
12BG	Knob	"	+ 81	+ 81	+ 81	+ 81	+ 81	+ 81	+ 81	+ 81	+ 81
13BG	Handle Bolt	"	+ 75	+ 75	+ 75	+ 75	+ 75	+ 75	+ 75	+ 75	+ 75
14BG	Knob Screw	"	+ 75	+ 75	75	75	75	75	+ 75	75	+ 75
15BG	Handle Screw	"				+ 45	+ 45	+ 45	+ 45	+ 45	+ 45
16BG	Bottom	"	+ 3 75	+ 4 65	+ 4 65	+ 5 25	+ 5 25	+ 6 45	+ 7 65	+10 50	+13 20
19BG	Adjusting Screw	"	+ 45	+ 45	+ 45	+ 45	+ 45	45	+ 45	+ 45	+ 45

For Wood Bottom Planes.

Nos.	For Planes, Nos.		701 702	703	704	705	706	707	710	712 713	714 715
1BG	Single Steel Cutter	Each	+$1 05	+$1 17	+$1 17	+$1 29	+$1 17	+$1 29	+$1 29	+$1 29	+$1 44
2BG	Cap for Steel Cutter	"	+ 84	+ 84	+ 84	+ 96	+ 84	+ 96	+ 96	+ 96	+ 96
3BG	Cap Screw	"	+ 48	+ 48	+ 48	+ 48	+ 48	+ 48	+ 48	+ 48	+ 48
4BG	Clamp	"	+ 1 02	+ 1 02	+ 1 02	+ 96	+ 1 02	+ 1 02	+ 1 02	+ 1 02	+ 1 02
5BG	Clamp Screw	"	+ 45	+ 45	+ 45	+ 45	+ 45	+ 45	+ 45	+ 45	+ 45
6BG	Frog Complete	"	+ 1 44	+ 1 44	+ 1 44	+ 1 44	+ 1 44	+ 1 44	+ 1 44	+ 1 44	+ 1 44
7BG	Fork Adjustment	"	+ 63	+ 63	+ 63	+ 63	+ 63	+ 63	+ 63	+ 63	+ 63
8BG	Brass Adjusting Nut	"	+ 69	+ 69	+ 69	+ 69	+ 69	+ 69	+ 69	+ 69	+ 69
9BG	Lateral Adjustment	"	+ 63	+ 63	+ 63	+ 63	+ 63	+ 63	+ 63	+ 63	+ 63
10BG	Frog Screw	"	+ 45	+ 45	+ 45	+ 45	+ 45	+ 45	+ 45	+ 45	+ 45
11BG	Handle	"	+	+	+ 75	+ 75	+ 75	+ 75	+ 75	+ 75	+ 75
12BG	Knob	"	+ 69	+ 69	+ 69	+ 69	+ 69	+ 69	+ 69	+ 69	+ 69
13BG	Handle Bolt	"			+ 75	+ 75	+ 75	+ 75	+ 75	+ 75	+ 75
14BG	Knob Screw	"	+ 75	+ 75	+ 75	+ 75	+ 75	+ 75	+ 75	+ 75	+ 75
17BG	Bottom	"	+ 1 86	+ 1 86	+ 1 86	+ 2 34	+ 2 34	+ 2 34	+ 3 15	+ 3 54	+ 3 90
18BG	Top Casting	"	+ 1 02	+ 1 02	+ 1 02	+ 1 02	+ 1 02	+ 1 02	+ 1 02	+ 1 02	+ 1 02

+F. O. B. Factory Only.

REPAIRS FOR BLOCK PLANES

—BLUE GRASS—

When ordering specify the number of the part and the number of the plane for which the part is wanted.

Nos.	For Planes, Nos.		910	911	912	913	914	916	917
25BG	Clamp	Each							✚$0 84
26BG	Adjusting Screw	"							✚ 63
27BG	Slide	"							✚ 54
31BG	Steel Cutter	"	✚$0 57	✚$0 57	✚$0 63	✚$0 63	✚$0 75	✚$0 75	✚ 75
34BG	Clamp	"	✚ 45	✚ 45	✚ 63	✚ 63	✚ 63	63	
35BG	Clamp Screw	"	✚ 42	✚ 42					✚ 42
36BG	Bottom	"	✚ 75	✚ 63	✚ 84	✚ 96	✚ 1 17	✚ 1 59	✚ 1 44
37BG	Adjusting Lever	"				✚ 48			
38BG	Adjusting Nut	"				✚ 63			
41BG	Knob	"					✚ 63	✚ 63	✚ 63
45BG	Wheel	"				✚ 63	✚ 63	✚ 63	
47BG	Headless Machine Screw	"				✚ 42			

Nos.	For Planes, Nos.		900	902	903	906	918	920
24BG	Cam	Each	✚$0 54	✚$0 54	✚$0 54	✚$0 54	✚$0 54	✚$0 54
25BG	Clamp	"	✚ 84	✚ 84	✚ 84	✚ 96	✚ 96	✚ 96
26BG	Adjusting Screw	"					✚ 63	✚ 63
27BG	Slide	"					✚ 54	✚ 54
31BG	Steel Cutter	"	✚ 84	✚ 84	✚ 84	✚ 84	✚ 84	✚ 84
35BG	Clamp Screw	"	✚ 42	✚ 42	✚ 42	✚ 42	✚ 42	✚ 42
36BG	Bottom	"	✚ 3 15	✚ 3 45	✚ 3 45	✚ 3 15	✚ 3 15	✚ 3 45
37BG	Adjusting Lever	"	✚ 48	✚ 48	✚ 48	✚ 48		
38BG	Adjusting Nut	"	✚ 63	✚ 63	✚ 63	✚ 63		
39BG	Lateral Adjustment	"	✚ 63	✚ 63	✚ 63	✚ 63		
40BG	Mouth Piece	"	✚ 63	✚ 63	✚ 63	✚ 63	✚ 63	✚ 63
41BG	Knob	"	✚ 63	✚ 63	✚ 63	✚ 63	✚ 63	✚ 63
42BG	Knob Handle	"			✚ 75			
43BG	Handle Casting	"			✚ 63			
44BG	Handle Screw	"			✚ 42			
46BG	Fillister Head Screw	"	✚ 42	✚ 42	✚ 42	✚ 42		
47BG	Headless Machine Screw	"	✚ 42	✚ 42	✚ 42	✚ 42		
48BG	Cog Nut	"			✚ 42			

✚F. O. B. Factory Only.

THE BLUE GRASS TRADE MARK IS YOUR PROTECTION AGAINST INFERIOR MERCHANDISE.

PLANE GAUGES

Gray cast iron, black japanned top frame; nickel plated fence connecting rod, thumb screw and nuts. For attaching to plane as shown in illustration and guiding it in planing bevels of any required angle, or in planing square joints entirely without the use of a try square or bevel.

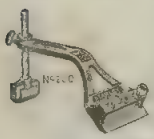
Per Dozen

No. 6—Weight per dozen 18 lbs..... $51 00

One in a cardboard box.

CHISEL AND PLANE BIT GRINDERS

STANLEY



Made entirely of metal, nickel plated.

A device for holding plane irons, chisels and other similar cutting tools that they may be ground or honed to any desired angle or bevel.

Will take any size bit up to 2⅝ inches wide.

Each

No. 200 Lgth. over all 8½ ins..$3 09

One in a cardboard box; weight each about 1½ lbs.

CABINET SCRAPERS

Warranted best cast steel.

Nos.	3-2	3-2½	3-3	3-4
Size, inches	2x4	2½x6	3x5	4x6
Weight per doz., lbs	1	2	3	4
Per Dozen	$2 16	2 52	3 00	3 90

One dozen in a package.

STANLEY
Iron Face.

Per Dozen

No. 80—Japanned cast iron, raised handles, tempered tool steel blade 2¾ inches; may be sprung to a slight curve by means of thumb screw in center of frame; length over all 11 ins..... $36 72

One in a cardboard box; weight per dozen 20 lbs.

Per Dozen

No. 80B—**Extra Irons** for No 80 planes 2¾ in. blade. $6 90

Half dozen in a box; weight per dozen 1 lb.

STANLEY, Wood Face.

Designed to do fine work, such as veneers, etc. The rosewood face reduces friction and also prevents the marring of the surface being worked upon. Face is detachable and can be removed, and either convex or irregular shaped blocks attached.

Per Dozen

No. 81—Nickel plated; best English steel cutter, 2½ ins.; lgth. over all 10 ins..... $59 76

One in a cardboard box; weight per dozen 30 lbs.

No. 81B—**Extra Irons** for No. 81 planes; 2 ins blade 6 90

Half dozen in a box; weight per dozen 1 lb.

CABINET SCRAPERS

STANLEY, Adjustable.

Japanned cast iron frame, polished maple wood handle, improved; adjustable to any desired pitch, works towards or from user; roller acts as a support to relieve the strain on the wrists; handles can be detached for working into corners.

Per Dozen

No. 83—3¾ in. tempered tool steel blade; lgth. over all 9½ inches..... $43 56

One in a cardboard box; weight per dozen 18 lbs.

FLOOR OR CABINET SCRAPERS

—BLUE GRASS—

Best quality crucible steel blade, honed and burnished, ready for use. Front cap heavily nickel plated and polished, under cap blue enameled finish; handle made of birch, mahogany finish.

Handle works on ball and socket, and is adjustable to any angle, up and down right and left.

Per Dozen

No. 472 Length over all 9½ in., width blade, 3 in.; height of head 3½ in..... $51 00

Sixth dozen in a cardboard box; weight per dozen 20 lbs.

Per Dozen

No. 472B—**Extra Blades** for No. 472 plane; width 3 ins..... $15 00

One dozen in a cardboard box; weight per dozen about 2 lb.

STANLEY

The tilting device permits the cutter to be easily and quickly adjusted to any angle required. The cutter stop screws can be adjusted to hold narrow cutters, and prevent their slipping back while working.

Per Dozen

No. 82—Japanned cast iron frame and handle shank, polished maplewood handle and knob; length over all 14½ inches, 3 inch tool steel cutter..... $45 72

One in a cardboard box; weight per dozen 20 lbs.

BISHOP

Per Dozen

No. 2—Plain beechwood handle, 12 inches long, tempered and polished, tool steel blade 3x3 inches, malleable iron clamp and screw..... $21 75

Half dozen in a cardboard box; weight per dozen 9 lbs.

ATKINS

Malleable iron frame and polished nickel plated cross-bar. 3 inch silver steel blade, length over all 11¾ in.

Per Dozen

No. 86—**Perfection**..... $22 50

Half dozen in a cardboard box; weight per dozen 11½ lbs.

PARTS AND SUPPLIES

TO FIT ALL

FORD

MODEL T CARS

The Repair Parts shown in our Parts Price List are all high-grade material. Every part is guaranteed as to quality, accuracy and heat treatment.

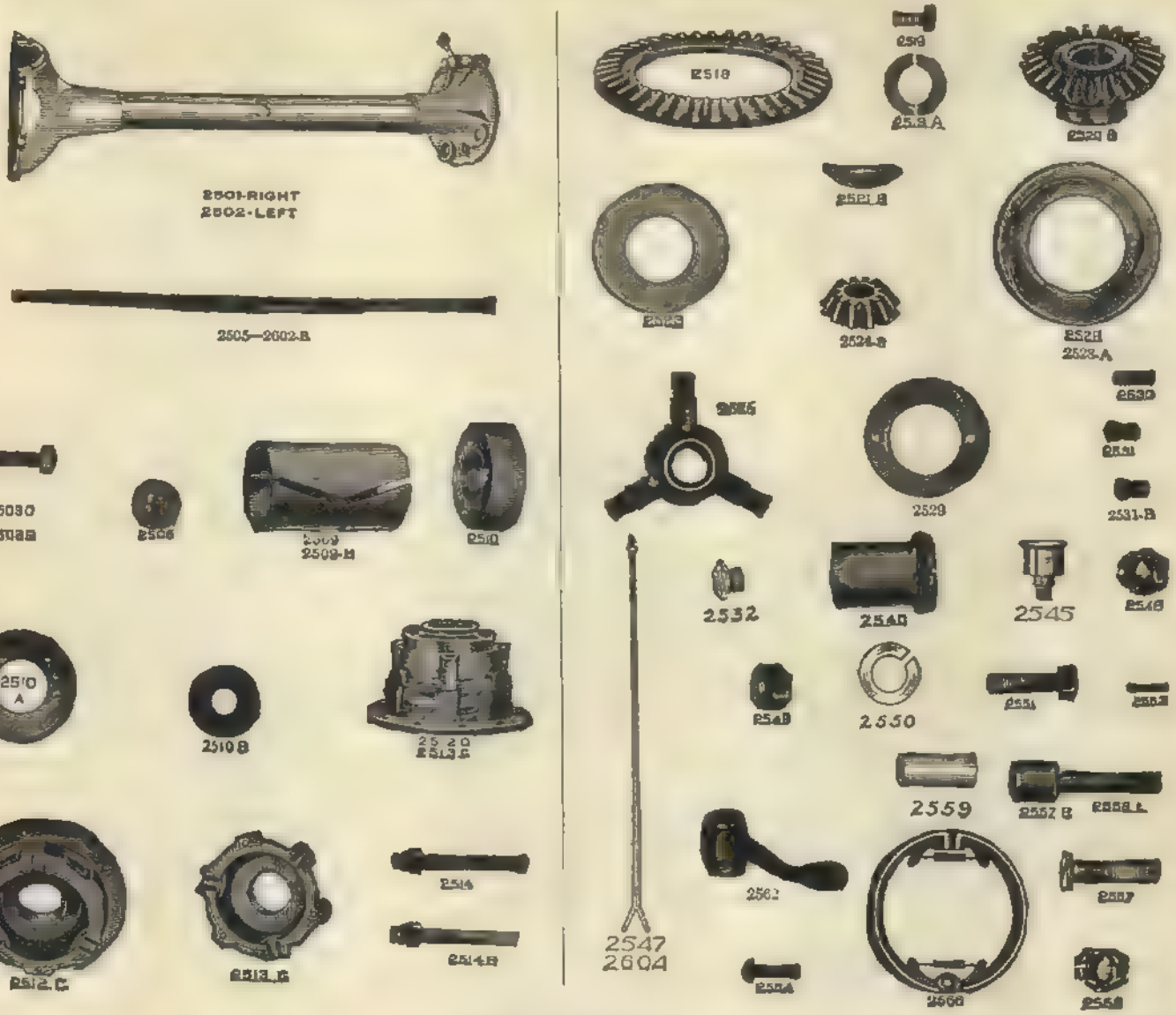
We can buy cheaper material, but it has been our experience that the best is the cheapest.

The Accessories and equipment shown have been selected with great care to improve the running, comfort and appearance of the Ford Car.

C. M. McCLUNG & CO.

KNOXVILLE TENNESSEE

REPLACEMENT PARTS FOR FORD CARS

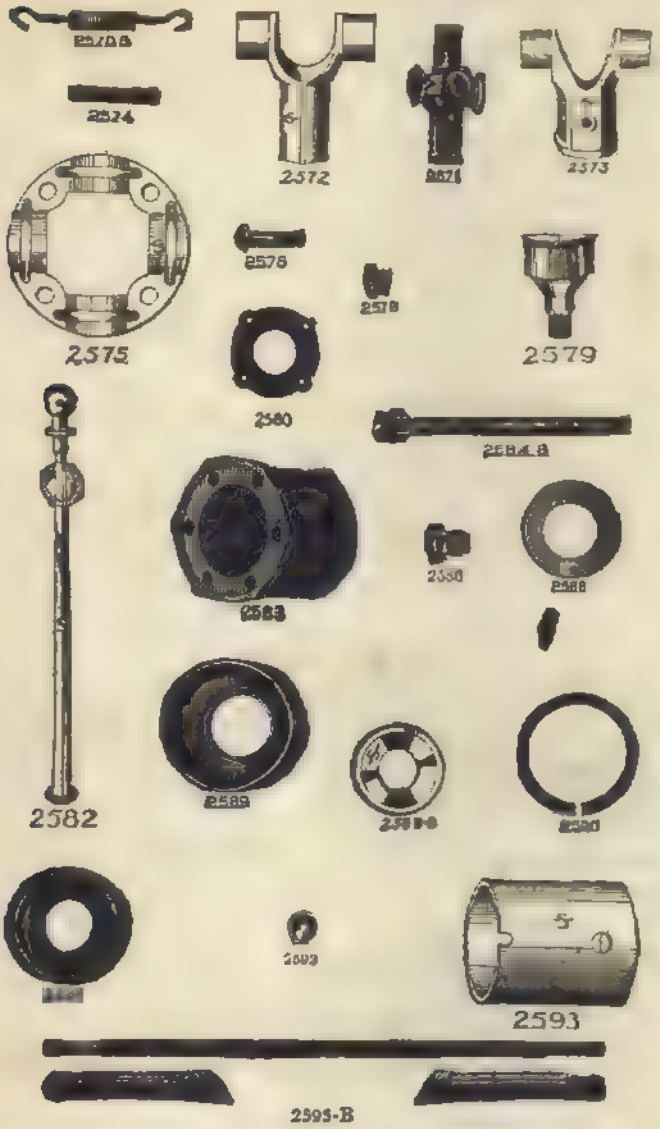


Rear Axle Parts

Part No.	Description	List Price
2501	Axle Housing—Right. 1915-21	$12.00
2502	Axle Housing—Left. 1915-21	12.00
2503C	Axle Housing Bolt and Nut	.05
2503B	Axle Housing Bolt and Nut	.05
2505	Axle Shaft—Tapered	3.00
2506	Axle Shaft Washer	.03
2508R	Right Axle Shaft Roller Bearings complete with 2509 Right Roller Bearing Sleeve, per set	1.80
2508L	Left Axle Shaft Roller Bearings complete with 2509B Left Roller Bearing Sleeve, per set	1.80
2509	Axle Shaft Roller Bearing Sleeve—Right	.30
2509B	Axle Shaft Roller Bearing Sleeve—Left	.30
2510	Axle Housing Cap—1909-19	.05
2510½	Axle Housing Cap—1919-21	.05
2510A	Axle Outer Roller Bearing Steel Washer	.03
2510B	Axle Outer Roller Bearing Felt Washer	.05
2512C 2513C	Differential Cases Assembled	3.60
2512C	Differential Case—Left	2.00
2513C	Differential Case—Right	1.25
2514B	Differential Case Stud and Nut—1915-21	.08
2517	Differential Case Bushing	.40
2518	Differential Drive Gear	5.00
2519	Differential Drive Gear Screw	.05
2519A	Differential Gear Lock Ring (Two Pieces)	$0.03
2520B	Differential Gear—24 Teeth	1.75
2521B	Differential Gear Key	.05
2524C	Differential Pinion—12 Teeth	.60
2526B	Differential Spider	1.00
2528	Differential Thrust Washer (White Metal)	.30
2528A	Differential Thrust Washer (Bronze)	.50
2529	Differential Thrust Plate (Steel) (Hardened)	.15
2530	Differential Thrust Plate Pin	.03
2531B	Differential Thrust Plate Pin—1917-21	.03
2532	Differential Housing Oil Plug	.05
2540	D. S. Housing Front Bushing (New No. 2581)	.50
2545	Rear Axle Grease Cup	.10
2547	Rear Radius Rod	3.50
2548	Radius Rod Nut—⅞x18 threads	.05
2549	Radius Rod Lock Nut—⅞x18 threads	.05
2550	Radius Rod Lock Washer—⅞ in.	.02
2551	Radius Rod Bolt and Nut	.10
2557	Hub Cam Shaft—Right	.20
2558	Hub Cam Shaft—Left	.20
2562	Cam Shaft Lever	.20
2563	Cam Shaft Lever Pin	.03
2564	Lever Clevis Pin—⅞x1	.05
2566	Hub Brake Shoe (Ground finish)	.40

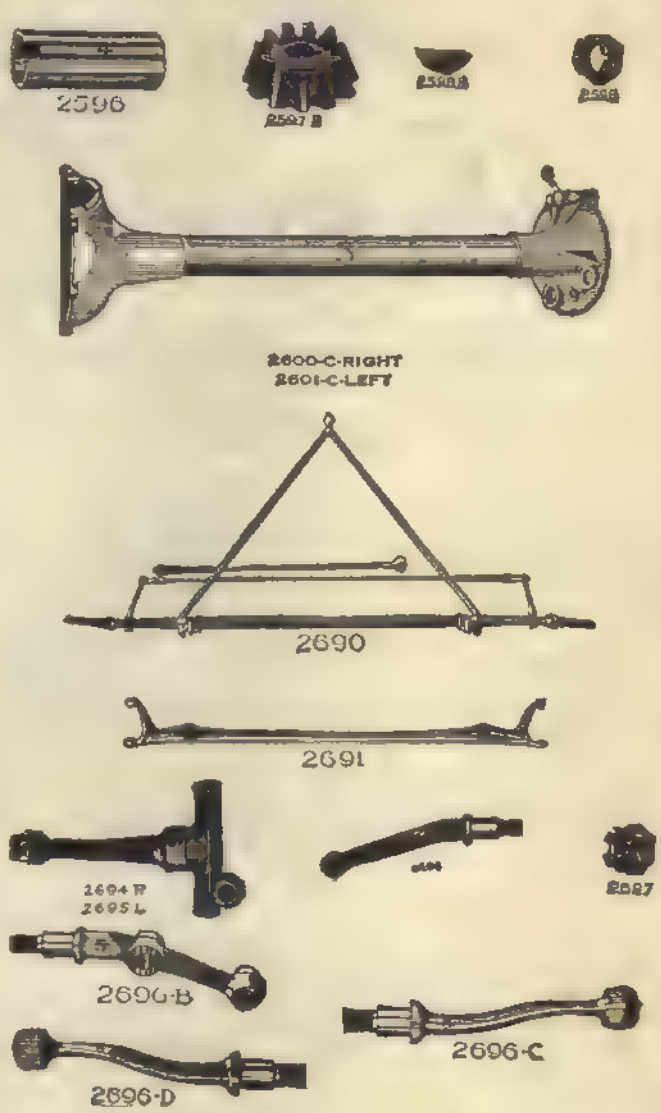
The Parts Listed Above are Guaranteed Perfect in Fit and Workmanship

REPLACEMENT PARTS FOR FORD CARS—Continued



Rear Axle Parts—Continued

Part No.	Description	List Price
2567	Brake Shoe Support Bolt and Nut	$0.10
2568	Brake Shoe Support Nut	.05
2570B	Brake Shoe Coil Spring	.03
2571	Universal Joint Assembly	2.50
2574	Joint Knuckle Pin	.03
2576	Joint Ring Rivets—Per Set of 4	.05
2578	Joint Housing Plug	.05
2579	Ball Joint Grease Cup—⅛ in. pipe thread	.15
2580	Ball Cap Gasket	.05
2581	D. S. Housing Front Bushing (Old No. 2510)	.50
2582	D. S. Tubing	12.00
2583	D. S. Roller Bearing Housing	2.00
2584B	D. S. Stud and Nut	.10
2585	D. S. Stud Nut Only	.05
2586	D. S. Roller Bearing Housing Set Screw	.05
2587	Complete D. S. Roller Bearing with 2596 and 2593 Sleeves only	4.60
2588	D. S. Roller Bearing Distance Plate	.05
2589	D. S. Ball Race	.35



Rear Axle Parts—Continued

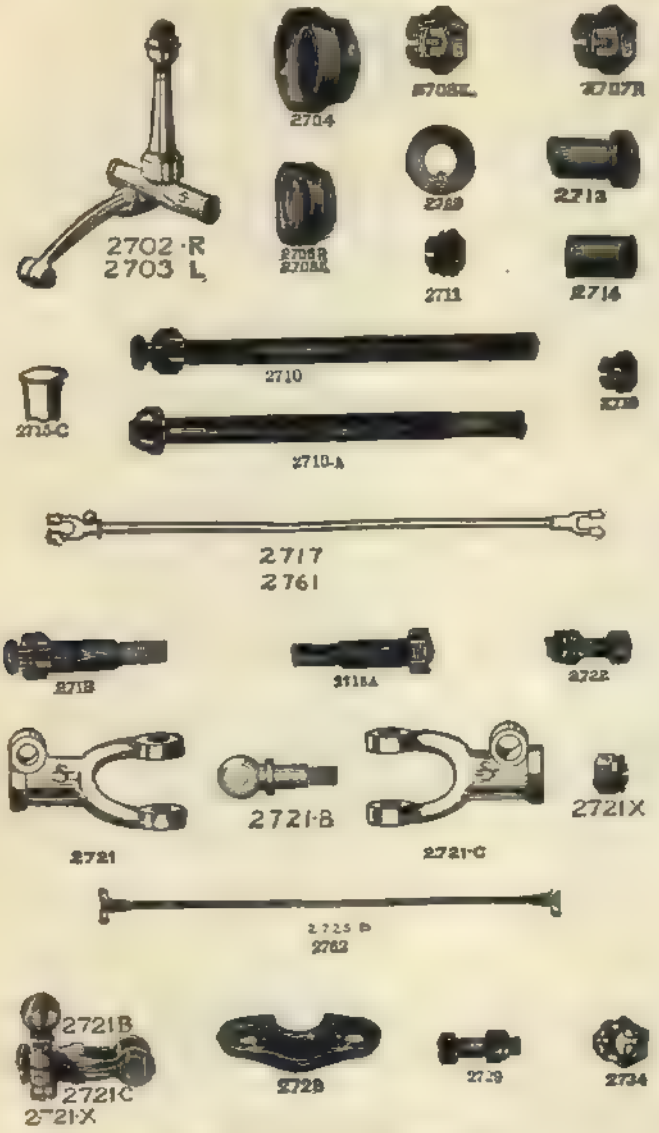
Part No.	Description	List Price
2589B	D. S. Ball Bearing Assembly	$1.00
2590	D. S. Ball Retainer	.03
2591	D. S. Ball Thrust Collar	.30
2592	D. S. Ball Bearings—Order 2811	.03
2593	D. S. Roller Bearing Sleeve	1.90
2595B	D. S. Only (Tapered)	5.00
2596	D. S. Sleeve	1.20
2597B	D. S. Pinion (3½% Nickel)	2.00
2598	D. S. Castle Nut	.10
2598B	D. S. Pinion Key	.05

Front Axle Parts

2690	Front Axle Assembly. 1909-21	28.00
2691	Front Axle only. 1909-20	14.00
2694	Spindle Body—Right	2.50
2695	Spindle Body—Left	2.50
2696	Spindle Arms—Right and Left—1911-19	.75
2696C	Spindle Arm—Right—1919-21	.75
2696D	Spindle Arm—Left—1919-21	.75
2697	Spindle Arm Nut—Order 2548	.05

The Parts Listed Above are Guaranteed Perfect in Fit and Workmanship

REPLACEMENT PARTS FOR FORD CARS—Continued



Front Axle Parts—Continued

Part No.	Description	List Price
2702	Spindle Assembly—Right	$5.00
2703	Spindle Assembly—Left	5.00
2704	Stationary Cone (Polished)	.20
2705	Adjusting Cone (Right thread)	.25
2706	Adjusting Cone (Left thread)	.25
2707	Spindle Nut (Right thread)	.10
2708	Spindle Nut (Left thread)	.10
2709	Spindle Washer	.02
2710	Spindle Bolt with Oiler	.25
2711	Spindle Bolt Nut—Order 2568	.05
2713	Spindle Body Bushing (New Style Bronze) pair	.30
2714	Spindle Arm Bushing (Steel)	.05
2715	Spindle Oiler—1909-16—Order 3817	.05
2717	Steering Spindle Con. Rod	2.50
2718	Spindle Con. Rod Bolt (With Oiler)	.20
2719	Spindle Con. Rod Bolt Nut—⅜x20 thread	.03
2721B	Spindle Con. Rod Yoke Ball, 1919-21	.30
2721C	Spindle Con. Rod Yoke, 1919-21	.10
2722	Steering Yoke Clamp Bolt and Nut	.10
2725B	Steering Gear Con. Rod	1.00
2728	Ball Socket Cap	.15
2729B	Ball Socket Bolt and Nut—Order 2722	.10

Front Axle Parts—Continued

Part No.	Description	List Price
2733	Front Radius Rod—1909-19	$3.00
2733B	Front Radius Rod—1919-21	3.00
2734	Front Radius Rod Nut—Order 2548	.05
2736	Front Radius Ball Cap	.15
2737	Front Radius Rod Ball Socket	.30
2741	Radius Rod Ball Cap Stud and Nut	.06
2742	Radius Rod Ball Cap Spring	.03

Wheels

2800	Front Wheel (Without Hub)	6.00
2803	Front Hub Assembly (Less Flange, Bolts and Nuts)	3.50
2804	Outer Race—1909-19	.15
2804B	Outer Race—Assembled with Balls—1909-19	.50
2804A	Outer Race (New Style) 1919-21	.15
2804AB	Outer Race (New Style) Assembled with Balls—1919-21	.50
2805	Inner Race	.25
2805B	Inner Race—Assembled with Balls	.75
2806	Outer Ball Retainer	.02
2807	Inner Ball Retainer	.03

The Parts Listed Above are Guaranteed Perfect in Fit and Workmanship

REPLACEMENT PARTS FOR FORD CARS—Continued

Wheels—Continued

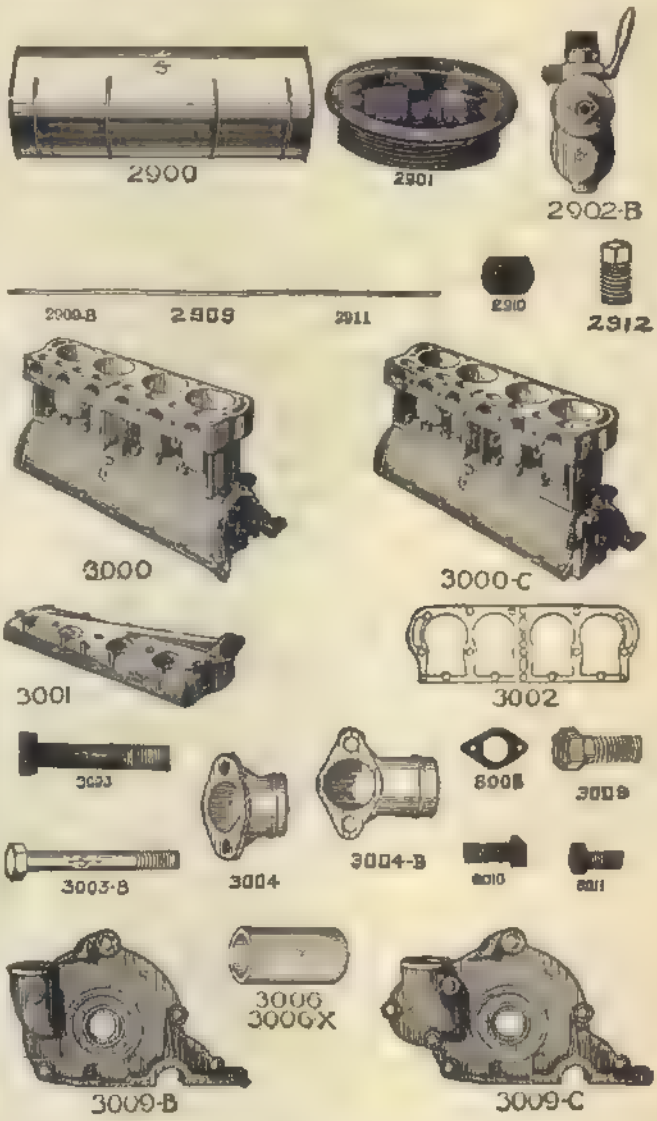
Part No	Description	List Price
2808	Dust Ring—Steel	$0.10
2809	Front and Rear Hub Felt Washer	.05
2810	Large Balls—⅜ in.	.04
2811	Small Balls—⅜ in.	.03
2814C	Rear Wheel (without Hub)	6.00
2815C	Rear Hub (Tapered) (Less Flange, Bolts and Nuts)	2.50
2816B	Rear Hub Key (For Tapered Axle)	.05
2818	Rear Hub Brake Drum	.60
2819	Hub Cap (Nickel Plated—Heavy Gauge like Ford's)	.20
2825	Hub Bolt and Nut	.06
2827	Hub Flange	.30
2828	Rear Hub Lock Nut	.10

Frame Parts

2853	Front Cross Member	1.40

Gasoline Tank Parts

2901	Filling Plug	.10



Gasoline Tank Parts—Continued

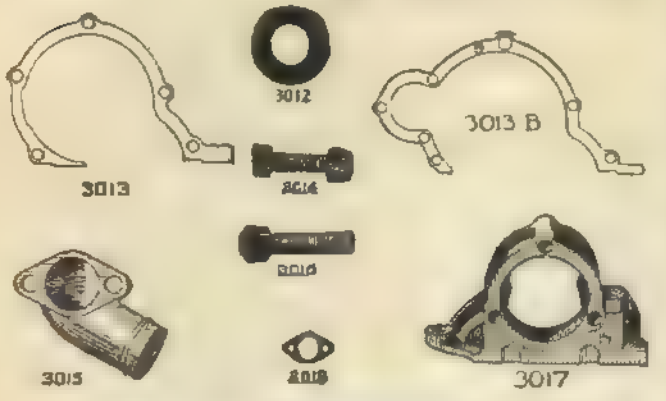
Part No	Description	List Price
2908	Pet Cock (Same as 3079)	$0.25
2909	Feed Pipe (Touring and Runabout)	.50
2910	Feed Pipe Pack Nut	.05
2913	Feed Pipe Gasket	.02

Motor Repair Parts

3000C	Cylinder Block—Starter type	35.00
3001	Cylinder Head	8.00
3002	Cylinder Head Gasket	.50
3003	Cylinder Head Cap Screw—1909-18—2⅛ in.	.05
3003B	Cylinder Head Cap Screw—1918-21—3¼ in.	.05
3004B	Cylinder Head Outlet Connection—1917-21	.35
3005	Cylinder Head Outlet Con. Gasket	.05
3006	Cylinder Head Outlet Hose (2x4 in.)	.30
3007	Cylinder Head Outlet Hose Clip	.05
3008	Cylinder Head Outlet Con. Screw	.05
3010	Cylinder Cover Bolt and Nut	.06
3011	Cylinder Cover Cap Screw	.05

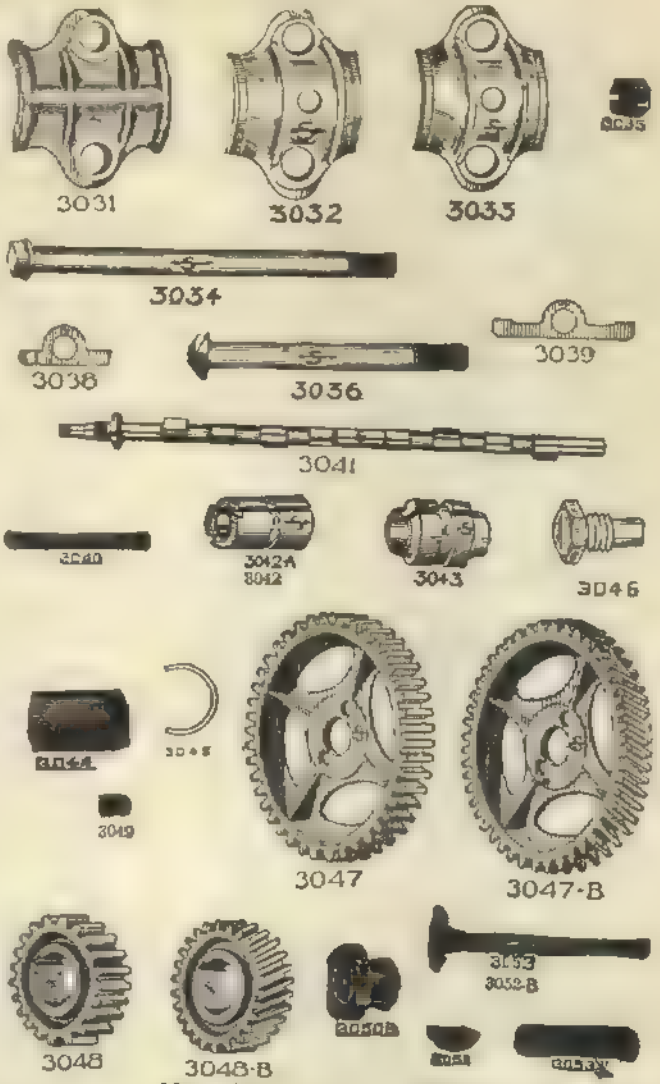
The Parts Listed Above are Guaranteed Perfect in Fit and Workmanship

REPLACEMENT PARTS FOR FORD CARS—Continued



Motor Repair Parts—Continued

Part No.	Description	List Price
3012	Cylinder Cover Felt	$0 05
3013	Cylinder Cover Liner, 1909-19	.02
3013B	Cylinder Cover Liner—Starter type	.03
3014	Cylinder Cover and Crank Case Bolt and Nut Order 2722	.10
3015	Cylinder Head Inlet Conn.	.35
3016	Cylinder Inlet Con. Screw	.05
3018	Cylinder Water Inlet Gasket	.05
3019B	Cylinder Water Jacket Plug—1914-21	.02
3020	Piston Complete	2.80
3020A	Piston Complete, .0025 Oversize	2.80
3020B	Piston Complete, .005 Oversize	2.80
3020C	Piston Complete, .010 Oversize	2.80
3020D	Piston Complete, .025 Oversize	2.80
3020E	Piston Complete, .033 Oversize	2.80
3022	Piston Pin	.35
3022½	Piston Pin Bushing, pair	.35
3023	Piston Ring—Step Cut	.15
3023A	Piston Ring (.0025 Oversize)—Step Cut	.15
3023B	Piston Ring (.005 Oversize)	.15
3023C	Piston Ring (.015 Oversize)—Step Cut	.15
3023D	Piston Ring (.025 Oversize)—Step Cut	.15
	American Hammered Ford Special Rings:	
	Standard	.75
	.005 Oversize	.75
	.010 Oversize	.75
	.015 Oversize	.75
	.020 Oversize	.75
	.025 Oversize	.75
	03125 Oversize	.75
3024	Connecting Rod	.75

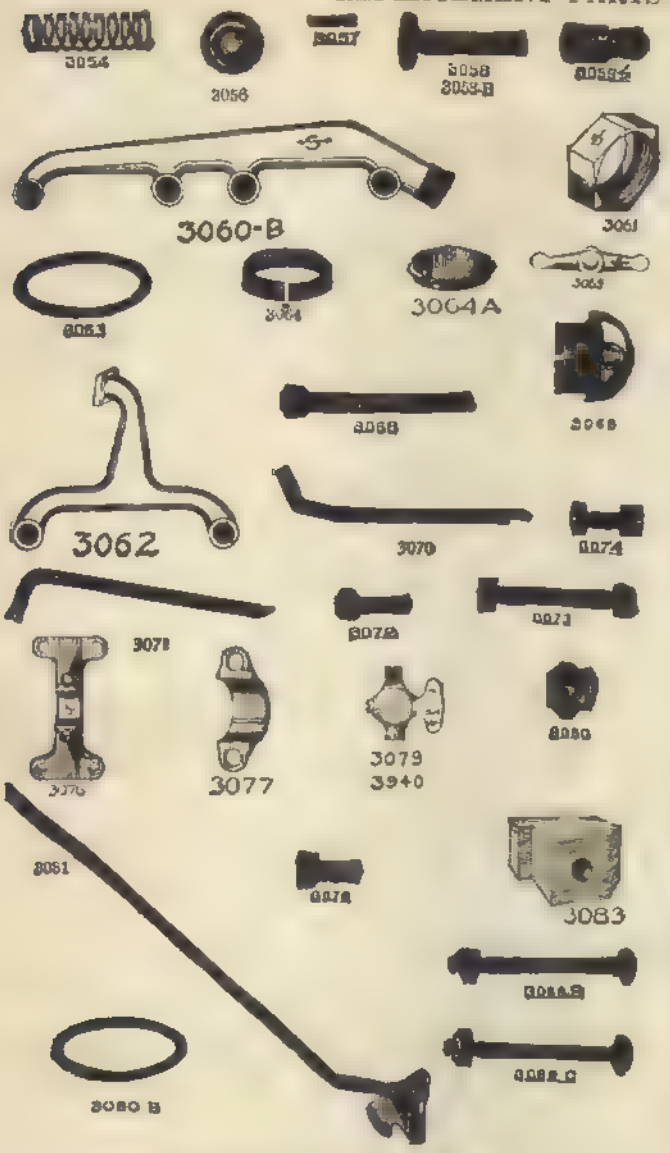


Motor Repair Parts—Continued

Part No.	Description	List Price
3024A	Connecting Rod Shim	$0.02
3025	Connecting Rod Cap Bolt and Nut	.10
3029	Connecting Rod Clamp Screw	.06
3030	Crank Shaft—Chrome Vanadium	15.00
3031	C. S. Rear Bearing Cap	.90
3032	C. S. Front Bearing Cap	.65
3033	C. S. Center Bearing Cap	.65
3034	C. S. Bearing Bolt (Center and Front)	.15
3035	C. S. Bearing Bolt Nut—Order 2568	.05
3036	C. S. Rear Bearing Bolt	.15
3038	C. S. Bearing Liner—Center and Front	.01
3039	C. S. Bearing Liner—Rear	.01
3040	C. S. Starting Pin	.05
3041	Cam Shaft	6.00
3042A	Cam Shaft Front Bearing (Ford's New Style, Babbitt Lined)	.60
3043	Cam Shaft Center Bearing	.60
3044	Cam Shaft Rear Bearing	.20
3045	Cam Shaft Bearing Ring	.05
3046	Cam Shaft Bearing Set Screw	.05
3047B	Time Gear—Large (On Cam Shaft)—Spiral	1.50
3048B	Time Gear—Small (On Crank Shaft)—Spiral	1.25
3049	Cam Shaft Gear Dowel Pin	.05
3050B	Cam Shaft Large Gear Lock Nut	.15
3051	Small Time Gear Key	.05
3052	Valve	.20
3052B	Valve (⅛ in. Oversize Stem)	.20
3053½	Valve Bushing	.30

The Parts Listed Above are Guaranteed Perfect in Fit and Workmanship

REPLACEMENT PARTS FOR FORD CARS—Continued



Motor Repair Parts—Continued

Part No.	Description	List Price
3054	Valve Spring	$0.05
3056	Valve Spring Seat	.05
3057	Valve Spring Seat Pin—Per Set of 8	.05
3058	Push Rod	.15
3058B	Push Rod (½ in. Oversize Stem)	.15
3059½	Push Rod Bushing	.30
3060B	Exhaust Manifold	2.00
3061	Exhaust Pipe Pack Nut	.30
3062	Inlet Pipe	1.75
3063	Inlet and Exhaust Pipe Gasket	.03
3064	Inlet and Exhaust Pipe Gland	.03
	"2 in 1" Gasket (3063 and 3064)	.06
3065	Inlet and Exhaust Pipe Clamp	.15
3066	Inlet and Exhaust Clamp Stud and Nut	.08
3068	Breather Pipe	.10
3070	Crank Case and Cylinder Gasket—Left	.10
3071	Crank Case and Cylinder Gasket—Right	.10
3072	Crank Case and Cylinder Cover Cap Screw	.10
3073	Crank Case Arm Bolt and Nut (Side)	.06
3074	Crank Case Arm Bolt and Nut (Top)	.08
3078	Crank Case Front Bearing Screw	.05
3079	Crank Case Oil Cock	.25
3080	Crank Case Drain Cup Plug Order 2532	.05
3080B	Crank Case Drain Cup Plug Gasket	.03
3088B	Engine Pan and Hood Board Bolt and Nut, 3¼"	.05

Motor Repair Parts—Continued

Part No.	Description	List Price
3088C	Engine Pan and Hood Board Bolt and Nut, 3½"	$0.05
3102	Crank Case Lower Cover Gasket	.10
3103	Crank Case Lower Cover Screw	.05
3110	Cylinder Valve Cover	.15
3111B	Cylinder Valve Cover Gasket	.05
3112	Cylinder Valve Cover Stud and Nut	.10

Commutator Repair Parts

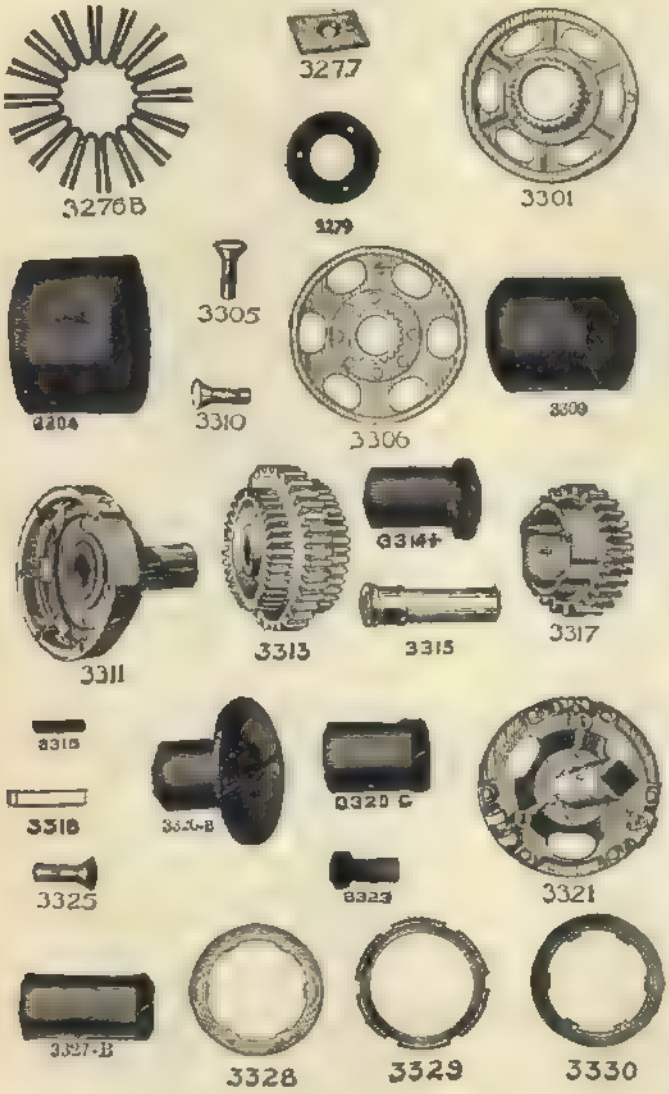
	Commutator—Milwaukee	2.10
	Commutator—Red Star	2.00
	Commutator—J. & B.	1.50
3162	Com. Case Support Bolt—1912-19	.05
3162B	Com. Case Support Bolt—Starter type	.07
3165A	Com. Brush Only (Bronze)	.75
3177	Com Felt Ring	.03
3221	Com. Case with Fibre—Assembled	.90
3222	Commutator Shield	.03

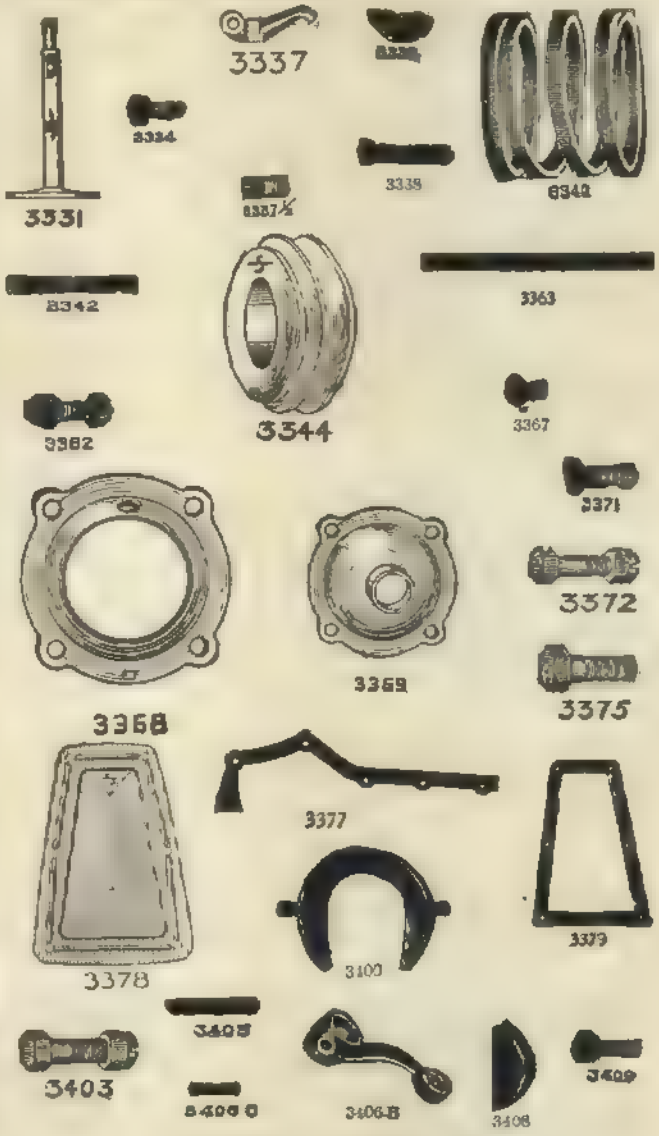
Magneto Parts

3252	Magneto Spool Support Screw	.05
3254	Magnet Bolt	.05
3257	Magnet Brass Support	.05
3260	Magneto Contact Assembly	.35
3262	Magneto Contact Spring	.05
3270	Fly Wheel Cap Screw	.15
3271	Fly Wheel Dowel Pin	.05

The Parts Listed Above are Guaranteed Perfect in Fit and Workmanship

REPLACEMENT PARTS FOR FORD CARS—Continued





Magneto Repair Parts—Continued

Part No.	Description	List Price
3279	Magnet—Contact Washer	$0.03

Transmission Parts

3301	Trans. Reverse Plate Assembly	4.00
3304	Trans. Reverse Gear Bushing—Rear	.70
3306	Trans. Slow Speed Assembly	3.50
3309	Trans. Slow Speed Gear Bushing	.60
3311	Trans. Brake Drum Assembly	4.50
3313	Trans. Triple Gear Assembly	3.00
3314	Trans. Triple Gear Bushing	.40
3314½	Trans. Triple Gear Flanged Bushing	.40
3315	Trans. Triple Gear Shaft	.25
3317	Trans. Driven Gear	1.25
3318	Trans. Driven Gear Key	.05
3320B	Trans. Driven Gear Sleeve Bushing	.60
3320C	Trans. Driven Gear Sleeve Bushing	.35
3321	Trans. Driving Plate Assembly	5.00
3323	Trans. Driving Plate Screw—Order 3371	.05
3327B	Trans. Driving Plate Bushing	.30
3328	Trans. Thrust Plate—Small	.15
3329	Trans. Thrust Plate—Large	.20
3330	Trans. Distance Plate	.30
3331	Transmission Gear Shaft	2.50
3333	Trans. Clutch Disk Drum Key	.05

Transmission Parts—Continued

Part No.	Description	List Price
3334	Trans. Clutch Disk Drum Set Screw	$0.06
3337	Trans. Clutch Finger	.25
3340	Trans. Clutch Spring	.40
3341	Trans. Clutch Spring Support	.15
3342	Trans. Clutch Spring Thrust Pin	.05
3344	Trans. Clutch Shift	1.00

Transmission Cover Parts

3362	Trans Cover Bolt and Nut—Order 2722	.10
3363	Trans. Cover Gasket (Front)	.05
3367	Trans. Cover Door Screw	.02
3368	Universal Ball Cap (Rear)	.50
3369	Universal Ball Cap (Front)	1.75
3371	Universal Ball Cap Screw	.05
3372	Universal Ball Cap Bolt and Nut—Order 2722	.10
3375	Trans. Cover Screw—Order 3072	.10
3377B	Transmission Cover Gasket—Pair	.15
3379B	Trans. Cover Sloping Door Gasket	.10
3381	Bendix Cover Gasket—1919-21	.03

Transmission Control Parts

3400	Trans. Clutch Release Ring	.30
3405	Clutch Lever Pin	.02
3406B	Clutch Release Fork—R. and L.	.30
3406C	Clutch Release Fork Pin—Order 3405	.02

The Parts Listed Above are Guaranteed Perfect in Fit and Workmanship

REPLACEMENT PARTS FOR FORD CARS—Continued

Transmission Control Parts—Continued

Part No.	Description	List Price
3411	Clutch Lever Clevis Pin—Order 2564	$0.05
3413	Trans. Band Assembly	.75
3416	Trans. Band Lining—White	.25
	Transmission Lining, Raybestos, per set	2.00
	Transmission Lining, Cork Insert, per set	3.50
	Transmission Lining, Chatterless, per set	1.25
...	Transmission Lining, Garco, per set	1.00
3419	Trans. Band Adjusting Screw	.15
3420	Trans. Band Adjusting Screw Nut	.05
3425	Trans. Band Spring	.05
3427	Slow Speed Shaft	.25
3432	Speed Lever	.10
3433	Speed Lever Clevis Pin	.03
3437	Brake and Reverse Support Bolt and Nut	.08

Transmission Control Parts—Continued

Part No.	Description	List Price
3441	Pedal Pin—Order 3405	$0.02
3447	Slow Speed Con. Clevis	.15
3448	Controller Quadrant	.25
3450	Controller Shaft Bracket	.20
3452	Controller Shaft Bracket Bolt and Nut	.05
3456B	Hand Brake Lever Pin—Order 2574	.03
3466	Hub Brake Lever Pin—Order 3405	.02
3467	Hub Brake Lever Clevis—Order 3447	.15
3468	Hub Brake Pull Rod—R	.75
3469	Hub Brake Pull Rod—L	.75
3470	Hub Brake Rod Support—Right	.10
3471	Hub Brake Rod Support—Left	.10
3472	Hub Brake Rod Support Bolt and Nut	.05

The Parts Listed Above are Guaranteed Perfect in Fit and Workmanship

REPLACEMENT PARTS FOR FORD CARS—Continued

Steering Gear Repair Parts

Part No	Description	List Price
3518	Steering Gear Pinion Pin	$0.05
3523	Steering Gear Post Castle Nut	.05
3524E	Throttle Rod	.50
3525E	Lead Rod	.50
3527	Lead and Throttle Rod Spring	.03
3530	Lead Rod Lever	.15
3531	Throttle Rod Lever	.15
3532	Throttle Rod Guide	.10
3534B	Commutator Pull Rod	.10
3535	Carburetor Pull Rod	.10
3536	Ball and Socket Joint	.10
3537	Ball and Socket Joint Nut	.02
3541	Steering Post Bracket Felt Washer	.03
3545	Steering Post Bracket Bushing (Pair)	.30
3547	Steering Gear Ball Arm	.60
3548	Steering Gear Ball Arm Key	.05

Body Parts

3601B	Body Bracket on Body	.15
3602D	Body Bracket Connecting Bolt and Nut	.06
3602E	Body Bracket Connecting Bolt and Nut	.06
403	Front Floor Rubber Mats, 1919-21, Starter Model	2.00
3624E	Front Floor Rubber Mat, 1915-20	2.00
3626B	Floor Board (First)	.75
3627B	Floor Board (Second)	.75
3628	Floor Board (Third)	.90

Body Parts—Continued

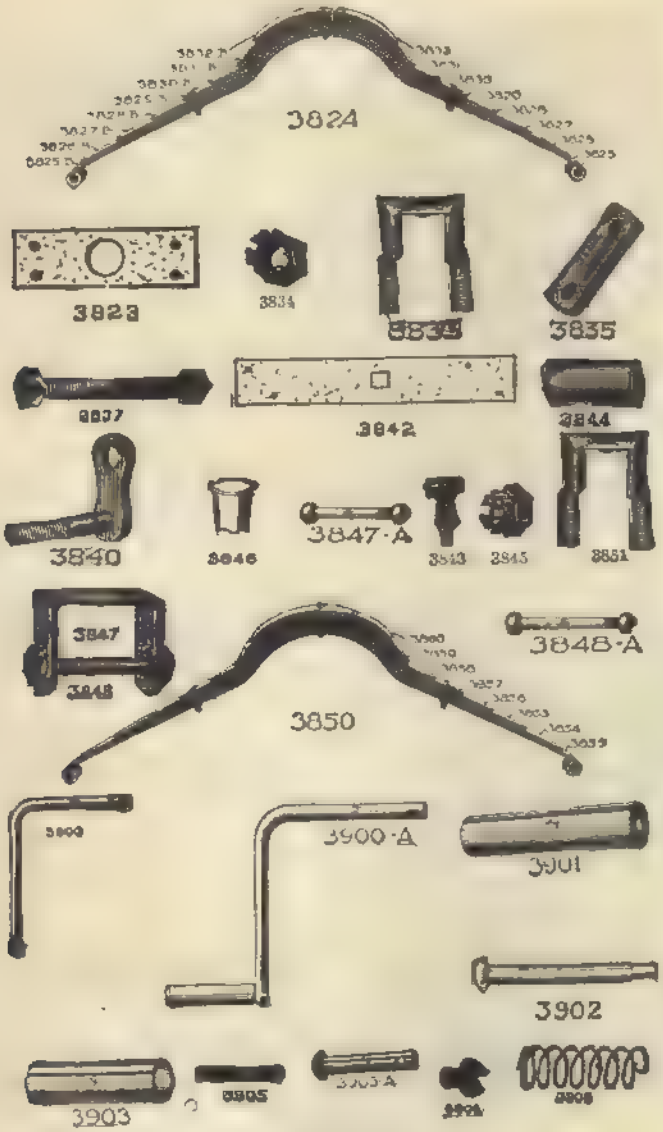
Part No	Description	List Price
3634G	Dash 1917-21 Models	$4.00
3642B	Dash Bracket Top Bolt and Nut	.05
3645	Dash Bracket to Dash Bolt and Nut	.05
3653B	Dash to Body Bracket Bolt and Nut	.05
3667E	Front Seat Cushion	10.00
3670D	Rear Seat Cushion	10.00
3676B	Tonneau Mat	2.00

Spring Repair Parts

	Front Spring, 10 Leaf, Heavy	7.00
	Front Spring, Harvey, Guaranteed	4.00
	Front Spring Standard	3.50
3808	Front Spring Clip	.30
3809	Front Spring Clip Nut—Order 2568	.05
3811	Front Spring Tie Bolt and Nut	.06
3813	Front Spring Hanger	.20
3815	Front and Rear Spring Hanger Nut—Order 2719	.03
3817	Front and Rear Spring Hanger Oiler	.05
3818	Front Spring Perch Right—1909-19	.80
3818B	Front Spring Perch—Right—1919-21	.80
3819	Front Spring Perch—Left—1909-19	.80
3819B	Front Spring Perch Left—1919-21	.80
3820	Front Spring Perch Bushing (Steel like Ford's)	.05
3821	Front Spring Perch Nut—Order 2828	.10

The Parts Listed Above are Guaranteed Perfect in Fit and Workmanship

REPLACEMENT PARTS FOR FORD CARS—Continued



Spring Repair Parts—Continued

Part No.	Description	List Price
....	Rear Spring	$12.00
....	Rear Spring—10 Leaf, Heavy	16.00
3833	Rear Spring Clip	.25
3834	Rear Spring Clip Nut—Order 2548	.05
3835	Rear Spring Clip Bar	.10
3837	Rear Spring Tie Bolt and Nut	.07
3840	Rear Spring Hanger	.25
3843	Rear Spring Perch	.60
3844	Rear Spring Perch Bushing (Steel like Ford's)	.05
3845	Rear Spring Perch Nut	.10

Starting Crank Repair Parts

3900A	Starting Crank Assembly—Complete with Handle	1.30
3903	Starting Crank Sleeve	.15
3905A	Starting Crank Ratchet Pin (New Style)	.05

Starting Crank Repair Parts—Continued

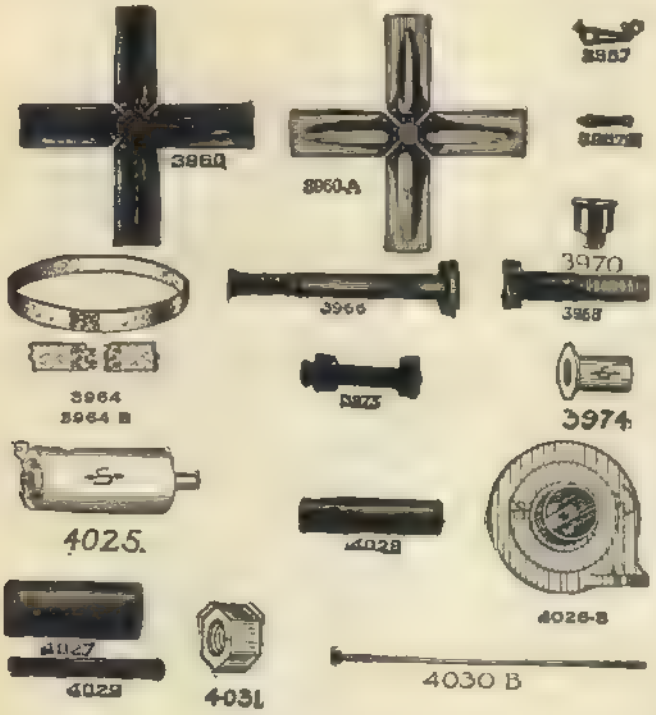
Part No	Description	List Price
3906	Starting Crank Ratchet	$0.25
3908	Starting Crank Spring	.05

Radiator Repair Parts

10	Peerless Radiator—1906-16	27.00
11	Peerless Radiator—1917-21	27.00
55	Radiator Cap, Black Rubber	.30
3926	Regular Ford Radiator Cap, Nickel Plated	.30
3929	Radiator Stud and Nut—1909-19	.06
3929B	Radiator Stud and Nut, 1919-21	.10
3930	Radiator Stud Spring—Order 2742	.03
3931½	Radiator Stud Washer Nut	.03
3939	Outlet Connection Pipe	.40
3940	Outlet Connection Cock—Order 3079	.25
3944	Outlet Connection Hose—1¾x3¾ inches	.15
3945	Outlet Connection Hose Clip	.05

The Parts Listed Above are Guaranteed Perfect in Fit and Workmanship

REPLACEMENT PARTS FOR FORD CARS—Continued



Radiator Fan Parts

Part No	Description	List Price
3960	Fan and Pulley Assembly	$1.50
3961	Fan Blade	.10
3961B	Fan Blade Rivets, per dozen	.05
3963	Fan Drive Pulley—Lower	.30
3966	Fan Shaft	.20
3967B	Fan Bracket—1917-20	.40
3968	Fan Bracket Bolt	.10
3970	Fan Grease Cup	.10

Fan Belt Repair Parts

3	Oak Tanned for Cars up to 1916	.45
37	Oak Tanned for cars 1917-21	.50
1921	Oak Tanned for 1921 Starter Model Cars	.50
1	Federal Fabric for Cars up to 1916	.40
2	Federal Fabric for Cars 1917-20	.45
42	Federal Fabric for 1921 Starter Model Cars	.50
	Old Hickory Fabric for Cars up to 1916	.40
	Old Hickory Fabric for 1917-21 Cars	.45
	Old Hickory Fabric for 1921 Starter Model Cars	.50

Muffler Repair Parts

4025	Muffler Assembly	2.00
4037B	Long Exhaust Pipe	2.00

Hood Repair Parts

4050B	Hood, 1917-21 Cars	7.00
4051	Hood Handle	.05

Hood Repair Parts—Continued

Part No.	Description	List Price
4052B	Hood Clip, 1917-21	$0.10
4053B	Hood Clip Spring, 1917-21	.03

Carburetors

	Kingston	6.00
	Holley	6.00
	Stromberg	21.00
	Rayfield	18.00

Carburetor Attachments

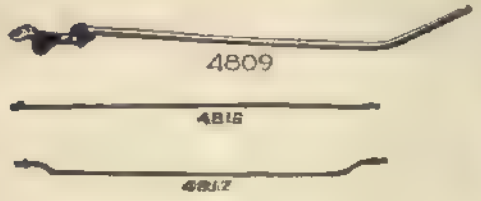
4134	Carburetor Flange Gasket	.05
6101A	Carburetor Float Assembly for Kingston Carburetors	1.00
6115	Spray Needle Assembly for Kingston Carburetor	.50
4451A	Float with Lever for Holley Carburetor	1.00
4452A	Spray Needle Assembly for Holley Carburetor	.25

Fenders—56 Inch Tread

	Interchangeable Fenders (set of 4), 1909-16	20.00
	Interchangeable Fenders (set of 4), 1917-21	20.00
	Front Fenders, 1909-1916, per pair	12.00
	Front Fenders, 1917-1921, per pair	12.00
	Rear Fenders, 1909-1916, per pair	10.00
	Rear Fenders, 1917-1921, per pair	10.00
4804D	Rear Fender Iron, Right and Left, for 1913-21 Touring Car	.20
4805B	Rear Fender Iron Bolt and Nut, for 1915-21 Touring Car	.05

The Parts Listed Above are Guaranteed Perfect in Fit and Workmanship

REPLACEMENT PARTS FOR FORD CARS—Continued



Fenders—Continued

Part No.	Description	List Price
4806	Fender Eye Bolt, Nut and Washer	$0.10
4808	Front Fender Iron Bolt and Nut, Side	.06
4808B	Front Fender Iron Bolt and Nut, Bottom	.06
4808C	Front Fender Apron to Frame Bolt and Nut	.05
4809	Front Fender Iron, Right or Left, for 1909-21	.90

Running Boards and Shields

56 Inch Tread

4812	Running Boards, Right or Left, 1909-21	2.50
4814C	Running Board Shield, Right, 1917-21	3.00
4815C	Running Board Shield, Left, 1917-21	3.00
4816	Running Board Truss Rods, Front	.40
4817	Running Board Truss Rods, Rear	.40
4819	Running Board Fender, Bolt and Nut	.05
4819B	Running Board Bolt and Nut	.05

Ford Spark Coil

5006	Switch Key	.05
5007	K. W. Coil Unit	2.75
5008 and 5009	Vibrator Spring and Bridges, per pair	.35
	K. W. "Sparkite" Contact Points, per pair	.50

Bendix Drive

5020	Key (Bendix)	.02
5022	Spring (Bendix)	.75
5023	Screw (Bendix Shaft Spring)	.10
5024	Screw (Bendix Head Spring)	.10
5025	Washer (Bendix Spring Screw Lock)	.05
5056	Gasket (Motor Mounting for Starter)	.05

Body Parts

5679X	Rear Right Door Lock Assembly	.50
5680X	Front Right and Left Rear Door Lock Assembly	.50

Wiring Assemblies

	Spark Plug Wires (in sets), per set	.50
5026	Spark Plug Wire, No. 1 Cylinder	.15
5027	Spark Plug Wire, No. 2 Cylinder, also Magneto to Coil	.15
5028	Spark Plug Wire, No. 3 and 4 Cylinder	.10
5029	Spark Plug Wire Terminal	.03
5030	Commutator Wire Assembly—5 Wires	1.00
5031	Commutator Wire (Starter Type)	1.00

Electric Headlamps and Parts

Model 600	Headlamp, prior to 1915, per pair	7.50
Model 325	Headlamp, 1915-20, per pair	7.50
Model 325BX	Headlamp, New Model with Dimmer Bulbs, per pair	8.00
6585X	Headlight Reflector	1.20
6594X	Headlight Door and Glass	1.00
6576X	Headlight Glasses Only	.25
6589X	Headlight Lamp Switch Assembly	.35

Side Oil and Tail Lamps

6568X	Oil Tail Lamp	2.25
6561X	Side Oil Lamp, per pair	4.50
6599X	Side and Tail Lamp Fount	.60
6460X	Side and Tail Lamp Burners	.25
6392	Lamp Wick	.02

The Parts Listed Above are Guaranteed Perfect in Fit and Workmanship

Four-Bow Tops for Ford Cars

Complete four-bow extension top with sockets, bows, side curtains and front and rear straps for Ford touring cars.

Everything is ready for setting on the body of the car. Every top is built on the regular Ford body assuring a perfect fit.

Top is made of best grade auto rubber or mohair. Front and rear straps are leather instead of webbing. Rear curtain is furnished with two 5 x 8 in. oval shape, nickel frame bevel glass lights in place of celluloid.

This is a better top than is furnished on Ford cars when new. Will add to the appearance of the car and will give long service.

No. 507 Touring car top complete with side curtains made of auto rubber with two bevel glass lights in rear curtains.....each, **$53.00**

No. 507M Touring car top complete with side curtains made of mohair with two bevel glass lights in rear curtain.....each, **57.00**

Three-Bow Tops for Ford Runabouts

Complete three-bow top with sockets, bows, side curtains and front and rear straps for Ford runabouts.

Everything ready for setting on the body of the car. Every top built on the regular Ford body assuring a perfect fit.

Top is made of the best grade auto rubber or mohair. Straps are leather instead of webbing.

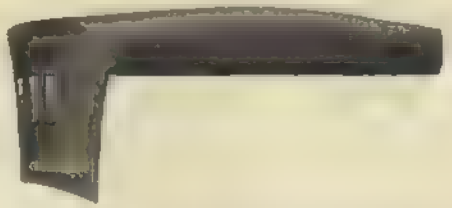
Rear curtain is furnished with two 5 x 8 in. oval shape, nickel frame bevel glass lights in place of celluloid.

This top is better than the top furnished with the Ford car when new and will add to the appearance of the car as well as give long service.

No. 508 Runabout top complete with side curtains made of auto rubber with two bevel glass lights in rear curtain.....each, **$40.00**

No. 508M Runabout top complete with side curtains made of mohair with two bevel glass lights in rear curtain .....each, **42.00**

Top Re-Covers for Ford Cars



Complete outfit consists of roof and quarters sewed together and rear curtain; also tacks, fasteners and binding. Rear curtain made with three windows like late models.

Made of rubber drill, same as on car when new, or cotton mohair. Both guaranteed waterproof. Made for any model Ford touring or runabout. Specify which when ordering.

For Touring Cars

No. 36 32 oz. rubber for Ford touring **$17.75**

No. 40 Mohair for Ford touring.. **19.00**

For Runabouts

No. 38 32 oz. rubber for Ford runabout **$13.75**

No. 42 Mohair for Ford runabout **16.00**

Packed One to a Box

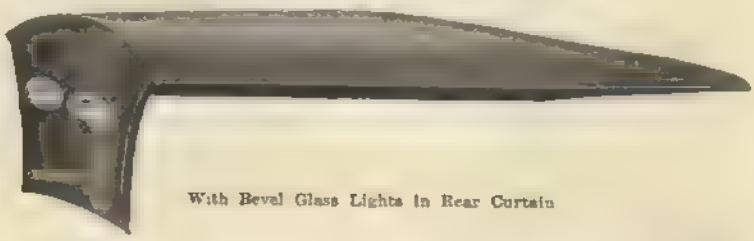
Rear Curtains for Ford Cars

Will fit any Ford car from 1914 to 1920. Made of heavy rubber drill.

No. 500 32 oz. rubber drill...each, **$6.00**

One in a Package

Top Recovers for Ford Cars



With Bevel Glass Lights in Rear Curtain

These recovers are furnished with two 5 x 8 bevel glass lights in the rear curtains. These glass lights are light in weight and very attractive, easy to see through and much longer lasting than celluloid. Frames are nickel plated on steel. Glass is beveled and about ⅛ in. thick.

These top recovers are complete, consisting of roof and quarters, binding and tacks, ready to put on. Made of rubber or mohair. Easy to put on. Just rip off the old cover and tack on the new.

Weight, mohair 10 lbs. Rubber 8 lbs.

For Touring Cars

No. 54 Auto Rubber Touring Re-Cover, nickel frames, glass lights.....**$21.00**

No. 62 Mohair Touring Re-Cover, nickel frames, glass lights..... **23.00**

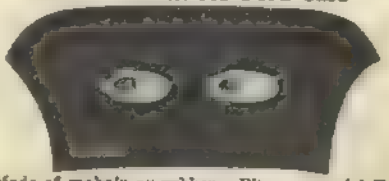
For Runabouts

No. 58 Auto Rubber Runabout Re-Cover, nickel frames, glass lights.....**$16.00**

No. 66 Mohair Runabout Re-Cover, nickel frames, glass lights..... **17.00**

Packed One to a Box

Rear Curtains for Ford Cars



Made of mohair or rubber. Fits any model Ford from 1914 to 1920. Each

No. 503A Rubber Rear Curtain, 2 bevel glass windows, size 5x8, nickeled frame.....**$8.00**

No. 503C Mohair Rear Curtain, 2 bevel glass windows, size 5x8, nickeled frame **3.50**

Packed One to a Box

Regular Side Curtains for Ford Cars

Regular side curtains for the Ford made like those furnished with the new car. Curtains for 1915 to 1919 models are the same and are interchangeable. 1913 and 1914 are the same. Made of 30 oz. Rubber drill.

No. 505 Ford touring set.....**$16.00**

No. 506 Ford runabout. **13.00**

Packed One Set to a Box

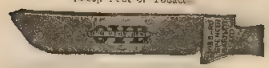
POCKET KNIFE BLADES.

USED IN [illegible] POCKET KNIVES.

Spear Point.

Clip Point.

Sheep Foot or Tobacco.



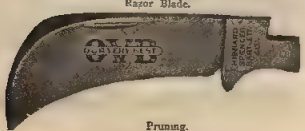
Large Spey.

Small Spey or Budding.

Wharncliffe.

Carpenter's or Saw.

Razor Blade.



Pruning.

Pen Blade.

File Blade.

Harrison Patent Punch Blade.

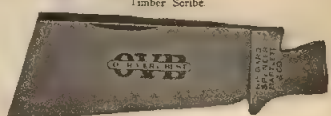
Leather.

Trade.

Screw Driver.

Spatula.

Timber Scribe.



Cotton Sampler.

We do not carry pocket knife blades in stock. The illustrations shown on this page being reproductions of the different styles used in [illegible] pocket knives. Slight variations are made to adapt them to the different knives of which they form a part. All are made from Wardlow's Celebrated English crucible steel. Each blade is forged in the most approved manner by expert workmen. Great care is taken to avoid overheating the metal, the forging being done at a very low heat, thereby condensing the metal and making it extremely tough. The tempering is done by a new method which insures a uniform and lasting edge. All blades bearing the [illegible] trademark are carefully ground and finished. The shank is carefully shaped and finished. Every blade is inspected, whetted to a fine cutting edge and warranted to be free from flaws and neither too hard or too soft.

In material, workmanship and design, the [illegible] pocket knife blades are equal, if not superior to any made in this or any other country. They are and always have been the product of an American factory which has in its employ cutlers who have served thirty, forty and fifty years in their service.

ETCHING CUTLERY

Etching Department.

STYLES OF ETCHING

The very best way of increasing trade in pocket cutlery is through the dealer's advertisement on the large blade of his best knives. If this is done wisely, it establishes a reputation for all knives bearing the dealer's name, adding his reputation to that of the maker, and thus is a convincing argument to the quality of the article. The consumer is sure of a double guaranty, and if the brand is unknown, he at least knows that the dealer would not have his name on inferior goods. It is also a strong safeguard against theft. Several times every year we hear of stolen goods recovered which had been etched by us, the name on the blade identifying the knives and establishing evidence to convict the thieves. Numbers of our customers have informed us that they have been robbed, the thieves leaving the etched knives untouched.

Our etching department, beginning in 1896 in a very modest way, has grown to an important adjunct to our cutlery business. Our etchers have become artists in their work, having every appliance necessary or desirable to produce fine results.

Etching has become popular, and the public is quick to notice the enterprise of a dealer who has something new to offer.

We make no charge whatever for this work, feeling that we are amply repaid by the increased business the dealer is sure to give us in consequence of adding to the selling quality of his knives. Our only requirements are that a sufficient—not a large—quantity is ordered each time to warrant it, and that the goods are such that we as a firm would care to affix our guaranty.

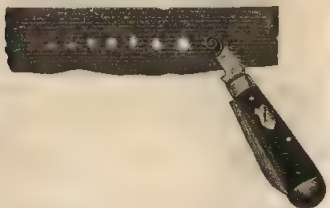
We shall be glad to explain more fully through our representatives or by letter our position in this matter and show samples of the work.

H.S.B.&Co. POCKET KNIVES

FULLY GUARANTEED TO GIVE PERFECT SATISFACTION

Made by American workmen. Blades are finest quality Crucible Steel, TEMPERED BY A NEW METHOD WHICH INSURES A UNIFORM AND LASTING EDGE. Sharpened ready for use. In whetting, hold at an angle of 18 degrees on an OIL STONE, not a grindstone.

WE ETCH YOUR NAME, FREE OF CHARGE, ON THESE KNIVES WHEN REQUESTED



Showing work done by Harrison Patent Punch Blade.

All the pocket knives on this page are supplied with a **Harrison patent punch blade** as illustrated above. **It is the only knife ever made that will cut perfectly round and smooth holes** in leather. Will cut holes of any size up to ⅜ inch in diameter, and can be used to enlarge holes already made. Much more convenient to use than a punch, being always at hand, and making just the right size hole wanted every time.

Invaluable for Belting, etc. An invaluable tool for repairing belting, for mending harness or making buckle holes. The curling upper face of the punch extending slightly over the end of the knife making it easy to open, even if the user has on gloves. **It is very strong and will hold its sharp-cutting edge a long time** without re-sharpening. **This is the only punch blade** manufactured **that will cut a perfectly round, smooth hole of any desired size without damaging the leather.**

The Very Best Quality. Both the patented punch blade, and the other blades are hand **forged from the finest grade of crucible steel, highly tempered and warranted free from flaws. These knives are positively without equal for practicability.**

No 1327 H.S.B.&Co.—2 blades including **leather punch,** highly finished, **stag** handle, brass lined, nickel silver bolster and shield, 3¼ **in.** closed .....per dozen $15.50

HALF DOZEN IN A BOX

No. 1305 H.S.B.&Co.—3 blades including **leather punch,** highly finished, **stag** handle, brass lined, nickel silver bolsters and shield, 3¼ **in.** closed .....per dozen $30 00

HALF DOZEN IN A BOX

Three blades including **leather punch,** highly finished, **stag** handles, brass lined, nickel silver bosters and shields.

No. 1090 H.S.B.&Co.—Length 3¼ **in.** closed ....per dozen $30.00

HALF DOZEN IN A BOX

Three blades including **leather punch,** highly finished, **stag** handles, brass linings, nickel silver bolsters and shields.

No. 1312 H.S.B.&Co.—**Spear,** pen and punch blades, 3¼ **in.** closed .....per dozen $30.00

No. 1313 H.S.B.&Co.—**Clip,** pen and punch blades, 3¼ **in.** closed .....per dozen $30.00

No. 1309 H.S.B.&Co.—**Spear,** spey and punch blades, 3¼ **in.** closed .....per dozen $30.00

No. 1309½ H.S.B.&Co.—**Clip,** spey and punch blades, 3¼ **in.** closed .....per dozen $30.00

No. 1440 H.S.B.&Co.—**Spear,** spey and punch blades, 3¼ **in.** closed .....per dozen $29.00

HALF DOZEN IN A BOX

No. 657 H.S.B.&Co. 3 blades including **leather punch,** full crocus polished, **stag** handle, nickel silver lined, milled, nickel silver bolsters and shield, 4 **in.** closed, per dozen $42.00

HALF DOZEN IN A BOX

Our stock consists of a large assortment of Pocket Knives and other Cutlery. WE ILLUSTRATE OUR LEADING PATTERNS ONLY. Ask our salesman to show you samples of our complete line.

POCKET KNIVES

FULLY GUARANTEED TO GIVE PERFECT SATISFACTION

Made by American workmen. Blades are finest quality Crucible Steel, TEMPERED BY A NEW METHOD WHICH INSURES A UNIFORM AND LASTING EDGE. Sharpened ready for use. In whetting, hold at an angle of 18 degrees on an OIL STONE, not a grindstone.

WE ETCH YOUR NAME, FREE OF CHARGE, ON THESE KNIVES WHEN REQUESTED

Three blades including leather punch, full crocus polished, nickel silver lined, milled, nickel silver bolsters.

No. 658 C.V.B.—Stag handle, nickel silver shield, per dozen $42.00

No. 656½ C.V.B.—Color Red Pearl shell celluloid handle, not shielded ..... per dozen $46.00

HALF DOZEN IN A BOX

Four blades including leather punch, highly finished, stag handles, nickel silver lined, milled, nickel silver bolsters and shield, length closed 3⅝ inches.

No. 929½ C.V.B.—Clip, spey, sheep foot and **punch** blades ..... per dozen $45.00

HALF DOZEN IN A BOX

No. 630.

PREMIUM STOCK KNIVES

Three blades, highly finished, brass linings, nickel silver bolsters and shield, stag handle, length closed 3⅝ inches.

No. 630 C.V.B.—Clip, spey and sheep foot blades, per dozen $30.00

No. 630½ C.V.B.—Clip, pen and sheep foot blades, nickel silver shield ..... per dozen $30.00

HALF DOZEN IN A BOX

No. 632.

PREMIER STOCK KNIVES

Highly finished stag handles, brass lined, nickel silver bolsters and shield, length closed 3⅝ inches.

No. 632 C.V.B.—3 blades including large **clip** blade, per dozen $30.00

No. 1412 C.V.B.—2 blades, **clip** blade in one end and **spey** blade in other end ..... per dozen $23.00

HALF DOZEN IN A BOX

No. 1318.

STOCK KNIVES

Three blades, highly finished, brass linings, nickel silver bolsters and shield.

No. 1318 C.V.B.—Clip, spey and punch, length closed 3½ **in.** ..... per dozen $30.00

No. 1362 C.V.B.—Clip, spey and punch blade, length closed 3½ **in.** ..... per dozen $36.00

HALF DOZEN IN A BOX

No. 648

EVERETT STOCK KNIVES

Three blades, full crocus polished, nickel silver linings, milled, nickel silver bolsters and shield, stag handle.
No. 648 C.V.B.—Length closed **4 in.** ..... per dozen $39.00
No. 655 C.V.B.—Length closed 3½ **in.** .... per dozen 36.00

HALF DOZEN IN A BOX

STOCK KNIVES

No. 637 C.V.B.—Three blades, highly finished, stag handle, brass linings, nickel silver shield and bolsters, length when closed 3½ **in.** ..... per dozen $29.00

HALF DOZEN IN A BOX

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POCKET KNIVES

FULLY GUARANTEED TO GIVE PERFECT SATISFACTION

Made by American workmen Blades are finest quality Crucible Steel, TEMPERED BY A NEW METHOD WHICH INSURES A UNIFORM AND LASTING EDGE. Sharpened ready for use. In whetting, hold at an angle of 18 degrees on an OIL STONE, not a grindstone.

WE ETCH YOUR NAME, FREE OF CHARGE, ON THESE KNIVES WHEN REQUESTED

No. 1321.

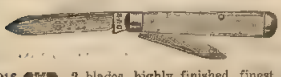
STOCK KNIVES

Four blades, highly finished, linings, milled, nickel silver bolsters and shield.

No. 1321 H.S.B.B.—**Stag** handle, nickel silver shield, 3¼ **in.** closed .....per dozen **$32.00**

No. 838 H.S.B.B.—**Stag** handle, nickel silver shield, 3¼ **in.** closed .....per dozen **$42.00**

HALF DOZEN IN A BOX



No. 1016 H.S.B.B.—2 blades, highly finished, finest quality **pearl** handle, brass lined nickel silver bolsters, 2½ **in.** closed .....per dozen **$29.00**

HALF DOZEN IN A BOX

CATTLE KNIVES

Three blades, highly finished, brass linings, nickel silver bolsters and shields, length closed 3⅜ inches.

No. 685 H.S.B.B.—**Stag** handle .....per dozen **$30.00**

HALF DOZEN IN A BOX

CATTLE KNIFE

No. 684½ H.S.B.B.—3 blades, highly finished, **stag** handle, brass lined, nickel silver bolsters and shield, 3¼ **in.** closed .....per dozen **$30.00**

HALF DOZEN IN A BOX

CATTLE KNIFE

No. 718 H.S.B.B.—3 blades, highly finished **stag** handle brass lined, steel bolsters and shield, 3¼ **in.** closed, per dozen **$34.00**

HALF DOZEN IN A BOX

No. 786.

No. 786 H.S.B.B.—**3 blades,** including finger nail blade, highly finished, pearl handle of finest quality, **very neat thin pattern,** 3 **in.** closed. per dozen **$65.00**

No. 560 H.S.B.B.—**2 blades,** including finger nail blade, highly finished, **pearl** handle of finest quality, very neat per dozen **$56.00**

HALF DOZEN IN A BOX

No. 530 H.S.B.B.—2 blades, polished pearl, brass lined, 2¾ in. closed .....per dozen **$29.00**

HALF DOZEN IN A BOX

Cocobola handles, iron lined, steel bolsters, nickel silver shields, length closed 3⅜ inches.

No. 147 H.S.B.B.—**1 Spear** blade, highly finished, per dozen **$8.00**

HALF DOZEN IN A BOX

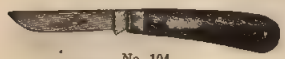
Our stock consists of a large assortment of Pocket Knives and other Cutlery. WE ILLUSTRATE OUR LEADING PATTERNS ONLY. Ask our salesman to show you samples of our complete line.

H&S POCKET KNIVES

FULLY GUARANTEED TO GIVE PERFECT SATISFACTION

Made by American workmen. Blades are finest quality Crucible Steel, TEMPERED BY A NEW METHOD WHICH INSURES A UNIFORM AND LASTING EDGE. Sharpened ready for use. In whetting, hold at an angle of 18 degrees on an OIL STONE, not a grindstone.

WE ETCH YOUR NAME, FREE OF CHARGE, ON THESE KNIVES WHEN REQUESTED



No. 104.

Iron lined, nickel silver shield, steel bolster, length closed 3⅝ inches.

No. 103 H&S—1 blade, **cocobola** handle, per dozen $6.00

No. 104 H&S—1 blade, **Stag** handle, per dozen $6.00

No. 342 H&S—2 blades, **cocobola** handle, per dozen $11.50

No. 342½ H&S—2 blades, **stag** handle, per dozen $11.50

HALF DOZEN IN A BOX

No. 208.

Two blades, highly finished, iron linings, steel bolsters.

No. 208 H&S—**Cocobola** handle, 3½ **in.** closed, per dozen $8.00

No. 224 H&S—**Stag** handle, 3½ **in.** closed, per dozen $8.00

HALF DOZEN IN A BOX

No. 594

Two blades, highly finished, nickel silver shield.

No. 594 H&S—**Cocobola** handle, **brass lined,** nickel silver bolsters, 3⅛ **in.** closed ..... per dozen $16.00

No. 598 H&S—**Rosewood** handle, **brass lined,** nickel silver bolsters, 3⅛ **in.** closed ..... per dozen $16.00

No. 596 H&S—**Stag** handle, **brass lined,** nickel silver bolsters, 3⅛ **in.** closed ..... per dozen $16.00

HALF DOZEN IN A BOX

No. 1336

Two blades, highly finished, nickel silver shield.

No. 595 H&S—**Cocobola** handle, **brass lined,** nickel silver bolsters, 3⅛ **in.** closed ..... per dozen $16.00

No. 1336 H&S—**Stag** handle, **brass lined,** nickel silver bolsters, 3⅛ **in.** closed ..... per dozen $18 00

HALF DOZEN IN A BOX

No. 237½.

Two blades, highly finished, iron linings, steel bolsters.

No. 233 H&S—**Cocobola** handle, 3½ **in.,** closed, per dozen $8.00

No. 255 H&S—**Ebony** handle, 3½ **in.,** closed, per dozen $8.00

No. 237½ H&S—**Stag** handle, 3½ **in.,** closed, per dozen $8.00

No. 238½ H&S—**Stag** handle, large **sheep foot** blade, 3½ **in.,** closed ..... per dozen $8.00

HALF DOZEN IN A BOX

Nos. 298 and 1057

Two blades, highly finished, brass linings, nickel silver bolsters and shield.

No. 298 H&S—**Cocobola** handle, 3½ **in.** closed, per dozen $16.00

No. 1060 H&S—**Stag** handle, 3½ **in.** closed, per dozen $16.00

No. 1057 H&S—**Cocobola** handle, 3⅛ **in.** closed, per dozen $16.00

No. 1058 H&S—**Stag** handle, 3½ **in.** closed, per dozen $16.00

HALF DOZEN IN A BOX

Our stock consists of a large assortment of Pocket Knives and other Cutlery. WE ILLUSTRATE OUR LEADING PATTERNS ONLY. Ask our salesman to show you samples of our complete line.

CVB POCKET KNIVES

FULLY GUARANTEED TO GIVE PERFECT SATISFACTION

Made by American workmen. Blades are finest quality Crucible Steel, TEMPERED BY A NEW METHOD WHICH INSURES A UNIFORM AND LASTING EDGE. Sharpened ready for use. In whetting, hold at an angle of 18 degrees on an OIL STONE, not a grindstone.

WE ETCH YOUR NAME, FREE OF CHARG E, ON THESE KNIVES WHEN REQUESTED

No. 1331

Two blades, highly finished, brass linings, nickel silver bolsters and shield, length closed 3¼ inches.

No. 1330 CVB—Cocobola handle ....per dozen $15.00

No. 1331 CVB—Stag handle .....per dozen 15.50

HALF DOZEN IN A BOX

No. 1039 CVB—2 blades, highly finished, **stag** handle, brass lined, nickel silver bolsters and shield, **3¼ in.** closed .....per dozen $16.00

HALF DOZEN IN A BOX

OFFICE KNIFE

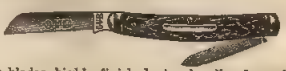
No. 589 CVB—2 blades, highly finished, **white ivoroid** handle, brass lined, **3¾ in.** closed .....per dozen $18.00

HALF DOZEN IN A BOX

PHYSICIANS' KNIFE

No. 375 CVB—2 blades, highly finished, **stag** handle, brass lined, nickel silver bolster and cap, **3¾ in.** closed, per dozen $22.50

HALF DOZEN IN A BOX



Two blades, highly finished, stag handles, brass linings, nickel silver bolsters.

No. 548 CVB—Length **3¼ in.** closed, nickel silver shield, per dozen $16.00

HALF DOZEN IN A BOX

No. 579 CVB—2 blades, highly finished, **stag** handle, brass lined, nickel silver bolsters and shield, **4¼ in.** closed .....per dozen $24.00

HALF DOZEN IN A BOX

No. 783

CARPENTERS' KNIFE

Three blades, highly finished, brass linings, nickel silver bolsters, length closed 3¾ inches.

No. 783 CVB—Stag handle with nickel silver shield, per dozen $29.00

No. 785 CVB—Pearl handle of finest quality, plain without shield .....per dozen $50.50

HALF DOZEN IN A BOX

CARPENTERS' KNIFE

No. 798 CVB—3 blades, large blade **extra heavy** and extra strong, **sabre pattern**, highly finished, **ebony** handle, brass lined, nickel silver bolsters and shield, **3¾ in.** closed .....per dozen $29.00

HALF DOZEN IN A BOX

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CVB POCKET KNIVES

FULLY GUARANTEED TO GIVE PERFECT SATISFACTION

Made by American workmen. Blades are finest quality Crucible Steel, TEMPERED BY A NEW METHOD WHICH INSURES A UNIFORM AND LASTING EDGE. Sharpened ready for use. In whetting, hold at an angle of 18 degrees on an OIL STONE, not a grindstone.

WE ETCH YOUR NAME, FREE OF CHARGE, ON THESE KNIVES WHEN REQUESTED

Four blades, highly finished, stag handles, brass linings, steel bolsters and nickel silver shields.

No. 845 CVB—3½ **in.** closed .....per dozen **$27.50**

HALF DOZEN IN A BOX

Nos. 2546P and 2597P

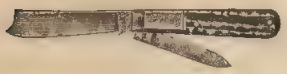
Two blades, highly finished, **genuine buck horn** handles, iron linings, steel bolsters.

No. 2597P CVB—Large **spear** blade, 3⅜ **in.** closed, per dozen **$15.50**

No. 2598P CVB—Large **clip** blade, 3⅜ **in.** closed, per dozen **$15.50**

No. 2546P CVB—Large **spear** blade, 3⅜ **in.** closed, per dozen **$16.00**

HALF DOZEN IN A BOX



Nos. 2548P and 2600P

Two blades, highly finished, **genuine buck horn** handles, iron linings, steel bolsters.

No. 2600 CVB—Length closed 3⅜ **in.,** per dozen **$15.50**

No. 2548P CVB—Length closed 3⅜ **in.,** per dozen **$16.00**

HALF DOZEN IN A BOX

No. 2584P CVB—2 blades, highly finished, **genuine buck horn** handle, iron lined, steel bolster, 3¾ **in.** closed, per dozen **$16.00**

HALF DOZEN IN A BOX

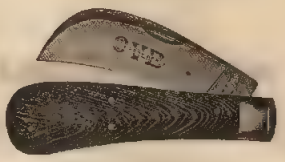
No. 2599P

Two blades, highly finished, **genuine buck horn** handles, iron linings, steel bolsters, length closed 3⅜ in.

No. 2599P CVB—Large **Spey** blade . . .per dozen **$15.50**

No. 2601P CVB—Large **sheep foot** blade, per dozen **$15.50**

HALF DOZEN IN A BOX



No. 128

PRUNING KNIFE

No. 128 CVB—1 blade, highly finished cocobola handle, iron lined, steel bolster, **4 in.** closed ...per dozen **$14.00**

HALF DOZEN IN A BOX

PRUNING KNIFE

No. 129 CVB—1 blade, highly finished, **cocobola** handle, iron lined, steel bolster and cap, 4½ **in.** closed, per dozen **$23.00**

HALF DOZEN IN A BOX

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OVB POCKET KNIVES

FULLY GUARANTEED TO GIVE PERFECT SATISFACTION

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WE ETCH YOUR NAME, FREE OF CHARGE, ON THESE KNIVES WHEN REQUESTED

OVB BARLOW POCKET KNIVES

Glazed blades, brown bone handles, iron lined, steel bolsters, length 3½ in. closed.

No. 1H OVB—1 large spear point blade, per dozen $6.00

No. 2H OVB—1 large spear point blade and 1 pen blade, per dozen $8.00

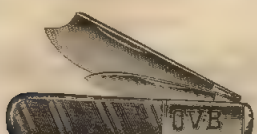
ONE DOZEN IN A BOX

No. 52H OVB—2 blade, glazed, brown bone handle, iron per dozen $8.00

ONE DOZEN IN A BOX

No. 53H OVB—2 blades, glazed, brown bone handle, iron lined, steel bolsters, length 3½ in. closed, per dozen $8.00

ONE DOZEN IN A BOX



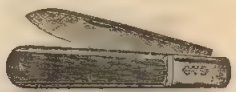
No. 54H OVB—2 blades, glazed, brown bone handle, iron lined, steel bolsters, length when closed 3½ in., per dozen $8.00

ONE DOZEN IN A BOX

Owing to the numerous demands for a stag handle OVB Barlow Pocket Knife, we have added the following number to stock, which should prove a very popular seller. Every knife is fully warranted.

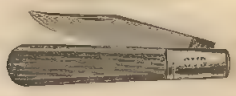
No. 4H OVB—2 blades, made from the finest Wardlow's Crucible Cutlery Steel, nicely ground and sharpened to a very sharp and lasting edge, stag handles, steel lined, large steel bolster handsomely stamped with OVB trademark, length when closed 3½ in., per dozen $9.00

ONE DOZEN IN A BOX



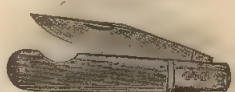
No. 062H OVB—1 large **spear point** blade, glazed, brown bone handle, lined, length 5 in. when closed, per dozen $13.20

HALF DOZEN IN A BOX



No. 061H OVB—1 large **clip point** blade, glazed brown bone handle, steel lined, length 5 in. when closed, per dozen $13.20

HALF DOZEN IN A BOX



No. 063H OVB—**Easy opener,** 1 large **clip point** blade, glazed, brown bone handle, steel lined, length 5 in. when closed ..... per dozen $13.20

HALF DOZEN IN A BOX

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HIBBARD POCKET KNIVES

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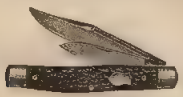
WE ETCH YOUR NAME, FREE OF CHARGE, ON THESE KNIVES WHEN REQUESTED



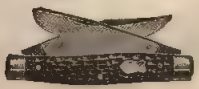
No. 2549P

Two blades, **stag** handles, brass linings, nickel silver bolsters and shields.

No. 2676—Hibbard, 3¾ in. closed .....per dozen **$16.00**

No. 2549P—Hibbard, 3¼ in. closed .....per dozen **15.00**

HALF DOZEN IN A BOX



STOCK KNIFE

No. 2666P—Hibbard, 2 blades, (one long clip and one long spey) **stag** handle, brass lined, nickel silver bolsters and shield, **3¼ in.** closed .....per dozen **$19.00**

HALF DOZEN IN A BOX

No. 2695P

STOCK KNIVES

Two blades, **stag** handles, brass linings, nickel silver bolsters and shields, length closed 4 inches.

No. 2695P—Hibbard, long **clip** and **spey** blades, per dozen **$18.00**

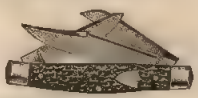
No. 2701P—Hibbard, long **clip** and **pen** blade, per dozen **$18.00**

HALF DOZEN IN A BOX

STOCK KNIFE

No. 2698P—Hibbard, 3 blades, **stag** handle, brass lined, nickel silver bolsters and shield, **4 in.,** closed, per dozen **$24.00**

HALF DOZEN IN A BOX



No. 2699P

STOCK KNIVES

Three blades, **stag** handles, brass linings, nickel silver bolsters and shields.

No. 2699P—Hibbard, length closed **3¾ in.,** clip, spey and sheep foot blades, **smooth** bolsters, per dozen **$21.00**

No. 1722P

STOCK KNIVES

Three blades, **stag** handles, brass linings, nickel silver bolsters and shields, length closed 4 inches.

No. 1722P—Hibbard, clip, spey and **sheep foot** blades, per dozen **$28.00**

No. 1745P—Hibbard, spear, spey and **sheep foot** blades **$27.00**

HALF DOZEN IN A BOX

No. 1565P

STOCK KNIVES

Three blades, brass linings, length closed 3¾ inches.

No. 1498P—Hibbard, Colored onyx celluloid handle, nickel silver shields .....per dozen **$26.00**

No. 1564P—Hibbard, shell celluloid handle, nickel silver shield .....per dozen **$26.00**

No. 1565P—Hibbard, stag handle, nickel silver shield, per dozen **$25.50**

No. 1566P—Hibbard, pearl handle without shield, per dozen **$51.00**

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HIBBARD POCKET KNIVES

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WE ETCH YOUR NAME, FREE OF CHARGE, ON THESE KNIVES WHEN REQUESTED

No. 2651P.

STOCK KNIVES

Three blades, brass linings, nickel silver bolsters and shields, length closed 3⅞ inches.

No. 2651P—Hibbard, stag, handle ....per dozen $22.50
No. 2655P—Hibbard, smoked pearl celluloid handle, per dozen $24.00
No. 2607P—Hibbard, genuine African buffalo horn, handle .....per dozen $31.50

HALF DOZEN IN A BOX

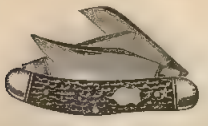
No. 1718P.

STOCK KNIVES

Stag handles, brass linings, nickel silver bolsters and shields, length closed 3⅞ inches.

No. 1718P—Hibbard, 3 blades .....per dozen $32.00
No. 1719P—Hibbard, 2 blades (one long clip and one long spey) .....per dozen $23.50

HALF DOZEN IN A BOX



No. 2696P.

STOCK KNIVES

Three blades, **stag** handles, brass lining, nickel silver bolsters and shields.

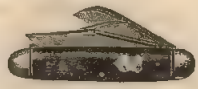
No. 2696P—Hibbard, length closed 3⅞ **in.,** per dozen $27.00
No. 1743P—Hibbard, length closed 3¼ **in.,** per dozen $29.00

HALF DOZEN IN A BOX

CATTLE KNIFE

No. 1727P—Hibbard, 3 blades, **stag** handle, brass lined, nickel silver bolsters and shield, 3⅞ in. closed, per dozen $27.00

HALF DOZEN IN A BOX



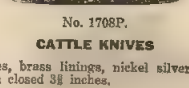
No. 2606P.

CATTLE KNIVES

Three blades, brass linings, nickel silver bolsters and shields, length closed 3⅞ inches.

No. 2606P—Hibbard, genuine African buffalo horn handle .....per dozen $30.00
No. 2654½P—Hibbard, smoked pearl celluloid handle, per dozen $24.00
No. 2684P—Hibbard stag handle ....per dozen $21.50

HALF DOZEN IN A BOX



No. 1708P.

CATTLE KNIVES

Three blades, brass linings, nickel silver bolsters and shields, length closed 3⅞ inches.

No. 1708P—Hibbard, stag handle, spear, spey and sheep foot blades .....per dozen $21.50
No. 1707½P—Hibbard, smoked pearl celluloid handle, clip, spear, spey and sheep foot blades, per dozen $23.00
No. 1708½P—Hibbard, stag handle, spear, spey and **pen** blades .....per dozen $21.00
No. 1707½P—Hibbard, smoked pearl celluloid handle, spear, spey and **pen** blade .....per dozen $23.00

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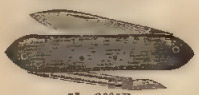
OFFICE KNIFE

No. 2574½P—Hibbard, 2 blades, **ivory celluloid** handle, brass lined, 3⅜ **in.** closed .....per dozen $15.00

HALF DOZEN IN A BOX



No. 2605P

Two blades including finger nail blade. Thin, **flat** pattern, length closed 3 inches.

No. 2605P—Hibbard, shell celluloid handle, per dozen $14.00

No. 2718P—Hibbard, gray onyx celluloid handle **with nickel silver shackle for watch chain.** per dozen $15.50

No. 2719P—Hibbard, imitation pearl celluloid handle **without shackle** for watch chain ....per dozen $15.50

HALF DOZEN IN A BOX

No. 2689P

Two blades, brass linings, nickel silver tips and shield, length closed 3⅜ inches.

No. 2689P—Hibbard, stag handle ....per dozen $15.50

No. 2690P—Hibbard, smoked pearl celluloid handle, per dozen $15.50

HALF DOZEN IN A BOX

No. 2635P

Two blades, brass linings, large nickel silver saw screw rivets, length closed 3⅜ inches.

No. 2635P—Hibbard, stag handle, with nickel silver shield .....per dozen $15.00

No. 2636P—Hibbard, ivory celluloid handle **without** nickel silver shield .....per dozen $16.00

HALF DOZEN IN A BOX

No. 1531P

Two blades, brass linings, nickel silver bolsters.

No. 1497P—Hibbard, 2 blades, **colored onyx celluloid** handle, 3⅜ **in.** closed .....per dozen $17.00

No. 1531P—Hibbard, shell celluloid handle, 3½ **in.** closed .....per dozen $17.00

No. 1583P—Hibbard, smoked pearl celluloid handle, 2⅜ **in.** closed .....per dozen $15.50

No. 1584P—Hibbard, smoked pearl celluloid handle, 2½ **in.** closed .....per dozen $21.00

No. 1587P—Hibbard, 2 blades, **smoked pearl celluloid** handle, brass lined, 2⅜ **in.** closed .....per dozen $15.50

HALF DOZEN IN A BOX

No. 1563P—Hibbard, 2 blades, **ebony celluloid** handle, brass lined, nickel silver tips and shield, 3 **in.** closed, per dozen $17.00

HALF DOZEN IN A BOX

No. 1585P—Hibbard, 2 blades, **smoked pearl celluloid** handle, brass lined, nickel silver bolsters, 2½ **in.** closed, per dozen $15.50

HALF DOZEN IN A BOX

No. 2633P

Two blades, brass linings, length closed 3⅜ inches.

No. 2633P—Hibbard, gray horn celluloid handle, per dozen $14.00

No. 2637P—Hibbard, stag handle .....per dozen $12.00

No. 2638P—Hibbard, ivory celluloid handle, per dozen $12.00

No. 2639P—Hibbard, shell celluloid handle, per dozen $12.00

HALF DOZEN IN A BOX

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Prices on Application

1847 ROGERS BROS.
SILVERWARE

AMBASSADOR
A WORTHY REPRESENTATIVE OF A DISTINGUISHED LINE

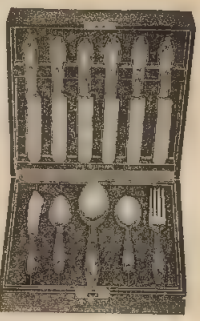
26-PIECE FAMILY ASSORTMENT
Oak Chest with drawer, cloth lined, containing:

6 tea spoons
6 table spoons
6 solid handle medium knives
6 spoon handle medium forks
1 sugar shell
1 butter knife.

No. 79—Ambassador pattern,
per assortment $34.56

Ambassador .....per dozen

Tea Spoons $8.20 — Dessert Spoons $17.00 — Table Spoons $17.60
ONE HALF DOZEN IN A BOX

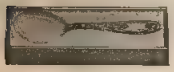


26-PIECE FAMILY ASSORTMENT
Leatherette Chest, velvet lined, containing:

6 hollow handle medium knives
6 spoon handle medium forks
6 tea spoons
6 table spoons
1 sugar shell
1 butter knife

No. 80—Ambassador pattern,
per assortment $42.56

Dessert Forks $17.00 — Medium Forks $17.60

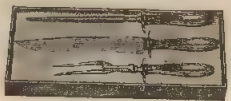


SUGAR SHELLS
Ambassador .....per dozen $18.80
ONE IN A LINED BOX

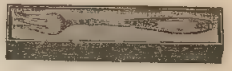
AMBASSADOR LADLES
Cream .....per dozen $25.60
Gravy .....per dozen 33.60
Medium .....per dozen 104.00
ONE IN A LINED BOX

CHEESE SERVER
Hollow Handle.
Ambassador .....per dozen $37.60
ONE IN A LINED BOX

BUTTER KNIVES
Ambassador .....per dozen $21.28
ONE IN A LINED BOX



3-PIECE CARVING SET, Hollow Handles.
Ambassador .....per set $18.80
ONE SET IN A LINED BOX

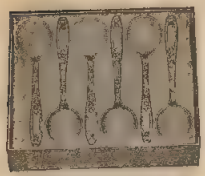


PICKLE FORK, Short Handle
Ambassador .....per dozen $20.00
ONE IN A LINED BOX

1847 ROGERS BROS.
SILVERWARE

AMBASSADOR

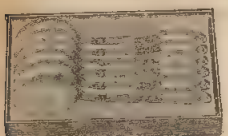
A BEAUTIFUL, DIGNIFIED DESIGN IN GREY FINISH
Prices on Application



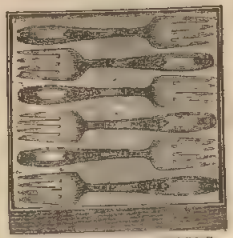
BOUILLON SPOONS
Ambassador ....per dozen *$16.40*
HALF DOZEN IN A LINED BOX

PIE SERVER, Hollow Handle
Ambassador ....per dozen *$68.80*
ONE IN A LINED BOX

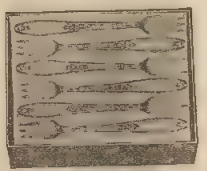
COLD MEAT FORK
Ambassador ....per dozen *$26.00*
ONE IN A LINED BOX



ROUND BOWL SOUP SPOONS
Ambassador ....per dozen *$18.80*
HALF DOZEN IN A LINED BOX

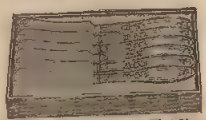


INDIVIDUAL SALAD FORKS
Ambassador ....per dozen *$17.60*
HALF DOZEN IN A LINED BOX



OYSTER FORKS
Ambassador ....per dozen *$11.60*
HALF DOZEN IN A LINED BOX

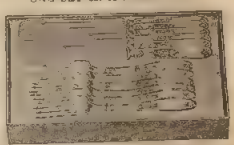
ICED TEA SPOONS
Ambassador ....per dozen *$11.20*
HALF DOZEN IN A LINED BOX



BUTTER SPREADERS, Flat Handles
Ambassador ....per dozen *$14.40*
HALF DOZEN IN A LINED BOX

BERRY SPOONS
Ambassador ....per dozen *$43.20*
ONE IN A LINED BOX

3-Piece Child's Set, Solid Handles
No. 116—Ambassador,
per dozen sets *$43.20*
ONE SET IN A LINED BOX



Solid Handle MEDIUM KNIVES and spoon Handle MEDIUM FORKS.
No. 2024—Ambassador,
per set *$14.60*
ONE SET IN A LINED BOX

No. 2020—Ambassador—Hollow Handle	**Medium Knives**	per dozen	*$27.60*
No. 2021—Ambassador—Hollow Handle	**Medium Forks**	per dozen	*27.60*
No. 2022—Ambassador—Hollow Handle	**Dessert Knives**	per dozen	*27.00*
No. 2023—Ambassador—Hollow Handle	**Dessert Forks**	per dozen	*27.00*

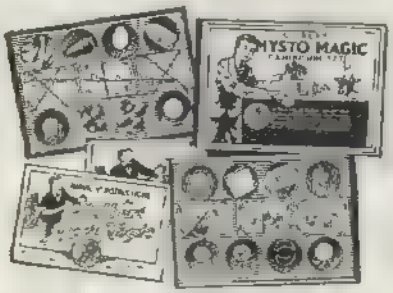
HALF DOZEN IN A BOX

MYSTO MAGIC OUTFITS

Because of the fascination which every wide-awake boy has for magical stunts, Mysto Magic has proved to be an unusually popular toy. Each and every trick has been selected from the viewpoint of the boy so that the various sets include only the most interesting and fascinating tricks. The very same tricks that the boy has seen done on the stage can be repeated with Mysto Magic. The illustrated manual of instructions explaining all details is a part of each outfit.

TRICK OUTFITS

No. 2001—Contains show poster, magic wand and illustrated manual describing each trick, some of which are as follows: marble vase, disappearing handkerchief, mysterious discs, multiplying billiard balls, disappearing coins, etc. Packed in an attractive sealed box, size 8¾×12¼×1¼ in., w't 1 lb. .....each *$1.50*



No. 2003—Set includes magician's wand, show poster and illustrated manual describing each and every trick, some of which are the following: Passe-Passe, Coin Trick, Chinese Linking Rings, Multiplying Billiard Balls, Cigarette Vanisher, Disappearing Egg, etc.; packed in an attractive sealed box, size 8¾×12¼×2¼ in., w't 2 lbs. 3 ozs., each *$2.50*

Our Very Best is the Very Best.

CARD TRICKS

Card Trick Outfit contains an assortment of some of our best card tricks.

Among these are the Magician Pack of Cards, with which can be performed a great number of tricks and also eight separate card tricks as used by some of the foremost magicians — Knock Out, Papel Blanco, Mysto Jacks, Startling Card Trick, Sphinx, Pick-it-Out, Phantom and Spotter Card Trick. With each outfit comes complete Manual of Instructions.

No. 2007—Size of carton 12¼×8¾×1¼ in. .....each *$2.50*

KNOTS AND SPLICES

What boy is there who isn't interested in knowing how to tie a running hawser knot—a bowline, etc.? The boy doesn't live who hasn't tried knot tying in all its forms by the time he's twelve. Here's an outfit that gives it to him in clear, simple and practical terms. In addition, the profusely illustrated book shows him some of the tricks he has aways admired in Houdini.

No. 2021—In a sealed carton, 12¼×8¾×1¼ in., w't 1 lb., each *$3.00*

A C SPARK PLUGS

AC Spark Plugs are made of high grade materials, skillfully manufactured. They are selected by leading engineers for regular equipment on many of the standard makes of automobiles and trucks.

No. 12 CPT

No. 12 I/T

No. 78 RT

No. 78 I/T

No. 78 LBT

For Fords, Overland and Studebaker cars, or any motor using ⅝-inch regular plugs

NO.	Size	Wt. Each	EACH
12CPT	⅝ in.	5 oz.	$1.00

Regular equipment on Reo cars and trucks. Recommended for Overland up to 1914 and Winton up to 1915.

NO.	Size	Wt. Each	EACH
12I/T	⅝ in. long	5 oz.	$1.00

Regular equipment on Cadillac, Chalmers, Cole, Dort, Hudson, Hupmobile, Jordan, Kissel Kar, Liberty, National, Oldsmobile, 8 cylinder Packard, Paige-Detroit, Peerless, Pierce-Arrow and 109 other well-known makes of passenger cars, trucks and tractors.

NO.	Size	Wt. Each	EACH
78RT	⅞-18 long	5 oz.	$1.00

Regular equipment on Buick, Chevrolet, McLaughlin-Buick, Canada, Scripps-Booth, 4 cylinder, SSE Co. Knox, Samson and Wolverine tractors.

NO.	Size	Wt. Each	EACH
78LT	⅞-18 long	5 oz.	$1.00

Regular equipment on Chandler, Crane-Simplex, and White. Also Bessemer, Hahn, Moreland, Noble and Robinson Fire trucks.

NO.	Size	Wt. Each	EACH
78LBT	⅞-18 long body	5 oz.	$1.00

No. SAET

No. SAE. LT

No. SAENT

No. 18 MT

Regular equipment on Apperson, Commonwealth, Daniels, Haynes, Locomobile, Marmon, Mitchell, Saxon, Singer, Stearns-Knight, Gabriel trucks, Wallis tractors and Delco-Light.

No. SAET or Locomobile Special Titan. Slightly shorter than SAE Regular. Regular equipment on 1920 Locomobile.

No.	Size	Wt. Each	EACH
SAET	⅞-18	5 oz.	$1.00

Regular equipment on Oakland 34-B, Oldsmobile 6 cylinder, Premier, Seneca, all Nash cars up to 1919.

NO.	Size	Wt. Each	EACH
SAELT	⅞-18 long	5 oz.	$1.00

Regular equipment on 1919-20 Nash cars.

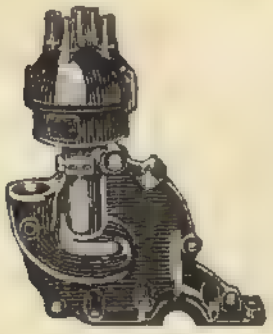
NO.	Size	Wt. Each	EACH
SAENT	⅞-18 extra long	6 oz.	$1.00

Regular equipment on Essex, B. & S. Motor Wheel. Recommended for Pierce-Arrow, 1915; all cars using Metric Plugs.

NO.	Size	Wt. Each	EACH
18MT	Metric	5 oz.	$1.00

Nuts for special type Terminals furnished on request

ATWATER KENT SCIENTIFIC IGNITION



Type "K-2" Ford Outfit

For the Ford

Type "H" Ford Outfit

Atwater Kent Scientific Ignition on the Ford will add an unbelievable amount of increased motor efficiency to the already efficient Ford.

It eliminates fussy vibrating coils from dash, making it possible to use the Ford magneto for lighting alone; reduces car vibration; increases motor power; and permits you to throttle down to 3 or 4 miles per hour and jump up to 40 with the smoothest possible acceleration.

THE REASON—Greater Spark Efficiency at All Speeds

The automatic spark advance, which is only one feature of the Atwater Kent System, makes the motor self-regulating. Spark is always safely retarded for starting, automatically advanced for high speeds and automatically retarded for low speeds and hill climbing. The driver can forget the spark lever and control the car by means of the throttle alone, leaving both mind and hands free. No danger of stalling the motor due to advanced spark.

Type "K-2" Unisparker on Ford Motor

By means of this system a better motor performance is obtained than with a high-tension magneto—gear shifting is reduced and absolutely synchronous ignition is obtained.

Atwater Kent Ignition is the only ignition system which consumes so little current that a storage battery is unnecessary. Ordinary dry cells may be utilized, a single set of which will give upwards of two thousand miles of efficient service. Uses less than one-tenth the current consumed by other ignition systems.

The Atwater Kent Ignition System for Ford cars is made in two forms: Type "K-2" with Automatic Spark Control and Type "H" for use in connection with the regular spark lever.

The Atwater Kent Coil is furnished with either a substantial Kick Switch, which may be foot-operated, or with a Plate Switch Coil, somewhat cheaper and simpler in construction, if desired. There are no moving parts in the coil, and the absence of the noisy vibrating coils with their fussy and delicate adjustments is an especially noticeable feature of this system.

Type "H" Unisparker on Ford Motor

Kick Switch Coil, to be used with either Type "K-2" or "H"

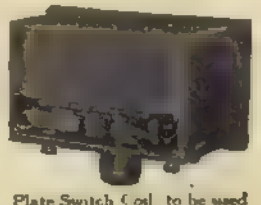


Plate Switch Coil, to be used with either Type "K-2" or "H"

Type "K-2" System for Ford Cars

With Automatic Spark Advance, including
Kick Switch Coil..... **$37.00**
Including Plate Switch Coil..... **35.00**

Type "H" System for Ford Cars

Without Automatic Spark Advance, including
Kick Switch Coil **$30.00**
Including Plate Switch Coil..... **28.00**

ATWATER KENT IGNITION FOR FORDS

Known as Type CA and is used on Ford cars of 1919 and later when equipped with electric starting and lighting system. It is identical with Type CA Atwater Kent Ignition used as standard factory equipment on many of the foremost [redacted].

Type CA is a closed circuit system with an automatic spark advance and an auxiliary spark lever. It can be used economically only in connection with the starting and lighting system, but in an emergency a set of six dry cells will give 150 miles of service. **The system has the following advantages:**

Simple, contactless distributor. No rubbing surfaces. No brushes. No troubles.

The same hot spark at all speeds from cranking to maximum speed. Not dependent on motor speed like a magneto.

This hot spark at low speeds permits throttling down to three or four miles per hour.

Makes starting easy in all weather by furnishing a hot, fat spark as soon as contact is broken, regardless of motor speed.

This easy starting prolongs the life of the storage battery.

Automatic spark advance reduces gear shifting to a minimum, increases mileage per gallon and adds to ease of driving.

Auxiliary spark lever permits of manual spark advance.

Coil. No moving parts, no contacts, no vibrators, no [redacted].

Fool-proof in construction—one adjustment only and that made with an ordinary screwdriver.

There are no complicated parts and no magnets. It is simply a high-grade device that does its work in hot or cold weather, rain or shine, and will outlast the car.

Type CA is complete in every respect. Following is a list of the items which comprise the outfit:

Simple, accessible contact maker. Few moving parts. Factory adjustment good for thousands of miles.

A Type CA on special gear cover to fit 1919 and later Fords.

B Spiral drive gear.

C Coil.

D Wiring complete with terminals attached.

E Spark advance lever and rod.

F Cotter pins (2).

G Screws (4) for attaching coil.

H Switch connections.

I Wiring brackets.

J Special socket wrench.

L Dash cover plate.

* Instructions for installation.

Atwater Kent Ignition, Type CA, complete..... .....each, $24.00

VIBRATORS

STAR VALVE

1H8803 — "Polar Cub," Model 1827. 7 in. long, master vibrator, black enamel finished steel frame, black ebony finished handle, 3 applicators, 5 ft. of cord. Retails at $3.00. 1 in box, 5 lbs.
Each, **$3.65**
Lots of 12, " **3.50**

1H9814—"Star," 7½ in. long, 110 volts, alternating current only, nickle plated case, requires no oil, no parts to get out of order, ebonized handle, 3 applicators. Retails at $3.00. 1 in box, 2½ lbs.
Each, Out
Lots of 6, "

1H9815—"Star" 8½ in. long, start and stop switch in ebonized handle, 4 special applicators, will stand hard daily usage. Each in hardwood box, 4½ lbs. Retails at $12.50. 1 in box.
Each, **$9.00**
Lots of 3 " **8.60**

"STAR" ELECTRIC HAIR DRYER

1H9816 9½ in. long, aluminum casing and frame, making it one of the lightest on the market. Ebonized handle, switches for controlling hot and cold air current and for starting and stopping the motor in handle. Retails at $12.50. 1 in box.
Each, **$9.00**
Lots of 3, " **8.50**

"HOTPOINT" HEATING PAD

1H7923—(Mfrs. 11506) "Hotpoint" Automatic, 10 in. diam., soft, flat and flexible, containing thermostatic control, adjustable to any temperature between 100 and 150 degrees Fahrenheit while ordered; plug is furnished for dry heat application, easily removed for laundering. 6 ft. of cord and plug. 1 in box, 1 lb.
Each, **$5.67**
Lots of 3, " **5.36**

VACUUM CLEANERS

Three famous brands — favorably known from one end of America to the other

"ALADDIN"

The Wonder Cleaner

The "Aladdin" is a quality product in every particular. Made by the largest manufacturer of Electric Vacuum Cleaners in the world. There is no better cleaner on the market in construction and performance than the "Aladdin." Combines excellence in construction and operation with moderate price. Following are a few of its distinctive features:

(1) **Revolving Spiral Bristle Brush**—Loosens the imbedded dirt and sweeps up all lint, ravelings and surface litter.

(2) **G. E. Type Motor**—Air cooled, no belts or cogs. fan forces air through motor and cools it during actual operation. This is a great point of superiority in the "Aladdin" Motor.

(3) **Twill Bag**—Handsome blue bag of finest twill, air and dust tight. Slide on clamp—simply pull the clamp off the end of bag, empty it, and slide the clamp on. A quarter turn fastens the bag onto cleaner by a bayonet lock, a quarter turn back and it is released for emptying.

(4) **Nozzle Adjustment**—Cleaning nozzle can be raised and lowered by turning adjusting screw over the rear caster.

(5) **All Aluminum Body**—All castings of highly polished aluminum.

(6) **Pistol Grip Handle**—Equipped with switch for instant starting and stopping.

(7) **Flexible Covered Cord**—30 ft. long, with plug. When cleaner is not in use cord can be folded onto metal guides on handle.

(8) **Non-Marring Rubber Casters.**

(9) **Extra Wide Nozzle**—13½ in. long, 1¾ in. wide, tapered so that it goes into the corners of rooms and stairs. It is unnecessary with the "Aladdin" to make a separate job of cleaning out of the way places.

1H6800—For 110 volts, single phase motor, alternating or direct current. 1 in case, 12 lbs.
Each, **$26.50**
Lots of 3, " **25.75**

Complete set of instructions for assembling and operating the "Aladdin" included with each cleaner.

Attachment Set

Suction coupling.
Blower coupling.
6 ft. of corrugated hose.
Long extension handle.
Short extension handle.
Furniture nozzle.
Nozzle brush
Flexible rubber nozzle
Floor plate.

1H6805—1 set in box, 4 lbs.
SET (9 pcs.) **$6.50**

"REGINA"

This cleaner is compact, practical and durable, sturdily constructed with the very best material procurable. Made by the manufacturer of the first vacuum cleaner ever put on the market.

SIMPLY CONSTRUCTED—Built on a principle that practically eliminates possibility of it getting out of order.
MOTOR—Horizontal Gearless, Electric, air cooled.
EXTENDED NOZZLE—13 in. long, 4 in. wide can be adjusted for any surface from hardwood floors to rugs of deepest naps. Equipped with straight brush for agitating surface of rug. Can be used under low furniture. 4 solid rubber wheels.
TILTING DEVICE—Raises nozzle off floor—regulated by foot release.
MATERIAL AND FINISH—Polished aluminum, motor housing and nozzle black enameled steel handle, nickel plated grip and trigger switch.
BAG—Finest khaki material, black japanned upper and lower clamps.

1H0653—For 110 volts, alternating or direct current, 23 ft. of black cord. Fully guaranteed. 1 in carton, 13 lbs.
Lots of 3,
Each, **$26.50** Each, **$27.50**

Attachment Set

8 ft. fabric covered rubber hose, reinforced
Suction connection.
Blower connection.
Elbow.
Extension tube.
Tool for cleaning draperies, curtains, upholstery, pillows, mattresses, etc.
Brush for walls, moldings, books, clothing, etc.
Tool for blowing or suction purposes.

1H7899—1 in box, 4 lbs.
SET (8 pcs.) **$7.75**
Lots of 3 sets, Set, **7.50**

Hotpoint Vacuum Cleaner

MODEL V2

Made by the nationally known Edison Electric Appliance Company. Extensive advertising has created a demand for this cleaner which you can supply.

ADJUSTABLE NOZZLE—13½ in. wide, tapered at ends. Cleans in corners and hard-to-get-at-places, can be raised and lowered.
AGITATING NOZZLE BRUSH—Loosens the stubborn surface litter on rug or carpet.
HORIZONTAL MOTOR—Air-cooled. Universal type, 0 to 60 cycles, has tremendous suction capacity.
PRESSED STEEL FAN—Blades electrically welded to flanged steel baffle plate, accurately balanced and self-cleaning.
DUST BAG—Highest grade twill cotton, dust trap prevents dirt from falling back into motor and from spilling on floor when being detached.
HAND GRIP HANDLE—Switch encased in aluminum grip with pneumatic rubber switch control.

1H7986 Mfrs. 112V2). For 110 volts, alternating or direct current. Universal motor. 1 in case, 11 lbs.
Lots of 3,
Each, **$29.25** Each, **$31.50**
Can be furnished in odd voltages at no additional charge.

Attachment Set

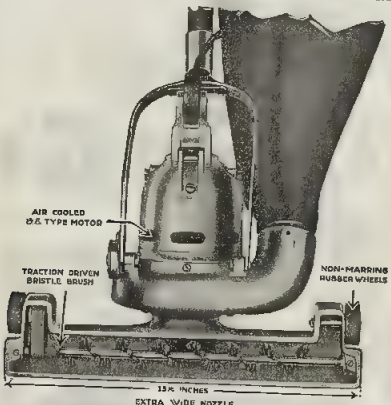
8 ft. fabric covered rubber hose, reinforced.
Suction connection piece.
Blower connection piece.
Extension tube.
Short extension tube.
Radiator or tufting tool.
Upholstery nozzle.
Special high grade clothes cleaning brush.

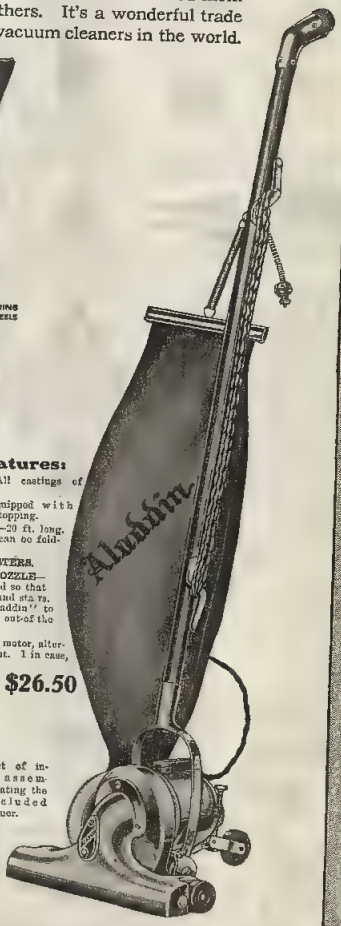
1H7987—(Mfrs. 112V2A.) 1 set in box, 6 lbs.
SET (8 pcs.) **$6.50**

Aladdin VACUUM CLEANER

The Wonder Cleaner

The greatest electric vacuum cleaner value in America—and we have examined them all. A high grade cleaner at a price that beats all others. It's a wonderful trade winner. Made by the largest manufacturer of electric vacuum cleaners in the world.





Following Are a Few of Its Distinctive Features:

(1) **REVOLVING SPIRAL BRISTLE BRUSH**—Loosens the embedded dirt and sweeps up all lint, ravelings and surface litter.

(2) **G. E TYPE MOTOR**—Air-cooled, no belts or cogs, fan forces air through motor and cools it during actual operation. This is a great point of superiority in the "Aladdin" motor.

(3) **TWILL BAG**—Handsome blue bag of finest twill, air and dust tight. Slide on clamp simply pull the clamp off the end of bag, empty it and slide the clamp on. A quarter turn fastens the bag onto cleaner by a bayonet lock—a quarter turn back and it is released for emptying.

(4) **NOZZLE ADJUSTMENT**—Cleaning nozzle can be raised and lowered by turning adjusting screw over the rear caster

(5) **ALL ALUMINUM BODY**—All castings of highly polished aluminum.

(6) **PISTOL GRIP HANDLE**—Equipped with switch for instant starting and stopping.

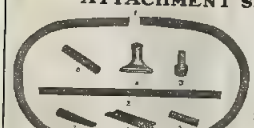
(7) **FLEXIBLE COVERED CORD**—20 ft. long. When cleaner is not in use cord can be folded onto metal guides on handle.

(8) **NON-MARRING RUBBER CASTERS.**

(9) **EXTRA WIDE TAPERED NOZZLE**—15¾ in. long, 1¾ in. wide, tapered so that it gets into the corners of rooms and stairs. It is unnecessary with the "Aladdin" to make a separate job of cleaning out-of the way places.

1H6900—110 volts, single phase motor, alternating or direct current. 1 in case, 12 lbs.
Lots of 5, Each, **$25.75** Each, **$26.50**

ATTACHMENT SET



Suction coupling
Blower coupling
5 ft. of corrugated hose.
Long extension handle.
Short extension handle.
Nozzle brush
Furniture nozzle.
Flexible rubber nozzle
Floor plate.

1H6855—1 set in box, 4 lbs. ....SET (9 pcs.) **$6.50**

Complete set of instructions for assembling and operating the "Aladdin" included with each cleaner.

SCROLL SAWS

NEW ROGERS, japanned iron frame, striped in red and gold, japanned tilting-table, selected ash arms and Pitman, steel arbors, carefully fitted to bearings, 4½ in. iron balance wheel, with drilling attachment, improved saw clamps, height of table 32 in. The swing around the table under the arms is 34 in., complete with 1 dozen 5-in. bracket saw blades, wrench, sheet of designs and drill points, w't 25 lbs., boxed for shipment 42 lbs.

No. T2—With Emery flywheel, each $20.00

ONE IN A BOX, SHIPPED KNOCKED DOWN

For carpenters and builders, cabinet makers and other wood workers. Will saw pine 2 in. thick, 1 ft. per minute; 1 in. thick, 4 ft. per minute.

The swing around the blade under the arm is 24 in.

No. F7—Cast iron frame, hard maple table and arms, balance wheel runs on steel arbor, 7 in. blade, complete with 1 dozen saw blades, w't 55 lbs., boxed for shipment 80 lbs., each★ $66.50

ONE IN A BOX, SHIPPED KNOCKED DOWN

VELOCIPEDE SCROLL SAWS

Cast iron frame, hard maple table and arms, balance and drive wheels run on steel arbors, 7 in. blade, with one dozen blades, w't 90 lbs., boxed for shipment 130 lbs.

No. F2—Without boring attachment, each★ $76.00

No. F2B—With boring attachment, including one 3/16 in. bit, each★ $85.50

Swing around blade under arm is 24 in. Boring attachment can be furnished at any time. We furnish extra bits at following prices, each: 1/16, 15c.; 3/32, 15c.; 1/8, 20c.; 5/32, 20c.; 3/16, 25c.; 7/32, 30c.; 1/4, 35c.

ONE IN A BOX, SHIPPED KNOCKED DOWN

COMBINED CIRCULAR AND SCROLL SAWS

Showing Circular Saw Only.

Neither circular nor scroll saw interferes with successful operation of the other. Capacity of scroll saw is same as that of No. 7. Table can be adjusted up or down by a cam, to allow any desired depth of cut being made by saws or cutter tools. Circular saws are 6 in. in diam. and reach 1⅝ in. above the table. W't boxed for shipment 350 lbs.

No. F25—Circular saw only—with two 6 in. saws—without attachments, each★ $161.50

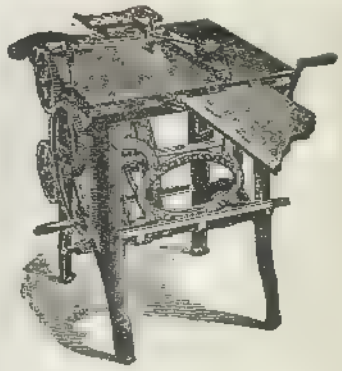
No. F26—Scroll saw attachment—1 dozen saws, extra★ ....each $19.00

No. F27—Boring attachment, with drill chuck, extra★ .....each $28.50

No. F28—Combined machine, complete with attachments, each★ $190.00

ONE IN A BOX, SHIPPED KNOCKED DOWN

CIRCULAR SAWS



Iron and steel frame, 30x30 in. iron table, complete with self-feed, two 10 in. circular saws—1 each rip and cross-cut, w't 400 lbs., crated 420 lbs.

Hand and foot power for hard or soft, thick or thin lumber. Can be used as a cross-cut saw. Self-feed mechanism can be instantly thrown back to rear of machine, also rip gauge, leaving table perfectly clear for cut-off work. Can be used for rabbeting and grooving. The self-feed can be used for grooving and rabbeting as well as when the machine is used for ripping. Cutter heads are also used for graining and dadoing and with knives of suitable width for joining. Can be provided with boring attachment which is the same as used on the combined machine.

No. F4—For Foot Power, each★ $285.00

No. F5—With countershafts, for steam instead of foot power, each★ $285.00

BORING ATTACHMENTS

No. F6—each★ $28.50

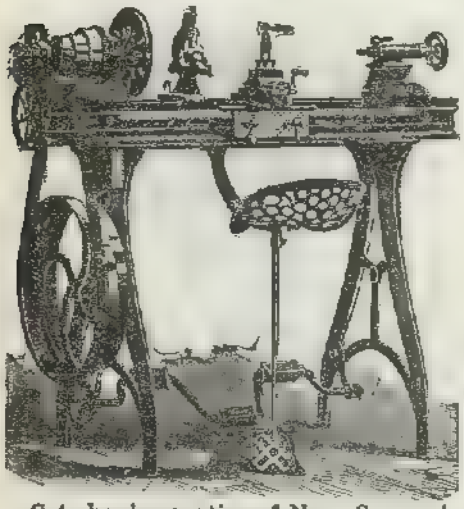
COUNTERSHAFTS

No. F7C—Countershaft and belt pulleys★ $28.50

ONE IN A BOX, SHIPPED KNOCKED DOWN

★ Items Marked Thus ★ Are Shipped From Factory Only.

LATHES



Cut showing portion of No. o Screw Cutting Engine Lathe.

Barnes all iron and steel, velocipede foot power.

Swings 11 in. on the face plate, 6½ in. over the tool carriage, and is 34 in. between centers. Back-gearing and cone pulleys give great range of speed. Head stock has a steel spindle with 1 5/32 in. hole through its entire length. Tail stock can be readily set at any desired point, and can be taken off altogether, leaving it free for face plate or chuck work. It can also be set over for turning tapers. Spindles of both head and tail stocks are of steel, with positively true taper holes for the reception of the centers. Tail stock center is self-discharging. Tool carriage is gibbed to the bed. The tool can be set to the work at any position or angle desired; also to bore a taper hole. All the works are securely protected from chips and dirt. As a right or left screw cutting lathe it is simply perfect. All the gearing is cut from solid metal in the best machinery known for gear cutting, and is as true and noiseless as it is possible for metal gearing to be. Weight 385 lbs., boxed ready for shipment, 500 lbs.

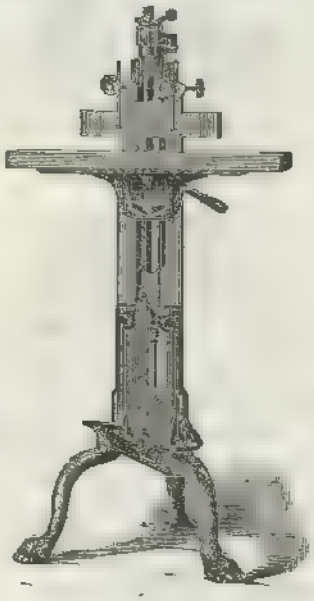
No. F5—Lathe, complete, each★ $362.00

ONE IN A CRATE

H.S.B.&CO. REV-O-NOC

We Stand Behind the Brand.

FOOT POWER MORTISERS



Has great range for work, power on the chisel, accuracy in its action, and has all the required adjustments, which are easily and quickly made. Has abundant strength, is durable, and occupies but little space. Except for the supplementary table and treadle, the machine is made entirely of iron and steel.

No. F9—Foot power mortisers, without chisels, w't 135 lbs.; boxed 170 lbs.★ .....each $95.00

No. F10—Self-cleaning mortising chisel, sizes ¼, 5/16, ⅜, 7/16, ½, 9/16, ⅝, ¾, ⅞ and 1 in.★ .....each $4.50

ONE IN A CRATE

EMERY WHEEL DRESSERS

No. 15—Huntington, for truing, shaping and removing glaze from solid emery wheels while running at full speed, w't per doz. 22 lbs., per dozen $9.80

No. 25—Extra Cutters, w't per doz sets 1 lb. .....per set $0.09

ONE IN A BOX

REV-O-NOC GRAIN EMERY

Fine. Medium. Coarse.

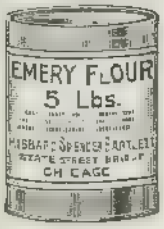
Made from the highest quality ores, throughly washed and evenly graded. Sizes 36, 46, 60, 80, 90, 100, 120 and 150.

Per Lb.

5 lb. Cans .....per pound $0.10

WE DO NOT BREAK PACKAGES

REV-O-NOC EMERY FLOUR



Highest quality, smooth and long-lived.

5 lb. Cans .....per pound $0.10

WE DO NOT BREAK PACKAGES

Carry a line of goods upon which you can rely.

The dealer who carries H. S. B. & Co. Brands marks his store as a place where the better goods are sold.

A house with over sixty-seven years' experience stands back of our brands.

★ Items Marked Thus ★ Are Shipped From Factory Only.

BOLT CASES

AMERICAN

Revolving, Octagon Shape.

Made of poplar, cherry stained; metal drawers, with wood fronts, white porcelain knob on each drawer, top part revolves on base; the drawers are all provided with stops to prevent their removal from the case; each drawer holds a package of bolts of the size and number indicated on the front of the drawer.

Nos.	5-B	6-B
Drawers	98	104
Height, inches	60	65
Width, inches	30	30
Weight, lbs	375	400
Each	✚$292 50	✚$316 50

One in a crate.

No. 5B—Bolt case contains drawers labeled for the following sizes of bolts:

Carriage Bolts.

¼ inch—1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼ 4½, 4¾, 5.

⅜ inch—1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5, 5½, 6.

⅝ inch—2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 5, 6.

⅞ inch—2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 8, 9, 10.

1 inch—2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 8, 9, 10, 11, 12.

Tire Bolts.

⅜ inch—1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3.

½ inch—1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3.

⅝ inch 2, 2¼, 2½.

No. 6B—Bolt case contains in addition to No. 5 the following drawers for carriage bolts:

⅝ inch x 7½, 8½, 9½.

½ inch x 7½, 8½, 9½.

Note—Numbers on bolt and screw cases changed to suit purchasers, without extra charge.

ECLIPSE

Bins are made of annealed sheet steel. Each bin is hand riveted; stem is made of best steel tubing. Each section works independently of every other section and are hung on adjusted ball-bearings and turns with the same ease, whether full or empty.

Each section contains twelve compartments.

Nos.	63	64
No. of sections	3	4
No. of bins	36	48
Height, ins	40	52
Weight each, lbs	245	285
Each	✚$155 70	✚$171 15

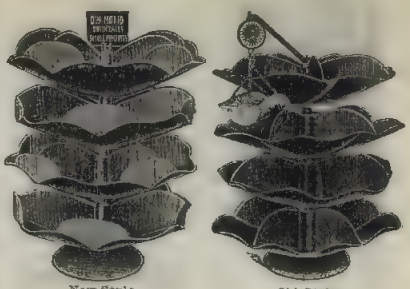
Nos.	65	66
No. of sections	5	6
No. of bins	60	72
Height, inches	64	76
Weight each, lbs	325	865
Each	✚$186 90	✚$202 50

Nos.	67	68	69	70
No. of sections	7	8	9	10
No. of bins	84	96	108	120
Height, inches	88	100	112	124
Weight each, lbs	405	445	485	525
Each	✚$218 25	✚$233 70	✚$249 30	✚$264 25

One in a crate.

✚F. O. B. Ohio Factory Only.

REVOLVING NAIL BINS



New Style. Old Style.

Each Bin will hold one keg of nails.

The bins are made of annealed sheet steel. Each bin is hand riveted and perfectly finished. The stem is made of the best steel tubing. Each section works independently of every other section.

Each section is hung on finely adjusted ball-bearings and turns with the same ease whether full, partially full or empty. Ordinary selling size of nails are placed in bottom sections, rare sellers in top sections.

Each section contains five bins, each of which will hold 100 pounds of nails, bolts, rivets, etc.

New style stands, have extra wings in front, giving to each bin 20 to 30 pounds greater capacity.

New Style, Without Scales.

Nos.	23	24	25
Number of sections	3	4	5
Number of bins	15	20	25
Height, inches	40	52	64
Weight each, lbs	270	320	370
Each	✚$222 00	✚$258 75	✚$291 60

One in a crate.

Old Style, Without Scales.

Nos.	13	14	15
Number of sections	3	4	5
Number of bins	15	20	25
Height, inches	40	52	64
Weight each, lbs	250	300	360
Each	✚$194 40	✚$221 40	✚$246 90

One in a crate.

SCALES FOR NAIL BINS

May be adjusted to raise or lower to any section by use of a chain.

	Each
No. 5NB—Scales, with scoop, weight each, 20 lbs	✚$420 00

Packed loose.

✚F. O. B. Ohio Factory Only.

"HUMMER" MECHANICAL TRAINS

Manufactured by the American Flyer Co. The best low priced mechanical trains on the market. The manufacturer stands back of every outfit

Heavy stamped sheet metal, steel gears, steel geared pinions, brass rails, strong steel clock works. Each set in partitioned box

WARNING!

Don't buy your Sporting Goods for Spring until you have seen the February issue of "Our Drummer" catalogue

F3214A 10 ... in., bright enameled, 7 in. black locomotive 4 in. green tender, two 4 in. red and yellow passenger cars 6 section curved and straight track forming oval 91½ in. circum. ½ doz. sets in partitioned box. Doz. sets. **$9.50**

F3216— ... bright enameled, 7 in. black locomotive, 4 in. green tender, 4 in. red and yellow passenger car, 4 section circular track 90 in. circum., 1 switch in litho station, 6 in. single arm, red, white and blue semaphore. ½ doz. sets in partitioned box. Doz. sets, **$10.50**

Made in America "American Flyer" The Train with the Guarantee MINIATURE Registered U.S. Patent Office RAILROADS

MECHANICAL TRAINS

The train with the guarantee—over two and a half million are in use. They are a reproduction of the well known American railway equipment. All parts are scientifically constructed and carefully tested at the factory before shipment. The unconditional manufacturer's guarantee insures your profit and helps make customers.

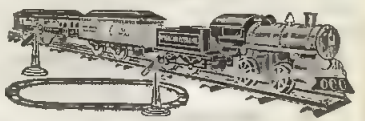
Patent ratchet device, an exclusive feature of this line, prevents breaking of spring if train is run backward. Black enameled cast iron engines, heavy open spoke driving wheels, black enameled tenders, steel couplers, adjustable couplings, latest track improvements, including banking. Motors have hardened steel pinion gears. Each set in lidded partitioned cardboard box.

F3222—6½ in. engine, 3½ in. tender, 5½ in. passenger car, 8 section oval track, 82 in. circum. ½ doz. sets in box. Doz. Sets, **$13.20**

F3223—6¾ in. speed governed engine, 4 in. tender, 6¼ in. parlor car, 10 section oval track, 103 in. circum. ½ doz. sets in box. ..... Doz. Sets. **$16.20**

F 3224—6½ ... speed governed engine, nickeled piston rods, brake 4 in. ... in. passenger car with sliding door, passenger car ... 12 section oval track, 165 in. circum. ... ½ doz. sets in box Doz. Sets. **$18.60**

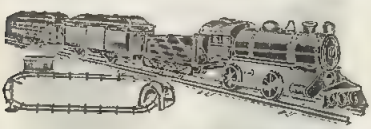
F3226—6½ in. speed governed engine, piston rods with brake, 4 in. tender, 5 in. passenger and baggage cars with sliding doors, 14 section curved track, 165 in. long with CROSSOVER forming figure eight. 1 set in box. Set **$2.10**



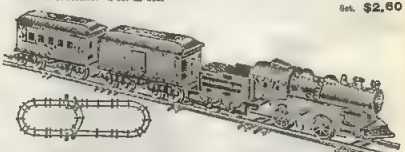
F3228—6½ in. speed governed engine, piston rods, brake, 4 in. tender, 6¼ in. passenger and baggage cars with sliding doors, 14 section oval track, 124 in. circum. ... arm semaphore. 1 set in box Set. **$2.40**

F3235—6½ in. speed governed engine nickeled piston rods, brake, 4 in. tender, 6 ... in. box ... sand car and caboose, 12 section oval track, 124 in. circum. 1 set in box ... Set **$2.35**

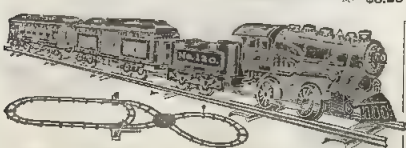
F3230—6¾ in. speed governed engine, nickeled piston rods, brake, 4 in. tender, 6¼ in. passenger and baggage cars, 12 section straight and curved track, 303 in. long, forming oval and circle. 2 switches. 1 set in box. Set, **$2.60**



F3210—6¾ in. speed governed engine, 4 in. tender, 6 ... in. passenger and baggage car with sliding doors, 10 section oval track, 103 in. circum. 1 large paper tunnel packed to represent mountain scene, litho steel station ... 1 automatic semaphore. 1 set in box Set **$3.25**



F3243—7½ in. speed governed engine, piston rods, automatic stop starting throttle, 4 in. tender, 6¾ in double truck, passenger and baggage cars, 12 section curved and straight track, 165 in. long, 1 automatic stop section, 2 switches, forming oval and circle. 1 set in box. Set, **$3.35**

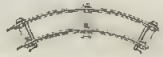


F3242 7½ in. speed governed engine, piston rod, brake, starting throttle, 4 in. tender 6¾ in. passenger and baggage cars with sliding doors, free swinging double trucks and final position couplers, 10 sec. ... curved ... straight track including 1 automatic stop section, 326 in. long ... switches, 1 crossover forming oval, circle and loop. 1 set in box. Set, **$3.90**

MECHANICAL TRAIN TRACK SECTIONS

Fit "American Flyer," "Hummer," and practically all mechanical trains. Length 10¼ in., machine cut graded tracks, substantially made. 1 doz. sections in box.

F3246 Straight Doz. sections, **63c** | F3247—Curved ..... Doz. sections, **63c**



Put a Price Ticket on Every Item

"AMERICAN FLYER" ELECTRIC TRAINS

Thoroughly tested before leaving the factory — guaranteed electrically and mechanically perfect. Be sure to order early the complete window display outfit for display in your window.

Cars and tender litho in several colors, black enameled engine, gold outlined, red wheels, all pieces bright baked enamel finish, bright metal third rail track, complete with permanent electrical connection and battery rheostat regulating speed together with necessary covered electric wire. Each set in box with complete instructions and drawings.

F3384—6¼ in. electric type locomotive, two 5¾ in. pullman cars, coupled train 21 in. long, 8 section curved track, 82 in. circum., $8.00 Retail Outfit

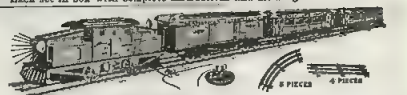
Set **$3.25**

F3387—8 in. electric type locomotive, 8¼ in. pullman and baggage car with sliding doors, coupled train 24 in. long, 10 section track, 103 in. circum.

Set **$4.25**

F3866—7¾ in. steam type locomotive, electric headlight, 8¼ in. tender, two 8¼ in. parlor and one 6¼ in. express and baggage car, coupled train 56 in. long, all with free swinging double trucks, 15 section oval track, 120 in. circum.

Set, **$5.25**



F3388—8 in. electric type locomotive, electric headlight, three 6¼ in. cars, combining baggage, double truck passenger and pullman, coupled train 31 in. long, 15 sections circular track 150 in. circum. ..... Set, **$6.00**

F3389—8 in. electric type locomotive, electric headlight, two 6¼ in. double truck parlor cars and 1 combination express and baggage car with sliding door, coupled train 31 in. long, 14 section track 145 in. circum. 6¼ in. of the metal station. 9½ in. over-all. Set complete, ready to run as shown ..... Set, **$7.50**

"AMERICAN FLYER" TRANSFORMERS Including Cord and Plug

Air cooled type, made expressly for trains illustrated on this page, for operating on 110 volt, 60 cycle, alternating current only, guaranteed by manufacturer 1 in box

F3383 Ht. 2¾ in., width 4 in., 50 watt capacity, master stage recommended for operating F3341 and F3387 trains

Each **$2.25**

F3386—Ht. 3 in., width 4 in. 4 to 12 volts may be obtained recommended for operating all trains on this page and other electrical toys. Each, **$2.75**

ELECTRIC TRAIN TRACK SECTIONS

10 in sections, for all systems of American Flyer electric trains 1 doz in pkg

F3394—Straight track, Doz. sections **$1.10**

F3395—Curved track, Doz. sections, **$1.10**

COMPLETE "AMERICAN FLYER" ELECTRIC TRAIN OUTFIT

An ideal outfit for any merchant. Particularly adapted for window display. The 12 wheel locomotive with automatic reverse, wired arc lamp and large amount of tracks are appealing features. Our exclusive outfit, reasonably priced.

F3241—12¾ in. 12 wheel locomotive, electric headlight and patented automatic reverse. 1 each 10¼ in. baggage and passenger cars 16 section track 152 in. long 10 in decorated papier mache tunnel, 12½ in. white metal station, wired are light with terminal crossing warning with track terminal, danger bell rings when train approaches. 1 set in shipping carton

Set, **$16.50**

"KINOGRAPH" MOVING PICTURE MACHINES

Real miniature moving picture machines. The kiddies and grown-ups can have their moving picture show at home. Electrically lighted. Non-flammable film, machines and film passed by the Fire Underwriters. Each packed in special labeled shipping carton with film. Distributed exclusively by Butler Brothers.

F4603—6¼x6x13¾ in. Features, simplified German movements, crank and rear action wood grip handle patented self-acting action pedaled plate for holding film in place adjustable focus, porcelain socket, nickeled reflector, ventilated top and sides, adjustable coppered bracket with reel for holding film 5 ft. covered electric wire lead with plug for attaching to light socket, 8 ft. length up-to-date film

Each, **$3.07**

F4604—13⅝x15½x7⅞ in. Features, silent driving movements, all brass parts nickel plated, oak case with double screw fastening, 4 slides, 1 reel of film, and on film a scene with a merry-go-round effect with removable reels with nickel plated spreading device for changing film, small spring giving reels proper tension, well ventilated top, hinged rear opening with nickel plated spreading reels for changing film, 6 ft. lead with plug for attaching to electric light socket, 24 ft. reel of non-flammable up-to-date film in metal container Each **$8.76**

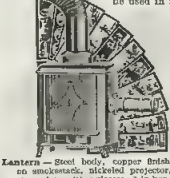
F4605—Extra films for F4603 machine, three 8 ft. length films in box, Assrd. COMIC, WESTERN and SCENIC Box, **$1.05**

Extra Films for F4604 Machine—24 ft lengths each reel in metal box.

F4606—COMIC..... Box
F4607—SCENIC..... **$1.15**
F4608—WESTERN..... "

IMPORTED MAGIC LANTERNS AND SLIDES

The celebrated E. Plank make, each with "E. P." trademark, which is a guarantee of perfection. Full instructions in each box. Note: Petroleum or alcohol may be used in the burner.

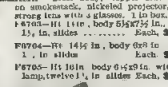


Lantern—Steel body, copper finish collar on smokestack, nickeled projector, extra strong lens with a glasses, 1 in box.

F4703—Ht. 11½ in., body 5¼x7¾ in., twelve 1½ in. slides ..... Each, **$2.40**

F4704—Ht. 14½ in., body 6x8 in., twelve 1½ in. slides Each **$3.75**

F4705—Ht. 16½ in. body 6½x9 in. with glass lamp, twelve 1½ in. slides Each, **$4.25**



Lantern—Steel body, elbow smokestack, burner lamp with glass chimney, reflector, hinged door, telescopic lens

F4700—Ht. 10 in., body 4½x6 in. lenses with 8 glasses, six 1¼ in. slides, 1 doz. in box ..... Doz **$8.00**

F4701—Ht. 11 in. body 5x7 in. triple lens six 1¼ in. slides 1 in box Each **$1.10**

F4702—Ht. 12½ in. body 6x8 in. triple lens, twelve 1½ in. slides 1 in box Each, **$1.60**

Slides 12 assrd well selected colored subjects. 1 doz. in box.

F4720—1¼x1¾ in. ..... Doz. **$0.32**
F4721—1¾x2 " ..... " **.48**
F4722—1¾x3 " ..... " **.60**
F4723—2 x5¼ " ..... " **.74**

AMERICAN-MADE DOLLS, WITH HARD-TO-BREAK HEAD AND HANDS

PAINTED HAIR AND EYES

We Do Not Break Packages

N25625 N25626

Per doz.

N25625—Neatly dressed in assorted pink and blue checked gingham dresses with bonnet of same material to match, with two strawberry points with bow. Color and texture of hair, eyes and features. Has white pearl buttons for decoration. Cotton body, with removable shoes and stockings. Full jointed arms stuffed doll with composition head painted hair and features and composition forearms. Measures 12½ inches, packed in box, each 16.56

N25626—Boy Doll dressed in solid colored linen blouse to Middy blues, blue bloomer pants and sailor trimmed cap, colored to match. Bonnet of same material to match. Removable shoes and stockings. Full jointed cork stuffed doll with composition head, painted hair and features and composition forearms. Measures 12½ inches, packed in box 16.56

N25627—Little miss of fashion portrayed. Value of this doll and dresses of good quality gingham of small square design. Bonnet of same material to match. Lawn underwear, removable shoes and stockings. Full jointed cork stuffed doll with composition head, painted hair and features and composition forearms. Measures 12½ inches, packed in neat green box 16.56

N25853 N25854 N25857

Per doz.

N25853—12 inch walking and sleeping doll, flowered lawn dress round yoke trimmed with lace same as collar and cuffs—colors to be composed on head as I have described—removable patent leather shoes and socks as fashion 17.50

N25854—13 inch walking and sleeping doll, flowered lawn dress, shoulder effect, white waist, ruffled and cuffs trimmed with lace—shoes composition head and hands —removable patent leather shoes and socks as fashion 17.50

N25856—16 inch walking and sleeping doll, colored dress with pointed yoke and Each rosette in front—lace on yoke collar and cuffs and lace on dress—bonnet to match dress—lawn drawers and petticoat—removable patent leather shoes and long stockings—composition head and hands 2.80

MOHAIR WIGS—PAINTED EYES

N25628 N25629 N25631 N25632

Each

N25628—Gingham dress of solid colored pink and blue lawn with white organdy ginghm trimmed with color and ruffle trimmed with lace. Bonnet of same material to match. Lawn underwear, removable shoes and stockings. Full jointed cork stuffed doll with composition head, painted hair and features and composition forearms. Measures 14 inches, packed in neat green box 2.40

N25629—Favorite dress of solid colored blue and blue voile material of neat floral design with white ruffle on edge of brief. Bonnet of same material to match with bow. Lawn underwear, removable shoes and stockings. Full jointed cork stuffed doll with composition head, painted hair and features and natural mohair wig. Measures 14 inches packed each in box 2.40

N25630—Gingham dress of favorite style with collar, cuffs, vestee and belt of solid colored linen to match. Bonnet of same material to match, all trimmed with bow. Lawn underwear, removable shoes and stockings. Full jointed cork stuffed doll with composition head painted eyes and features, natural mohair wig. Measures 14 inches packed each in box 2.40

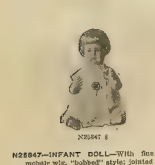
N25631—Neat Outing dress of value material with floral design, large berths of color to match, trimmed with fine lace. Cuffs and collar edges with lace. Lawn underwear trimmed with lace. Fancy bonnet trimmed with lace. Removable shoes and stockings. Full jointed cork stuffed body with composition head, painted eyes and features and good quality mohair wig. Composition hands. Measures 16½ inches, packed each in box 3.80

N25632—Imported dress of gingham material with plaid center, back of colored material to match, all trimmed with two rows of lace, buttons. Large hair bows of color of dress material. Bonnet of same color to match. Lawn underwear trimmed with lace, removable shoes and stockings. Full jointed cork stuffed body with composition head, painted eyes and features, fine quality mohair wig. Measures 16½ inches, packed each in box 3.80

Schoenhut's Unbreakable Jointed Wooden Dolls—Real Mohair Wigs

Body, head, arms, legs, hands and feet are made of solid wood, painted in enamaled oil colors and can be washed. Patented steel springs, hinged joints having double spring tension and swivel connections. With metal stand, each in box.

INFANT DOLLS



N25847 S N25849 N25850

Each

N25847—INFANT DOLL—With fine mohair wig, "bobbed" style; jointed hips and shoulders; dressed in white silp, height, 13 inches 6.50

N25849—INFANT DOLL—With fine mohair wig, "bobbed" style, jointed hips and shoulders; dressed in white silp, height 14 inches 8.00

N25849—FULL-JOINTED BOY DOLL White lawn slip, metal stand; height 14 inches 4.50

N25850—CHARACTER BOY DOLL— With fine sewed mohair wig, "Buster Brown" style; neatly made union suit undergarment, height, 14 in... 6.50

Schoenhut's All Wood Dolls with Moving Eyes

N25851-62 N25851-62

N25851-GIRL DOLL WITH CONVENTIONAL DOLL FACE—Fine mohair wig with ribbon bow. Neatly made union suit undergarment. Shoes and stockings. Moving eyes. Height 13 inches. Each 9.00

N25855-GIRL DOLL WITH CONVENTIONAL FACE—Fine curled mohair wig with ribbon bow. White slip, shoes and stockings. Moving eyes. Height 20 inches. Each 14.50

N25361-62

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

AMERICAN MADE DRESSED DOLLS WITH BISQUE HEAD

N2580 N2581E N2580S N2580A N2581D

Each

N2580O—LONG WAISTED STYLE DRESS—Of soft colored voile suit... ruffs and skirt trimmed with lace. Bonnet of same material trimmed ... Cotton underwear ... removable shoes and stockings. ... 2 85

N2580J JUVENILE COAT DRESS STYLE ... to match. Collar and cuffs trimmed with silk ribbon ... 2 85

N2580O—NEAT CHILDS DRESS ... Collar, cuffs and hem of colored lawn material to match. Bonnet of same material with silk ribbon joined with bow. Cotton underwear, removable shoes and stockings. Bisque head with molded hair and ears, painted eyes, open mouth showing teeth. Jointed body. Height 16 inches, packed each in box. 3 84

N2580AA—LONG WAISTED STYLE DRESS—Of soft colored voile suit... ruffs and skirt trimmed with lace, and joined with silk ribbon bow. Cotton underwear, removable shoes and stockings. Bisque head with moving eyes, open mouth showing teeth. Genuine mohair curly wig with side part. Measures 14 in. packed each in box. 3 84

N2580AE JUVENILE SHIRT AND WAIST STYLE—With gingham skirt ruffled at waist waist of white lawn material. Collar and cuffs trimmed with same material as skirt. Bonnet of same materials with silk ribbon tied with bow. Cotton underwear, removable shoes and stockings. Please quality bisque head with moving eyes, open mouth showing teeth. Genuine mohair curly wig with side part. Measures 16 in. packed each in box. 3 84

N2580S—FANCY WHITE ORGANDY DRESS—With neat collar edged with lace and trimmed with ribbon rosettes. Cuffs and skirt lace trimmed. Skirt has 3 fine rows of tucks. Slip of pink and blue lawn edged with lace. Cotton underwear. Bisque head with moving eyes, open mouth showing teeth. Genuine mohair curly wig with side part. Measures 16 in. packed each in box. 3 84

N2580A—FANCY WHITE ORGANDY DRESS—With neat collar edged with lace and trimmed with ribbon rosettes. Cuffs and skirt lace trimmed. Skirt has 3 fine rows of tucks. Slip of pink and blue lawn edged with lace. Cotton underwear. Bisque head with moving eyes, open mouth showing teeth. Genuine mohair curly wig with side part. Measures 16 in. packed each in box. 3 84

N2580S—FANCY WHITE ORGANDY DRESS—With neat collar edged with lace and trimmed with ribbon rosettes. Cuffs and skirt lace trimmed. Skirt has 3 fine rows of tucks. Slip of pink and blue lawn edged with lace. Cotton underwear. Bisque head with moving eyes, open mouth showing teeth. Genuine mohair curly wig with side part. Measures 16 in. packed each in box. 3 84

N2580S—FANCY WHITE ORGANDY DRESS—With neat collar edged with lace and trimmed with ribbon rosettes. Cuffs and skirt lace trimmed. Skirt has 3 fine rows of tucks. Slip of pink and blue lawn edged with lace. Cotton underwear. Bisque head with moving eyes, open mouth showing teeth. Genuine mohair curly wig with side part. Measures 16 in. packed each in box. 3 84

N2580S—FANCY WHITE ORGANDY DRESS—With neat collar edged with lace and trimmed with ribbon rosettes. Cuffs and skirt lace trimmed. Skirt has 3 fine rows of tucks. Slip of pink and blue lawn edged with lace. Cotton underwear. Bisque head with moving eyes, open mouth showing teeth. Genuine mohair curly wig with side part. Measures 16 in. packed each in box. 3 84

Each

N2580S—SOLID COLORED PINK AND BLUE LAWN DRESSES—With all-over embroidered coat of lawn material with large collar trimmed with lace and joined with bow ribbon to match. Large bat of same material trimmed with 2 in. silk ribbon bow and edged with lace. Underwear with ribbon flesh colored washable legs, composition hands. Bisque head with moving eyes, open mouth showing teeth. Genuine mohair curly wig with side part. Measures 14½ in., packed each in box. 5 80

N2580O—M-DDY SLIT—Of lawn and striped material. Collar joined with silk ribbon bow, large hat trimmed with silk ribbon. Cork stuffed with kidlyne flesh colored washable legs. Composition hands. Bisque head with moving eyes, open mouth showing teeth. Genuine mohair curly wig with side part. Measures 15 in. packed each in box. 5 80

N2581O—FANCY VOILE DRESS—Of floral design with large bertha, cuffs and skirt trimmed with fine val lace with black dash. Large hat shown trimmed with wide lace hanging from brim of hat with black ribbon bow. Cotton underwear trimmed with lace removable shoes and stockings. Cork stuffed with kidlyne flesh colored washable legs, composition hands. Bisque head with moving eyes, open mouth showing teeth. Genuine mohair curly wig with side part. Measures 20 in. packed each in box. 14 00

N2581/—FANCY ORGANDY WHITE DRESS—With skirt, collar and cuffs trimmed with wide lace and ribbon rosette with streamers. Fine tucks on front of waist, pink and blue slip trimmed with lace. Large hat trimmed with silk ribbon and joined with large silk ribbon bow. Cork stuffed with kidlyne flesh colored washable legs, composition hands. Cotton underwear trimmed with lace. Bisque head with moving eyes, open mouth showing teeth. Genuine mohair curly wig with side part. Measures 28 in. packed each in box. 14 00

N2581Z—SOLID DELICATE COLORED ORGANDY DRESSES—With match pockets White organdy colored collar and cuffs. Collar joined with black silk ribbon bow. Large picture hat of same materials trimmed with large bow and edged with ruffled organdy. Mesh underwear each in box. Cork stuffed with kidlyne flesh colored washable legs, composition hands. Cotton underwear trimmed with lace. Bisque head with moving eyes, open mouth showing teeth. Genuine mohair curly wig with side part. 16 80

N2581S—FANCY WHITE ORGANDY DRESS—With imitation vestee trimmed with lace. Cuffs, skirt and belt trimmed with lace and ribbon rosettes. Hat of same material trimmed with baby ribbon and rosettes and edged with lace. Cork stuffed with kidlyne flesh colored washable legs, composition hands. Cotton underwear trimmed with lace. Bisque head with moving eyes, open mouth showing teeth. Genuine mohair curly wig with side part. Measures 24 in., packed each in box. 16 80

Baby Doll With Short White Dress

Flossie Featherweight; Velvet Mask Face—Large Soft Cotton-Stuffed Body, Ma-Ma Voice

Each

N2581A—INFANT DOLLS—Dressed in white organdy short baby dress, collar, cuffs and skirt trimmed with fine lace. Bonnet of same material trimmed with baby ribbon and silk ribbon bow. Underwear of cotton material edged with lace. Bootees tied with silk baby cordribbon to match. Cork stuffed full jointed with kidlyne washable legs with composition hands. Bisque head with moving eyes, open mouth showing teeth. Genuine mohair wig with side part. Measures 14 in., packed each in box. 4 80

N2581S—DELICATE BLUE AND PINK ORGANDY DRESSES—With two tucks on skirt. Collar, and cuffs trimmed with lace. Nest bonnet of same materials trimmed with lace and joined with large bow. Cotton underwear with lace trimmed. Bootees trimmed with baby ribbon to match. Cork stuffed full jointed with kidlyne washable legs with composition hands. Bisque head with moving eyes, open mouth showing teeth. Baby mohair wig. Measures 16 in., packed each in a box. 4 80

N2581S—FLOSSIE FEATHERWEIGHT—Velvet mask face. Body stuffed with cotton. Rompers dress and hood of colored checked percale, shoes and stockings. Height 16 inches. 4 00

CHUBBY WALKING AND TALKING DOLLS

All With Ma-Ma Voice

Hard to Break Composition Head and Hands—Painted Hair and Eyes

Each

N2581S—Juvenile boy baby costume with Dutch collar and cuffs. Hem of blouse and trimmer of neat checked material, bonnet of same materials to match, joined with bow. Good quality body with kidlyne pink washable legs and removable shoes and stockings. Has distinct Mama Voice. Composition head with painted hair and features and composition hands. Measures 14 inches, packed ½ dozen in box. 3 00

N2581Z—Crossedbar checked dress with large dutch collar and cuffs, bonnet of same materials to match. Cotton underwear edged with lace. Rest of description same as N2581S. 3 80

N2581S—Apron dress with checked gingham dress. Collar and cuffs trimmed with lace. Apron of white lawn material trimmed with lace. Bonnet of same materials, lace trim with bow. Rest description same as N2581S, but measures 16½ inches, packed ½ dozen to box. 4 80

N2581S—Same as N2581S, height 16½ inches, packed each in box. 4 80

N2582C—16-inch walking and talking doll, that is when it is tipped forward says mamma and tipped backwards it cries—body stuffed with good cotton floss—very light weight, about 2 lbs.—washable head and hands—dressed in gingham romper with yoke—Dutch bonnet to match—removable patent leather shoes and stockings. 6 36

N2582O—Baby dress with lace trimming inserted with neat baby ribbon with bending on waist and sleeves. Tucks on skirt. Hem edged with broad lace. Collar also trimmed with lace. Fancy bonnet of same materials, trimmed with silk ribbon bow. Rest of description same as N2581S, but measures 22 inches, packed ½ dozen in box. 9 00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

STIMULATORS

ALL METAL DRUM

Exceptionally well made. This is exclusively our design—note the size and price.

F795—9¼ in., white enameled head, black hoops, heavy cord adjustment, with 2 smooth heads drum sticks, fit corrugated shipping carton. 3 doz. in carton.

Doz. 89c
Shipped Knocked

LITHO TOY TEA SET

Note price, size and number of pieces. An exceptional value.

F2823—14 pcs., red and white silhouette design, 3 cups 1¼ in. high, 3 saucers 3¾ in., 3 plates 4¾ in., 3 spoons 3¾ in., 1 sugar bowl 3¾ in., 1 cream pitcher 3¾ in., with covers, all decorated ware with full similar cover, embossed metal corners, very strong wood inside tray, every piece perfect, fine working model. Set, only $1.98
Doz. $23.76
1 in pkg.

"KNOCKOUT" BARGAIN No. 22

FAMOUS "SANDY ANDY JR." AUTOMATIC TOY

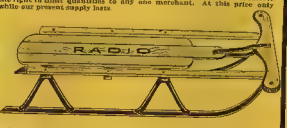
Our exclusive property, you cannot duplicate this value elsewhere.

F2904 11x 11 in., heavy wire frame, steel incline, hopper and car bright, tinplated toy in red and green lacquer. Can be given incline. It, as it and car with car of sand in box
2 doz. in carton.
Doz. $4.25

"KNOCKOUT" BARGAIN No. 23

32 IN. "RADIO" STEERING SLED

We have not skimped quality nor substituted inferior steel. We reserve the right to limit quantities to any one merchant. At this price only while our present supply lasts.



F4878—32x12x6 in., red painted steel knees and spring steel runners, selected ash bge varnished natural finish, black stenciled RADIO with red elastic finish, ½ dia. in bolt, 14 lbs.
Doz. $9.00

See Page 216B for More "Knockout" Bargains

DOUBLE 6 IMPORTED WOOD DOMINO SET

A dandy item for your 10 cent counter

F6301—1 in. ebony finish, white enamel compression dots, embossed back, each set in box. 1 doz. sets in pkg.
Doz. sets. 72c

CHECKER AND BACKGAMMON OUTFIT

Never before have we offered such a gigantic value in a checker board and you may be sure that no one else is offering a better board with stained checkers for so little.

F1746—15x10¼ in., strong wood frame, red & black varnished cardboard playing surface, printed backgammon inside with set of checkers in cardboard box. 1 doz. in pkg.
Doz. 95c

"MARATHON" STEEL WAGON

Made exclusively for us the regular jobbing price is at least $9.75

F160 (Size 2) 42x18 in., beaded sheet steel bodies 9 and 9 in. wheels, securely riveted rims, reinforced hubs, channel and grooved bottom boards, wooden cleats on bottom boards, heavy corrugated iron dumps, turned and bored front and rear gears, handle stop to prevent handle dropping below desired position, reinforced front gear with extra bracing, brass, 1 rear axle brass, natural hardwood finish with spoke and hub stripe, hubs, gears and wheels bright, black enameled finish bodies bright red gearing, green cleats, gold stencil on sides 1 set in cardboard carton 50 lbs.
Doz. $8.75

"ACE" JUVENILE AUTOMOBILE

American National make—nationally known for quality and workmanship. An unmatchable $2.00 retail value.

F7459 32x19 in. red body, yellow and black stripings, underbrace front axle, bumper, black enameled knuckle joint auto gear, gas and spark control, model motor, horn and wind machine, nickel plated radiator cap, 10 in. double spoke wheels, nickel plated hub caps, ½ in. rubber tires 1 in crate, 35 lbs.
Each. $3.75

THERE ARE HUNDREDS OF BARGAINS ON THE WHITE PAGES

2815—"Junior" Toy Egg Beater - - Doz. 89c SEE PAGE 219
2564—Toy Telephone - - - - - - Doz. $7.50 SEE PAGE 216
314—Woven Fiber Doll Carriage - - Each, 2.25 SEE PAGE 222

STIMULATORS

IMPORTED DOLLS

Popular priced imported dressed dolls will be scarce this fall. This value offers an opportunity for early Holiday advertising.

F8888—3 styles, 12 in. bending eyes colored lawn and gingham fabric dresses, hats and bright trim, colors assrd and lawn hats to match; bent knee, jtd arms, wig head. Asstd ½ doz in pkg.
Doz. **$4.00**

COLLAPSIBLE GILT METAL DOLL BED

The first time in years that this bed has been offered at such a low price.

F3882—12½x6x8½ in. flowered mattress and full width lace trim pillow makes attractive bed, easily set up or collapsed; asstd ½ doz in box. Ea 4
Doz. **$2.25**

SEMI COLLAPSIBLE DOLL GO-CART

10 cents larger—the reader jobbing price is $5.00 to $5.25 per doz. Just look at our price.

F272—Ht. 21 in., steel frame, 12½x6½, 6 in. single spoke steel wheels, semi collapsible 6x7½ auto top, continuous steel pusher handle, open frame and wheels black enameled ½ doz. in carton. 15 lbs.
Doz. **$4.50**

"KNOCKOUT" BARGAIN No. 24

LITHO MECHANICAL YELLOW TAXI

A regular 25c seller at a possible ten center. This is the mechanical toy bargain of the year. We have one last order to offer at this price.

F2284—7x3½x4½ in. yellow enamel body and roof, black top, rubber and hand, bronzed disc wheels, litho chauffeur and passenger, long action spring. 1 doz. in box
Doz. **89c**

"KNOCKOUT" BARGAIN No. 25

AMERICAN MADE DRESSED BABY DOLL With Crying Voice

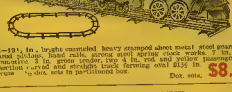
Without a doubt the biggest value on the market. "Effanbee" make—you can't buy these direct from the manufacturer at this price. Each doll with tube.

F7543 Composition breast plate head and two-tone bisk finish, colored features, painted hair, soft stuffed bodies loosely jointed, arms swing, wearing white, yellow, pink and blue organdie dresses lace trim collar and sleeves, contrasting ruffle on skirt, colored bloomers, lace trim bonnet to match, white stockings, black patent leatherette slippers, each in box
½ doz. in pkg
Doz. **$10.80**

See Page 304A for more "Knockout" Bargains

"HUMMER" MECHANICAL TRAIN

Manufactured by the American Flyer Co. Our price is lower than you will find anywhere else.



F8815—19½ in. bright enameled heavy stamped sheet metal steel gears, steel geared pinions, hand rails, strong spot spring clock works 7 in. black locomotive 3 in. green tender, top 4 in. red and yellow passenger cars, 6 section curved and straight track forming oval 25½ in. circle ½ doz. sets in partitioned box
Doz. sets **$8.00**

IRON TOY ASSORTMENT

Here is the market's best value in iron toys. You will want them to meet chain store competition.

F3070 6 styles, aver 6 in. to assure fine engine, hook & ladder, race, locomotive and tender, passenger car, bright painted. Asstd 1 doz in box
Doz. **92c**

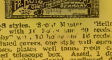
"KRYING KEWPIE" DOLL BALLOON

The latest and biggest selling novelty of the season.

F1882 Clear heavy rubber balloon to 11 in., extra tinted features, heavy white cord, bound arms legs and ears, tinted wood stem, horn and nose, each in printed envelope. 1 doz. in box
Doz. **87c** Grs. **$10.00**

BIG VALUE IMPORTED HARMONICA ASSORTMENT

"First quality merchandise made at one of the best European factories.



F8407 8 styles, 2 to 7 holes, "Hello Central" with 11 reeds, 3 to 10 reeds, "Baby Jessica" 10 to 20 reeds, 10 reeds, "Lucky Lindy" 10 reeds, "Ronson" 10 reeds, "Deribbon" 10 reeds, all with nickel plated covers, well tuned, each in gusset telescope box. Asstd. 1 doz. in shaded white glazed cardboard display box
Doz. **84c** Grs. **$9.50**

"CLIPPER" RUBBER TIRE VELOCIPEDES

Distributed Exclusively by Butler Brothers

First quality merchandise—not an overstock at a sacrifice. Values such as these show that we are the country's largest distributors of wheel goods.

F168—4 velocipedes, heavy half oval black enameled steel frames, heavy red enameled steel wire wheels with 1¼ in. front and 1½ in. rear rubber tires, 4 point independent ball bearing hubs, nickel plated hubcaps, adjustable saddle, strong wood grips, nickeled steel handle and pedals. Asstd as follows: One Mfrs OK 14 and 16 in. wheels, cut-out children's seat. Two Mfrs 12, 16 and 18 in. wheels, 3 to 7 yrs size. One Mfrs 16, 18 and 14 in. wheels, 5 to 9 yrs size. One Mfrs 18, 20 and 14 in. wheels, 7 to 12 yrs size. 1 each of 4 in crate.
ASST (4 pcs)
$9.00

THERE ARE HUNDREDS OF BARGAINS ON THE WHITE PAGES

F3501—"Schoenhut" Toy Piano - - - Doz. $4.50 SEE PAGE 247

F2655—"Ronson" Automatic Toy Pistol - Doz. 2.00 SEE PAGE 249

F2324—"Baby Jeanette" Toy Phonograph Doz. $21.00 SEE PAGE 254

Where's the crank?

Hot times are coming !Get in a stock from your jobber.

There isn't any!

If you've ever labored with an old-fashioned ice-cream freezer, you'll realize how salable the Auto Vacuum Freezer is!

The name means what it says. "Auto" is short for Automatic. "Vacuum" means a sealed insulation space which surrounds the ice compartment, retaining all the freezing effect.

In 45 minutes delightfully smooth ice cream is made—*without cranking!*

Auto Vacuum Freezer Company, Inc.

220 West 42nd Street New York City, N. Y.

Three Factories Main Office: Toledo, O.

The American-National Company

Makers of world's largest, most complete Line of Juvenile Autos

Let this American Juvenile Auto Help You

Cash in on our year 'round National Advertising Campaign. This handsome vehicle, No. 552-E. L., is featured. It is an original, distinctive "American" model; has real electric head, tail, spot lights, Jarnot springs, wind shield, fenders, gas tank, spare wheel. Brings in the kiddies.

The American Line Beautiful. THE AMERICAN LINE

Built—not made

Known 'Round the World Nationally Advertised

Includes
Steel Wagons
Coaster Wagons
Express Wagons
Doll Vehicles
Baby Vehicles
Juvenile Bicycles
Hand Cars
Velocipedes
Girls' Tricycles

"See American Line First" Sells Itself

Say you saw it in GOOD HARDWARE

This Red Devil Easel Board Will Boost Your Tool Sales

YOU can interest every mechanic, electrician, motorist and householder with this unusual display. Feature it prominently in your window or show case and watch your sales go up. *No selling expense—requires no attention.*

Each board contains nine pliers neatly mounted, with prices plainly indicated—balance of fifteen pliers are shipped loose and are for your stock. *You carry a complete stock of pliers without overstocking yourself.*

Send for circular and trade prices

SMITH & HEMENWAY CO., Inc.

Manufacturers of "Red Devil" Tools **251 BROADWAY, NEW YORK**

Keeps Your Dollars Turning

A million homes already use the Comfort Iron a million more are ready to buy. It's a time-proved, sure-fire seller! Stock it!

More families than ever before are doing their own washing and ironing "Comfort" sales are increasing daily

The price is right. You get a good profit

Comfort Irons save miles of steps, cost less to operate and heat as they iron.

Warm days—time for quick sales—draw near. Get our introductory offer. Electrotypes free. We pay for first ad in your local paper.

Ask your jobber.

NATIONAL STAMPING and ELECTRIC WORKS
Chicago, Ill.

Heats Itself Sells Itself

Heats While It Irons

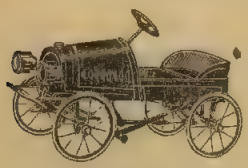
"COMFORT" Self-Heating IRON

JUVENILE AUTOMOBILES

Ace

Red enameled rubber tired wheels. Body bright red, yellow striped. Knuckle joint gear, black enameled; gas and spark control; no bumper; lamps extra.

NO.	Size Wheels	Size Body	Wt. Each	EACH
508	10x$\frac{3}{4}$ in.	12x30 in.	30 lb.	$12.50



Stutz

Red enameled rubber tired wheels, nickeled hub caps. Body green, yellow striped; radiator front yellow; knuckle joint gear; gas and spark control; American screecher signal; 3 speed gear shift; bumper. Lamps extra.

NO.	Size Wheels	Size Body	Wt. Each	EACH
512	10x$\frac{3}{4}$ in.	12x30 in.	35 lb.	$14.00

Buick

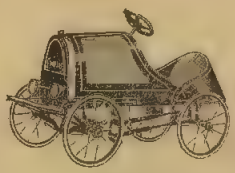
Rubber tired, nickeled hub, wheels red enameled. Body yellow, green striped; radiator front red; knuckle joint gear; gas and spark control; speed gear shift; American screecher signal; bumper. Lamps extra.

NO.	Size Wheels	Size Body	Wt. Each	EACH
519	10x$\frac{3}{4}$ in.	13x41 in.	45 lb.	$15.00

Buster

Wheels, red enameled, nickeled hub caps, rubber tired. Body blue with red stripes; radiator front yellow; knuckle joint gear, underslung front axle; gas and spark control; motormeter, red and white marker; 3 speed clutch; American screecher signal; bumpers; lamps.

NO.	Size Wheels	Size Body	Wt. Each	EACH
522	12x$\frac{3}{4}$ in.	13x34 in.	37 lb.	$17.00



Empire

Red enameled, nickeled hub, rubber tired wheels. Body brown with yellow panels and stripes; radiator front yellow; knuckle joint gear; Jar-Not rear spring; 3 speed gear shift; gas and spark control; American screecher signal; lamps.

NO.	Size Wheels	Size Body	Wt. Each	EACH
528	12x$\frac{3}{4}$ in.	12x40 in.	42 lb.	$19.50

Banner

Roller bearing, red enameled, nickeled hub caps, rubber tired wheels. Body beautiful red with yellow stripes; radiator front yellow; knuckle joint gear, underslung front axle; gas and spark control; 3 speed gear shift; motormeter with red and white marker; screecher signal; bumper; lamps.

NO.	Size Wheels	Size Body	Wt. Each	EACH
542	12x$\frac{3}{4}$ in.	13x42 in.	60 lb.	$25.00

JUVENILE AUTOMOBILES AND HANDCARS

JUVENILE AUTOMOBILES

Fiat

Artillery wood wheels, nickeled hub caps, roller bearing, red enameled. Body silver, light blue panels on hood; radiator front, blue; knuckle joint gear, wood rim steering wheel; gas and spark control; 3 speed gear shift; spare wheel on rear; nickel plated form fitting windshield; adjustable spotlight with nickeled reflector; moto-meter with red and white marker; Jar-Not rear spring; lamps.

NO.	Size Wheels	Size Body	Wt. Each	EACH
544	12x$\frac{3}{4}$ in.	13x41 in.	55 lb.	$33.50

Recruit

Pneumatic non-skid roller bearing, rubber tired wheels, red enameled, hub caps nickeled. Body gray frame, hood blue; wood rim steering wheel; gas tank; moto-meter; knuckle joint gear; gas and spark control; 3 speed gear shift; screecher signal; lamps; bumper

NO.	Size Wheels	Size Body	Wt. Each	EACH
560	12x1$\frac{3}{4}$ in.	13x39 in.	45 lb.	$35.00

Mascot

Wheels, nickeled hub caps, rubber tired, red enameled. Body beautiful shade of brown, stripes blue; stationary leather cloth top; knuckle joint gear; underslung front axle; gas and spark control; moto-meter; 3 speed gear shift; screecher signal; lamps; bumper.

NO.	Size Wheels	Size Body	Wt. Each	EACH
525	10x$\frac{3}{4}$ in.	12x35 in.	38 lb.	$22 50

HAND CARS

Steel gears, heavy axles, cog drive, hub caps nickeled; steel frame and gears, black enameled. A handsome line of durable cars.

Junior

Seat 14x7 in.; finish, red, gold bronze decorations; frame 27 inches long; wheels 6 and 10 inches, red enameled. $\frac{3}{4}$ inch tires.

NO.	In Crate	Wt. Crated	EACH
472	1-6 doz	45 lb	$7.50

Traveller

Seat 7$\frac{1}{2}$x16 in.; finish, red, gold bronze decorations; frame 31 in. long; wheels 8 and 12 in., red enameled, $\frac{3}{4}$ in. tires.

NO.	In Crate	Wt. Crated	EACH
478	1-6 doz	55 lb	$10 50

Scout

Seat 8x20 in.; finish, yellow with red stripes; frame 36 in. long; wheels 10 and 14 in., roller bearing, yellow enameled, $\frac{3}{4}$ in. rubber tires.

NO.	In Crate	Wt Crated	EACH
477	1-6 doz.	70 lb.	$15 50

TOY STEEL WHEELBARROWS

Red painted, sheet steel bodies selected hardwood handles, with rounded grips heavy steel spoke wheels

Don't Wait!
The Time is Short!

If you write your order for Holiday Goods today you are sure to have it filled practically complete. If you wait we may be out of certain popular sellers. In either event it is wise to specify "SEND THE NEAREST LIKE IT."

Don't Wait—Order Today

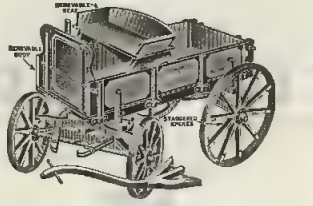
F21—Garden barrow 29½ in. long, 9x15 in. body stenciled and varnished, 5 in. double spoke wheels, blank tripod handles, ½ in. tires. Capacity 50 lbs. Doz. **$8.50**

WOOD CARTS—Long Wood Handles

F40—Box cart, 9x5 in. painted red and stenciled cart, wood body, 6 in. wood wheels, tin tires. 2 doz. in crate, 25 lbs. (Total $3.84) Doz. **$1.72**

F39—Hay cart, 13½x7 in. red stained wood body 3 slat open sides 6 in. wood spoke wheels, tin tires 2 doz. in crate 25 lbs. (Total $3.90) Doz. **$1.85**

MINIATURE WOOD FARM WAGON



STAR VALUE

F47—Body 18x36 in., hardwood frame, seat and dashboard, removable ornamented sides and ends, wheels 14 and 20 in. heavy welded tires, rail on body, iron hub caps and bands, strongly ironed and braced, 5/8 in. round steel axles, heavy handle. 1 in crate 57 lbs.
Each **$7.75**

"OVERLAND" SCOOTER

F221—Green enameled 29x42 in. over all, platform 11x12 in. steel frame, red gum wood cross handle, natural varnished hardwood platform, 8 in. cushion spoke wheels, ½ in. rubber tires. 2 in carton, 11 lbs. Each **$1.98**
(Trade $3.00)

"DAN PATCH" HORSE HAND CAR

F219—24 in. high, extreme length 24 in., black enameled wood horse, red seat, brown and red painted features, white mane, fair tail and mane leather ears, black enameled steel rear axle frame and 8 in. cushion spoke wheels, ½ in. rubber tires. Has foot rest for steering, operated by drawing head backward and forward. 1 in carton, 17 lbs.
Each, **$4.75**

JUVENILE AUTOMOBILES

We are the biggest dealers of wheel goods in America and we make our bigness count — in low prices and in extra equipment

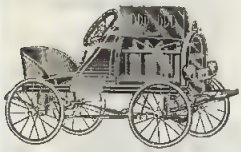
Black enameled knuckle joint auto gear, gas and spark control, motor meters with red & white markers, nickel plated radiator caps, Finished in high grade enamels and best varnishes.

All "American National" except F272

F440—"Ace," 30x12 red body yellow and black stripings, underslung front axle, tongue 10 in. double spoke wheels, nickel plated hub caps, ½ in. rubber tires. 1 in crate, 35 lbs.
Each **$4.50**

F272—46x18, orange enameled body, black trim, large tool box at rear, adjustable metal windshield, starting crank, 10 and 14 in. double spoke wheels, ½ in. rubber tires. 1 in crate, 48 lb.
Each, **$6.25**

F453—"Buick," 40x13 chrome yellow body, green stripings, underslung front axle, adjustable gear shift, instrument board, screecher signal, road lamps, nickel plated hub caps, 10 in. double spoke wheels, ½ in. rubber tires. 1 in crate, 50 lbs.
Each, **$7.50**

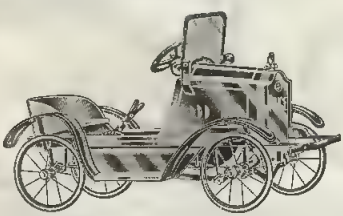


F480—"Winton," 37x13 blue body, yellow striping, underslung front axle, composition steering wheel with hand grips, screecher signal, instrument board, gear shift operating reverse and "STOP," metal road arms, tar pot rear springs, hood with 4 fantastic cylinder motor in, spark plugs and wired distributor, bumper, 14 in. red double spoke wheels, ½ in. rubber tires, nickel plated hub caps. 1 in crate, 60 lbs.
Each, **$10.95**

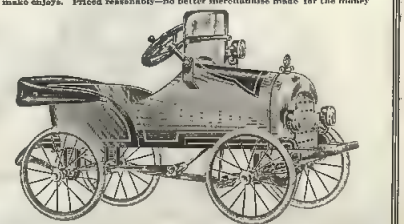
F444—"Mogul," 42x13 red body, black parts, yellow stripes, underslung front axle, composition steering wheel with hand grips, screecher signal, instrument board, padded leather cloth seat, gas tank, road lamps and rear light, gilt stripe fenders with running board, gear shift operating reverse and "STOP" signal, bumper, pinion, 3 stud radiator, front license tag, 14 in. roller bearing wood spoke wheels, yellow striping, ½ in. rubber tires, nickel plated hub caps. 1 in crate, 75 lbs.
Each, **$12.50**

"American National" Juvenile Autos

Two particularly attractive models embodying the distinctive features which this make enjoys. Priced reasonably—no better merchandise made for the money



F455—"Paige," 38½x18 body, red seat and frame, yellow striped blue hood, underslung front axle, form fitting adjustable windshield, screecher signal, bumper, gilt stripe beaded fenders with running board, 10 in. double spoke wheels, ½ in. rubber tires, nickel plated hub caps. 1 in crate, 60 lbs.
Each, **$8.75**



F462—"Hudson," 37x13 body, cadillac brown with black panel and yellow striping, underslung front axle, compositon steering wheel with hand grips, screecher signal, road lamps, adjustable seat cush., instrument board, gear shift operating reverse and "STOP" signal, tar pot rear springs, ornamental cowl, adjustable form fitting nickel plated 2 piece windshield, bumper, nickel plated radiator, front license tag, self-sealing roller bearings in rear axle brackets, 13 in. double spoke red wheels, ½ in. rubber tires, nickel plated hub caps. 1 in crate, 85 lbs.
Each, **$12.00**

GENUINE "KIDDIE-KARS"

The most successful "small child's" toy ever produced and there is still a keen demand. An outdoor and indoor toy, nationally advertised and everywhere known.

STAR VALUE

Clear yellow pine three ghout well varnished, "T" steering handle on front wheel, put together with screws, shaped seat for padding or coasting easily set up Each wrapped.

F3770-71

Disc Wheel "Special"—Red enamel double disc wheels, rubber tires, roller bearings, baked red enamelled seat and old ivory frame and handle

	Mos.	Length	Ht. to seat	Wheels	Tires	In Carton	Wt.		
F3770—102	18 to 36	37 in.	20½ in.	8¼ in	½ in.	Any quantity	6½ lbs.	Doz.	$24.45
F3771—103	18 "	10 "		5¼ "	¾ "	"	7 "	"	30.60

VELOCIPEDES

As popular with and as much used by the girls as the boys

"CLIPPER" VELOCIPEDES

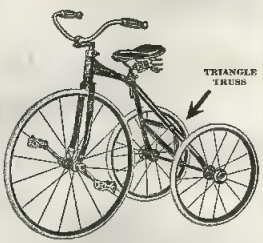
Distributed exclusively by Butler Brothers

Steel Tires—Heavy half oval black enameled steel frame, heavy red enameled steel wire wheels, 1 piece fork with adjustable catch, improved adjustable saddle, double coil springs, stationary handle bars, stained wood grips, stamped steel head and pedals. 3 in crate.

	Mos.	Wheels	Size	Wt.	Each
F155—0	14 and 9 in.		Small children	40 lbs.	$1.35
F156—3	24 "	16 "	7 " 11 "	68 "	2.50
F157—Assid. one F153, two F154 and one F155, as shown above. Assid. 4 in crate. 60 lbs.				ASST. (4 pcs.)	$7.50

Rubber Tires—Heavy half oval black enameled steel frame, heavy red enameled steel wire wheels with ½ in. front and ¾ in. rear rubber tires, 1 piece fork with adjustable catch, improved adjustable saddle, double coil springs, stationary handle bars, stained wood grips, stamped steel head and pedals.

	Mos.	Wheels	Size	Crate	Wt.	Each
F167—0R	14 and 9 in.		Small children	3	47 lbs	$2.50
F163—1R	16 "	12 "	3 to 7 yrs.	3	50 "	2.80
F164—2R	20 "	14 "	5 " 9 "	3	62 "	3.10
F165—3R	24 "	16 "	7 " 11 "	3	49 "	3.40
F166—Assid. one F167, two F163 and one F164, as shown above. Assid. 4 in crate.					ASST. (4 pcs.)	$10.60



Rubber Tires, "Triangle Truss Special"—Heavy half oval red enameled frame and striped steel wire wheels, ⅝ in rubber tires nickel plated hub caps, triangle truss frame, wide axles, full nickel plated adjustable Chicago type handle bars, motor bike grips, bicycle heads, double coil nickel plated shroud, padded bicycle saddle. 1 in crate.

	Wheels	Size	Wt.	Each
F140—Mfrs.	11 16 and 12 in.	3 to 3 yrs.	80 lbs..	$5.90
F141— "	12 20 "	14 " 5 " 8 "	88 "	6.60
F142— "	13 24 "	16 " 6 " 7 "	40 "	7.50

"Sampson" Ball-Bearing Velocipedes

Strongly made and attractively finished

Maroon enameled, gold striped, half oval square truss steel frame, ball bearing wheels with maroon enameled wire spokes, ¾ in. rubber tires, nickel plated hub caps and mud guard on front wheel, padded leather saddle with nickel plated double coil springs, adjustable nickel plated handle bars with forward extension and rubber grips, nickel plated rat trap pedals, drop forged crank and bicycle bolt. 1 in crate.

F175—Wheels 16 and 12 in. size 2 to 3 yrs. 1 in crate. 35 lbs. Each,	$9.00	F177—Wheels 24 and 16 in., size 5 to 7 yrs. 1 in crate. 45 lbs. Each,	$10.50
F176—Wheels 20 and 14 in., size 3 to 5 yrs. 1 in crate. 37 lbs. Each	$9.90		

"BALL-BEARING" VELOCIPEDES

Carmine enameled, tubular frame fork and rim, gold striping, arched fork crown, all joints hand brazed, ball-bearing wheels bicycle spokes and nipples, 1 in. cushion rubber tires, padded bicycle saddle, drop forged crank, adjustable handle bar with forward extension rubber motor bike grips, solid rubber pedals. 1 in crate.

	Wheels	Size	Wt.	Each
F193	16 and 10 in.	2 to 3 yrs.	35 lbs	* $9.00
F194—20	" 14 "	3 " 5 "	48 "	*$11.00
F195—24	" 16 "	5 " 7 "	48 "	*$13.00

A BIG SUCCESS

That's what most merchants say when they wind up one of our whirlwind sale plans. Ask our Customers' Service Department about them.

JUVENILE AUTOMOBILES

We are the biggest dealers of wheel goods in America and we make our bigness count — in low prices and in extra equipment

Black enameled knuckle joint auto gear, gas and spark control, motor meters with red & white markers, nickel plated radiator caps. Finished in high grade enamels and best varnishes.

F447—"Star," 30-x-10½, chrome yellow body, red front and tank, bumper 6 in double spoke wheels, nickel plated hub caps ⅝ in rubber tires. 1 in crate, 70 lbs.
Each, **$4.80**

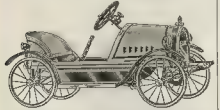
F449—"Arc," 28x12 red body yellow and black stripings underspring front axle, bumper, 10 in. double spoke wheels, nickel plated hub caps ⅝ in rubber tires. 1 in crate, 80 lbs.
Each, **$3.75**

F453—"King," 30x15 orange body, green striping, bumper windshield, 10 in double spoke wheels nickel plated hub caps ⅝ in rubber tires. 1 in crate, 38 lbs.
Each **$6.00**

F452—"Bellaire," 27x13 body red seat and frame yellow striping, black hood underspring front axle, adjustable gear shift tool box, screwdriver apron, instrument board, bumper rear frame, Lenox tag 10 in double spoke red wheels, nickel plated hub caps ⅝ in rubber tires. 1 in crate 12 lbs.
Each, **$6.50**

F455—"Buick," 40x13 chrome yellow body, green stripings, 2 seated, tufted leather seats, underspring front axle, adjustable gear shift, instrument board, screwdriver, signal, rear lamps, nickel plated hub caps, 10 in double spoke wheels, ⅝ in rubber tires. 1 in crate 50 lbs.
Each, **$6.95**

F454—"Neptune," 40x13, 2 seated, orange body, green striping, black beaded seats, wood steering wheel, rear step, 10 in double spoke black wheels, nickel plated hub caps, ⅝ in rubber tires. 1 in crate, 53 lbs.
Each, **$8.50**



F458—"National," 41x19 red body yellow stripes, under spring front axle, compensation steering wheel, screwdriver signal instrument board, bumper rear frame, tan, rear light, gear shift, front, combination tag, silk striped beaded fenders, running board, 15 in double spoke red wheels, nickel plated hub caps, ⅝ in rubber tires. 1 in crate, 70 lbs.
Each, **$9.00**

F466—"Yost," 37x13 red body, black and yellow striping, underspring front axle, compensation steering wheel with hand grips, screwdriver signal instrument board, gear shift, combination, acetylene tail and STOP signal, metal hood lamps, adjustable spot light, leather, pleated adjustable windshield with side wings, windshield wiper, gilt stripe beaded sport fenders with leather flap on front and step on rear, bumper front frames tag "Joe Nott" rear springs, self contained roller bearings on rear axle brackets, 11 in roller bearing red disc steel wheels, yellow stripes, nickel plated hub caps, ⅝ in rubber tires. 1 in crate, 75 lbs.
Each **$16.75**

F459—"Speedey," 36x13 red body yellow panel blue stripe underspring seat gasoline tank, bumper, front hamps 10 in roller bearing red disc steel wheels, front wheels ⅝ in rubber tires. 1 in crate, 70 lbs.
Each, **$10.50**

F468—"Packard," 45½x13 tan body brown stripings and fenders, underspring front axle, compensation steering wheels with hand grips, gear shift operating, 2 seats in, and "STOP" signal, screwdriver signal, metal hood lamps and side lights, adjustable spot light, seat, leather cloth top, nickel plated, automatic windshield with side wings, rubber windshield wiper, open side door, luggage compartment in rear, bumper front frame tag "Joe Nott" springs on front axle, rear axles, self contained roller bearings on rear axle brackets, running board, Acetylene **Lubricating System, Grease Gun and Can of Grease.** 15 in. double spoke red wheels, nickel plated hub caps ⅝ in. rubber tires. 1 in crate 90 lbs. . . . . Each, **$15.00**

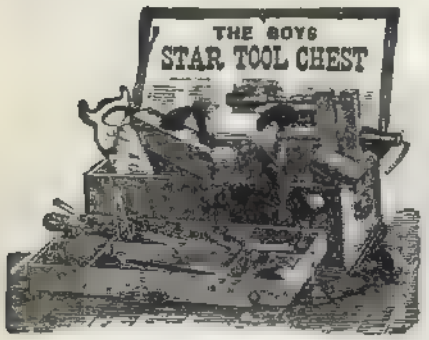
"AMERICAN NATIONAL" JUVENILE AUTOS

Two particularly attractive models embodying the distinctive features which this make enjoys. Priced reasonably—no better merchandise made for the money

F455 "Fisher," 36x13 body, red seat and frame, yellow striped blue hood underspring front axle, lens stripe adjacent to windshield 2 screwdriver signal bumper, side stripe beaded fenders, with running board, 10 in steel to match wheels, ⅝ in rubber tires, nickel plated hub caps. 1 in crate 60 lbs.
Each, **$8.75**

F462 "Hudson," 37x13 body, cadillac brown with black panel and yellow striping, underspring front axle, screwdriver steering wheel, with hand grips, screwdriver signal, road lamps, adjustable spot light, instrument board gear shift operating forward and "STOP" signal, bar rear springs, automatic cloth top, adjustable lens fitting nickel plated 2 pieces windshield, bumper rubber, pilcon cushion front, bumper tag self contained roller bearings in rear axle brackets, 12 in double spoke red wheels, ⅝ in rubber tires, nickel plated hub caps. 1 in crate, 80 lbs.
Each **$12.00**

TOOL CHESTS



Chestnut Box, Heavy Brown Moulding.

No. 45—Size 9½×4½×2⅞ in., hinged cover, locked corners, well finished, containing about 8 tools, w't per doz. 17½ lbs. .....per dozen $10.80

No. 60—Size 11×5×3⅝ in., with till, hinged cover, containing about 11 tools, w't per doz. 40 lbs., per dozen $19.80

No. 90—Size 12⅝×6×4½ in., with tray, locked corners, containing about 13 tools, w't per doz. 62½ lbs., per dozen $28.80

No. 600—Size 14½×6⅝×4¾ in., with tray containing about 16 tools, w't per doz. 90 lbs. .....per dozen $36.00

No. 700—Size 15½×7⅛×5⅜ in., with tray, containing about 16 tools, w't per doz. 105 lbs. .....per dozen $50.40

No. 725—Size 16½×7⅞×6 in., with tray, polished hammer, large level, brace and bit, containing about 16 tools, w't per doz. 110 lbs., per dozen $57.60

No. 750—Size 17×8×6 in., with tray, bronze handles, containing about 24 tools, w't per doz. 125 lbs., per dozen $72.00

No. 800—Size 18×8½×6⅜ in., with tray, bronze handles, containing about 28 tools, w't per doz. 140 lbs., per dozen $93.60

NO. 45B, SIX DOZEN; NO. 60B, THREE DOZEN; NO. 90B, TWO DOZEN; BALANCE, ONE DOZEN IN A CRATE.

ALL SIZES GIVEN ARE INSIDE MEASURES

TOY SAVINGS BANKS

No. 100—American Penny, registers and adds pennies only; opens automatically when $1.00 has been registered; "Ech Kraft" finish case, the same as that used on American Dime Bank; size 3⅜ in. high, 3⅜ in. deep and 3½ in. wide; packed in individual folding carton, w't per doz. 7 lbs., per dozen $18.00

No. 200—American Dime, registers and adds dimes only; opens automatically when $10.00 has been registered: "Ech-Kraft" finish case of a beautiful colored design, combined with an etched brass effect; size 3¾ in. high, 3¾ in. deep and 3¾ in. wide; packed in individual folding carton, w't per doz. 7 lbs., per dozen $18.00

No. 550—Security, five-coin, registers pennies, nickels, dimes, quarters and halves, case is "Ech-Kraft," a finish combining beautiful color effects with an actual brass finish, opens automatically when $10.00 is registerd, size 7⅛×7⅛×5½ in., w't per doz. 5⅝ lbs. .....per dozen $72.00

ALL ABOVE, ONE IN A BOX

TOY SAVINGS BANKS

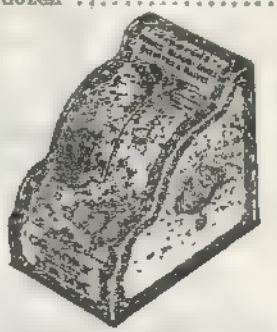
Works like cash register with lever adding value of each coin deposited and registers total upon a dial on front of bank.

No. 300—Commonwealth, three-coin, registers nickels, dimes and quarters accurately through same slot, opens automatically when $10.00 is registered, artistically lithographed in colors, all parts of extra strong steel, 5⅛×5½×4 in., w't per doz. 31 lbs., per dozen $36.00

ONE IN A BOX

The nickels, dimes and quarters register as soon as lever is pulled down, but pennies do not register until the fifth has been deposited.

No. 400—Provident, four-coin, registers and adds pennies, nickels, dimes and quarters in most unique way through same slot, opens automatically when $10.00 is registered, attractive case, lithographed in red, black and gold, all parts steel, 5⅛×4⅛×4⅜ in., w't per doz. 30 lbs., per dozen $45.00



No. 500—Home Savings, five-coin, registers and adds pennies, nickels, dimes, quarters and halves, when $10.00 is registered door opens automatically, lithographed case in oxidized copper and gold, all parts of steel, 6⅜×7×4⅜ in., w't per doz. 49 lbs. .....per dozen $63.00

ALL ABOVE, ONE IN A BOX

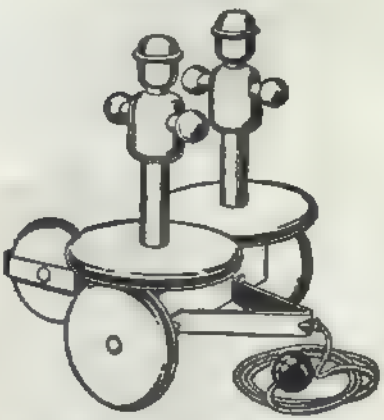
MISS TILLIE TINKER

Miss Tilly Tinker is destined to become one of the world's favorites in public life. No lady made of wood has ever been able to perform the wonderful feats accomplished by this fascinating beauty. She dances untiringly upon her toe at the top of a slender pole. She whirls and bows, forward, sideways and backward, cuts figure eights, and leans over so far, that at times it seems as if she would surely fall, but always rights herself with perfect safety. Miss Tilly's beauty, color and motion will win her way into the hearts and homes of every family in the land, and bring delight to childhood.

No. 27—Height 17½ in., w't per doz. 15 lbs., per dozen *$9.00*

ONE IN A BOX; ONE DOZEN IN A CASE

WHIRLEY TINKER

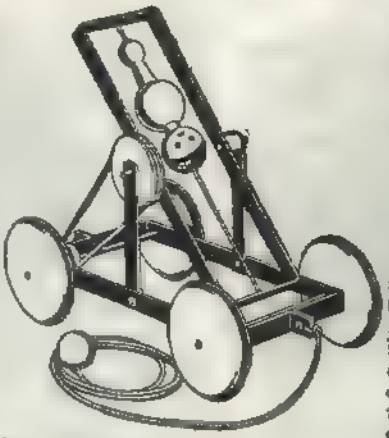


Color and action never fail to hold the child interest. The simple act of pulling this toy by the string sets two little men dancing merrily like tireless dervishes, round and round, fast or slow in never ending spins to the astonishment of all juvenile onlookers and the great delight of the operator. Whirly Tinker naturally compels attention. Made of hard wood, highly colored and polished, with rust-proof metal trimmings.

No. 33—W't per doz. 16 lbs. .....per dozen *$15.00*

ONE IN A BOX; ONE DOZEN IN A CARTON

TUMBLE TINKER



This little acrobat does a feature diving act in a revolving trapeze. He works fast, is very amusing and will continue as long as the carriage is drawn, unless of course, one wishes to let him rest, in which event the belt on the pulley is slipped aside, when he simply rides along, quietly awaiting his call for the next performance. Made of metal and hardwood, highly colored and polished. A decidedly attractive plaything for both boys and girls.

No. 34—W't per doz. 16 lbs. .....per dozen *$15.00*

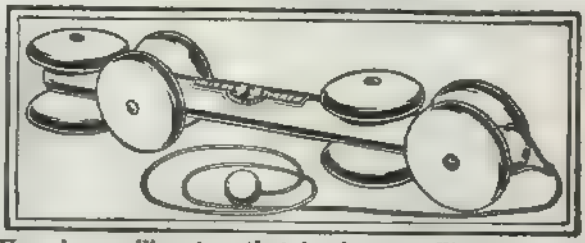
ONE IN A BOX; ONE DOZEN IN A CARTON

TURTLE TINKER

The best balanced and easiest rolling pull toy ever invented. Rides on either side and turns turtle when taking corners. Cannot drag, it always rides right side up. Solid wood body ball, head and wheels, frame of metal, all nicely finished.

No. 39—Size 8 in., w't per doz. 11 lbs. ..per dozen *$12.00*

FOLLO-ME TINKER



Here is a rolling toy, that is always rolling; in fact, it can't possibly do anything else, for all sides are on wheels and no matter how roughly treated or thrown about it is sure to land right side up. Follo-Me-Tinker provides rest and comfort for nurse and mother, as well as continuous amusement and entertainment for the child. Made of hardwood, beautifully finished in attractive colors; cord and ball included.

No. 32—Size 3x3x15 in., w't per doz. 13 lbs., per dozen *$12.00*

ONE DOZEN IN A CARTON

TROUT BASKETS

BEST SPLIT WILLOW WITH LEATHER LOCK CLASP

Nos.	13	14
Capacity, lbs.	20	24
W't, doz. lbs.	15	20
Width, in.	13	14
Per dozen	$44.50	48.00

WHOLE WILLOW BASKETS WITH LEATHER LOCK CLASP

Nos.	1	3
Capacity, lbs.	9	20
W't, doz. lbs.	8	15
Width, in.	11	13
Per dozen	$27.00	31.30

LEATHER ROUND

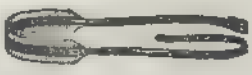
Made of round willow, with leather hinges, strong leather handle and metal locks. The grade must not be confused with split willow baskets frequently offered where price is the only consideration.

Nos.	21	22	23
Capacity, lbs.	9	16	20
Length, in.	12	13	13½
Width, in.	5	5½	6
W't per doz., lbs.	13½	15	18
Per dozen	$89.70	99.70	108.30

WRAPPED INDIVIDUALLY

BASKET STRAPS

No. 10.



No. 8.

No. 10—4 in. web shoulder piece, ⅝ in. leather straps with nickel trimmings .....per dozen **$6 00**

No. 8—1¾ in. webbing over shoulder, ⅝ in. leather straps, nickel buckles, per dozen **$5.70**

REFRIGERATOR BASKETS

HAWKEYE, rattan, metal lined with layer of asbestos and felt between, ice compartment at one end which is easily removed, lid made same as body of basket, heavy felt being piped all around the edges making it air tight when straps are fastened, lining is rustproof, top and handles polished.

Nos.	41	42
Size, in.	18x10x8	20x13x10
W't per doz., lbs.	108	120
Each	$12.90	19.20

ANCHORS

Used for trolley fishing, anchoring small boats when hunting or fishing, also for anchoring decoys. Throwing out anchor opens it automatically. To haul in, pull line tight and let go at once. This will loosen anchor and close it up so it can be hauled in easily. Can be carried in pocket or in tackle box.

No. 347—Automatic, w't per doz. 10½ lbs. .....per dozen **$5.10**

ONE DOZEN IN A CARDBOARD BOX

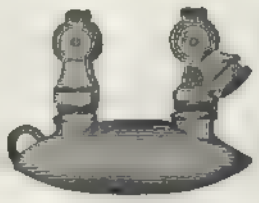
TROLLEY SINKERS

Lead with brass trolley wheels and loops, without line.

No. 345—Single trolley, w't 6 oz., per dozen **$2.70**

No. 346—Double trolley, w't 6½ oz., per dozen **$4.00**

THIRD DOZEN IN A BOX



No. 344—Double trolley, can be opened by pushing arm out, brass fork and pulleys, w't per doz. 5½ lbs., per dozen **$6.00**

The latest and best trolley made, the middle pulley catches line below when pulling up, thus preventing line from cutting in corner of fork and saving the line.

No. 349—Triple trolley, can be opened by pushing lever to one side, three brass pulleys, w't per doz. 7½ lbs., per dozen **$7.80**

ONE DOZEN IN A BOX

SPECIAL ROUND FLOATING BUCKETS

I. X. tin bucket; no cover; inset is made of galvanized wire; solid at bottom to hold enough water to transfer; hinged, perforated, self-locking cover; finished in green japan with gold striping.

Nos.	508	510
Capacity, qts.	8	10
Diameter, in.	9½	9½
Height, in.	7⅞	9½
W't per doz., lbs.	33	38
Per dozen	$25.80	27.00

LOOSE

GALVANIZED ROUND FLOATING BUCKETS

Galvanized iron bucket, no cover; inset of galvanized wire, solid at bottom to hold enough water to transfer; hinged, perforated, self-locking cover; plain galvanized, finished in blue striping.

Nos.	608	610
Capacity, qts.	8	10
Diameter, in.	9½	9½
Height, in.	7⅞	9½
W't per doz., lbs.	36	42
Per dozen	$30.60	32.00

LOOSE

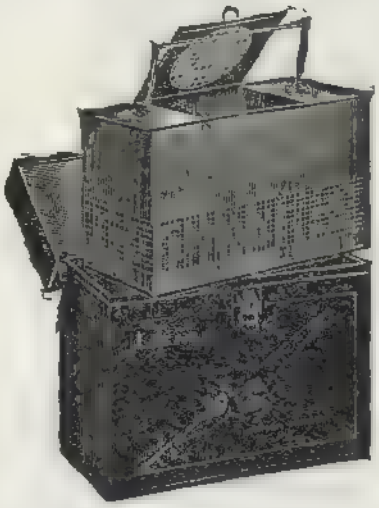
MINNOW AND FROG BUCKETS

Hinged, perforated cover with spring catch; body finished in blue lacquer and the cover in gold.

No. 102—Capacity, 2 qts., diameter 6 in., height 4½ in., w't per doz. 6½ lbs. .....per dozen $5.40

LOOSE

SQUARE CORNER FLOATING



No. 28—Lucas, 10 qt., 10½×11×5 space for ice at top of bucket, japanned with gilt trimmings, brass snap locking device, bottom of both outside and inside bucket galvanized, w't per dozen 48 lbs.,
per dozen $111.00

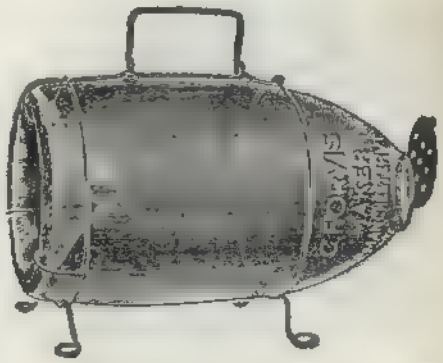
LOOSE

MINNOW TRAPS

Has no key and can be easily and quickly put together. Locks firmly by a spring brass slotted locking device.

No. 68—Keyless, best grade, galvanized wire cloth of 2/16 in. mesh, rims of galvanized metal, and hinges at seam of cloth, w't per doz. 26 lbs., per dozen $22.50

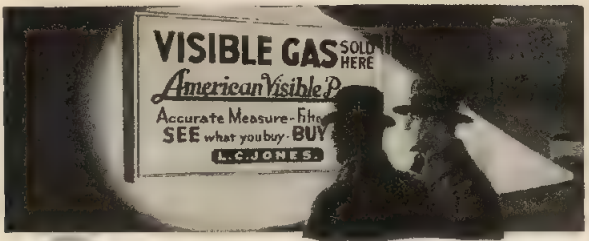
HALF DOZEN IN A FIBRE BOARD BOX



No. 71—Heavy flint glass, handle and legs galvanized metal, length 12 in., circumference 24 in., w't per doz. 24 lbs. .....per dozen $69.30

ONE IN A BOX

"Our Very Best"
is-
The Very Best



Increased Our Business Fully 30 per cent

ROBERT R. DEAN, a hardware dealer at Alden, Penn., writes, "We are immensely pleased with our American Visible Pump and find it has increased our business fully 30%." Another dealer says, "It is a great producer of business and satisfied customers."

There are two outstanding reasons why the hardware dealer's business is increased by installing the

PUMP 204-V
Inspected and passed by Underwriter's Laboratories and bears the Underwriter's Label

American Visible Curb Pump

It brings motorists to your door for gasoline and gives you the best possible opportunity to sell them other goods.

And the American Visible is the ONE pump motorists PREFER to buy gas from, because it SHOWS QUANTITY and QUALITY of purchase before delivery.

One dealer who operates an American Visible and a "blind" pump, writes, "Your pump sells 75 per cent of the business."

The protected glass container at top of pump shows purchaser EXACT amount of his purchase. He is assured FULL MEASURE and a SQUARE DEAL.

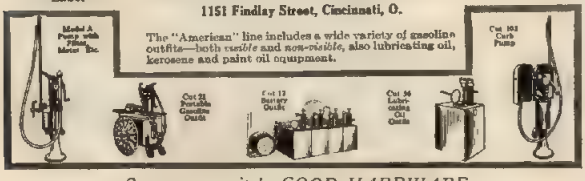
Thousands of American Visibles are in use all over the country. They are INCREASING THE SALES of their users. The American Visible will BRING the trade of motorists TO YOUR DOOR.

Write us for full information, prices and proofs of our claims.

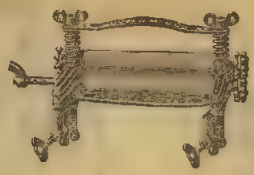
AMERICAN VISIBLE CONTAINER
For other makes of pumps furnished complete.

The American Oil Pump & Tank Co.

1151 Findlay Street, Cincinnati, O.



WRINGERS AND DISPLAY STANDS



Warranted Three Years. Galvanized malleable iron frame; steel spiral springs; hold-fast clamps open 1⅜ in.; can furnish to open 2 or 2½ inches.

NO.	Rolls	Wt. Doz.	DOZEN
22D	10x1¼ in.	235 lb.	$103 00

This stand is of strong, straight grain ash. It is well put together and nicely finished in olive green. Holds three wringers. Wherever used it is sure to increase the sales of wringers.

NO.	Height	Width	Wt. Each	EACH
0	56 in.	14 in.	10 lb.	$1 50

This stand is made of straight grained ash with extra heavy base. Holds three large wringers. Equipt with casters. Mission finish.

NO.	Height	Width	Wt. Each	EACH
11	68 in.	20 in.	35 lb.	$3 75

LOVELL CLOTHES WRINGERS AND PARTS

Warranted Five Years. Folding wood frame; bench wringer; steel ball bearings; steel spiral springs; cog shields; reversible water board conducts water to either tub

NO.	Rolls	Wt. Doz.	DOZEN
781B	11x1¾ in.	525 lb.	$215.00

Warranted Three Years. Folding wood frame bench wringer; steel ball bearings; flat steel spring; cog shields; reversible water board conducts water to either tub.

NO.	Rolls	Wt. Doz.	DOZEN
770B	10x1¾ in.	510 lb.	$202.00

Cog Wheel Shields

NO.	DOZEN
10	$4.80

Ball Bearings

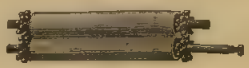
NO.	DOZEN
1	$3.60

This bench is specially constructed for the purpose of holding two tubs or a tub and clothes basket. A wringer of any pattern can be fastened on the cross bar and the reversible water board conducts water to either side. Bench folds. Packed three in a crate.

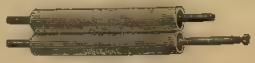
NO	Wt. Doz.	DOZEN
1HB	320 lb.	$84.00

Geared rolls are carried in stock in the numbers listed below. They are rated for ONE year and THREE years as indicated.

NO.	Guar.	Rolls		Wt	DOZEN
39	1 yr.	10x1¾ in.	Upper	45 lb.	$28.00
60	1 yr.	10x1¾ in.	Lower	50 lb	28.00



NO.	Guar.	Rolls		Wt	DOZEN
33	3 yr.	10x1¾ in.	Upper	45 lb	31.00
151	3 yr.	10x1¾ in.	Lower	50 lb.	31.00
35	3 yr.	11x1¾ in.	Upper	45 lb.	35 50
152	3 yr.	11x1¾ in.	Lower	56 lb.	35.50

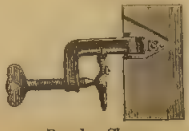


Rolls Without Cogs

NO.	Guar.	Rolls	Wt. Doz.	DOZEN
51	1 yr.	10x1¾ in.	40 lb.	$26.00
52	1 yr.	10x1¾ in.	46 lb.	26.00

Handles

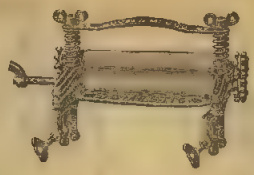
NO.	DOZEN
8 Regular	$8.40



Regular Clamp

NO.	DOZEN
7 Right hand	$7.80
8 Left hand	7.80

WRINGERS AND DISPLAY STANDS



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Warranted Five Years. Folding wood frame; bench wringer; steel ball bearings; steel spiral springs; cog shields; reversible water board conducts water to either tub

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Ball Bearings

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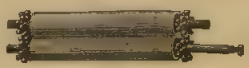

NO.	Guar.	Rolls		Wt	DOZEN
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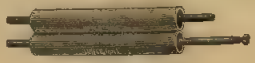
151	3 yr.	10x1¾ in.	Lower	50 lb.	31.00
35	3 yr.	11x1¾ in.	Upper	45 lb.	35 50
152	3 yr.	11x1¾ in.	Lower	56 lb.	35.50



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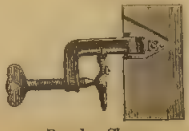
NO.	DOZEN
8 Regular	$8.40



Regular Clamp

NO.	DOZEN
7 Right hand	$7.80
8 Left hand	7.80

MINERS' SUPPLIES

MERCHANDISE CHECKS

Made of brass or aluminum

Denominations	5 cts.	10 cts.	25 cts.	50 cts.	$1.00
Per 100	$				
Additional 100's					

CAR CHECKS

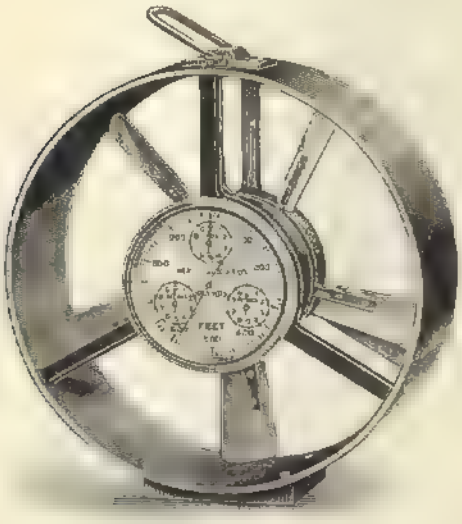
1⅛ in in diameter, ¾ in hole.

Aluminum, not stamped, per lb., $....

Brass not stamped, per lb.,

Can furnish stamped with numbers on special order.

*ANEMOMETERS



Anemometers (air meters) are used for measuring the velocity of air currents in mines, sewers, hospitals, tunnels, etc. They serve manifold and important sanitary and scientific purposes.

In leather case with belt loop
3 in. diameter, reading to 1,000 ft
4 in. diameter, reading to 1,000 ft
4 in. diameter, reading to 100,000 ft.

Prices on application

*Not carried in stock; will ship from factory.

BRATTICE CLOTH

Combines extreme efficiency and extreme economy. Made out of carefully selected fibers, closely woven and fireproofed by a chemically scientific process, which renders it non-inflammable and at same time practically rotproof.

Prices Per Square Yard

Width, in.	36	48	60	72
Yellow—Non-inflammable	$			

Fifty lineal yards in a roll

Black—Waterproof

Red Diamond—Non-inflammable

One hundred lineal yards in a roll

OILED HATS

SAWYER'S "DEFENDER"

No. 855

Made of durable sheeting, flannel lined, strongly reinforced by stitching; soft and light weight; may be folded to go into pocket.

Black and yellow color

No. 855. Assorted sizes, 6¾ to 7½; weight per dozen, 3¼ lb. . . . . per dozen, **$22.00**

SAWYER'S "SQUAM"

No. 857

Excellent wearing, flannel lined, with ear pieces and chin strap. Black and yellow color.

No. 857. Assorted sizes, 6¾ to 7½; weight per dozen, 4 lb . . . . . per dozen, **$12.50**

No. 858. Same as above, but is supplied with a leather lamp holder for miner's use. Weight per dozen, 4¼ lb. . . . . per dozen, **14.00**

SAWYER'S "BEACON"

No. 866

Flannel lined oiled sheeting with ear pieces and chin strap. Black and yellow color. Equipped with patent tin lamp holder.

No. 866. Assorted sizes, 6¾ to 7½. Weight per dozen, 5⅜ lb. . . . . per dozen, **$16.00**

SAWYER'S OILED CLOTHING

EXCELSIOR BRAND POMMEL SLICKERS

Made double throughout, with corduroy faced collar and throat piece, epaulet patches on sleeves, elastic inner sleeves, storm lap, two "no rip" pockets and furnished with brass buttons.

When used as a riding coat the extensions in front and back fully cover the saddle, fitting closely to the horse's back, insuring a perfectly dry seat. The skirts are wide with buttons near the bottom, to fasten round the ankles. Used as a walking coat the extension front can be overlapped and buttoned. Colors: yellow, black, olive

Size Nos.	0	1	2
Breast measure, in.	44	40	38
Length, in.	62	60	58
Average weight per dozen, lb			75
No. 21. Per dozen			$152.00

EXCELSIOR BRAND SLICKERS

Made double throughout, trimmed with corduroy faced collar and throat tab epaulets, elastic inner sleeves. Outside storm lap, two "no rip" pockets and brass buttons. Colors: yellow, black, olive.

Size Nos.	0	1	2
Breast measure, in.	44	40	38
Length, in.	56	54	52
Average weight per dozen, lb			55
No. 22. Per dozen			$128.00

SAWYER'S OILED CLOTHING

No. 363

No. 201

MOTOR COATS

No. 363. Excelsior brand, nobby design, made from strong, light material and waterproofed in a dull black finish. Lined shoulders and sleeves, rolling collar with velvet faced collar band. Two "no rip" pockets and inside interlocking storm laps

No. 201. Excelsior brand, double sewed throughout, 6 inch deep collar, velvet lined with throat tab, reinforced sleeves with inner sleeves fitting close to the wrist. Two "no rip" pockets, brass fastenings. Black and brown color.

Size Nos.	0	1	2
Breast measure, in.	44	40	38
Length, in.	56–54	54–53	52
Average weight per dozen, lb			55
*No. 363. Per dozen			$152.00
*No. 201. Per dozen			152.00

EXCELSIOR JACKETS AND PANTS

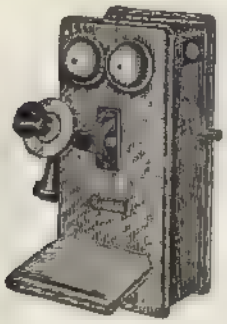
*No. 27. Jackets made double throughout. The front is protected by a storm lap, brass buttons. When used in combination with pants, they make a serviceable suit. Colors: yellow, black, brown and olive, weight per dozen, 30 lb.....per dozen, $68.00

*No. 28. Apron pants. Made double throughout, overall style. The side openings have brass buttons. Colors: yellow, black, brown and olive, weight per dozen, 30 lb.....per dozen,

*Not carried in stock; will ship from factory.

TELEPHONES

REVONOC COMPACT MAGNETO TYPE



No. F7308E REVONOC—Bridging, 3-bar generator, 500 ohm ringer, each★ $30.00

No. F7516E REVONOC—Bridging, 5-bar generator, 1600 ohm ringer, each★ $32.00

No. F7520E REVONOC—Bridging, 5-bar generator, 2500 ohm ringer, each★ $32.50

PACKED ONE IN A BOX. SHIPPING WEIGHT ABOUT 35 LBS.

This wall telephone is made with enclosed gongs, a new arrangement of parts permitting a smaller and neater cabinet. 3 in. gongs are mounted inside of the cabinet. Slotted plates on each side of the cabinet permit the ringing of the bells being distinctly audible.

Series telephones are no longer recommended. When it is only a short distance, or for town service, not over five telephones to the line we recommend the No. 7308E.

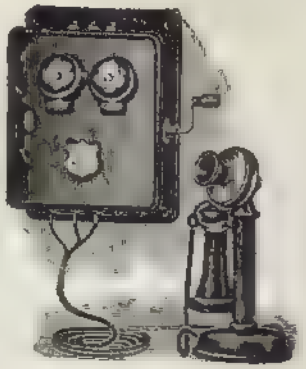
Five bar bridging telephones are for use on country lines, with over five telephones on the same circuit. In ordering instruments for a system of this kind the capacity of generator and ringer should be the same as the other telephones on the same circuit.

Cabinets of REVONOC Telephones are made of quarter-sawed oak, highly polished and finished, and each instrument is equipped with powerful generator, adjustable ringer movement, bi-polar receiver, lightning arrester, long distance transmitter mounted on adjustable arm.

Batteries are not included, but space is left in the bottom of cabinet.

Telephones equipped with condensers 75c extra net.

REVONOC MAGNETO DESK SETS



No. F113E REVONOC—Bridging 3-bar generator, 500 ohm ringer, each★ $34.50

No. F114E REVONOC—Bridging, 4-bar generator, 1600 ohm ringer, each★ $36.00

No. F115 REVONOC—Bridging, 5-bar generator, 1600 ohm ringer, each★ $34.70

PACKED ONE IN A BOX. SHIPPING WEIGHT ABOUT 20 LBS.

Telephone is metal, black enameled, very strong and serviceable. In these two piece telephones the generator, ringer movement and terminal block are mounted in one cabinet 6¾ in. wide, 9¾ in. high, 7 in. thick, quarter-sawed oak highly polished and finished. The induction coil is mounted in base of telephone.

Batteries and lightning arrester are not included.

H.S.B & CO. REV-O-NOC

We Stand Behind Our Brand.

PORTABLE TELEPHONES

Also used as a testing set in locating trouble.

No. F423E—4-bar generator, 1600 ohm ringer, watch case receiver, in oak case with steel front and back plates 8x10½x7½ in. collapsible handle, batteries not included but space provided for them, w't 12 lbs., each .....$.....

MINE TELEPHONES

These instruments are for mines, mills, police and railway systems, and any exposed use, and are enclosed in cast iron box 15⅜ in. high, 12⅜ in. wide, 10⅜ in. deep. Working parts protected by iron shield. Door has rubber gasket. Box can be locked with padlock when not in use.

Telephones are equipped with transmitter, rubber shell receiver. Space is provided for two dry batteries. Batteries and arrester are not included.

Telephones of different capacity ringer and generator can be supplied. Prices on application.

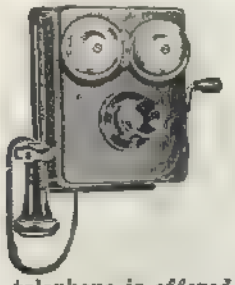
No. F995E—5-bar generator, 1600 ohm ringer★ .....each $.....

PACKED ONE IN A BOX. SHIPPING WEIGHT ABOUT 70 LBS.

★ Items Marked Thus ★ Are Shipped From Factory Only.

Prices on Application

RESIDENCE TYPE LOCAL BATTERY TELEPHONES



No. 21 telephone is offered to meet the demand for a small, neat telephone for residence use where the batteries can be placed in some out of the way place, equipped with standard parts as furnished with larger telephones, each of highest efficiency and dependable in every respect. Oak Cabinet is of neat design and attractive finish. This instrument will operate in conjunction with other standard telephones and can be furnished in any combination of generator and ringer.

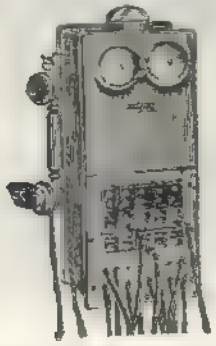
No. F214E—Bridging, 3-bar generator, 500 ohm ringer★ ..each $30.00

No. F219E—Bridging, 5-bar generator, 1600 ohm ringer, each★ $32.25

No. F2110E—Bridging, 5-bar generator, 2500 ohm ringer, each★ $33 00

SHIPPING WEIGHT PACKED, ABOUT 22 LBS.

COMBINATION TELEPHONE AND SWITCH BOARD



Cabinet is of similar design and size to the [illegible] compact style Telephone, but the battery space is equipped with drops and jacks of the express type, and a hand microphone for operator's set. This combination instrument makes an exceptionally practical and economical outfit for handling a number of lines for rural districts.

Can be made with any number of drops up to fifteen.

Shipping w't approximately 60 lbs.

No. F85E—5 line, combination telephone and switchboard, each★ .....$.....

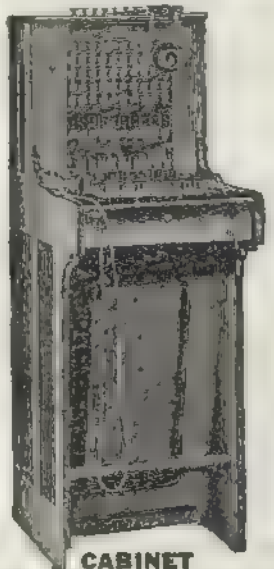
SWITCHBOARDS EQUIPMENT

The drops are of the unit or individual type, which permits any number being installed up to the full capacity of the board, thus no unnecessary amount of money need be tied up in equipment to take care of future requirements. Additional drops can be easily installed, one or more at a time. The construction of this type is very simple, there being few parts with each of ample size and strength to assure long life and freedom from break downs or trouble. They are arranged for use with both grounded and metallic lines.

The regular equipment of these boards consists of complete operator's, set either with a breast-plate transmitter or suspended type with supporting arm, operator's watch-case receiver with head-band, connecting cord, operator's plug, cord and jack, induction coil, a powerful hand generator, hand and power generator switching key, a buzzer in the generator circuit, and complete night bell circuit with switching key.

Boards are furnished with cable, also with necessary batteries for operator's equipment and night bell circuit if so specified on order.

Cabinets are made of quarter-sawed oak, substantially built and attractively finished—furnished for one or more operator's positions.



CABINET

Express switchboards are made up in various styles and sizes of cabinets.

We recommend the purchase of boards with sufficient capacity to cover possible future growth.

No. F11E—Fifty line unit, with the unit type of drop and jack. also individual cord circuits, it is possible to install in one of these cabnets any equipment to suit individual needs, w't 275 lbs.★ .....each $.....

SWITCHBOARDS

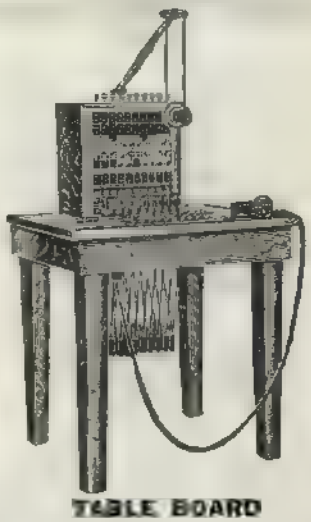
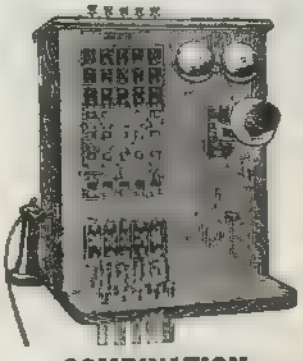


TABLE BOARD

Exceedingly popular for private exchange work, such as for hotels, hospitals, public buildings, etc. They are also adaptable for toll line work. The same type of apparatus are used in these as in the larger floor type switchboards, together with the convenience of a desk. These cabinets can be furnished with any special wiring required, or with any apparatus needed to meet particular local conditions.

No. F70E—W't 125 lbs.★ ..each $....



COMBINATION

No. F77E—In a wall type switchboard with a capacity for 30 lines the No. 77 cabinet is built along practical lines—this is equipped with same style drops and jacks as the floor type boards, although single lever keys are used in the cord circuits, simplifying the equipment. Standard telephone apparatus installed in the same cabinet furnishes the operator's equipment. This board is provided with clear-out drops, night bell circuit and is in every way well adapted for the handling of a small exchange where the number of lines will not eventually exceed thirty★ .....each $.....

★ Items Marked Thus ★ Are Shipped From Factory Only.

REVONOC ANVILS

Made from American ingot or wrought iron, welded at the waist, thus making a solid forging to which is welded a high grade crucible cast steel face—the best obtainable—which in turn is ground, tempered and polished, forming a perfect working surface, body coated with pure asphaltum paint. The wrought iron being fibrous is very tough, and will withstand more hard usage than any other metal used in the manufacture of anvils, while nothing but the very best grade of tool steel will form a working surface that is satisfactory to the smith desiring a high grade article.

Fully Warranted.

REVONOC anvils have a greater surface area for their weight than any other on the market, owing to the correct distribution of the metal. For illustration: a REVONOC anvil 3¾ inch by 14 inch surface weighs 100 pounds, and frequently less; in order to obtain this same surface in an anvil of other makes, the user is often compelled to buy 115 pounds or more of metal.

Width of base is always equal to height, so they will not tip nor break loose from fastenings by side blows.

The long horn is round throughout its full length, a perfect ring can be forged and welded at any point.

The long tail admits of bending small perfect U shapes, and leaves a large surface for welding.

Nos.	F50	F60	F70	F80	F90
Dimen. of face, in.	11½x3¼	12x3½	12½x3¾	13x3⅞	13½x3⅞
Size hardie hole, in.	¾	¾	¾	⅞	⅞
Size pritchel hole, in.	⅝	⅝	⅝	7/16	7/16
W't about, lbs.	50	60	70	80	90
Per pound	$0.35★	.30★	.30★	.30★	.30★

Nos.	F100	F120	F150	F200
Dimen of face, in.	14x3¾	15x3¾	15½x4	17½x4½
Size hardie hole, in.	1	1	1	1⅛
Size pritchel hole, in.	7/16	½	½	⅝
W't about, lbs.	100	120	150	200
Per pound	$0.30★	.30★	.30★	.30★

VULCAN ANVILS

Cast Iron Body with Welded Steel Face.

The face is welded to the body by a patent process, then accurately ground and tempered. The horn is covered with and at its extremity is made entirely of steel. The face and horn are warranted to be thoroughly welded to the body and not to separate.

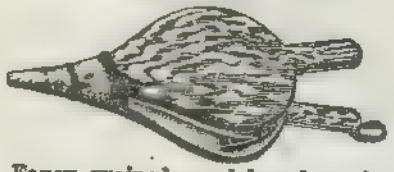
Nos.	F00	F0	F1	F2
Dimen. of face, in.	1¼x4 3/16	2 5/16x5 1/16	2 5/16x5½	2¾x6
Size of hardie hole, in.	½	½	½	½
Size of pritchel hole, in.	½	⅝	⅝	⅝
W't about, lbs.	5	10	15	20
Per pound	$0.80★	.55★	.45★	.40★

Nos.	F3	F4	F5	F6
Dimen. of face, in.	2¾x7¼	3x7½	3x8½	3¼x10⅜
Size of hardie hole, in.	½	½	½	½
Size of pritchel hole, in.	⅝	½	7/16	7/16
W't about, lbs.	30	40	50	60
Per pound	$0.30★	.25★	.25★	.20★

Nos.	F7	A8	A9	A10
Dimen. of face, in.	3¼x11	3¼x11 7/16	3¼x12	3¼x12⅛
Size of hardie hole, in.	¾	¾	¾	¾
Size of pritchel hole, in.	7/16	7/16	½	½
W't about, lbs.	70	80	90	100
Per pound	$0.20★	.20	.20	.20

Nos.	A12	A15
Dimen. of face, in.	3⅝x12 15/16	4x14¼
Size of hardie hole, in.	1	1
Size of pritchel hole, in.	9/16	9/16
W't about, lbs.	120	150
Per pound	$0.20	.20

HAND OR MOULDERS' BELLOWS



Fancy grained wood boards, galvanized sheet steel funnel, select tan calfskin leather, with studded black reinforcing border.

No. 4—Inches	7	8	9
Length, in.	14½	15½	17½
W't, doz., lbs.	12	13½	14½
Per dozen	$22.00	25.00	28.20
No. 4—Inches		10	12
Length, in.		18	21½
W't, doz., lbs.		19	33
Per dozen		31.30	40.80

LUMP BORAX

No. 17—Lump, 100 lb. bags or less, per pound $0 25

WELDING COMPOUND

Cherry heat welding compound, welds iron to iron, steel to steel, and malleable iron to steel and is the highest grade of welding flux.

No. W00—In 100 lb. boxes, per box $21.50
No. 0—In 25 lb. boxes ...box 5.50
No. 1—In 5 lb. boxes ...box 1.20

CLIMAX, especially adapted for tires, axles and general job work, recommended for iron and all grades of steel, including tool steel.

No. W01—In 100 lb. boxes, per box $19.50
No. 02—In 25 lb. boxes ..box 5.00
No. 2—In 5 lb. boxes ...box 1.10

WE DO NOT BREAK BOXES

We guarantee "E-Z" Welding Compound to make stronger and smoother welds on any grade of steel or iron than any other. It does not boil up and waste like other compounds do. It welds at a lower heat, prevents slipping of parts and leaves no scale.

No. W100—In 100 lb. boxes, per box $19.50

No. 25—In 25 lb. boxes, per box $5.00

No. W5—In 5 lb. boxes, per box $1.10

WE DO NOT BREAK BOXES

★ Items Marked Thus ★ Are Shipped From Factory Only.

THE ARDROSSAN DRY DOCK AND SHIPBUILDING COMPANY, LIMITED,

ARDROSSAN.

T.S.S. MINESWEEPER "BLACKMOREVALE."

S.S. "LADY PATRICIA."

S.S. TUG "JOFFRE."

Shipbuilders, Ship Repairers, Engineers, & Dry Dock Owners.

BUILDERS OF ALL CLASSES OF MERCHANT VESSELS UP TO 9,000 TONS D.W.

Constructions et Réparations de Navires, Ingénieurs Mécaniciens et Propriétaires de Cale Sèche.
Fabricants de navires marchands de toutes sortes jusqu'à 9,000 tonnes, ports mort.

Constructores y Reparadores de Buques, Ingenieros, y Proprietarios de diques de carena.
Constructores de buques mercantes de toda clase hasta 9,000 toneladas, peso muerto.

Telephones: 3029 & 3030. ADMIRALTY CONTRACTORS. Telegrams: "HAMILTON, BELFAST 3029

A. W. HAMILTON & Co.,

(Proprietor: A. W. HAMILTON.)

SHIP REPAIRERS, ENGINEERS AND BOILERMAKERS,

PNEUMATIC PLANT.
ELECTRICAL WELDING PRINCE'S DOCK, **BELFAST.** Branch at DRY DOCK. Telephone 134.

Téléphones 3029 *et* 3030 *Télégrammes* "HAMILTON, BELFAST 3029"

FOURNISSEURS DE L'AMIRAUTÉ

A. W. HAMILTON & Co.
(A. W. HAMILTON, Propriétaire.)

Réparateurs de Navires, Ingenieurs Mecaniciens et Chaudronniers,

PRINCE'S DOCK, BELFAST.

Outillage Pneumatique. *Succursale à Dry Dock.*
Soudure Electrique. *Téléphone* 134.

Telefon Nos. 3029 & 3030. Telegram adr. "HAMILTON BELFAST 3029."

LEVERENDØRER TIL DET BRITISKE ADMIRALITET.

A. W. HAMILTON & Co.,
(Proprietær: A. W. HAMILTON.)

Skibs-reparatører, Ingeniører og Kjedelmagere

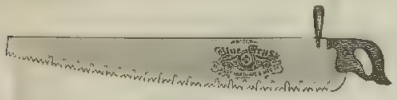
PRINCE'S DOCK, BELFAST.

Pneumatiske driftsudstyr. Filial ved Tørdokken.
Elektrisk sveisningsarbeide. Telefon No. 134.

ONE MAN CROSS CUT SAWS

—BLUE GRASS—

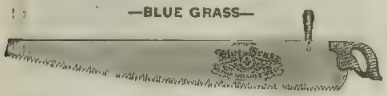
Special steel, evenly tempered, polished and etched; filed and set, ready for use. Beechwood handle, varnished edges, one supplementary handle. Thin back.



Great American Tooth.

Nos.	21-3	21-3½	21-4	21-4½
Length, feet	3	3½	4	4½
Weight each about, lbs	3¼	4	5	6
Each	$6 45	7 50	8 55	9 75

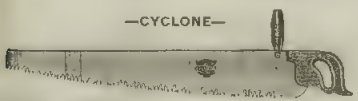
Twenty-five in a wood case.



Tuttle Champion Tooth, Crown Point.

Nos.	20-3	20-3½	20-4	20-4½
Length, feet	3	3½	4	4½
Weight each about, lbs	3½	4	5	6
Each	$6 45	7 50	8 55	9 75

Twenty-five in a wood case.

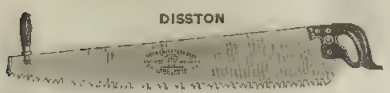


Tuttle-Champion Tooth. Crown Point.

Cast steel, tempered; polished and etched; filed and set, ready for use. Beechwood handles, plain sides and varnished edges, one supplementary handle; polished ferrule thin back.

Nos.	220-2½	220-3	220-3½	220-4	220-4½
Length, feet	2½	3	3½	4	4½
Weight each, lbs	3	3½	4	5	6
Each	$4 80	5 70	6 60	7 50	8 25

Twenty-five in a wood case.



Tuttle Tooth.

First quality crucible steel, tempered, polished and etched; filed and set, ready for use. Beechwood handles, plain sides and varnished edges, one supplementary handle, polished ferrule; thin back.

Nos.	DT-3	DT-3½	DT-4	DT-4½
Length, feet	3	3½	4	4½
Weight each, lbs	3½	4	5	6
Each	$6 45	7 50	8 70	9 75

Twenty-five in a wood case.

ONE MAN CROSS CUT SAWS

ATKINS

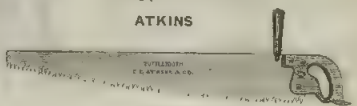
Special steel, polished and etched; filed and set, ready for use. Beechwood handle, plain sides and varnished edges, one supplementary handle; polished ferrule; thin back.

Victor Tooth, Perforated.

Nos.	392-3	392-3½	392-4	392-4½
Length, feet	3	3½	4	4½
Weight each, lbs	3½	4	5	6
Each	$7 20	8 40	9 60	10 80

Twenty-five in a wood case.

ATKINS

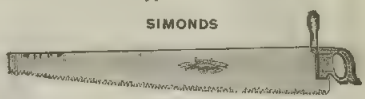


TuttleTooth.

Nos.	390-3	390-3½	390-4	390-4½
Length, feet	3	3½	4	4½
Weight each, lbs	3½	4	5	6
Each	$6 45	7 65	8 70	9 75

Twenty-five in a wood case.

SIMONDS



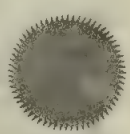
Champion Tooth.

High grade steel, accurately tempered, polished and etched; filed and set, ready for use. Beechwood handles, plain sides and varnished edges, one supplementary handle; polished ferrule; thin back.

Nos.	111-3	111-3½	111-4
Length, feet	3	3½	4
Weight each, lbs	3½	4	5
Each	$7 50	8 55	9 60

Twenty-five in a wood case.

CORDWOOD SAWS



Cordwood Quality.

Diameter hole 1⅝ inches. These saws to be used on wood sawing machines shown in Dept. 2.

These saws are regularly supplied with 1⅝ inch mandrel hole; can furnish any other size mandrel hole without extra charges.

Diameter, inches	18	20	22	24	26
Gauge	13	13	12	11	11
Weight each, lbs	5	8	11	14	16
Each	✣$7 95	✣9 00	✣10 50	✣12 75	✣14 25

Diameter, inches	28	30	32	34	36
Gauge	10	10	10	9	9
Weight each, lbs	20	25	30	36	40
Each	✣$16 50	✣18 75	✣22 50	✣24 00	✣26 25

Crated.

✣F. O. B. Missouri Factory Only.

CROSS CUT SAW HANDLES

—BLUE GRASS—

Selected beechwood handle, thoroughly seasoned, 2¾ inch japanned malleable iron clasp, XC bolt and thumb nut.

Per 100 Pairs

No. 47—Reversible, length 15½ ins.; diameter 1¼ inches..... $120 00

Fifty pairs in a wood box; weight per pair 1⅝ lbs.

—BLUE GRASS—

Selected beechwood handle, thoroughly seasoned, heavy japanned malleable iron bell ferrule and revolving washer; steel loop with 4½ inch slot.

Per 100 Pairs

No. 48—Length 12 inches; diameter 1¾ inches..... $135 00

Fifty pairs in a wood box; weight per pair 2 lbs.

—BLUE GRASS—

Selected beechwood handle, thoroughly seasoned; plain finish; japanned malleable iron clasp; steel bolt and malleable thumb nut.

Per 100 Pairs

No. 45—Reversible; length 14 inches; diameter 1¼ inches..... $163 50

Fifty pairs in a wood box; weight per pair 1¾ lbs.

—BLUE GRASS—

Selected beechwood handle, thoroughly seasoned; plain finish; revolving washer; steel loop, with 3⅝ in. slot; malleable nut forms end cap; steel ferrule.

Per 100 Pairs

No. 46—Length 11½ inches; diameter 1⅛ inches..... $188 25

Fifty pairs in a wood box; weight per pair 1½ lbs.

—PINE KNOT—

Selected hardwood handle, thoroughly seasoned; black japanned cast iron ferrule and washer; malleable iron loop with 4 inch slot.

Per 100 Pairs

No. 40—Length 13 inches, diameter 1½ inches $129 00

Fifty pairs in a wood box; weight per pair 1 lb.

CLIMAX PATTERN

Hardwood handle, thoroughly seasoned, 2⅝ inch plain malleable iron clasp, malleable bolt, lock rivet and thumb nut.

Per 100 Pairs

No. 7—Reversible; length 13 inches; diameter 1¼ inches.... $90 00

100 pairs in a wood box; weight per pair 1½ lbs.

CROSS CUT SAW HANDLES

Hardwood handle, thoroughly seasoned, heavy japanned bell ferrule, and notched, revolving washer; malleable iron loop with 4½ inch slot.

Per 100 Pairs

No. 8—Length 10½ inches, diameter 1¼ inches..... $126 75

100 pairs in a wood box; weight per pair 2 lbs.

Hardwood handle, thoroughly seasoned; malleable iron ferrule, bracket and thumb nut, malleable iron loop with 4¼ inch slot.

Per 100 Pairs

No. 5—Length 14 inches, diameter 1¼ inches..... $173 25

Fifty pairs in a wood box; weight per pair 2 lbs.

Hardwood handle, thoroughly seasoned malleable iron ferrule and revolving washer malleable iron loop with 4¼ inch slot.

Per 100 Pairs

No. 6—Length 10 inches, diameter 1¼ inches..... $91 50

One hundred and fifty pairs in a wood box weight per pair 1¼ lbs.

ATKINS

Selected hardwood handle, thoroughly seasoned; plain finish; japanned malleable iron clasp; steel bolt and malleable thumb nut.

Per 100 Pairs

No. 22—Reversible; length 14 inches; diameter 1¼ inches..... $163 50

Fifty pairs in a wood box; weight per pair 1¾ lbs.

SURE-ON

Selected hardwood handle, thoroughly seasoned; plain finish; stamped steel plates; steel bolt and malleable thumb nut.

Per 100 Pairs

No. 1-14—Length 14 inches; diameter 1¼ inches..... $75 00

Twenty five pairs in a corrugated cardboard box; weight per pair 1½ lbs.

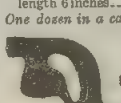
CROSS CUT SAW HANDLES

One Man, Supplementary.

Per Dozen

No. 6-1M—Beechwood handle, varnished, malleable iron ferrule, shank and hook with rivet $8 55 length 6 inches..... .....

One dozen in a cardboard box; weight per dozen 4 lbs.



One Man, Regular.

Per Dozen

No. 2-0M—Beechwood, plain sides and varnished edges, not bored and without screws; length 8½ inches $9 90

One dozen in a cardboard box; weight per dozen 7 lbs.

DECOY DUCKS

AUTOMATIC CANVAS

Collapsible decoys, canvas body, wooden float and head block, one wire spring head support, one wire tail support.

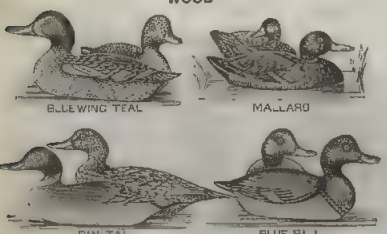
These automatic canvas decoy ducks, open up automatically, there is no adjustment, nothing necessary but the simple use of the anchor cord in the regular manner. This decoy automatically expands by means of a spring when the anchor cord is unwound, such cord being wound around the decoy, holds same in collapsed position. Complete with anchors and cords, assorted 6 males and 6 females to the dozen.

Per Dozen

No. ACM—Mallard $32 25

One dozen in a cardboard box; weight per dozen about 14 lbs.

WOOD



These decoy ducks are made of the best seasoned white cedar, hollow flat bottom, will float evenly on the water at all times, are well balanced, and painted in natural colors, true to life. Assorted 8 males and 4 females to the dozen.

Premier Hollow Glass Eye.

Per Dozen

No. PPTH—Pin Tail $63 00
No. PBBH—Blue Bill 63 00
No. PTH—Blue Wing Teal 63 00
No. PMH—Mallard 63 00

Standard Quality Solid Glass Eye.

Made of highly seasoned white cedar, solid flat bottom, and glass eyes. Float evenly at all times, painted in natural colors, true to life. Assorted 8 male and 4 females to the dozen:

Per Dozen

No. PPTS—Pin Tail $31 50
No. PBBS—Blue Bill 31 50
No. PTS—Blue Wing Teal 31 50
No. PMS—Mallard 31 50

One dozen in a wire bound wood box, average wt. per doz. 25 lbs.

CALLS

DUCK

EUREKA, Old Style.

Per Dozen

No. 1EO—Fitted with hand made rubber reed and rubber and cork inner parts; outer part is hard maple and spun brass; length 4½ inches $20 40

One dozen in a cardboard box, weight per dozen 2 lbs.

CALLS

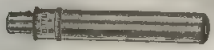
DUCK

EUREKA, New Style.

Per Dozen

No. 2E10—Hand made rubber reed and rubber and cork inner parts; outer part is hard maple and spun brass; length 4½ inches $27 00

One dozen in a cardboard box, weight per dozen 2 lbs.



COMBINATION DUCK AND GOOSE CALL

Per Dozen

No. 1DDGC—Made of brass, nickel plated; hand made rubber reed; inner parts are rubber and reed; length over all 5½ inches $31 50

One dozen in a cardboard box; weight per dozen 3 lbs.

DUCK AND SNIPE

Cocobolo; nickel tip.

Per Dozen

No. 2K Duck Call. Length over all 6 inches $13 50
No. 4K—Snipe Call. Length over all 6 inches 16 50

One dozen in a cardboard box; weight per dozen about 1 lb.

OLT'S DUCK OR CROW CALLS

Made entirely of best hard rubber. Will not swell or shrink in damp weather. The tone is very natural and can be instantly changed to suit the sportsmen. Length over all 5½ inches.

Per Dozen

No. 1I—Interchangeable $36 00
No. 2NI—Non-interchangeable 17 40

Half dozen in a cardboard box; weight per dozen 1 lb.

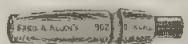
ALLEN'S CROW CALLS

Per Dozen

No. 1AC—Best hardwood; nickel plated tip; length over all 4 ins $18 00

One dozen in a cardboard box; weight per dozen 1½ lbs.

ALLEN'S DUCK CALLS



Best hardwood; nickel plated tip.

Per Dozen

No. 1AE—Length over all 4½ inches $20 40

One dozen in a cardboard box; weight per dozen 1½ lbs.

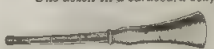
DITTO CROW CALLS

Per Dozen

No. 1DCC Made of hardwood with red stained mouthpiece; nickel plated metal tip; lgth. over all 4 ins $25 20

One dozen in a cardboard box; weight per dozen 1½ lbs.

TURKEY



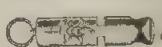
Cocobolo; horn tip.

Per Dozen

No. 1K—Turkey Call. Length 6 inches; weight per dozen about 6 ozs $18 90

One dozen in a cardboard box.

BOY SCOUT WHISTLE



Brass oxidized finish with emblem of Boy Scout organizations.

Per Gross

No. 25—Length 2½ inches $75 60

One dozen in a cardboard box; weight per dozen 9 ozs.

TARGET TRAPS

DU PONT HAND TRAP

FIG. 1. First movement in the setting of the hand trap.

FIG. 2. A quick strong pressure against throwing arm overcomes the resistance of spring.

FIG. 3. The hand trap is now set and ready for loading.

A simple, practical and efficient apparatus for throwing all standard makes of clay targets. It is strongly constructed, and with proper care will give excellent service for an indefinite period.

Nothing yet devised approaches the hand trap for practice for hunting and trap shooting, as an endless variety of flights and angles can be thrown with it. Novice and veteran trap shooters find it just the thing with which to keep in practice and their scores show improvement after using it.

Constructed of high grade malleable iron, japanned; steel spring.

Each

No. DHT—Length extended 34 in.; length closed 23 in.; weight each 6¼ lbs $10 80

One in a cardboard box.

EXPERT

For individual or private use, the Expert is a great favorite; any angle can be obtained by swinging the lever; one trap will afford efficient means for throwing Blue Rocks where it is not advisable to use a Mingaugtrap. The throwing mechanism is simple and durable; may be operated by rope or electric pull.

Each

No. 2ET—Black japanned, cast iron frame; steel springs; length of arm 15 inches; spread of feet 11 inches; wt. each 30 lbs $27 00

One in a wood box.

EXTENSION SPRING

The extension spring trap is well made, and is a trap that all sportsmen will admire; any angle desired may be readily obtained by the loosening and setting of hand screw.

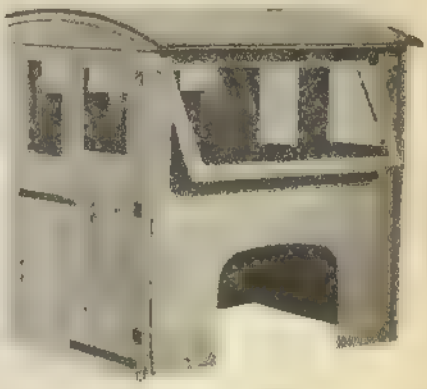
Each

No. 1EST—Black japanned, cast iron frame, steel springs; length of arm 15 inches; spread of feet 8½ inches; weight each 15 lbs $21 00

One in a wood box.

AUTOMOBILE TRUCK BODIES AND CABS

Nos. 240 and 250



No. 200

Sides and ends of ⅞ inch grain 12-inch bottom box, 12-inch top box and 12-inch tip-top box, bottoms made of 1-inch fir flooring, narrow widths dressed and matched, has 5 2x4 oak cross sills supported on frame by 2 2x4 inch sills, bottom securely braced with ⅝-inch wagon box straps and ¾-inch wagon box side braces, has four hardwood straddle cleats on each side of box, fitted with steel grain cleats, making it absolutely grain tight; body ironed full length, equipped with Comstock type lump endgate, 7/16-inch patent collar wagon box rods and anti-spreader chains; has 4 ⅜-inch patent adjustable hold downrods with guide which permits raising the 12-inch top box and 12-inch tip-top box for air space when using as stock rack; nicely painted and striped.

No. 240 Automobile Truck Bodies; 56 inches high; length outside measurement 10 feet, width outside measurement 44 inches; distance from cab to rear axle 61 inches; distance from rear of box to rear axle 47 inches, can be reversed, will fit any truck from 57 inches to 66 inches from cab to rear axle; capacity 72 bushels, weight 510 pounds less cab Each $ . .

No. 240 Automobile Truck Bodies; complete with Cab; weight 800 pounds Each . .

AUTOMOBILE TRUCK BODIES

No. 250

Sides and ends of ⅞ inch grain; 12 inch bottom box, 12-inch top box and 12 inch tip-top box; bottoms made of 1-inch fir flooring, narrow widths dressed and matched, 7 2x4-inch cross piece made of selected oak, supported on frame by 2—2x4-inch oak sills, bottom securely braced with ⅝-inch wagon box straps and ¾-inch wagon box side braces side board cleats fitted to side of panels, fitted with steel grain cleats making it absolutely grain tight, body ironed full length, equipped with Comstock type lump endgate, 7/16-inch patent collar wagon box rods and anti-spreader chains, has 4 ⅜-inch patent adjustable hold downrods with guide which permits raising the 12-inch top box and 12 inch top-tip box for air space when using as stock rack; nicely painted and striped.

No. 250 Automobile Truck Bodies; 36 inches high; length outside measurement 10 feet 4 inches width outside measurement 44 inches, distance from cab to rear axle 81 inches, distance from rear of box to rear axle 42 inches, will fit any truck from 60 to 81 inches from cab to rear axle, capacity 83 bushels, weight 535 pounds; less cab Each $ . . .

No. 250 —Automobile Truck Bodies; complete with cab; weight 835 pounds Each . . .

TRUCK BODY CABS

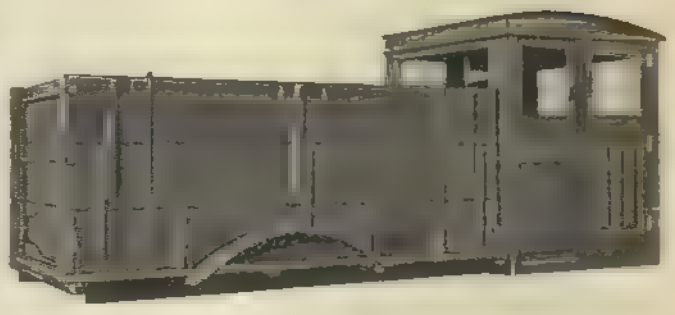
Made of fir stock, 52 inches wide, 45 inches long, 58 inches high; securely bolted and braced; plate glass windshield 42x22 inches, adjustable in or out; panel doors 52 inches high by 20½ inches wide fitted with windows, 18 x25-inch drop windows on each side of driver's seat, has window in rear of cab for rear view, striped and finished to match body.

No. 200—Truck Body Cabs; complete with common cushion; weight 300 pounds..... Each $.....

Extra for Spring Cushion . . . . . Each . . .

FORD REGULAR TRUCK BODIES

Sides and ends of ⅞-inch gum; 12-inch bottom box; 12-inch top box and 12-inch tip-top box bottoms made of 1-inch fir flooring, narrow width, dressed and matched; has 6—2x4 oak cross sills, supported on frame by 2—3½x3-inch sills; bottom box securely braced with ⅝-inch wagon box straps and ½-inch wagon box side braces; front of box extended out flush so as to fit snugly against rear of cab; side board cleats fitted to side of panels; fitted with steel grain cleats, making it absolutely grain tight; body ironed full length; equipped with Comstock type dump endgate and ⅜-inch patent collar wagon box rods; has 4—⅜-inch patent adjustable hold down rods with guide which permits raising the 12-inch top box and 12-inch tip-top box for air space when using as stock rack; nicely painted and striped.

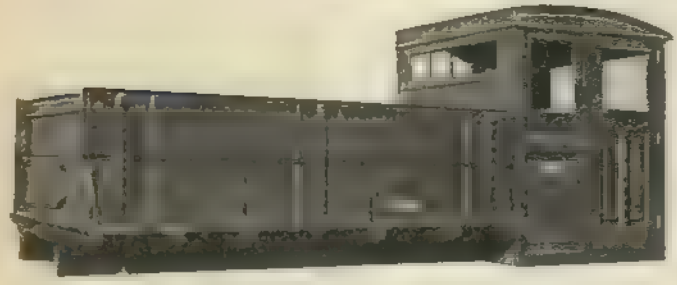


No. 210

No. 210—Ford Regular Truck Bodies; 36 inches high; length outside measurement 8 feet; width outside measurement 44 inches; capacity 63 bushels; weight 500 pounds; less cab.....Each $

No. 210—Ford Regular Truck Bodies; complete with cab; weight 800 pounds .....Each

FORD WIDE TRUCK BODIES



No. 220

Sides and ends of ⅞-inch gum; 12-inch bottom box; 12-inch top box and 10-inch tip-top box, bottoms made of 1-inch fir flooring, narrow widths, dressed and matched; has 6—2x4 oak cross sills supported on frame by 2—3½x3-inch sills all set edge ways, bottom box securely braced with ⅝-inch wagon box straps and ½-inch wagon box side braces; side board cleats fitted to side of panels; fitted with steel grain cleats, making it absolutely grain tight; body ironed full length equipped with Comstock type dump endgate and ⅜-inch patent collar wagon box rods; has 4—⅜-inch patent adjustable hold down rods with guide which permits raising the 12-inch top box and 10-inch tip-top box for air space when using as stock rack; nicely painted and striped

No. 220—Ford Wide Truck Bodies; 24 inches high, length outside measurements 8 feet, width outside measurement 54 inches; capacity 51 bushels; weight 535 pounds; less cab Each $

No. 220—Ford Wide Truck Body; 24 inches high, complete with Cab, weight 835 pounds Each

10-Inch Tip-Top Box; capacity 21 bushels; weight 90 pounds Each

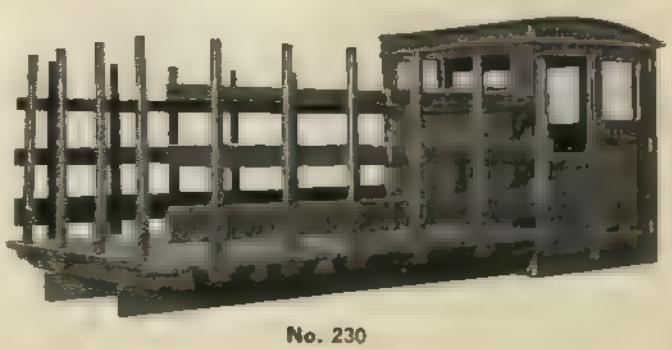
Stock Rack; 47 inches high; made from 1x3 inch strips, securely bolted together; equipped with ⅜-inch wagon box rods; striped and finished to match body; weight 150 pounds .....Each

FORD STAKE BODIES

Made of Hickory throughout; bottom made of 1¼ inch fir, bound on outside with 1¾x⅛ band iron; has 6—2x4 oak cross sills supported on frame by 2—2x6 inch sills all set edge ways, stakes are made of hickory 3½ feet long and set in No. 6003 pockets; front and front side sections of stakes are stationary; rear and rear-side sections of stakes are removable.

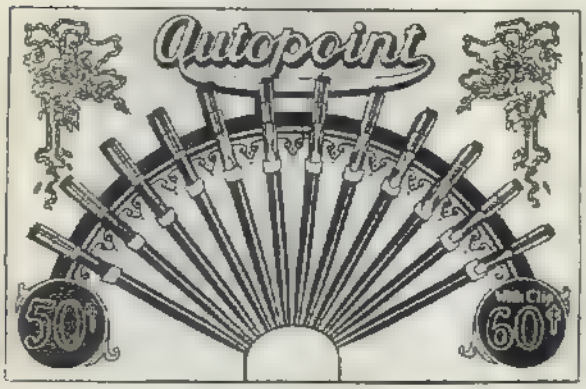
No. 230—Ford Stake Bodies; 42 in high; lgth outside measurement 8 feet, width outside measurement 6 ft 8 in; wgt 450 lbs, less cab ..... Each $ ....

No. 230—Ford Stake Bodies; complete with Cab; weight 750 pounds..... Each



No. 230

AUTOPOINT PENCIL ASSORTMENTS



AUTOPOINT "STANDARDS"—Beautifully finished in red, black, blue and green enamel, metal ends with and without clips, rubber erasers, hold 10 in. of lead.

No. 01—Consists of 12 pencils, 8 with clips and 4 without clips, assorted colors, mounted on beautifully colored easel back display card 7¾×12 in., w't per assortment about ¾ lb. .....per assortment *$6.80*

ONE ASSORTMENT IN A WOODEN BOX. WE DO NOT BREAK ASSORTMENTS

AUTOPOINT METAL PENCILS—Silni metal, sterling silver, silver filled and 12k gold filled, plain and chased pattern, long style with pocket clip, holds 26 in. of lead, short style with ring for cord, holds 13 in. of lead.

No. 1—Consists of 12 pencils, 6 long and 6 short, assorted metals, plain and chased patterns in green velvet lined mahogany finish display case, base 9×5 in., glass front 8¼×8¼ in., w't per assortment 5¼ lbs., per assortment *$43.50*

ONE ASSORTMENT IN A WOODEN BOX. WE DO NOT BREAK ASSORTMENTS

MECHANICAL PENCIL LEADS

Finest quality superfine leads—will fit Eversharp, Autopoint, Sharp-Point or other mechanical Pencils.

Put up one dozen leads in a wooden tube; thirty-six tubes on a beautifully colored, easel back display card.

No. 36—Assorted leads, soft and medium, per card $4.50

CARPENTERS' PENCILS

"High Grade," finished in bright red, black beveled edges, gold stamped.

No. 781—7 in. Medium .....per gross $12.00
No. 783—7 in. Hard .....per gross 12.00
No. 782—9 in. Medium .....per gross 13.50
No. 784—9 in. Hard .....per gross 13.50

HALF GROSS IN A BOX. W'T PER GROSS 5 LBS.

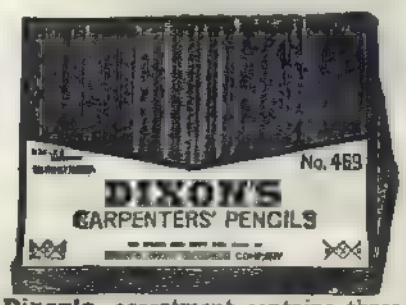
Finished in yellow, green beveled edges, silver stamped.
No. 881—7 in. Medium .....per gross $12.00

HALF GROSS IN A BOX. W'T PER GROSS 5 LBS.
ONE ASSORTMENT IN A BOX

DIXON'S FRAMERS—Flat, beveled, rosewood stained, gold stamped.

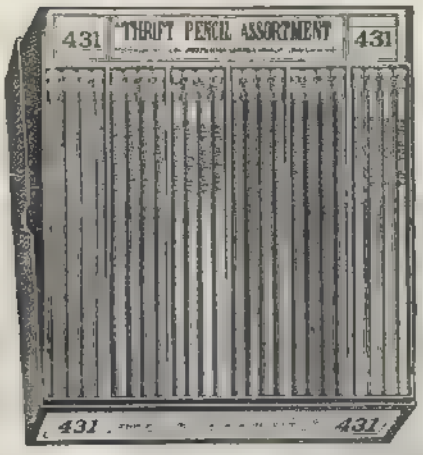
No. 538—7 in. Medium .....per gross $12.80

HALF GROSS IN A BOX. W'T PER GROSS 5 LBS.



No. 469—Dixon's, assortment contains three dozen best selling 7 in. pencils, assorted colors and widths, hard and very hard lead, oval and flat with beveled edges, w't per asst. 21 oz. .....per assortment $3.00

PENCIL ASSORTMENT



An attractive display occupying little space in window or show case.

No. 431—"Thrift" assortment contains ½ gross rubber tipped pencils, 3 dozen each round and hexagon; yellow, red, green and light blue finishes, in a handsome gray box with bright golden yellow trim, w't per asst. 1½ lbs., per assortment $3.20

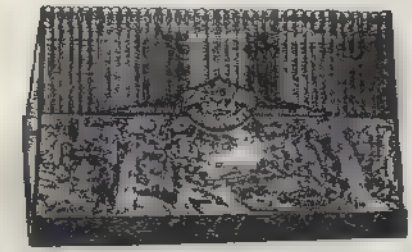
MOVIE LEAD PENCIL ASSORTMENT

No. 435—Three dozen lead pencils, all No. 2 lead, assorted colors, mounted on a mission stained wooden base, w't per assortment 1 lb., per assortment $2.70

Revolving six-sided cardboard holder.

ONE IN A BOX

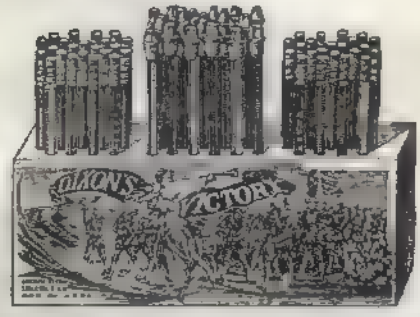
DIXON'S PENCIL ASSORTMENT



No. 1244—This assortment consists of six dozen lead pencils, one dozen each of six kinds, all No. 2 lead, assorted colors, hexagon and round shapes, gold stamp, red and white rubber tips, w't per assortment 1½ lbs., per assortment $4.90

ONE ASSORTMENT IN AN EASEL DISPLAY BOX

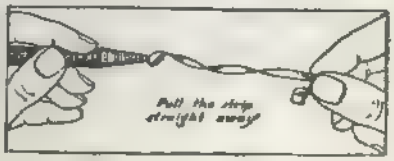
VICTORY ASSORTMENT



No. 434—Assortment consists of 6 dozen No. 2 Lead Pencils, assorted colors with red and white rubber tips, w't per asst 1½ lbs. .....per assortment $4.80

ONE ASSORTMENT IN A DISPLAY BOX

H.S.B.&Co. MERCHANTS' MARKING PENCILS



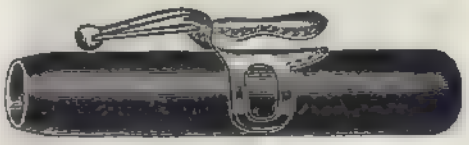
H. S. B. & Co.'s H.S.B.&Co. Merchants', paper covered, for marking glassware, chinaware, tinware and cutlery, to sharpen simply unwind paper.

No. 130—Large lead .....per gross $32.40
No. 230—Extra large lead .....per gross 32.40

HALF GROSS IN A BOX. W'T 2¼ LBS.

PEERLESS SAFETY PEN AND PENCIL CLIPS

No. 1.



No. 2.

Highly polished nickel, improved lever movement, will not break or come apart, made in two sizes.

No. 1—Fits any lead pencil .....per card $2.00
No. 2—Fits any fountain pen cap ....per card 2.00

THREE DOZEN ON A CARD. PUT UP SEPARATELY FOR PENS OR PENCILS

RUBBER PENCIL TIPS

Easily attached, most convenient on the market. Fits all round and hexagon pencils.

No. 450—Red Rubber, w't per gro. ⅛ lb., per gross $2.00

ONE GROSS IN A BOX

ANTI-RATTLERS STEERING COLUMN BRACES, OIL GAUGES

ANTI-RATTLING BALL SOCKETS
For Radius Rod

Designed for adjusting end of radius rods which terminate in a ball socket at front of transmission case; takes up lost motion at this joint; screw adjustment to take up wear; baked black enamel finish.

No. 27 Anti-Rattling Ball Socket ..... Pair $0 40

ANTI-RATTLING BALL SOCKETS
For Steering Rod

Designed to take up wear on ends of steering gear connecting rod. Has screw adjustment to take up wear; one required on each end; baked black enamel finish.

No. 51—Anti-Rattling Ball Socket..... Pair $0 40

BRAKE ROD SUPPORTS

Automatic adjustment; brake rod slides between two steel balls; permits brakes to be operated with minimum effort, applied in two minutes; housing of malleable casting, japanned black enamel finish

Brake Rod Supports. .. .. Pair $0 50

LITTLE GIANT ANTI-RATTLERS
For Fords

Entirely stops the annoying rattle of steering rods; adds two-thirds to life of steering rod bearings by removing vibration. A counter display card with an extra pair of Little Giants showing installation furnished free with each order for 1 dozen pairs of Little Giants. Made of tempered spring steel wire.

Little Giant Anti-Rattlers . ..Pair $0 75

BABY GIANT ANTI-RATTLERS
For All Cars

Identical with Little Giants only smaller, designed for brake rod joints; eliminates wear on clevises and pins. Ford cars require 4 to set; all other cars require 8.

Baby Giant Anti-Rattlers .... set of 4 $0 50

FAN BELT GUIDE
For Fords

This device prevents coming off pulley. Belt is held in position by two fingers. Guide is attached to an engine bolt.

Fan Belt Guide. .... Each $0 25

STEERING COLUMN BRACES
For Fords

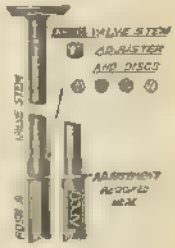
Eliminates all vibration, at the same time makes the steering gear as solid as a rock; finished in black enamel and [illegible] complete with screws, will [illegible] 1915 to 1922, inclusive.

Steering Column Brace ..... Each $1 00

VALVE STEM ADJUSTERS

Consist of hardened caps and a quantity of very thin hardened steel discs. To apply adjusters all that is necessary is to raise valve slightly, slip an adjuster on the end and if this is not sufficient put enough discs in cap to reduce the play to the thickness of a piece of newspaper. Set consists of eight adjusters and a quantity of discs.

Apco Valve Stem Adjusters ..... Per set $0 20



METAL OIL GAUGE
For Fords

A very well made, all metal oil gauge. Stones thrown about by the wheels will not break it.

Cork float inside carries a rod topped with a white ball, which always indicates the level of the oil in crank case

Grease and dust have no effect on this gauge. The ball can readily be seen any time, even at night.

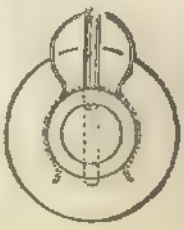
Metal Oil Gauge ...Each $0 75

NON-BREAKABLE OIL GAUGE

This Oil Gauge has a natural downward [illegible] of large diameter, which positively eliminates clogging, and being of solid construction, it cannot come apart from vibration. This type of gauge is becoming standard, and is rapidly replacing the old style cheap gauges

Non-Breakable Oil Gauge ... Each $1 00

JIFFY CRANK RATCHET PIN
For Fords

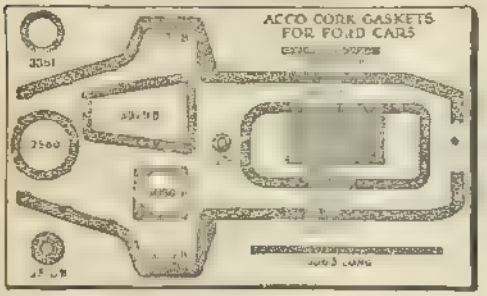


When a crank ratchet pin requires replacement it takes two men about one-half hour to put in a new one and rivet it in place. The Jiffy Ratchet Pin slips into place and a steel spring which comes already riveted to the pin clamps around the shaft and holds it. The pin slips in as easily as you would stick a pin through a piece of paper. Will not work loose

Jiffy Crank Ratchet Pin Each $0 25

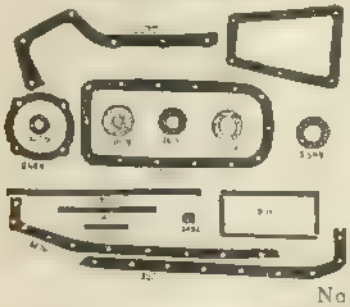
REPAIRS AND ACCESSORIES FOR FORD CARS

CORK GASKETS



Gasket No.	Name of Gasket	Price Per 100
2510B	Axle Housing Ball Bearing	$ 1 00
2580	Universal Ball Cap	4 75
3070B	Crank Case and Cylinder, Left	4 50
3071B	Crank Case and Cylinder, Right	4 50
3102B	Crank Case Cover	9 00
3111B	Cylinder Door	3.75
3279	Magneto Contact Washer	1 13
3363	Trans. Cover Strip Short	.71
3363	Trans. Cover Strip, Long	1 42
3377B	Trans. Cover	6 00
3379B	Trans. Cover Door	6 00
3381	Bendix Cover Gasket	3 00
5056	Motor Mounting Bracket Gasket	3 00
Complete Sets		Per set $0 60

FELT GASKETS



No.	Parts	No Required for Car	Price
3363	Trans. Cover Strip, 15½"	1	$0 .5
3363	Trans. Cover Strip, 3½"	1	05
3363	Trans. Cover Strip, 7½"	1	05
3111	Cylinder Door	2	05
3451	Controller Shaft Bracket	2	01
2580	Universal Ball Cap	1	05
3279	Magneto Contact Washer	1	03
3366	Trans. Cover Door	1	15
3177	Commutator Ring	1	03
2809	Front Wheel Hub	2	05
3012	Crank Shaft	1	05
3544	Steering Bracket	1	0[illegible]
3377	Trans. Cover	1 Pr	20
3070	Crank Case and Cylinder (left)	1	10
3071	Crank Case and Cylinder (right)	1	10
3102	Crank Case Cover	1	15
3379	Trans. Cover Door	1	10

FELT GASKET SET

Containing one complete set of felt gaskets and washers for Ford Cars

Felt Gasket Set ..... Each $0 75

FELT WASHER SET

Containing one complete set of felt washers for Ford Wheels.

Felt Washer Set ..... Each $0 25

C. & M. OIL RETAINERS

Applying Tool

Oil Retainers

Manufactured with one intention—to stop and continually prevent the oil leak from the rear end or differential of all Ford Cars.

In the manufacture leather is used almost exclusively; this feature alone assures you that it cannot become supersaturated, spongy and limp, as felt packing does.

Another feature we wish to call your attention to is our means of holding oil on the outside diameter; this is done by means of **cold soldering,** or, as we might say, **lead expansion,** which is performed by means of the application tool as shown below; this expansion of the lead fills in all the pores of the iron housing, keeps the retainer from revolving with the axle, and performs what is known as a lead joint, making the retainer on the outside diameter absolutely leak proof.

The pressure exerted around the axle due to the two coil springs on the boot of the oil retainer; these springs **keep a constant tension on the shaft, just enough to hold back any oil that tries to get by.**

Full instructions packed with each set

Oil Retainers, regular ..... Set $1.00
Applying Tool, regular ..... Each 2.00
Oil Retainers, truck size ..... Set 1.50
Applying Tool, truck size ..... Each 2.50

EMCO GREASE RETAINERS

Emco Grease Retainers in position on rear axles. Arrows show how grease is kept moving constantly toward differential.

Two centrifugal coiled springs that cure a great evil They keep oil and grease from dripping out of axle ends thus keeping brakes free from oil and preventing tire damage

They save money and trouble and cure unsightly waste of lubricant.

They insure longer life to the differential gears.

Easily applied and require no attention or upkeep.

Emco Grease Retainers. ..... Pair $0 50

EXHAUST DEFLECTOR

It is especially desirable for deflecting oil, heat or smoke from spare tires when carried in rear

No. 17 -For 1917 and previous models. ..... Each $0 25
No. 18—For 1918 and 19 models ..... Each .25
No. 20 —Ford 1920 and later models ..... Each .30

CLOCKS, RADIATOR CAPS, MIRRORS

KEYLESS AUTO CLOCK

Flush type run wind and and run set 8-day movement, a very accurate timepiece as well as ornamental; dial 2¼ inches diameter.

No. 12B Clock; Brass and Nickel) Each $11 50

No. 12B Clock; with luminous dial ..Each 13 50

DENVER CLOCK

Eight-day, flush type, key wind; dial 2⅝ inch diameter; finished in nickel. Winding and setting stem on back of movement set in base; held in position by Ediswan type lock joint

Denver Clock . . . . ..Each $7 50

FRISCO COWL CLOCKS

One day clock of Cowl type; dial 2½ inches; winding stem is concealed.

Frisco Cowl Clock. Each $5.50

RADIATOR CAPS

Are impervious to weather conditions and resistant to heat encountered in use. Will retain their high polish and [illegible]

Make of Car They Fit	Each
1—Dodge—Maxwell 18, 19, 20—Maxwell Chassis	$1 00
3—Chevrolet 490—Maxwell, prior to 1918	75
4—Allen—Anderson Six, 1918—Auburn—Crow-Elkhart—Elcar—Hupp "N" 1916, 1917—Pullman	1 00
5—King prior to 1919—Oldsmobile	1 00
6—Allen 1919—Chandler—Cole—Davis—King 1919—McFarlan Six—Paige—Pierce Arrow 14, 15, 16—Standard Eight 1920—Stearns Knight—Paige Gas Tank	1 25
7—Case—Cunningham—Haynes—Jordan—Lexington—Marmon Six—Mitchell—Moon—Pierce Arrow 13, 17, 18, 19, 20—Stearns Knight Eight—Studebaker Light—Stevens—Stutz—White—Winton	1 25
8—Chevrolet Baby Grand—Dort—Essex—Grant—Hudson—Jackson—Patterson	1 25
9—Auburn Six 1920—Elcar.	1 50
11—Buick—Nash—Oakland—Marmon.	1.00
13—Cadillac.	1 50
14—Reo—Also Reo Gas Tank.	1 50
15—Cleveland—Studebaker.	1 00
16—Chalmers	1 50
17—Hammobile '18, '19, '20.	1 50

RADIATOR CAPS

For Fords

Bar Type

No. 55 — No. 58

No. 55 is an all-metal cap with a rubberized finish

No. 55 Radiator Cap [illegible] $

No. [illegible] is a high grade cap having brass cast and [illegible] composition cap that is not affected by heat or cold. Diameter [illegible]

No. 58 Radiator Cap . . . . . Each $

Bar Type Cap is made of Die Cast Aluminite machined to fit Ford radiators. There is no hole in cap, but indentation is made in the center of cap, allowing metal disc to be removed by blow of hammer, thereby accommodating Motometer or ornament.

Bar Type Radiator Cap . . . . . Each $

PROTEX-A-METER

A Universal Bar [illegible] brass with a high grade lock. Solid Brass [illegible] heavily Nickel-Plated. If Motor Meter is to be installed simply drive out disc in center of cap.

No. 1 Protex-a-Meter with adapter for all cars with [illegible] Radiator Necks outside diameter not over 2⅝ in. Each $5 00

No. 3—Protex-a-Meter; (Ford special) Each 3 75

REARVU MIRROR

FRONT VIEW

Type A Bracket

Type B Bracket

Reflects clearly rear conditions at rear, enabling driver to keep eyes ahead instead of constantly converging vision for driver with windshield open. Bevel plate glass mirror 10x2¾ inches.

Type A Rearvu Mirror (for closed cars) Each $3 50

Type B Rearvu Mirror [illegible] cars Each 3 50

WINDSHIELD WEATHERSTRIP

No. 137

No. 136 -Standard; 42 inches. Each $0 75

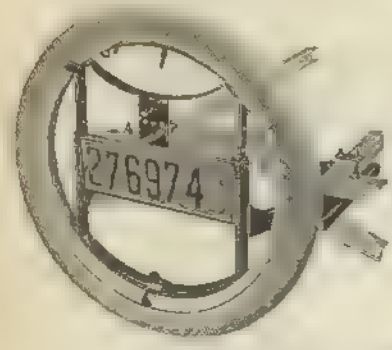
No. 137 — Ford Type; 37" Each .75

No. 108 T-Shapes; Fits [illegible] bottom [illegible] windshields to close up space between windshield and dash. 1¼ in. wide. . . . .ft. $0 25

No. 136

TIRE CARRIERS AND RIM TOOLS

REAR TIRE CARRIER



Attached with brackets, amply strong to carry one or two casings and rims. Casings are very easily removed or mounted.

No. 53SL for 1 Tire
Each $4 50

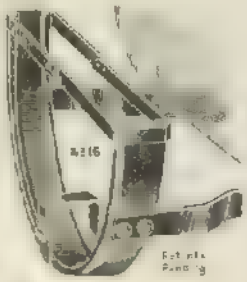
No. 54SL for 2 Tires
Each . 6 50

REAR TIRE CARRIER

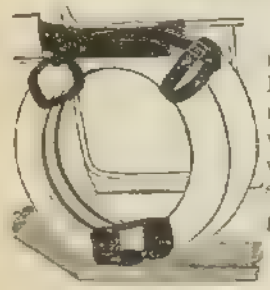
Of cradle type construction, supplied for either one or two tires Best carrier of this type on the market

No. 16—Simplex Carrier for One 3½-inch Tire . Each $4 00

No. 16—Duplex Carrier for Two 3½-inch Tires Each 6 00



SIDE SEAT HOLDER

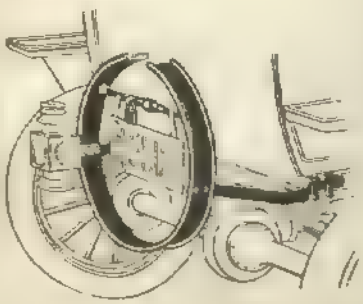


Secured to body at upper end by means of windshield bracket bolts Lower bracket is held in position by means of two bolts which are provided Will carry one or two tires which are held in place by strong straps.

No. 10—Side Tire Holder,
For Fords. . . . . Each $3 50

REAR TIRE HOLDER

Quickly adjusted for tires or demountable rims; combines place for lamp, number plate, lock and tire holder by expansion grip on inside of tire avoids all contact or chafing; adjustable for 30x3 30x3½ and 31x4 casing or on a demountable rim; spring locks them by expansion; quickly attached to frame without drilling or bolting..



No. 150 Tire Holder . Each $4 50

SPRING STEEL TIRE TOOLS

Well made of ¾x1¼ inch Spring Steel, 14 inches long.
Spring Steel Tire Tool . Each $0 40

ERP SPARE RIM CARRIER

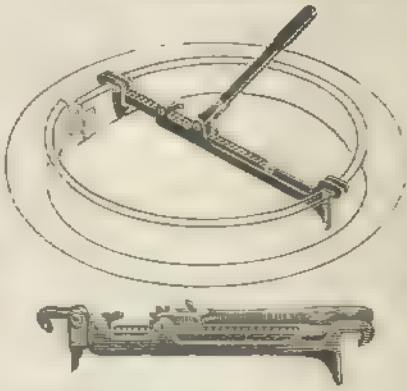
Comprises 3 brackets as shown in illustration Can be attached to any felloe band carrier whereby an additional spare tire may be carried

No straps, no rattles or chafing.

In ordering specify size of rim

Erp Spare Rim Carrier, All Size Each $3 50

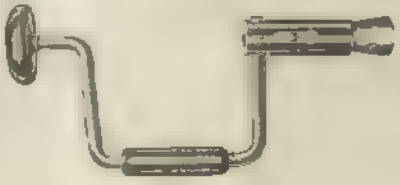
NOR WS CO. RIM TOOL



Universally fits all sizes and makes of split rims. Made of high quality malleable iron. will not break or get out of order Is suitable for small garage, service car, or individual car owner. Is a perfect and practical tire tool

Nor-Ws Co. Tire Tool . . . . . Each $6 00

UNIVERSAL RIM WRENCH



Utility

One size automatically fits all nuts on every demountable rim. Is an especially valuable tool for garages and service stations as well asas motorists; Black enamel finish
Utility Rim Wrench . . . . . Each $1.75

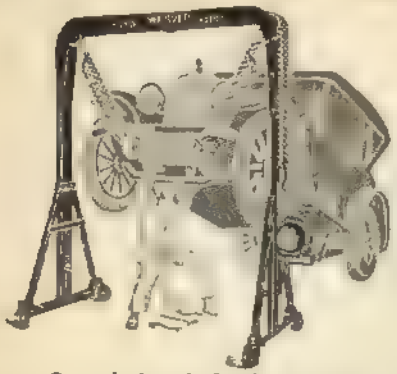
ADJUSTABLE RIM WEDGE SHIMS

Three Shims in One

It can be adjusted in one minute to one, two or three thicknesses as may be required to stop the squeaking of the rim and keep the wheel true. Will conform to all kinds and sizes of rim lugs. Goes on the bolt with lug and cannot loosen off.

Rim Wedge Shims.. . . . . Per dozen $1 50

Weaver Auto Hoists



Single or Double Suspension, Safety, Worm Hoist, Ball and Roller Bearing Casters

The frame of the Weaver Auto Hoist is designed so as to permit the height of the arch to to be increased approximately 12 inches, allowing the uprights to be raised to the desired height in the braces on either side by means of the chain hoist. This increased height enables the hoist to raise the rear end of the limousine or a touring car with the top up, for removing the rear system.

One chain of the hoist may be carried over the pulley in the center of the frame for performing work which can be handled to better advantage by a single suspension than by a double suspension from each corner of the frame, as shown in preceding illustration.

The hoisting mechanism is operated by worm drive which is absolutely safe and positive. There are no gears nor ratchets to slip or break and allow the load to fall.

Weaver Auto Hoist is carried upon four ball and roller bearing casters 5 in. in diameter which permit it to be transported with perfect ease. The construction throughout is of steel, giving the greatest possible strength in comparison with its weight. Height 8 ft. to 9 ft. Shipping weight 500 lbs.

Complete . . . . . each, $135.00

Continental Piston Aligning Devices

The Continental Aligning Device overcomes all the difficulties encountered in attempting to align pistons.

In actual operation the lower connecting rod bearing is clamped around the correct size bushing, as it is fitted to the crankshaft, and this bushing is placed on the standard sized arbor of the machine. The movable disc is then moved out against the side of the piston and firmly clamped in position by use of the locking screw just back of the disc. The test is then made by ascertaining if the piston lines up exactly with the plate.

There is no danger of scoring the lower bearing in this operation as the bushing turns on the arbor instead of the bearing itself turning.

The machine is well built, all parts are high grade and accurate.

Every outfit is equipped with an arbor and one bushing. A two inch bushing will be furnished unless otherwise stated.

No. 32 Piston Device.....each, $75.00

Canedy-Otto Portable Floor Cranes

With this crane auto repair and machine shops can do away with an overhead travelling crane or chain blocks.

It is suitable for all kinds of heavy lifting.

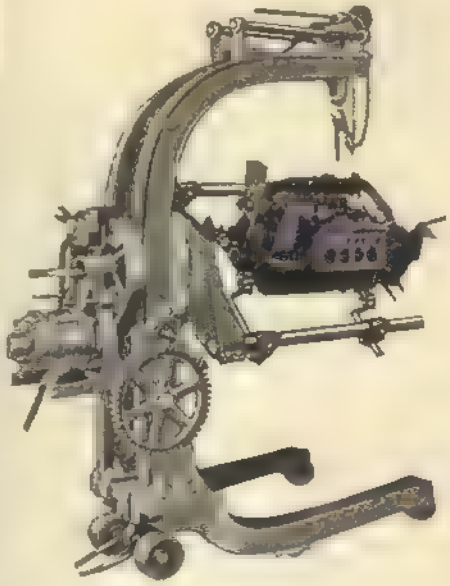
Combines strength and capacity, will wear a long time, easy to pull and does the work of a half dozen men.

Built of high grade materials throughout and will soon pay for themselves in labor saved.

No.	1	2	3
Height	6'	6'4½"	7'4"
Height Hoist	4'11"	5'3½"	6'3"
Overhang	2'3"	2'6"	2'8"
Inside Width Bed	1'9½"	2'½"	2'3"
Outside Width Bed	2'5"	2'6"	2'8"
Length Bed	3'1½"	3'2½"	3'6"
Height Bed	11¾"	11¾"	11¾"
Net Weight	680 lbs.	770 lbs.	840 lbs.
Lifting Capacity	1 ton	2 ton	3½ ton
Each	$		

Prices on application

Eco Universal Motor Handling Machines



This machine is especially constructed to handle any motor without the use of special bolts or blocking as the patented universal clamping heads adjust themselves to any position or shape.

With this machine one man can remove from the chassis of any car, truck or tractor, any engine regardless of make or size, clamp it in the engine stand complete with transmission and carburetor on and start up and run the engine in the stand.

The engine can be revolved completely in either direction permitting the workman to get at the engine from every angle.

The motor can be held in any desired position and there is nothing in the way to impede the progress of the work.

With the use of two hooks which are part of the standard equipment this machine will also handle the rear axle of a car for all repair work.

Crane is made of semi-steel strongly reinforced in every point and capable of lifting 2500 lbs. with perfect safety. Load is lifted by a crank on gear shaft and can be locked at any point. Has travel of 24 inches.

Burning-in attachment which is part of the standard equipment is detachable for use for portable floor jobs.

No. U100 Machine complete with 3 phase A. C. motor.....$750.00
No. U101 Machine complete without burning-in attachment 475.00
No. U102 Machine complete without crane 600.00
No. U104 Burning-in attachment only 275.00
No. U105 Stand only 325.00
Single phase motor.....extra, 75.00
D. C. motor .....extra, 65.00

Continental Engine Stands for Fords

Every stand is provided with strong double-wheel casters and can be readily turned to any position to get the best light on such parts as need attention. The stand, together with the motor, may be moved from place to place with ease.

This is the only stand on the market in which you can fasten a complete Ford unit power plant direct to the stand and tear down or rebuild the unit power plant without changing the stand.

This Ford attachment securely clamps the cylinder block to the arm brackets of the motor stand.

Stand is adjustable in height from 32 to 37 in., adjustable in width from nothing to 35 in.

Ford Stand $34.00

Continental Engine Stands

A very necessary equipment for any garage or repair shop that desires to keep operating costs at a minimum. It will hold in a rigid position all kinds of motors, from the Ford to the very largest.

Specifications

Model	10
Over all length, fully extended in	48
Width, in.	35
Extreme height, in	87
Minimum height, in	32
Length of side rails, in.	48
Width adjustment, in.	0 to 35
Each	$48.00
Universal side rails	7.50

Canedy-Otto Universal Motor Stands

Designed to meet all conditions. Meets every requirement of motor building and assembling. Handles all kinds of motors.

Stand is well braced, supported and portable. Motor can be adjusted to and fastened in any desired position.

Is adjustable to 36 in. in width. Cross bars do not have to be lifted while placing motor on stand. Frame will accommodate both high and low base portable floor crane.

The Ford attachment clamps to cylinder block with brackets giving the mechanic free working space to remove all parts. Can be adjusted to any position required by nature of the work to be done.

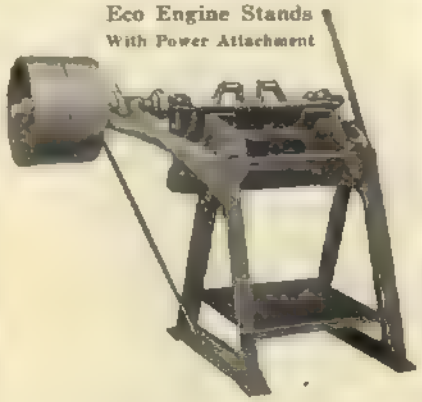
Length of side rails, 48 in. Extreme height of stand, 39 in. Weight of stand, 220 lbs. With Ford attachment, 240 lbs.

Universal Motor Stand, complete with Ford attachment.....each, $53.60

Universal Motor Stand, without Ford attachment.....each, 51.00

Eco Engine Stands

With Power Attachment



A sturdy convenient stand to hold the Ford engine block while repairing. Made of cast iron with adjustable table so work may be turned to desired position.

Power attachment may be attached which with the stand makes a complete outfit for burning-in crank shaft bearings, running-in of pistons, etc. Stand is bolted to floor and may be used independently of power attachment.

Stand and attachment, single pulley	$62.50
With shifting lever	45.00
With tight and loose pulleys	46.50
With tight and loose pulley and shifting lever	49.00

Canedy-Otto Jr. Motor Stands

Designed especially for Ford and Chevrolet motors. This stand permits the entire power plant, after being removed from the chassis, to be securely fastened by means of a yoke and spindle in less than thirty seconds.

Is so constructed that all valves are easily accessible to the mechanic a feature not found in other motor stands of its type.

The motor may be completely revolved and can be held in any desired position by means of a friction stop, located on top in easy reach of the operator.

Motor is held on stand by a special yoke and spindle fastened securely by nut and washer. Base of stationary stand is drilled for bolting to floor.

	Portable	Stationary
Floor space, in.	26x26	10x10
Height, in.	34	30
Net weight, lb	140	120
Shipping weight, lb	160	140
Each	$35.00	33.00

Canedy-Otto Bench Motor Supports

Designed for attachment to the shop bench where there is insufficient room for a complete motor stand.

Will accommodate complete power plant of Ford and Chevrolet motors.

Motor securely fastened in a few seconds after removing from chassis and can be completely revolved, allowing access to any part. Friction stop located on top of support holds motor in any desired position.

This is a very practical and efficient substitute for the complete motor stand where space does not permit use of the stand.

Each $10.00

AUTO-STROP SAFETY RAZORS

Black leather case, velvet lined; contains silver plated self stropping Auto Strop Safety Razor, 12 Auto Strop Blades, selected leather strop, fine quality collapsible lather brush, shaving stick in silverplated tube. Measures 3¾x4¼x2¼ in. when closed.

No. 15—W't per doz. 11½ lbs., per dozen *$90.00*

ONE IN A BOX

Morocco grain black leather case, size 5¼x4x2¼ in., lined with purple velvet; contains silver plated self-stropping auto-strop safety razor, twelve blades, shell horse-hide strop, Colgate shaving stick and fine quality "Rubberset" lather brush in silver plated tubes.

No. 25—Per dozen *$102.00*

ONE IN A BOX

AUTO-STROP SAFETY RAZORS

Prices on Application

Flexible black leather case, leather lined, one No. 50 Auto Strop Razor complete in nickel plated case, containing silver plated self-stropping razor, 12 blades. Selected leather strop, fine quality lather brush in silver plated tube, stick of shaving soap in silver plated tube, 2¼x4 in. unbreakable metal mirror. Measures 4¾x5¼x1¾ in. when closed.

No. 27—W't per doz. 17 lbs., per dozen *$120.00*

ONE IN A BOX

AUTOSTROP SAFETY RAZOR BLADES

Each full package of blades guaranteed to give 500 shaves.

No. 610—10 blades in a waxed paper sealed package, per dozen packages *$12.00*

No. 610½—5 blades in a waxed paper sealed package, per dozen packages *$6.00*

NO. 610½, TWO DOZEN; NO. 610, ONE DOZEN PACKAGES IN A CARTON. WE DO NOT BREAK CARTONS.

AUTOSTROP RAZOR STROPS

No. 620—First quality horschide, 12¼x1¾ in. .....per dozen *$6.00*

ONE IN A BOX; ONE DOZEN IN A CARTON

Our Very Best is the Very Best.

GEM SAFETY RAZORS

No. 70—The Gem Damaskeene Razor is unequalled for simplicity of construction, uniform quality of blades, compactness of package and attractiveness. Consists of Gem Damaskeene frame, handle and 6 Damaskeene blades, complete in velvet-lined leatherette case, size 3¾x1¾x2¾ inches when closed, w't per doz. 4 lbs. ...per dozen *$12.00*

ONE DOZEN IN A CARTON

Contains Gold (triple-plated) Gem Razor Frame with Ivorite handy grip handle, two gold-plated blade containers, with five Gem Blades in each. Complete in 1¾x4½x2¾ in. genuine leather case with slide catch fastener. Purple velvet and Plush lined with bronze insignia, a handsome and aristocratic outfit.

No. 250—Per dozen *$80.00*

ONE IN A BOX

GREATEST VALUES IN THE HISTORY OF SAFETY RAZORS

NEW IMPROVED GEM SAFETY RAZORS TO RETAIL AT $1.00

ORIGINALLY INTENDED FOR $3.00 SELLERS

We have been fortunate to secure a quantity of these Big Bargain sets and offer them for the next 90 days at the special prices and conditions outlined in price column.

Peerless—Improved style, contains triple nickel plated razor with new fluted solid handle, improved nickel plated blade sheath, containing 5 Gem Damaskeene blades, complete in 3¼×2×1⅛ in. heavily nickel plated and highly polished metal case, with dome top and ingenious spring catch. Rich purple velvet and satin lined, with embossed art insignia .....per dozen **$18.00**

ONE IN A BOX IN A FLANNEL BAG

Triumph—Improved model, vest pocket size, contains triple nickel plated razor with new fluted solid handle, improved nickel plated blade sheath containing 5 Gem Damaskeene blades. Complete in 3×2¼×⅝ in engine turned, heavily nickel plated and highly polished metal case with ingenious spring catch. Rich purple velvet and satin lined with embossed art insignia, per dozen **$18.00**

ONE IN A BOX IN A FLANNEL BAG

Winner—Improved style, flat model, contains triple nickel plated razor with new fluted solid handle, improved nickel plated blade sheath, containing 5 Gem Damaskeene blades. Complete in 3¼×2¼×1¼ in. rich black leatherette case with glove snap fastener. Rich purple velvet and satin lined with embossed art insignia .....per dozen **$18.00**

ONE IN A BOX

Conqueror—Improved model, contains triple nickel plated razor with new fluted, solid handle, improved nickel plated blade sheath containing 5 Gem Damaskeene blades, complete in 3⅝×2¼×1 9/16 in. mahogany finish art wood case with embossed art insignia .....per dozen **$18.00**

ONE IN A BOX

Victor—Improved style, contains triple nickel plated razor with new fluted solid handle, improved nickel plated blade sheath, containing 5 Gem Damaskeene blades. Complete in 4¼×2¼×1¾ in. pigskin finish tan leatherette case, with glove snap fastener. Rich purple velvet and satin lined, with embossed art insignia .....per dozen **$18.00**

ONE IN A BOX

Supreme—Improved model, vest pocket size, contains triple nickel plated razor with new fluted solid handle, improved nickel plated blade sheath, containing 5 Gem Damaskeene blades. Complete in 3×2¼×⅝ in. sanitary, all white American Ivory case, with embossed art insignia .....per dozen **$18.00**

ONE IN A BOX

TIMERS, WIRING ASSEMBLIES

MILWAUKEE TIMERS

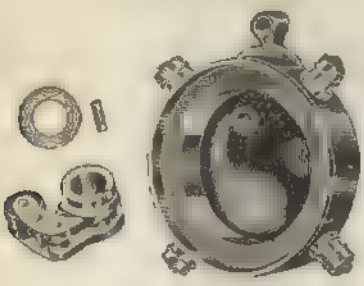
No. FT-18

Designed especially for Model "T" Ford; will fit all Fords from 1912 to 1922, also fits Fordson Tractor; case one-piece steel stamping, fitted with high-grade Egyptian gray fibre insulating rings; carefully machined brush assembly; roller bears squarely on contacts insuring a hot correctly timed spark; springs of high grade piano wire; equipped with convenient self-locking cup, integral with timer case

No. FT18—Milwaukee Timers; with terminal nuts and oil cups; wgt 1 lb. . . . . Each $2 00

No. FT19—Brush Assembly Only; wgt. 4 oz.. Each .76

J & B FORD TIMER



Model T-1

For Model "T" Ford; will fit all models from 1912 to 1922, case of one-piece cup-proof steel stamping; roller of special formula alloy steel, carefully treated and polished; patented shaft insures even contact of roller on race; piano wire spring of compression principle; high-grade hard fibre insulating ring

Model T-1—J & B Ford Timer; complete wgt. 1 lb. . . . . Each $1 65

J & B Timer Rotor; wgt. 4 oz. . . . Each .70

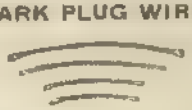
J & B TRACTOR TIMER

Of same design and careful workmanship as regular J & B Ford Timer, but built on a heavier principle to supply strength and durability required

Model T-3 — J & B Tractor Timer; complete wgt. 2 lbs Each $2 25

J & B Timer Rotor; wgt. 4 oz. . . . . Each 50

SPARK PLUG WIRES



Spark Plug Wires; per set . . . . . Set $0 40

Spark Plug Wires; (No. 1). . . . . Each 12

Spark Plug Wires; (No. 2). . . . . Each 10

Spark Plug Wires; (No. 3). . . . . Each 08

Spark Plug Wires; (No. 4). . . . . Each 08

Magneto to Coil Box Wire. . . . . Each 10

DUNTLEY MAGNETO BREAK TIMER

Makes car start easily in all weathers; contact is positive; ignition synchronizes perfectly; timing of ignition with engine is regular and continuous; maintains itself at all speeds; timing is positive on all cylinders; requires no oiling; points are of tungsten and are practically indestructible rollers are of fibre and will withstand wear indefinitely.

Duntley Magneto Break Timer; wgt. 1¼ lb. Each $5 00

One in box. First class freight.

TIMER WIRING ASSEMBLIES

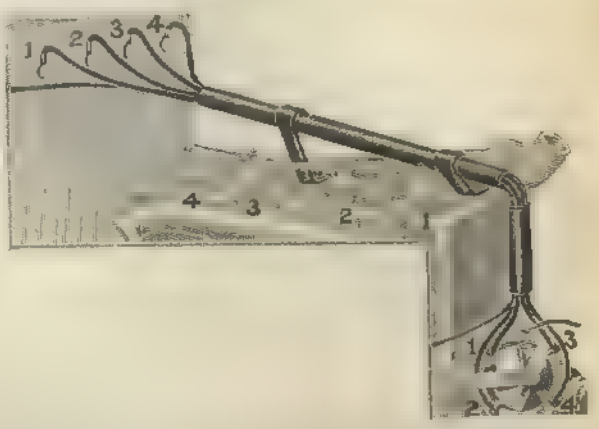
All sets are made up of fine stranded copper wire; covered with high-grade rubber insulation; protected by heavy braided cover.

No. 1—Timer Wire Assembly; 5-Wire Ford. . . Each $0 65

No. 2—Timer Wire Assembly; 6-wire Ford. . Each 70

No. 3—Timer Wire Assembly: Fordson. . Each 45

OVERHEAD WIRING ASSEMBLY



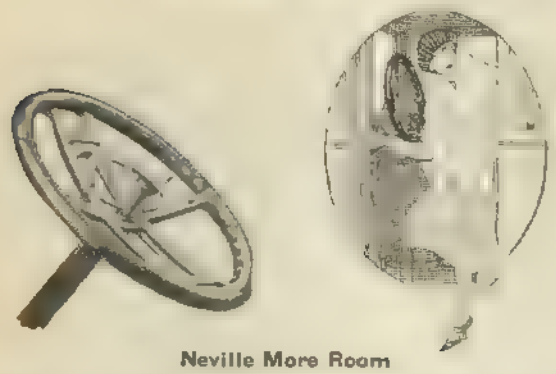
Lasts longer as it keeps wires away from fan belts, grease drippings and water; wires can be replaced individually; consists of five heavy different colored wires enclosed in fibre tubing, fastened with two brackets to cylinder head cap screws; is high, dry and clean.

No. 4—Overhead Wiring Assembly; 5-wire. . . Each $2 50

No. 5—Overhead Wiring Assembly; 6 wire. . . Each 2 65

AUTOMOBILE EQUIPMENT

STEERING WHEELS

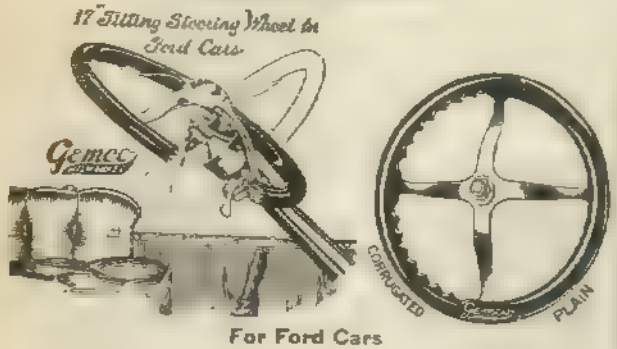


Neville More Room

Slides up out of the way—gives eight inches more room—in front of the driver's seat where it counts most. Instead of an almost impossible slide and twist, the driver conveniently **walks** in and out of the car. The Neville is a large, handsome wheel of black walnut and polished aluminum. Adds as much in appearance as it does in convenience. In ordering specify year, make and model car wheel is desired for

17-in. Neville wheels for Ford cars $12 50
17-in. Neville wheels for other makes of cars 13 50
18-in. Neville wheels for other makes of cars..... 15 00

STEERING WHEELS



For Ford Cars

Supplied in two ways, stationary and with tilting arrangement, which enables driver to raise wheel, making it very much easier to enter and leave car; fitted with either plain or corrugated rims.

No. 3018—Ford Steering Wheels. 17-in. stationary, corrugated walnut rim; malleable spider; wgt. 5½ lbs..... Each $4 75

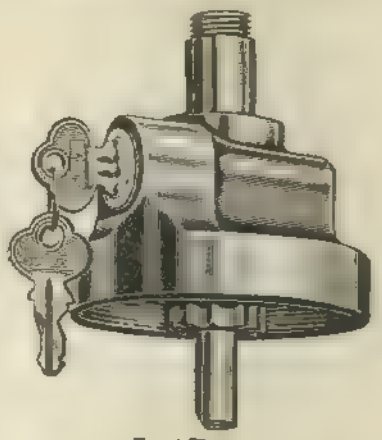
No. 3024 Ford Steering Wheels; 17-in. stationary, corrugated rim; aluminum spider; wgt. 5 lbs..... Each 6 25

No. 3020—Ford Steering Wheels; 17-in. tilting, corrugated walnut rim; malleable spider; wgt. 6¾ lbs.. ..... Each 8 00

FOR CHEVROLET "490" CARS

No. 3030—Chevrolet Steering Wheels; 17-in. stationary; corrugated black rim; wgt. 5½ lbs. Each 85 25

STEERING WHEEL LOCKS



Ford Type

The Simplex Auto Lock for Ford Cars locks front wheels rigid in straight ahead position, preventing steering and towing. Attached in fifteen minutes. Does not change construction of steering column. This is not a spinning wheel lock. Of heavy construction. No intricate parts to wear out.

Simplex Steering Wheel Lock (Ford). ..... Each $7 00
Simplex Steering Wheel Lock (Dodge). .... Each 8 00

Note—Lock for Dodge cars is of the spinning wheel type.

Simplex Locks have been approved by Underwriter's Laboratories

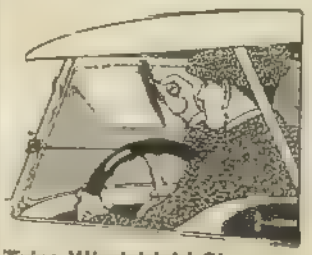
WINDSHIELD CLEANER

Eveready Automatic

Is operated by a small Vacuum Motor, connected to manifold of motor or vacuum tank by a small rubber tube. To operate simply turn valve and wiper swings back and forth across windshield, permitting driver an unobstructed vision. Works from suction of motor. Is very simple and can be attached in a jiffy by anyone.

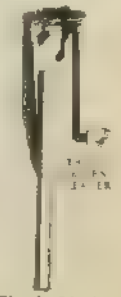
Eveready Windshield Cleaner ..... Each $7.50

WINDSHIELD CLEANER



Trico Windshield Cleaner. .... Each $2 00

Is attached either by clamp over top of windshield frame or by bolt thru windshield frame. Will fit open or closed cars



AMERICAN DOLLS—Continued

"ACME" BABIES

Well stuffed chubby bodies, composition heads and hands, painted features, hip and shoulder joints, position limbs, fine white lawn short baby dress, full skirt, wide lace trim yoke, neck, sleeves and bottom, lace trim cap, ribbon bloc, booties.

"NELKE" SOFT DOLLS

Nationally advertised, light weight, no pins or buttons, soft and cuddly, washable waterproof hand painted features and hair, attractive color, 1 pc. patented stockinette bodies, attached trade-mark tags.

What Shall We Do?

What shall we do in case we happen to be out of one or more Holiday numbers you order? Shall we send you "the nearest like it" so as to fill your order complete?

Our Selection Will Please

F7628—17 in., mohair wig, ribbon rosettes on cap. 1 in box. Each **$1.98**

F7630—18½ in., painted hair. 1 in box. Each **$2.00**

Girl and Clown Asst—8½ in., solid color girl with contrasting collar, 2 color clown with ruche neck, hose to match. F7885—Asstd 1 doz. in box. Doz. **$4.50**

Boy and Girl Asst — Solid color boy with sweater, girl with solid color dress, contrasting trim collar and belt, hat to match. F7886—12 in. Asstd ½ doz. in box. Doz **$9.00**
F7887—14½ in. Asstd ½ doz. in box. Doz. **$12.00**

"K & K" BISQUE HEAD DRESSED DOLLS

Fancy costume dolls at reasonable prices. Fine imported flesh tinted bisque heads and features, moving glass eyes, exposed teeth, tongue, asstd. blonde, tosca and brunette sewed curly mohair wigs, well stuffed bodies, hip and shoulder joints, composition hands, lace trim underwear, lace stockings, leatherette slippers. All with jointed kid lower limbs, flesh tinted, except F7631. Each tied in fancy green box.

F7631—14½ in., colored organdie dress with ruffle down center of skirt, contrasting collar with novelty of white on points, puff crown organdie hat with novelty stitching on wide brim, ruffled edge. Each, **$2.00**

F7632—17 in., white organdie dress lace trim collar, cuffs and bottom of skirt, blue ribbons, lace edged colored slip, large hat with wide flaring brim, ribbon rosette and lace trim. Each, **$3.40**

F7633—17 in., colored organdie dress with wide flaring contrasting collar, puff crown organdie bonnet with turnback and wide ruffle, wide tie strings. Each, **$3.40**

F7636—19½ in., real eyelashes, 2 pc. dress, solid color lawn overblouse with contrasting trim collar and cuffs, novelty striped skirting attached to lawn waist, large puff crown hat, black silk ribbon trim. Each **$5.00**

F7637—24 in., real eyelashes, white organdie party dress, cluster pin-tucked, lace trim overskirt with ribbon rosettes, wide lace trimmed sash and sleeves, lace edged colored slip, large white organdie hat, wide satin ribbon trimmed under chin. Each **$7.50**

F7635—24 in., real eyelashes, colored organdie dress, large contrasting collar, wide satin ribbon bow, 2 large pockets, shirred cuffs, extra large puff crown hat with ruffled edge and wide organdie sash and bow. Each **$9.00**

AVERILL'S "MADAM HENDREN" MAMA DOLLS

Nationally advertised and recognized as the best and most popular on the market. Sold by the best department stores, yet reasonably priced for all classes of trade. You will find the styles illustrated the most popular in demand. Highest priced numbers with facsimile gold medal.

Chubby bodies and limbs, stuffed with finest grade cotton, loosely jointed, composition hands, hands and forearms, painted features, excellent flesh finish. All with genuine Lloyd "Mama" voice, stockings, leatherette slippers.

With Painted Hair—Asstd color organdie dress with flowered lawn cuffs and deep band at bottom of skirt, lace trim square neck, lawn slip with elastic knees, puff crown bonnet to match. 1 in box.

F7584—18½ in. Each **$3.90**
F7585—21½ in., with medal. Each, **$5.75**

With Mohair Wig, Moving Eyes—Checked gingham dress with tie back sash, braid bound square neck and cuffs, lawn slip with elastic knees, puff crown bonnet to match, wide lawn tie strings. 1 in box.

F7593—16½ in. Each, **$3.90**

With Painted Hair, Rompers—Checked gingham rompers, braid bound neck and sleeves, white lawn puff crown cap with gingham cornback. 1 in box.

F7590—18½ in. Each, **$3.90**
F7591—21½ in., with medal. Each, **$5.50**

With Painted Hair, Romper Dress—Solid color poplin dress, braid bound square neck and sleeves, elastic at knees, cap to match with large puff crown. 1 in box.

F7595—18½ in. Each, **$3.90**
F7596—21½ in., with medal. Each, **$6.50**

With Painted Hair, Fancy Dressed White organdie dress with ace flounce, ribbon bow trim sleeves, lace edge slip with baby pin, cap, white French bonnet, lace front ribbon rosettes, tie string, lace trim lawn pantaloons, canton flannel diaper leather shoes. 1 in box.

F7578—10½ in. Each, **$3.50**
F7588—18½ in., with medal. Each, **$4.50**
F7589—21½ in., with medal. Each, **$5.50**

DOLL SPECIALS

IMPORTED BISQUE DOLLS

F9648 — 4½ in. flesh tinted body, painted hair, features, shoes and stockings. 1 doz. in box . . Dor. **40c**

F9653 — 5½ in. flesh tinted body, painted curly hair, features, shoes and stockings. ½ doz. in box.

F9653—6½ in. Doz. **$1.00**

F9657—7½ " " **1.10**

IMPORTED CELLULOID DOLLS

Standing position jointed arms. Bisque composition painted features and hair, red basket and head.

F9436—8½ in. 2 doz. in box Doz. **40c**

CELLULOID KEWPIES

Heavy celluloid bodies, painted features and hair, unbreakable, hollow feature weight bodies, jointed arms.

F7898 — 3 in. 1 doz. in box Doz. **68c**

IMPORTED CHINA LIMB DOLL

F9426—6½ in. china head, breast plate, forearms and legs, sawdust stuffed strong muslin body, painted features, hair and footwear 2 dz. in box Doz. **40c** (Total 80c)

TURNING HEAD CHINA LIMB DOLLS

Turning china head and breast plate, china forearms & legs, sawdust stuffed strong red muslin body, painted features, hair and footwear

Character Head — Regular expression

	Size	In box	Doz
F9365—	7½	1	**$0.85**
F9367—	10½	1	**2.00**
F9368—	12½	1	**2.25**

IMPORTED NOVELTY COMPOSITION DOLLS

Flesh tinted composition body, painted features, jointed arms. The smaller sizes can be used for favors.

F8320 With bellows voice, 8 in. flesh tinted composition body, painted features, jointed arms, bellows voice wing pressed down. 1 doz. in box Doz. **$2.15**

IMPORTED COMPOSITION BODY CHARACTER BABIES

Turning bisque heads, painted features, flesh tinted composition bodies, position limbs, hip and shoulder joints lace trim slips with ribbon bows.

F8310—9 in., painted hair ½ doz. in box Doz. **$2.25**

F8311 11½ in., painted hair ½ doz. in box Doz. **$5.26**

F8312—14 in., moving eyes, open mouth showing 2 teeth, short mohair baby wig. ½ doz. in box, Doz. **$7.25**

IMPORTED CHINA DOLL IN BATH TUB

F8787 — 1½ in., sitting detachable baby painted hair and features. 2½ in. white china tub, heavy rim. 1 doz. in box . . . . . Doz. **88c**

IMPORTED CHARACTER DOLLS

Turning bisque head, painted features, moving glass eyes, open mouth, hardened pressed paper body, matte finish, flesh tinted position limbs, hip and shoulder joints, lace and bow trim lawn cap, each in box

With Short Baby Wigs—Each in box . . . . . Doz. **$9.00**

F6261—12½ in. ½ doz. in box . . . . . Doz. **$13.50**

F6262—With sewed bobbed wigs, 13½ in., ribbon bow, chubby body 1 in box Each **$2.75**

IMPORTED "NEXT TO NATURE" BABIES

Turning genuine bisque head, painted features, real hair moving glass eyes, open mouth, hardened pressed paper body, matte finish, flesh tinted chubby position limbs, hip and shoulder joints, lace and bow trim lawn cap, each in box

F9230 11 in. ¼ doz. in pkg Doz **$6.00**

IMPORTED STANDING DRESSED CHARACTER DOLL

F6290—13 in., turning bisque head, painted features, baby expression, moving glass eyes, with real eyelashes, open mouth, tongue and protector molded wide, bisque hardened pressed paper body, matte finish, flesh tinted chubby position limbs, hip and shoulder joints, blue lawn dress insertion and lace trim skirt and collar, lace edged cuff. Each in lace trim box.

Each, **$2.25**

IMPORTED "BABY BUD" BISQUE DOLLS

Unique dolls that will sell fast at the price you can name.

Fine flesh tinted bisque, painted features, moulah eyes, capseed lorgnes, short chips, movable position arms which give different expressions at each pose, each in box

F9607—5½ in. ½ doz. in pkg. Doz **$1.15**

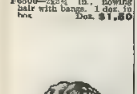
F9608—6¼ in. ½ doz. in pkg. Doz. **$2.10**

DOLL HEADS

DRESSES AND TOILET SETS

IMPORTED BISQUE DOLL HEADS

Flesh tinted bisque, natural glass eyes, eyebrow teeth, fine features, assic. Ukinde tones and brunette mohair wigs



With Stationary Eyes—

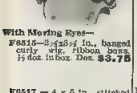
F6500—5½26 in., flowing hair with bangs. 1 doz. in box Doz. **$1.80**

With Moving Eyes—Real eyelashes. Wire headmesh sewed wig, stitched side part, ribbon bow 1 in box

F6525 4½25½ in. with 3 rows curls Each **$1.60**

F6528—6½26 in. with 4 rows curls . Each, **$1.90**

F6527—6½26½ in., with 4 rows curls. Each, **$2.40**



With Moving Eyes—

F6515—8½26½ in., banged curly wig, ribbon bows ½ doz. in box Doz. **$3.75**

F6517 — 4 x 6 in., stitched center part curly wig, braided sides with ribbon bows. ½ doz. in box. Doz. **$10.50**

F6518—4½26, real eyelashes, stitched center part curly wig braided sides with ribbon bows. 1 in box. . . Each, **$1.50**

IMPORTED BISQUE SOCKET DOLL HEADS

Flesh tinted bisque, moving glass eyes, real eyelashes, exposed teeth, assid blonde, tosca and brunette hand sewed mohair wigs, stitched side part, bow. ½ doz. in box.

Fits doll

F6520—19 in. Each, **$1.35**

CINDERELLA DAINTY DOLL DRESSES

In Litho Label Boxes

Attractively packed in combination sets. Each set in 12¾x8½ in. box

F7033—3 pcs., allover trim of flowered percale, lace and ball around with contrasting blue trim, checked linen bib apron, and chambray clothes pin apron. Assts. small, medium and large sizes. ½ doz. sets in pkg. Doz. sets, **$4.50**

F7054 3 styles, blue chambray polka dress with additional white and gingham trim, plaid gingham apron with rick-rack braid trim and novelty cloth pocket, bungalow apron, flowered percale bungalow apron with checked linen Bungalow apron. All sets with half and bib aprons. Assts. styles and sizes small, medium and large. 1 doz. sets in pkg.

Doz sets **$8.25**

IMPORTED TOY NURSING SETS

F8422—2 in. glass nursing bottle with rubber nipple 3 in. wire handle, celluloid ring nipple, 1½ in. doll rattle, each set in fancy cardboard box. 1 doz. sets in pkg. Doz. sets, **40c**

F8423—2¾ in. glass nursing bottle with rubber nipple and nipple, 2½ in. celluloid baby doll, 1 in. rubber nipple with wire handle and celluloid ring and ball rattle, each set in fancy cardboard box. 1 doz. sets in pkg. Doz. sets, **84c**

DOLLS' TOILET SETS

These sets are made of clear white celluloid which they will prove ready sellers if shown with your dolls

F7065—2 pc., 3 in. comb and brush on litho display card in box. 1 doz. sets in pkg. Doz. sets **$2.25**

F7010—4 pc., 3 in. comb and brush, 2½ in. file, comb 1¾ in. mirror, each set in 12x5 in. partitioned box. ½ doz. sets in pkg. Doz. sets, **$4.25**

F7047 7 pc., 3 in. comb and brush, 2½ in. mirror, 2 x 2½ in. soap box 2 in. puff box and hair receiver, tissue wrapped soap, each set in 6x9½ in. partitioned box. ½ doz. sets in pkg. Doz. sets, **$8.25**

FOLDING DOLL HOUSE

F2947 16½x7½x7 in. fancy color litho colonial style brick house, 3 bath, attic and brick chimney, front can be dropped down making a summer house with flower garden, lawn and walks. 1 in box

Each **$1.25**

"LITTLE FOLKS" KINDERGARTEN TOYS

Educational, interesting games that set the little minds working

Dolls' Dressmaking Outfit—6½ in. embossed litho doll, jointed arms and legs, 8 costumes and hats, size 7x9 in. assid sheets of paper for costumes, each set in 7x9 in. litho box

F2961—1 doz. sets in pkg. Doz. sets, **78c**

A. C. TITAN SPARK PLUGS

ONE PIECE OF TYPE CONSTRUCTION

The ½ in. Regular AC Titan Carbon Proof can be used in the following tractors: Avery, Eagle, Howell, LaCrosse, Pioneer. Also Elmira, Passenger Cars, Roberts Motors and Swartz Lighting Plants. Recommended for Ford, Overland and Studebaker Cars, or any motor using ½ in. regular plugs.

No. 5158—½ in., carbon proof, per box of 10 .....$11.60

½ in. Long AC Titan—Regular equipment on Reo cars and trucks. Recommended for Overland up to 1914 and Winton up to 1915.

No. 5151—½ in., long AC Titan, per box of 10 $11.60

⅝ in. Regular AC Titan — Regular equipment on Cadillac, Chalmers, Cole, Dort, Hudson, Hupmobile, Jordan, Kissel-Kar, Liberty, National, Oldsmobile, 8 cyl. Packard, Paige-Detroit, Peerless, Pierce-Arrow and other well known makes of passenger cars, trucks and tractors.

No. 5152—⅝ in., Regular A. C. Titan, per box of 10 .....$11.60

⅝ in. Long AC Titan — Regular equipment on Buick, Chevrolet, McLaughlin-Buick, Canada, Scripps-Booth, 4 cyl., SSE Co. Knox, Samson and Wolverine Tractors.

No. 5153—⅝ in., Long Titan, box of 10 $11.60

⅝ in., Long Body AC Titan — Regular equipment on Chandler, Cran-Simplex, White. Also Bessemer, Hahn, Moreland, Noble and Robinson Fire Trucks.

No. 5154—⅝ in., Long Body AC Titan, per box of 10 $11.60

Dodge Special AC Titan — Slightly longer than ⅝ in. Reg. Regular equipment on all Dodge cars.

No. 5149 — Dodge Special AC Titan, per box of 10 $11.60

SAE Reg. AC Titan —Regular equipment on Apperson, Commonwealth, Daniels, Haynes, Locomobile, Marmon, Mitchell, Saxon, Singer, Stearns-Knight, Gabriel Trucks, Wallis Tractors and Delco-Light.

No. 5155—⅝ in., SAE Regular AC Titan, per box of 10 $11.60

SAE Long AC Titan—Regular equipment on Oakland 34-B Oldsmobile 6 cyl., Premier, Seneca, all Nash cars up to 1919.

No. 5156—⅝ in., SAE Long AC Titan, per box of 10 $11.60

Regular Metric AC Titan — Regular equipment on Essex, B. & S. Motor Wheel. Recommended for Pierce-Arrow, 1915; all cars using Metric Plugs.

No. 5157 — Metric Regular AC Titan, per box of 10 $11.60

A. C. SPECIAL FOR FORDS

The AC 5159 No. 1075 spark plug for Ford cars is an AC product backed up by the AC trademark and therefore of AC quality throughout.

Spring terminal clip permits wire to be instantly detached and re-connected while motor is running. Facilitates testing spark plug and coil. No nut to be unscrewed or lost.

By unscrewing the bushing, plug may be completely disassembled. Only one gasket is used. Extra large body porcelain to withstand hard service.

Patented CARBON PROOF porcelain. Saw tooth edges attain sufficient heat to burn oil deposits, thus offering effective resistance to carbon.

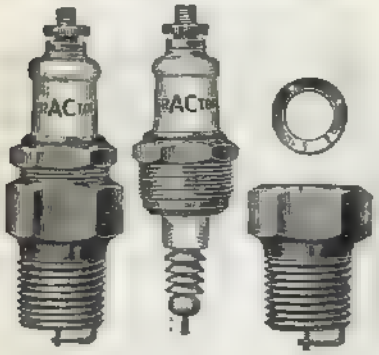
Large electrode will last indefinitely. Special shape forms natural drain preventing oil lodging in the in the spark gap.

No. 5159—1075—W't per box 3½ lbs., per box of 10 .....$8.80

No. 5160—Porcelain for above, w't per box 1 lb., per box of 10 .....$4.40

APPROX. W'T PER DOZEN 3½ LBS. ONE IN A BOX. TEN IN A CARTON

A-C "CICO" SPARK PLUGS
TWO PIECE CONSTRUCTION



⅞ in. Reg. AC Tractor—This new construction combines the advantages of the Titan Carbon-Proof one-piece design with the ready demountability of the Standard AC. It can be taken apart and reassembled any number of times without risk of spoiling the packing. Particularly recommended for kerosene burning motors.

No. 5187—½ in., Regular AC Tractor, w't per doz. 6 lbs.,
per box of 10 .....$13.20

A-C SPARK PLUG CORES
FOR A-C STANDARD PLUGS

No. 5183—Fits carbon proof type AC Plugs, w't per doz. ¾ lb.,
per box of 10 .....$6.70

SPECIAL TERMINALS FOR A-C PLUGS

We are prepared to supply at no additional charge, special terminals for AC Plugs as shown. These will be supplied only when so ordered at time of shipment.

LOOKE

SPARK PLUGS

RAJAH

Insulation—Highest grade imported hard fire porcelain of special pattern, securely packed, which insures against firing through. The new clip terminal does away entirely with the necessity for either thumb screw, nut or other device for attaching or securing wire or cable to spark plug.

No. 5266—½ in. porcelain,
per box of 12 .....$13.00

No. 5267—⅝ in., S. A. E. porcelain,
per box of 12 .....$13.00

No. 5269—Porcelains, extra,
per box of 12 .....$7.70

KINGSTON Mica

These plugs are made from mica of best obtainable grade and are recognized as the standard of all mica plugs.

No. 5300—½ in. ..per box of 10 $10.00

No. 5301—⅝ in. S. A. E.,
per box of 10 .....$10.70

SPARK PLUG WRENCHES

Pressed steel, double end, removable handle, will not crack or spread when in use. For ½ and ⅝ in. plugs, length 4 in.

No. 6473—453 Openings 29-32 and 31-32 in., w't per doz. 7½ lbs.,
per dozen $7.20

No. 6474—455—Openings 29-32 and 1 1-32 in., w't per doz. 7½ lbs.,
per dozen $7.20

ONE IN A CARTON

FOR FORD CARS

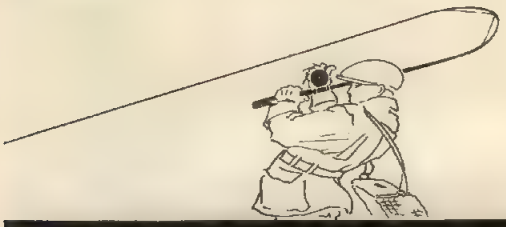
Wrench to fit spark plugs on Ford cars. Satin-nickel finish. Duplicate of Ford No. 2335.

No. 6475—635—Length 10 in., w't per doz. 6 lbs.,
per dozen $13.60

HALF DOZEN IN A CARTON

SPARK PLUG BRUSHES

No. 5354—Presco, wire bristles, hair tuft, 2 tempered thin flat steels,
per dozen $2.40



once in a lifetime

—but when you sell a man a Meisselbach "Fishing Reel of Quality" it will be a long time before you sell him another, because the MEISSELBACH reel is built to last.

but the MEISSELBACH you sell will give so much delight that you'll make a steady customer for everything else in the fishing tackle line you sell.

Why not push the Meisselbach reel as your leader?

"RAINBOW"

"Takapart" "Tripart" "Triton"
"Rainbow" "Surf" "Neptune"

Order Now

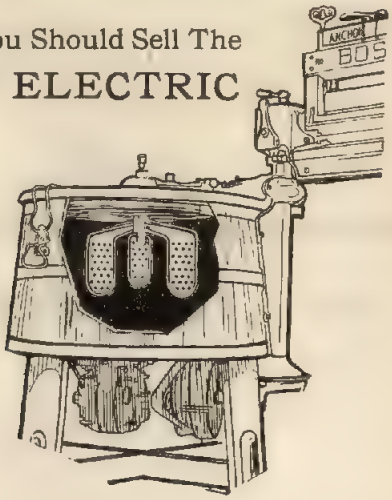
A. F. Meisselbach Mfg. Co.

Otto Heineman, Pres.

25 West 45th St., New York City

Why You Should Sell The

BOSS ELECTRIC



You can make more profit on easy payment sales of THE BOSS ELECTRIC than on cash sales under our new financing plan.

NO TIE UP OF CAPITAL
or Guarantee of Accounts

Every home in your community should have a Boss Electric Washer with the wonderful new AERoWING Principle. Only $5.00 down payment required and dealer gets his money immediately just as if he had made a cash sale.

Write us for particulars and give name of your nearest jobber.

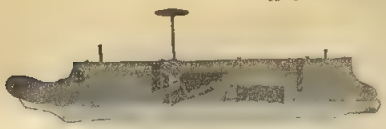
THE BOSS WASHING MACHINE CO.

CINCINNATI

Also makers of the popular Boss water power, hand power and belt power washers.

ROAD RUTTERS

Used on Iced Logging Roads to Cut Ruts for Logging Sleigh Runners to Follow



BADGER

Knives are of the Scoop Pattern, made Extra Heavy; 5x1 in. Steel Shank with Heavy Tool Steel Cutting Edge; Easily taken out when dull and re-dressed by a blacksmith; Heavy Wings outside and inside of each Runner insure a clean track.

Per Pair

+No. F309A—Runners 5x20 in. by 14 ft.; Cuts regularly a Rut 8 in. Wide, 3 in. Deep, but can be adjusted to Cut to Depth of 6 in.; **Pole and Beams not included;** Weight about 1200 Lbs. Pair.....$400.00

+No. F309A4—Extra Knives, for above; Weight 60 Lbs. Pair 50.00

+For Factory Shipment Only, F. O. B. Eau Claire, Wis.

CULVER

The Depth of Cut is regulated by raising the Front Part of Runner by means of the Hand Wheel; Cuts through roots, etc., easily; Steel raising and lowering Screws; Tool Steel Knives; Steel Raves and Starts.

Per Set

No. F309B—Requires White Oak Runners, 8x14 in. by 12 ft., 4 in. Wide at Nose; Set of Fixtures consists of 2 Knives, 2 Screws, 2 Nuts and 2 Hand Wheels; **We do not furnish Wood part.**.....$140.00

Per Pair

No. F309C—Extra Knives, for above; Weight 40 Lbs. Pair... $80.00

SNOW PLOWS AND RUTTERS

Cut 12 in. Wider than Logging Sleighs, Rolls the snow outside the track and pushes it away from the road; Cuts off knolls and fills up holes, making the road perfectly level and prevents Sleighs from slueing; One team driven with the Plow and a Road Sprinkler, and with no extra men will make better ice roads with half the water, than two teams used in the old way

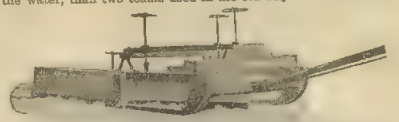
BRAZEL; FOUR RUNNER

Frame Side Pieces are of Maple, 3x30 in. by 5 ft. Long, Framed with 4x6 in. Timber, braced to give greatest strength, On each side of Frame a Heavy Iron Slide is bolted, on which the **Cast Steel Mold Board** works, Each Mold Board can be operated independently by the driver, so that either Track can be cut down more or less at will; V shaped Center Plow, built of 2 in. Maple, is shod with a Forged Steel Cutting Edge, and is Adjustable for depth of cut in breaking down Core in Center of Track. Mounted on Bob Sleighs of 3 in. Maple, Heavily Shod, Ironed and Bolted; Connected by a 6x8 in. Maple Reach, 16 to 20 ft. Long

	Each
For Flat Roads; Without Rut Cutter	
+No. F309D—For Roads up to 6 ft. Wide	$748.00
+No. F309E—For Roads up to 8 ft. Wide	781.00
+No. F309F—For Roads up to 9 ft. Wide	836 00
With Stationary Rut Cutter	
+No. F309H—For Roads up to 7 ft. Wide	836.00
+No. F309J—For Roads up to 9 ft. Wide	891.00
With Detachable Rut Cutter	
+No. F309K—For Roads up to 7 ft. Wide	891.00
+No. F309L—For Roads from 7 ft. to 9 ft. Wide	946.00

Average Shipping Weight 2000 Lbs. Each

+For Factory Shipment Only, F. O. B. Cheboygan, Mich.



EAU CLAIRE; TWO RUNNER

Runners are 5x28 in. by 14 ft. Long, carrying the Adjustable Outside Wings, which clear the snow each side of the track; Wings may be folded back along side of Runners when not required; Center Plow is V Pattern, built of White Oak, Extra Heavy, well braced, Shod with Heavy Steel Shoes, drawn to a Sharp Cutting Edge; Both Wings and Center Plow are independently adjustable by the Hand Wheels.

In ordering, state **Width of Track, from Center to Center of Runners;** Can furnish from 5 to 8 ft. Wide.

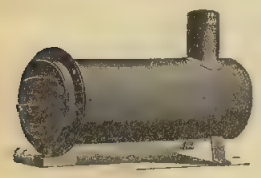
Each

+No. F309M—Eau Claire Combined Snow Plow and Rutter; Can also be used as a Grader on Ice Roads.....$800.00

Weight 3000 to 3500 Lbs. Each

+For Factory Shipment Only, F. O. B. Eau Claire, Wis.

CAMP EQUIPMENT



SPRINKLER TANK HEATERS

For heating Water in Tank Sleighs, for Icing Logging Roads; Made of Wrought Steel, riveted and calked water-tight; Fitted with 4x30 in. Steel Pipe.

Nos	P309N	P309P	P309R
Size, In	18x48	18x60	24x72
For Wood, Ft.	3	4	5
Weight Each, Lbs.	200	250	330
Each	$120.00	144.00	200.00

Can furnish Heavier to Special Order

SPRINKLER TANK PUMPS

Also used for pumping out Sewers, Cesspools, Excavations, Cellars, etc., Made of 18 Gauge Galvanized Steel.

Each

No. F309T—Pump Head, including Valves, with Soldered and Riveted Spout. Length Overall 32 in.....$15 00

Per Foot

No. F309V—Pipe, for above.. $2.00

Made up any Length Pipe desired; Can furnish either 3 or 4 in. Pipe; a 10 ft. Pump weighs about 38 Lbs.

SPRINKLER TANK RUNNERS

Made of Seasoned White Oak, upon the latest and most approved Patterns; Double Ended; Height at Bearings 9 in.; Length Overall 9 ft.

Per Set of 4

No. F309W—Finished and Ironed; Width 4 in.; Weight 990 Lbs. Set..... 3300 00

No. F309X—Finished, ready to Iron; Height at Bearings 9 in.; Length Overall 9 ft.; Width 4 in.; Weight 280 Lbs. Set..... 95.00

No. F309Y—Rough, not Ironed; Width 4 in.; Weight 285 Lbs. Set..... 82.00

"GRAIN KING" WAGONS

See top of preceding page for description of Patented Channel Ironed Reach and Pole, bottom of page for illustration of Pole; All the features attributed to Truck Gears on the preceding page, are also found in these Wagons, except that Wagon Stakes are 13½ in. High, 1 in. Thick, heavily Ironed, and with Large Rings

GEAR ONLY

This Farm Wagon Gear is in a class all by itself; It is thoroughly Ironed and Braced, made of the choicest selected Hardwood, and embodies all the patented features, described at the top of the preceding page.

It has full 3½x10 in. Skeins; 13 in. Regular Wagon Stakes, full 1 in. Thick and heavily Ironed, with large Malleable Rings

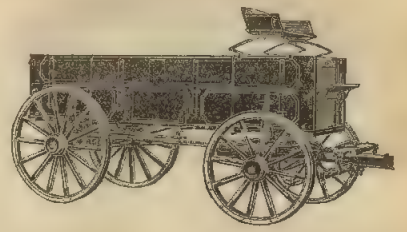
The Front Hounds are heavy Curved Angle Steel, with heavy Circle Irons; Gears are Double Braced; "Clipped and Pinned" construction; Bolsters Ironed on top.

WITH WOOD WHEELS AND RIVETED RIMS

	Each
+No. F308A-550—40 in. Front and 46 in. Rear Wheels; ½x3 in Tires; Wheels have Riveted Rims, two Rivets at each Spoke	$122.00

Weight 790 Lbs Each

WAGON COMPLETE

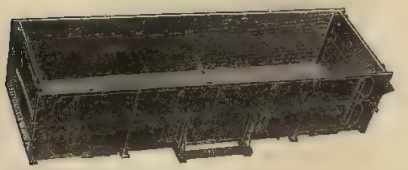


Complete in every detail; Consists of No. F308A-550 Gear, No. F308D-630, 26 in. Double Box, No. F308L-440 Three-Leaf Spring Seat, 2x4x48 in. Evener, 2⅝x34 in. Singletrees, 2⅝x40 in Neckyokes and Stay Chains complete

WITH 40 AND 48 IN. WOOD WHEELS AND RIVETED RIMS

	Each
+No. F308B-570—½x3 in. Tires; Weight 1215 Lbs Each	$155.80
+No. F308C-580 ⅝x3 in. Tires; Weight 1160 Lbs. Each	183 80

WAGON BOX



Bottom built with two Bolster Reinforcements, six Hardwood Cross Sills nailed at each Bottom Board, two additional Cross Sills bolted on Rear Bolster Reinforcement and heavy Cast Iron Rub Irons. Lower Box is 14 in. High, Top Box 12 in.; Fastens with eight Cleats and four Rods, with Handle Nuts

Complete with Corn stock End Gate, Foot Board and Anti Spreader Chain; Painted Green, two coats, striped in Yellow and varnished.

	Each
+No. F308D-630—Length 10 ft. 6 in.; Combined Height 26 in.; For 38 in. Bolster	$44.00

Weight 345 Lbs. Each

WAGON SPRING SEATS

Have two sets of Holes, so Springs can be set for either 38 or 42 in. Box; Carefully made, of seasoned material, well Ironed, painted Green, two coats, and neatly striped and varnished

	Each
With Lazy Back; 1½x26 in. Spring	
+No. F308H-450—Two Leaf; Weight 38 Lbs..	$ 9 00
+No. F308J-460—Three Leaf; Weight 42 Lbs	10.30
With 9 in. Solid Back; 1½x26 in. Spring	
+No. F308K-430—Two-Leaf; Weight 35 Lbs	9.00
+No. F308L-440—Three-Leaf; Weight 40 Lbs	10.30

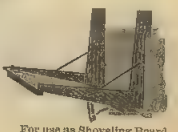
"GRAIN KING" END GATES OR SHOVELING BOARD

Closed tight

Make a Tight Job; Add from 2 to 3 Bushels to capacity of Box; Can be removed or put on, in a very few minutes

For Dumping Grain

Painted with a high grade of Green color Varnish; Most attractive in appearance



For use as Shoveling Board

Consists of Extension which fits into rear end of any Standard Wagon Box, and Endgate proper, which is clamped onto Extension by means of Levers on sides of Extension; Extension Frame fits tight inside of Box End. Cleats on Frame Sides fit into regular Box Endgate Grooves. Frame Sill rests on Box Bottom, and is beveled to make gradual slope to Bottom. Bolts passing through regular Box Cross Rod Holes and Frame Sides fasten Extension firmly to Box

Endgate proper, or Back Board with its Wings, fits tight against Extension when closed. Wings fit outside of Extension Frame Sides

In addition to making tight job, this stiffens Box Sides and prevent their spreading

When used as Shoveling Board, Endgate proper is opened from top, and hangs in place on Steel Side Levers. Steel Plates built into bottom back Cross Cleat fit under Extension Sill and prevent Board from springing up when weight is put on extreme back end of Endgate.

When dumping Grain at Elevator, Endgate will swing freely from bottom, by lifting Endgate proper with Levers, and hooking it at top of Extension Sides.

	Each
+No. F308R-350—For 38 in. Box; 36 in. High; Weight 50 Lbs	$8 90
+No. F308T-360—For 42 in. Box; 36 in. High; Weight 50 Lbs..	8.20

+Entire Page, F. O. B. Minnesota Transfer, Minn.

REVONOC BALL BEARING COASTER WAGONS

Removable body. Body and handle of well seasoned hardwood, varnished, body decorated in red and black. Extra heavy wood wheels painted red and fitted with serviceable brakes, iron hubs and frame, runs of bent rock elm wrought steel tires welded and shrunk on, gear of selected stock securely braced to body, steel loop grip on handle.

1¼ in. Square Handle.

Nos. REVONOC	N90	N91	N92
Height of body, in.	4¼	4¼	4¼
Size body, in.	14×32	16×36	18×40
Wheels, in.	10	10	10
Shipping w't, lbs.	348	396	460
Per dozen	$103.50	112.50	121.50

EXTRA WHEELS FOR NOS. N90, N91, N92

No. N090—Per dozen $14 40

ONE IN A CARTON

BADGER COASTER WAGONS

Body, handle and brace of well seasoned hardwood, varnished, extra heavy metal bearing wheels with round spokes, ¾×1¼ in. bent rock elm rims, ¾×⅝ in. wrought steel tires welded and shrunk on, A1 selected stock gears, securely braced to body with ⅞×¾ in. round edge iron and ⅞ in. round steel axles. Extra heavy malleable iron and hardwood steering gears.

STATIONARY BOX, 3 INCHES HIGH

No. N32—Body 12×28 in., wheels 8 in., w't per doz. crated 204 lbs. ..... per dozen $53.00

REMOVABLE BOX

Nos.	N33	N34	N35
Height of body, in.	4½	4½	4½
Body, in.	14×32	16×36	18×40
Wheels, in.	10	10	10
Shipping w't, lbs.	324	366	430
Per dozen	$90.00	99 00	108.00

EXTRA WHEELS

Nos.	N032	N033	N034	N035
Size, in.	8	10	10	10
Per dozen	$9 60	10 80	10.80	10 80

NO. N35, ONE IN A CRATE; OTHERS SIXTH DOZEN IN A CRATE. WE DO NOT BREAK CRATES.

REVONOC EXPRESS WAGONS

Solid body of 24 ga. steel, outside painted vermilion, ornamented with gold stripes, inside green. Solid substantial wood wheel and handle, painted vermilion. Steel loop grip.

IRON HUB WHEELS, ⅞ IN. SQUARE HANDLE

Nos.	N70	N71
Height of body, in.	4½	4½
Body, in.	12×24	13×26
Wheels, in.	8 & 12	9 & 13
W't doz. crated, lbs.	264	282
Per dozen	$56 00	63 00

Nos.	N72	N73
Height of body, in.	5	5
Body, in.	14×28	15×30
Wheels, in.	11& 14	12& 15
W't doz., crated, lbs.	300	336
Per dozen	$70 00	76 00

No. N071—Extra Handles ..... per dozen $2 90

WAGONS SIXTH DOZEN IN A CRATE. WE DO NOT BREAK CRATES.

CRUSO EXPRESS WAGONS

Solid body of 25 ga. steel, painted red, stenciled in gold. Extra heavy steel wheels painted black, nickel hub caps, heavy wrought gear with extra brace on rear axle, finished in black coke enamel, ⅞ in. round steel axles, bent handle, loop grip, painted red, four cleats across bottom.

Handle ⅞ in. Square

Nos.	N81
Height of body, in.	5⅛
Body, in.	12x26
Wheels, in.	30
W't doz. crated, lbs.	204
Per dozen	$44 00
Nos.	**N83**
Height of body, in.	5⅛
Body, in.	14x30
Wheels, in.	34
W't doz. crated, lbs.	252
Per dozen	$52 50

STEEL EXPRESS WAGONS

Steel body and wheels body painted bright vermilion, striped and varnished, wheels painted black, striped to match gear. Top of body bent over wrought iron rod, making it very firm, rounded corners, steel gears. Wood handle with cross bar grip.

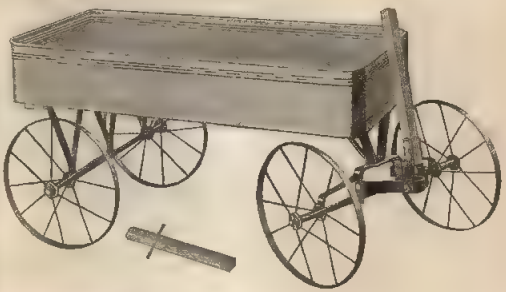
STEEL BODY AND WHEELS

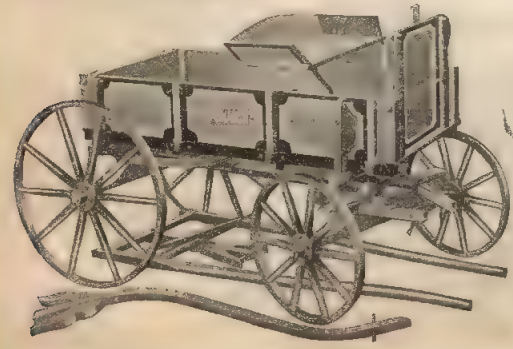
Handle ⅞x⅝ in.

Nos.	N04	N02
Height of body, in.	2¾	3½
Body, in.	8x16	10x22
Wheels, in.	6	8
W't doz. crated, lbs.	70	90
Per dozen	$22 20	22 60

Handle ⅞ in. Square

Nos.	N1	N3
Height of body, in.	5½	5⅝
Body, in.	12x26	14x30
Wheels, in.	30	34
W't doz., crated, lbs.	164	244
Per dozen	$36 30	44 00





FARM WAGONS

This resembles a farm wagon in every respect. The sides and ends can be taken off, leaving bed with stakes.

Seasoned Hardwood Frame and Wheels

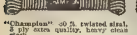
Body 18x36x7 in., bent bounds, adjustable reach, all parts strongly ironed and braced, 14 and 30 in. wheels, shaved spokes, heavy welded tires, plate wrought iron hub boxes and hub caps ⅞ in. round steel axles, complete with seat and tongue.

No. N3850—Without shafts, w't per doz. 660 lbs., per dozen $171 50

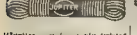
No. N355—With hardwood shafts for dog or goats, w't per doz. 720 lbs. .....per dozen $187 70

ALL ABOVE TWO IN A CRATE. WE DO NOT BREAK CRATES.

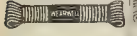
CLOTHES LINES



"Champion" 50 ft. twisted steel, 3 ply extra quality, heavy duty stock.
W7719—4 dos. in pkg. Doz. **78c**

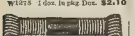


"Jupiter" 50 ft. 3 ply twisted steel wire, very strong stock.
W7720—1 doz. in pkg. Doz. **$1.95**

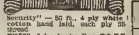


"Wearwell"—40 ft. twisted jute 3 ply good quality fiber.
W7707 1 doz. in pkg. Doz. **$1.48**

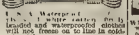
"Marathon" 50 ft. 3 ply twisted, finished jute, selected quality, smooth long wearing line.
W7715 1 doz. in pkg. Doz. **$2.10**



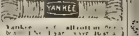
"Weatherproof"—50 ft. twisted, finished, sale hand laid 3 ply fine tinned strands.
W7774—1 doz. in pkg. Doz. **$2.75**



"Security"—50 ft., 3 ply white cotton hand laid; each ply in separate.
W7778—1 doz. in pkg. Doz. **$2.76**



Waterproof 3 ply white cotton, laundered and waterproofed clothes will not freeze or to line in cold or wet weather.
W7787—1 doz. in pkg. Doz. **$4.25**
3 doz. lots. " **3.65**



Yankee 3 ply, all cotton, hand laid, 1 year wear guaranteed. Outdoor clothes line.
W7774—10 doz. in pkg. Dz. **$4.50**

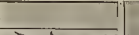
"HERCULES"
WINDOW SASH CORD

50 ft. solid braided white cotton, extra strong, waterproof. 16 ozs. in pkg.
W7779—No. 6, about 30 lbs. Doz. **$4.75**
W7785—No. 8, " 32 " **6.25**

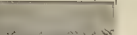
KITCHEN CORD
For the kitchen or bath room.
W7780 [illegible] braided, [illegible] cable laid. 1 doz. coiled in pkg. Doz. **54c**

SHELF PAPER

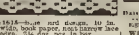
SHELF PAPER



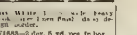
W7813—Blue and design, 10 in. wide, book paper, 4 yds. [illegible] edge. 24 dos. pcs. in box. Total $1.60 Doz. pcs. **58c**



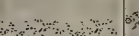
Basket White [illegible] wide, heavy [illegible] Doz. pcs. **58c**



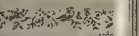
Superior—10 in. wide, good quality book paper, fancy [illegible] edge. 2 dos. 2 yd. pcs. in box.
W1672—Sand white and popular colors..... Doz. pcs. **58c**
W7673—Solid white " **58c**



Fancy Border—10 in. wide, heavy book paper, white body, sand fancy colored borders in flower design, lace edge.
W7684—2 dos. 2 yd. pcs. in box. Doz. pcs. **68c**

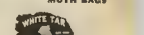


"Empire"—10 in. wide, book paper white body, fancy gilt border, floral design lace edge. Color.
W7685—2 dos. 2 yd. pcs. in box. Doz. pcs. **66c**



Gilt Border—11 in. wide, high grade book paper, 2½ in. lace edge with gilt floral design. Assorted color cuts in each roll [illegible].
W7688—2 dos. 2 yd. pcs. in box. Doz. pcs. **88c**

"WHITE TAR"
MOTH BAGS



[illegible] Each
W7740—24x27, for suits.. **$0.85**
W7741—30x36 for [illegible] **1.05**
W7742—32x50, for [illegible] **1.15**

WASHING MACHINES

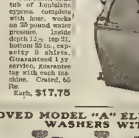
"BADGER" HAND POWER WASHING MACHINES

"BADGER" WATER POWER WASHING MACHINE

W1367—Brass cast cylinder, only concave, 50 strong rotor rack guide, double bearing for washer shaft, large tub of hardwood, cypress, [illegible] cypress hose, [illegible] on 50 pound water pressure. Inside depth 12½, top 21, bottom 23 in., capacity 8 shirts. Guaranteed 1 yr service, [illegible] top with each machine. Crated, 65 lbs.
Each, **$17.75**

"ALADDIN" MODEL "C" ELECTRIC WASHER

A reasonably priced electric washer (without wringer) that does the work satisfactorily. One of the most convenient washers made. The machine itself can be removed from its tub and placed in any stationary tub up to 36 in. or big tub. An ideal washer for apartment or country home.



W7714—Size overall 32x29x 50 in. Galvanized steel [illegible] [illegible] [illegible]

BAILEY ADJUSTABLE IRON BLOCK PLANES

Iron body, japanned inside, polished bottom and sides, japanned trim, tempered and ground steel cutter, nickel plated knob, adjustable, with throat and lateral adjustment.

No. 9½. Adjustable, with 1⅝ in. cutter, length 6 in., weight 1¾ lb. ..... each, **$4.90**

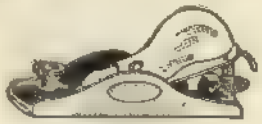
One in a box

Iron body, japanned inside, polished bottom and sides, nickel plated trim, tempered and ground steel cutter, adjustable, with throat and lateral adjustment.

No. 16. Adjustable, 1⅝ in. cutter, length 6 in., weight 1¾ lb. ..... each, **$5.60**

One in a box

No. 9¾



No. 18

Iron body, japanned inside, polished bottom and sides, tempered and ground steel cutter, adjustable, with throat and lateral adjustment.

No. 9¾. Adjustable, japanned trim, nickel plated knob, rosewood stained handle, 1⅝ in. cutter, length 6 in., weight 1⅝ lb. ..... each, **$6.10**

No. 18. Adjustable, nickel plated trim, steel cap, knuckle joint 1⅝ in cutter, length 6 in., weight 1¾ lb. ..... each, **6.10**

One in a box

BAILEY ADJUSTABLE IRON PLANES

Smooth Bottom

Iron body, japanned inside, polished bottom and sides, cutters English steel, tempered, ground and polished, rosewood handles and knobs

Nos. 2 to 4

Nos. 5 and 6

SMOOTH, JACK AND FORE

Nos.	2	3	4	5	6
Style plane	Smth.	Smth.	Smth.	Jack	Fore
Cutter, in.	1⅝	1¾	2	2	2⅜
Length, in.	7	8	9	14	18
Weight, lb.	2¼	3⅛	3¾	4¾	7¾
Each	$9.20	9.60	10.50	12.10	15.40

One in a box

JOINTER

Nos.	7	8
Cutter, in.	2⅜	2⅜
Length, in.	22	24
Weight, lb.	8⅛	9¼
Each	$17.60	21.00

One in a box

BAILEY ADJUSTABLE IRON PLANES

Corrugated Bottom

Iron body, japanned inside, polished bottom and sides, cutters English steel, tempered, ground and polished, rosewood handles and knobs.

SMOOTH

Nos.	3C	4C
Cutter, in.	1¾	2
Length, in.	8	9
Weight, lb	3⅛	3¼
Each	$10.30	11.20

One in a box

JACK, FORE AND JOINTER

Nos.	5C	6C	7C	8C
Style plane	Jack	Fore	Jointer	Jointer
Cutter, in.	2	2⅜	2⅜	2⅜
Length, in.	14	18	22	24
Weight, lb.	4¼	7¾	8⅛	9¼
Each	$13.00	16.60	18.90	22.60

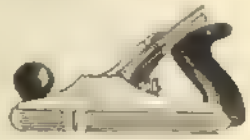
One in a box

STANLEY BED ROCK IRON PLANES

Corrugated Bottom

The cutter, frog and bottom are so designed and fitted that they are practically one solid piece of metal. The frog may be adjusted either forward or backward without removing the lever and cutter. The cutter is adjustable both endwise and sidewise. The handle and knob are of rosewood

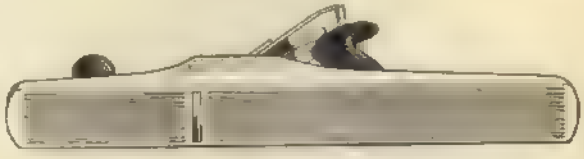
Iron body, japanned inside, polished bottom and sides, cutters English steel, tempered, ground and polished, rosewood handles and knobs



SMOOTH

Nos.	603C	604C
Cutter, in.	1¾	2
Length, in.	8	9
Weight, lb.	3¼	3¼
Each	$11.70	12.60

One in a box



JACK, FORE AND JOINTER

Nos.	606C	606C	607C
Style plane	Jack	Fore	Jointer
Cutter, in.	2	2⅜	2⅜
Length, in.	14	18	22
Weight, lb.	4¼	7⅜	8¼
Each	$14.50	18.30	21.10

One in a box

STANLEY IRON PLANES

CIRCULAR PLANES

Japanned iron frame, polished face, nickel plated adjustment. The face is fastened to each end of the plane body and adjusted by a screw at the center.

No. 20. Length 10 in., cutter 1¼ in., weight 4 lb..each, **$19.60**

One in a box

EDGE TRIMMING PLANES

Iron body, japanned, polished bottom, tempered and ground steel cutter; designed for trimming or smoothing ends of boards, for a close or tight fit; has a right angle rest or guide from the cutter edge; cutter works on a skew, giving an easy cut.

No. 95. Length 6 in., cutter ⅞ in., weight 1¼ lb..each, **$4.25**

One in a box

HANDLED IRON RABBET PLANES

Japanned iron stock, polished surfaces

These planes will lie perfectly flat on either side, and can be used equally as well with right or left hand while planing into corners or up against perpendicular surfaces. Fitted with spur which permits them to be used for working across the grain. Also fitted with a detachable depth gauge.

Nos.	192	191	190
Cutter, in	1	1¼	1½
Length, in	8	8	8
Weight, lb.	2	2¼	2½
Each	$6.20	6.60	7.00

One in a box

DUPLEX FILLETSTER AND RABBET PLANES

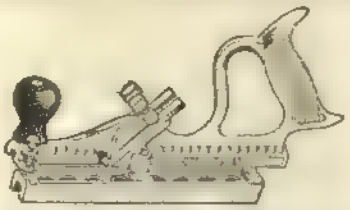
Japanned iron stock, polished surfaces

Has two seats for the cutter, one for regular work and the other where a bullnose is required. It has a spur and a removable depth gauge. The adjustable fence can be used on either side and slides under the bottom, regulating the width of the cut.

No. 78. Length 8½ in., cutter 1½ in., weight 3 lbs..each, **$7.90**

One in a box

STANLEY IRON PLANES



SWINGING FENCE MATCH PLANES

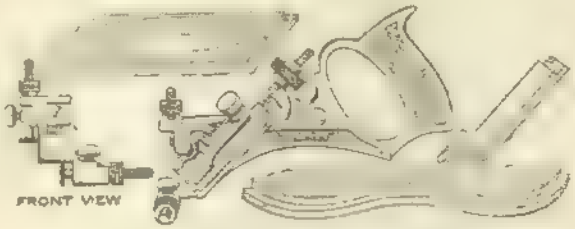
Nickel plated iron stock, rosewood knob

This plane has two plow cutters of the same width, and one extra wide cutter. The fence in one setting exposes two cutters for cutting the tongue, and, when reversed, leaves only one exposed for cutting the groove. On thicker boards than the plane works on center, the extra wide cutter is substituted for groove cutter when cutting tongue.

No. 48. Cuts ⅛ in. groove on boards ¾ to 1¼ in., centers on ⅞ in., weight 3¾ lb.....each, **$12.60**

No. 49. Cuts ⅛ in. groove on boards ½ to ¾ in., centers on ½ in., weight 2⅜ lb.....each, **12.60**

One in a box



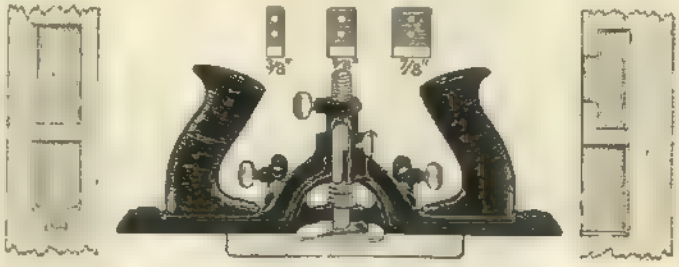
CURVE RABBET PLANES

Nickel plated iron stock

Will cut rabbets on circular or other curved and irregular edges; works whether the rabbet is to be cut on the outside edges of work or on edges of openings cut out of the surface of the work; provided with two cutters fastened together by a screw in such relation, one to the other, as the work in hand requires. The upper cutter acts as a spur for the lower and also cuts the side of the rabbet. The lower cutter is a skew cutter which follows spur and cleanly cuts bottom of the rabbet; stock and handle are cast in one piece; plane is fitted with an adjustable depth gauge; fence is adjustable and has a curved face.

No. 196. Length 9 in., with two cutters, weight 3 lb.....each, **$16.00**

One in a box



DOOR TRIM AND ROUTER PLANES

Japanned iron stock, rosewood handles

Will make mortises for butts, face plates, strike plates, escutcheons up to a depth of ⅞ in. and a width of 3 in. A fence regulates the position of the cut and insures the sides being parallel; depth of cut is governed by a positive stop. Can be changed into a router plane. An extra wooden bottom of any size desired can be screwed on, enabling the user to router on large openings.

No. 171. With three forged steel cutters, ⅜, ⅝ and ⅞ in. wide, length 11 in, weight 3 lb.....each, **$14.10**

One in a box

CRYSTAL TABLE PIECES

MATCHED DESIGNS

CRYSTAL TABLE PIECE ASSORTMENTS
Pieces to Match

1C1874—Creamers, 3 styles, 4¾ in. high, sparkling crystal, fluted with diamond band. Fluted with diamond scroll and chain with sunburst pattern. 1 doz. each style. Asstd. 3 doz. in case, 75 lbs. Doz. **$1.45**
(Total $4.35)

1C1883—Covered butters, 3 styles, diam. 7½ in., sparkling crystal, fluted with diamond band. Fluted with diamond scroll and chain with sunburst design. 1 doz. each style. Asstd. 3 doz. in box, 60 lbs. Doz. **$2.25**
(Total $6.75)

1C1877—Covered sugars, 3 styles, 6¼ in. high, sparkling crystal, fluted with diamond band. Fluted with diamond scroll and chain with sunburst design. 1 doz. each style. Asstd. 3 doz. in bbl., 85 lbs. Doz. **$2.10**
(Total $6.30)

PRESSED CRYSTAL COVERED SUGAR BOWL ASSORTMENT

1C1878—2 styles 5¾ and 6¼ in. high, clear crystal bullseye panelled and fluted cut band effect with floral embossed panels. Double handled. Asstd. 2 doz. in bbl., 80 lbs. Doz. **$2.10**
(Total $6.30)

4 PIECE CRYSTAL TABLE SET ASSORTMENT

1C1885—3 styles, good crystal extra large 4 piece sets, consisting of covered butter, 4 cut glass deep cut sunburst diamond and fan design, 8 oz. cream and 8 oz. sugar bowl to fit, 9 in. cutter dish diam. 7½ in. sprinkler, 4¼ in. all pieces to match. Asstd. 12 sets in bbl., 97 lbs. Set (4 pcs.) **65c**
(Total $1.95)

CRYSTAL BUTTER DISH ASSORTMENT

1C1882—2 styles, clear, 7 x 4½, good crystal, deep cut diamond scroll band and colonial with floral panels, 1¼ doz. each asstd. 3 doz. in bbl., 125 lbs. Doz. **$2.25**
(Total $6.75)

CRYSTAL CELERY HOLDER ASSORTMENTS

1C2926—2 styles, "Ideal," 9¼ x 5½ in., clear crystal double handled, imitation cut and colonial patterns, 1½ doz. each style. Asstd 3 doz. in pkg. 75 lbs. Doz. **$1.95**
(Total $5.85)

1C2956—3 styles, 8¾ in., clear crystal, double handled, colonial with diamond band and colonial band with floral panels. 1 doz. each style. Asstd. 3 doz. in case, 60 lbs. Doz. **$1.95**
(Total $5.85)

COVERED CRYSTAL BUTTER DISH

1C1897—6 in. x 4 in. full finished crystal colonial 1 pound panel. ½ doz. in pkg. Doz. **$1.68**

DINING SET ASSORTMENTS

"SUPERIOR" COLONIAL DINING SET ASSORTMENT—Crystal

1C1749—Finest pot clear crystal. Wide colonial panel, star bottom. Asst. comprises 6 sets as follows, all pieces to match.
TWO 5 PC. WATER SETS—
Two ½ gal. jugs.
Twelve 8 oz. tumblers.
TWO 7 PC. BERRY SETS—
Two 8 in. bowls.
Twelve 4½ in. nappies.
TWO 4 PC. TABLE SETS—
2 creamers. 2 butters
2 sugars. 2 spoon holders.
Asstd 6 sets in bbl., 90 lbs.
(Total $6.70)
SET. **95c**

"BAND OF GOLD" DINING SET ASSORTMENT—Gold Decorated

1C1756—Heavy sparkling crystal, new style, regular plain shape with band of narrow lines and gold. Cream pitcher and tea hole stock handles. Asst. comprises 6 sets as follows: all pieces to match
TWO 5 PC. WATER SETS—
Two ½ gal. jugs.
Twelve 9 oz. tumblers.
TWO 7 PC. BERRY SETS—
Two 8 in. bowls.
Twelve 4½ in. nappies.
TWO 4 PC. TABLE SETS—
2 creamers. 2 sugars.
2 butters. 2 spoonholders.
Asstd. 6 sets in bbl., 90 lbs.
(Total $8.40)
SET. **$1.40**

"GOLDEN BEAUTY" DINING SET ASSORTMENT—Gold Decorated

1C1762—Heavy full finished crystal deep cut patterns, wide gold edges. Asst. comprises 6 sets as follows, all pieces to match.
TWO 7 PC. WATER SETS—
Two ½ gal pitchers.
Twelve 8 oz. tumblers.
TWO 7 PC. BERRY SETS—
Two 8 in. bowls.
Twelve 4½ in. nappies.
TWO 4 PC. TABLE SETS—
2 creamers. 2 sugars.
2 butters. 2 spoonholders.
Asstd. 6 sets in bbl. 75 lbs.
(Total $8.70)
SET. **$1.45**

"GOLDEN GLOW" DINING SET ASSORTMENT—Iridescent

1C1765—Golden iridescent finish, embossed butterfly and grape design. Asst. comprises 6 sets as follows, all pieces to match
TWO 5 PC. WATER SETS—
Two ½ gal. jugs.
Twelve 8 oz. tumblers.
TWO 7 PC. BERRY SETS—
Two 8½ in. bowls.
Twelve 5 in. nappies.
TWO 4 PC. TABLE SETS—
2 creamers. 2 sugars
2 spoonholders. 2 butters.
Asstd. 6 sets in bbl., 70 lbs.
SET. **$1.25**
(Total $7.50)

"BURGUNDY" DINING SET ASSORTMENT

Wise merchants will get big sales and good profits from this attractive selection

1C1761—Mixed quality crystal, 2 colors, amethyst and burgundy, oriental panel pattern. Asst. comprises 6 sets as follows, all pieces to match
TWO 5 PC. WATER SETS—Two ½ gal. jugs. Twelve 9 oz. tumblers.
TWO 7 PC. BERRY SETS—Two 8½ in. bowls. Twelve 5½ in. nappies.
TWO 4 PC. TABLE SETS—2 creamers, 2 sugars, 2 butters, 2 spoonholders
Asstd. 6 sets in bbl., 80 lbs.
SET. **$1.20**

GOLD AND AMBER GLASSWARE ASSORTMENT—Iridescent

1C2419—Gold and amber iridescent glass, embossed leaf, fruit, butterfly and stag patterns. Asst comprises

½ doz.	11 cm scalloped footed bowl	½ doz.	10 in scalloped oval footed bowl
½ "	12 " " " " "	½ "	11 " " " " "
½ "	13 " " " " "	½ "	12 " " " " "
½ "	7½ " scalloped footed fruit bowl	½ "	9½ " berry bowl
		½ "	6 gal jug

Assrd. 4½ doz. pieces in Herco, 190 lbs. [Total $31.50] Doz. **$4.75**

"PYREX" OVEN GLASS

The nationally advertised brand. Bakes better, browns quicker, will not chip, dent, bend or craze, sanitary and easy to wash

Custard Cups—½ doz. in carton
1C199—(Mfrs. 452) 4 oz., 3¼x2 Doz. **$1.60**
1C200—(Mfrs. 622) 6 oz., 4x2½ Doz. **$2.00**

Ramekin—½ doz. in carton.
1C196—(Mfrs. 443) 3½x1½, round, wide rim Doz. **$1.60**

Round Handled Dishes—6 in carton.
1C204—(Mfrs. 209) 6¼x1¼ Each **$0.37**
1C205—(Mfrs. 301 .6¾x1¾ " **.50**

Round Baking Dishes—1 in carton
1C188—(Mfrs. 464) 7¼x2½, cap 1 qt. Each **67c**
1C189—(Mfrs. 468) 8½x2¾, cap 1½ qt. " **87c**
1C190—(Mfrs. 469) 9½x3, cap 2 qts. Each **80c**
1C218—(Mfrs 467) 9½x3¼, cap 2½ qts. Each **94c**

Handled Pudding Dish—1 in carton
1C208—(Mfrs. 650) Diam 9½ in., deep Each **94c**

Round Pie Plates, Wide Rim—1 in carton
1C312—(Mfrs. 209) 6½x1¼ in **$0.50**
1C309—(Mfrs. 323) 9½x1¾ in **.67**
1C310—(Mfrs. 216) 10½x1¾ in **.87**
1C311—(Mfrs. 214) 11½x1¾ in. **.73**

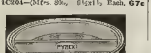
Hexagonal Pie Plate—Makes 6 equal cuts. 1 in carton
1C313—(Mfrs. 1203) 9¾x1¾ in. Each **87c**

THIS TEST SHOWS

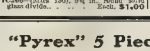
Just as a window pane lets in warmth of sunlight, so ALL the heat penetrates "Pyrex."

If a metal pan and a "Pyrex" dish both filled with water are put in oven, the water in the "Pyrex" dish boils in 10 minutes, but the water in the metal pan will not boil in over 2 hours. Metal throws off more than half the oven heat. Try this test.

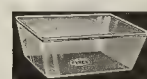
Square Cake Dish—1 in carton.
1C201—(Mfrs. 230) 6½x1½, Each. **67c**



Two Compartment Dish 1 in carton.
1C206—(Mfrs 130). 9¼ in. round as to glass dishes. . . . Each. **$1.06**



Oblong Bread Pans—1 in carton. Each
1C184—(Mfrs. 213). 9¼x4¼x2¾ **$0.67**
1C185—(Mfrs. 214) 10½x5¼x3¾ **1.00**



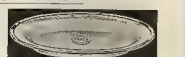
Oblong Bread Pans—1 in carton ' Each
1C186—(Mfrs. 231). 10½x6½x3¾ **$0.67**
1C187—(Mfrs. 233). 12¾x8¼x3 . **1.17**

"Pyrex" 5 Piece Oven Ware Set

Selection of the most practical and useful pieces. An attractive gift suggestion for all occasions

1C1722—5 piece set. Set comprises
ONE 1½ qt. beehive casserole,
ONE oblong bread pan 9¼x4½x2¾,
ONE pie plate 9½,
ONE biscuit pan 8¾x6¼x1¼
ONE oblong baking dish, 7¼x5¾x3
Assrd. 5 pcs. in fancy box. . . .

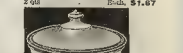
SET **$3.35**



Oval Meat Platter—1 in carton
1C214—(Mfrs. 315) 10½x10¼x1¾ in. Each **$1.34**

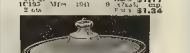
Round Cake Plate—1 in carton.
1C18—(Mfrs. 321) 9½x1¾ in Each **50c**

Roast Pots, Round—1 in carton
1C179 (Mfrs. 536). 6½x3½ in. cap. 2 qts Each **$1.17**
1C180—(Mfrs. 536) 7¼x3½ " " 2 qts " **1.67**
1C181—(Mfrs. 536) 8¼x4¼ " " 3 qts Each. **$1.67**



Round Casseroles—Beveled cover, Ribstandard mountings, 1 in carton
1C175—(Mfrs. 207) 7¼x2¾ in. cap. 1 qt Each. **$1.00**
1C214 (Mfrs. 208) 8¼x2¾ in. cap. 1½ qts Each **$1.17**
1C217—(Mfrs. 209) 9¼x3 in. cap. 2 qts " Each. **$1.34**

Oval Casseroles—Rib standard mountings. 1 in carton
1C193—(Mfrs. 163). 8¾x5¼x2¾ in. cap. 1 qt Each **$1.00**
1C194—(Mfrs. 164) 9¾x5¾x2¾ " " 1½ qts " **1.17**
1C195—(Mfrs. 165) 10¾x6 " " 2 qts " **1.34**



Shallow Oval Casserole—Rib standard mountings 1 in carton
1C191 (Mfrs. 181) 10½x8¼, cap. 1 qt Each **$1.00**
1C192—(Mfrs. 184) 10½x8¼x1¾ in. cap. 1½ qts " **1.17**

Square Casseroles—1 in carton.
1C285—(Mfrs. 950). 8¼ Each, **$1.50**

RATCHET JACKS

GENUINE BARRETT, AUTOMATIC LOWERING

For general use on Railway Lines, Agricultural and Mining Machinery, Timbers, etc. Designed to reach high as well as low set loads; Car Bodies, etc., may be lifted by the upper end of the Raising Rack, while Machinery or Track may be raised by the Foot at the Base. Lifts quickly and lowers gradually and operates at any angle; Malleable Iron Frame, Forged Steel Rack; Drop Forged Open Hearth Steel Pawls; High Carbon Steel Fulcrum Pin; Hardened Steel Bearings; Selected Ash or Hickory Handles.

FIVE TON, DOUBLE ACTING

Adapted for Rapid Handling of Mining and Agricultural Machinery, Light or Narrow Gauge Track, etc.

No.	P403-50
Capacity, Tons	5
Height, Bar Down, In.	16
Rise of Bar, In.	8
Weight Each, Lbs	35
Each	$16.00

TEN TON, DOUBLE ACTING

For use in Car Barns, Power Houses, Viaducts, Bridges and Track Work.

Nos.	P403-2	P403-3
Capacity, Tons	10	12
Hgt., Bar Down, In.	21	26½
Rise Bar, In.	10	15
Weight Each, Lbs.	73	95
Each	$25.00	30.00

FIFTEEN TON, DOUBLE ACTING

Constructed for Heavy Service. The Frame and Lifting Bar are unusually Heavy with all Working Parts in proportion.

No.	P403-4
Capacity, Tons	15
Height, Bar Down, In.	22
Rise of Bar, In.	10
Weight Each, Lbs.	106
Each	$35.00

FIFTEEN TON, SINGLE ACTING

Standard Car Jack; Designed for the requirements of the Heavier Modern Cars.

No.	P403-219
Capacity, Tons	15
Height, Bar Down, In.	28
Rise of Bar, In.	17½
Weight Each, Lbs.	93
Each	$40.00

TRIP OR TRACK JACKS

GENUINE BARRETT

No. P403-1

For Construction, Surfacing, Repairing and Ballasting Track, the Standard Size of Track Jack; Height with Bar Down 24½ in.; Rise of Bar 14½ in.; Size of Ratchet Bar 1⅛x1⅛ in. Hardwood Handle.

No. P403-17

No. P403-6

For Ballast Gangs on Track Work, Heavy Rails, Frogs, Crossings, etc.; Height with Bar Down 31 in.; Rise of Bar 19 in.; Size of Ratchet Bar 1⅝x1⅝ in.; Hardwood Handle.

No. P403-7

The Trip Attachment allows the Load to be dropped instantly at any point

TEN TON

Each

No. P403-1—Double Acting, Compound Leverage; Lifts Load Half a Notch on Each Up and Down Stroke; Wt. 70 Lbs Each..*$22.00*

No. P403-17—Single Acting; Lifts Load a Full Notch on the Down Stroke of Handle Only; Weight 65 Lbs. Each..... *22.00*

FIFTEEN TON

Each

No. P403-6—Double Acting, Compound Leverage; Lifts Load Half a Notch on Each Up and Down Stroke; Weight 110 Lbs..*$32.00*

No. P403-7—Single Acting, Lifts Load a Full Notch on the Down Stroke of Handle Only; Weight 87 Lbs. Each..... *32.00*

JACK PARTS

In Ordering, Give Number of Part and Number of Jack for which wanted

FOR No. P403-1 JACKS

Nos.		Each
A	—Base with Bushings	$10.00
B	—Socket Lever, Steel	5.00
C	—Bushing	.25
H	—Right Hand Side Plate	.30
I	—Left Hand Side Plate	.30
J	—Top of Rack	.30
K	—Long Pawl	1.50
L	—Short Pawl	1.50
M	—Steel Rack	4.00
O	—Trip	.75
Q	—Fulcrum Pin	.20
R	—Side Plate Rivet	.10
MS	—Short Pawl Screw	.15
W	—Wood Handle	1.00

FOR No. P403-2 JACKS

Nos.		Each
A	—Base with Bushings and Handle	$12.00
B	—Socket Lever with Side Plates	4.50
C	—Shield	.80
D	—Short Pawl Spring Lever	.60
E	—Long Pawl Spring Lever	.60
F	—Lowering Block	.80
G	—Eccentric	.30
H	—Right Hand Side Plate	$ 0.30
I	—Left Hand Side Plate	.30
J	—Top of Rack	.60
K	—Carrying Handle	.30
L	—Long Pawl	1.00
M	—Short Pawl	1.00
N	—Steel Rack	6.00
P	—Bushing	.25
Q	—Fulcrum Pin	.50
R	—Side Plate Rivet	.10
T	—Spring	.10
W	—Wood Handle	1.00
SS	—Shoulder Screw	.15
SCS	—Short Shield Screw	.15
LCS	—Long Shield Screw	.15

FOR No. P403-3 JACKS

Nos.		Each
A	—Base with Bushings and Handle	$12.50
B	—Socket Lever with Side Plates	5.00
C	—Shield	1.50
D	—Short Pawl, Spring Lever	.60
E	—Long Pawl, Spring Lever	.60
F	—Lowering Block	.80
G	—Eccentric	$ 0.30
H	—Right Hand Side Plate	.50
I	—Left Hand Side Plate	.30
J	—Top of Rack	.60
K	—Carrying Handle	.30
L	—Long Pawl	2.00
M	—Short Pawl	2.50
N	—Steel Rack	8.50
P	—Bushing	.40
Q	—Fulcrum Pin	.60
R	—Side Plate Rivet	.10
T	—Spring	.10
W	—Wood Handle	1.25
SS	—Shoulder Screw	.20
SCS	—Short Shield Screw	.10
LCS	—Long Shield Screw	.15

FOR No. P403-6 JACKS

Nos.		Each
A	—Base with Bushings and Handles	$12.00
B	—Socket Lever, Steel	5.00
C	—Bushing	.25
H	—Right Hand Side Plate	.30
I	—Left Hand Side Plate	.30
J	—Top of Rack	.60
K	—Carrying Handle	.30
L	—Long Pawl	2.00
M	—Short Pawl	2.50
N	—Steel Rack	8.50
O	—Trip	.75
P	—Bushing	.25
Q	—Fulcrum Pin	.60
R	—Side Plate Rivet	.10
S	—Short Pawl Screw	.10
W	—Wood Handle	1.25

FOR No. P403-17 JACKS

Nos.		Each
A	—Base with Bushings and Handle	$10.00
B	—Socket Lever Steel	5.00
H	—Right Hand Side Plate	.30
I	—Left Hand Side Plate	.30
J	—Top of Rack	.30
L	—Long Pawl	1.50
M	—Short Pawl	1.50
N	—Steel Rack	4.50
O	—Trip	.75
P	—Bushing	.25
Q	—Fulcrum Pin	.20
R	—Side Plate Rivet	.10
U	—Long Pawl Pin	.15
W	—Wood Handle	1.00
MOS	—Short Pawl Screw	.15

All Above, Open Stock

BASE BALL UNIFORMS

Write for measurement blanks and samples.

GRADE C

Made of full 6 ounce athletic flannel. Shirt, any style, includes name of club (not to exceed nine letters), on shirt or one 6 inch plain or Old English letter; pants, plain; hose, heavy rib worsted; plain colors or with one 3 inch calf stripe, with or without feet; cap, any style; belt, 1½ inch single buckle, black leather.

Per Suit

No. C—Uniform complete with shirt, pants, cap, hose and belt, as described ..... ✤$3 25

Detachable sleeves, except for one pitcher and one catcher; extra per pair ..... ✤ 2 04

GRADE E

Strong, serviceable material.

Shirt, any style.
Pants, plain not lined.
Belt, single buckle, black leather, 1¼ inch wide.
Cap, any style.
Hose, heavy ribbed cotton, plain or striped, with or without feet.

Per Suit

No. E—Uniform complete with shirt, pants, cap, hose and belt, as described ..... ✤$34 50

GRADE F

A very popular uniform owing to the price. It is strong, durable and very satisfactory. Made in the best manner, full size and made to measure. Price includes name or monogram or one plain or Old English letter on shirt front or sleeve.

Shirt, any style; pants, plain; cap, any style; belt, 1½ inch cotton web, adjustable buckle; hose, heavy ribbed cotton, plain or striped.

Per Suit

No. F—Uniform complete with shirt, pants, cap, hose and belt, as described ..... ✤$30 00

GRADE M

Made of full 7 oz. flannel. This uniform is made in the same substantial manner as our other high-grade uniforms, and will give absolute satisfaction under the most trying conditions.

Shirt, any style; pants, plain not lined; cap, any style; belt, 1½ inch leather, single buckle; hose, heavy ribbed wool, plain or striped, with or without feet.

Per Suit

No. M—Uniform complete with shirt, pants, cap, hose and belt as described ..... ✤$48 00

GRADE S

Made of good quality flannel 6 oz. in weight, strong and serviceable.

Shirt, any style; pants, plain not lined; belt, black leather 1½ inch wide, single buckle; hose, heavy ribbed wool, plain or striped, with or without feet.

Per Suit

No. S—Uniform complete with shirt, pants, cap, hose, and belt as described ..... ✤$49 50

GRADE P

Made of 6 oz. material, exceedingly strong and very serviceable.

Shirt, any style; pants, plain not lined; belt, black leather 1½ inch wide, single buckle; cap, any style; hose, heavy ribbed wool, plain or striped, with or without feet.

Per Suit

No. P—Uniform complete with shirt, pants, cap, hose and belt as described ..... ✤$43 50

GRADE X

Made of a very serviceable material and will give satisfaction under the most trying conditions.

Shirt, any style; pants, plain not lined; belt, black leather 1½ inch wide, single buckle; cap, any style; hose, heavy ribbed cotton, plain or striped, with or without feet.

Per Suit

No. X Uniform complete with shirt, pants, cap, hose and belt as described ..... ✤$36 00

✤F. O. B. Missouri Factory Only.

BASE BALL UNIFORMS

Highest grade 16 ounce especially woven flannel of the finest, and most durable quality, pre-shrunk by special process before cutting, hand tailored throughout All seams double sewed.

Shirt—Coat front; made plain, or trimmed any style with silk cording. Ventilated armpits. Includes the name of club, or a plain monogram if full size design is submitted.

Pants—Plain or silk corded. Ventilated crotch.

Cap—Any style desired.

Hose—Heavy ribbed pure worsted. Plain or striped; with feet or footless.

Belt—Solid leather.

Per Suit

No. 98—Uniform complete with shirt, pants, cap, hose and belt, as described ..... ✤$65 70

An exceptionally high grade uniform. Hand tailored in every detail. Comfortable and roomy. Double sewed and strengthened seams.

Shirt—Coat front; plain, ventilated armpits. Includes the name of the club not exceeding eight letters or two 5 inch plain or a plain monogram if full size design is submitted.

Pants—Plain; ventilated crotch.

Cap—Plain.

Hose—Heavy ribbed pure worsted. Plain or striped with feet or footless.

Belt Solid leather.

Per Suit

No. 90—Uniform complete with shirt, pants, cap, hose and belt, as described ..... ✤$54 60

A snappy appearing uniform and one that will give excellent service. Hand tailored throughout with usual care for detail. Made of hard wearing flannel.

Shirt—Plain; coat front ventilated armpits. Includes the name of the club not exceeding eight letters or two 5 inch or one Old English letter, or a plain monogram if full size design is submitted.

Pants—Plain; not lined, ventilated crotch.

Cap—Plain.

Hose—Excellent quality ribbed wool hose with feet or footless in any color or style stripe.

Belt—Solid leather.

Per Suit

No. 85 Uniform complete with shirt, pants, cap, hose and belt, as described ..... ✤$47 70

Firm-bodied flannel that will withstand more than the ordinary amount of rough wear and hard usage. Tailored to individual measurements with strengthened seams.

Shirt—Plain; coat front ventilated armpits. Includes the name of the club not exceeding eight letters or two 5 inch plain or one Old English letter, or a plain monogram if full design is submitted.

Pants—Plain; not lined, ventilated crotch.

Cap—Plain.

Hose—Ribbed wool, feet or footless, any color or style stripe

Belt—Good quality leather.

Per Suit

No. 80 Uniform complete with shirt, pants, cap, hose and belt, as described ..... ✤$45 00

✤F. O. B. Ohio Factory Only.

FIELDERS' GLOVES

REACH

Made of cream horse hide; roll leather binding; leather lined; leather welted seams; web thumb.

Per Dozen
No. 9G—Left hand $99 00
No. 9GRH—Right hand ... 99 00

One in a cardboard box; weight per dozen about 10 lbs.

Brown tan glove leather. Leather palm lining. Laced wrist permits adjustment of padding. These gloves are made on a duplicate model of the higher grades.

Per Dozen
No. 10G Left hand $63 00
No. 10GRH—Right hand 63 00

One in a cardboard box; weight per dozen about 10 lbs.

Craven tan glove leather. Khaki lined with leather palm lining. Welted seams. Medium heel and formed pocket.

Per Dozen
No. 55—Weight per dozen about 9 lbs. $50 40

One in a cardboard box.

Felt lined in the back of the fingers; well padded with good grade of felt; have patent inside hump; deep pocket and web thumb. Large model.

Per Dozen
No. 54—Made of brown tan leather, youth's size; half khaki palm lining; cambric binding; weight per dozen about 6 lbs. $42 12

Quarter dozen in a cardboard box.

Per Dozen
No. 18C—Men's size; brown leather face, khaki canvas back, felt padded, khaki lining; weight per dozen 6 lbs. $24 12

Quarter dozen in a cardboard box.

Per Dozen
No. 19A—Tan leather; out seam construction; felt lined palm and fingers; web thumb. wt. per dozen 6 lbs. $18 00

Quarter dozen in a cardboard box.

BASE BALL UNIFORMS

Write for measurement blanks and samples.

These uniforms are put together in a most scientific and up-to-date manner, with a view to strength and durability.

All seams are felled and double stitched, and reinforced at all points, subject to the greatest strain; no raw edges.

Each uniform is cut to measure and full size, with enough allowance in all directions to insure perfect freedom of motion.

GRADE A

Made of finest 8 oz. athletic flat weave flannel, thoroughly shrunk. Made to measure, full size and full length, with plenty allowance for shrinkage.

Price includes name of club on shirt, or monogram or one 6-inch Old English letter on breast or sleeve.

Shirt, any style.

Pants, plain not lined.

Belt; best quality 1½ inch leather, single buckle, black or russet color.

Cap, any style.

Hose, best quality, heavy ribbed worsted, plain or striped, with or without feet.

Footless hose will be sent unless ordered with feet.

Per Suit
No. A—Uniform complete with shirt, pants, cap, hose and belt as described ..... ✣$73 50

Detachable sleeves, except for one pitcher and one catcher; extra per pair ..... ✣ 2 04

GRADE B

Made of the finest 7 oz. athletic flat weave flannel, thoroughly shrunk, made to measure, full weight and full size, with plenty allowance for shrinkage.

Price includes name of club on shirt, or monogram or one 6 inch Old English letter on breast or sleeve.

Shirt, any style.

Pants, plain not lined.

Belt, 1½ inch leather, single harness buckle, black or tan leather.

Cap, any style.

Hose, heavy ribbed worsted, plain or striped, with or without feet.

Per Suit
No. B—Uniform complete with shirt, pants, cap, hose and belt as described ..... ✣$64 50

Detachable sleeves, except for one pitcher and one catcher; extra per pair ..... ✣ 2 04

✣F. O. B. Missouri Factory Only.

"HY-TONE" WRITING TABLETS AND ENVELOPES TO MATCH

Hy Tone Linen Fabric"—Fine quality cloth finish paper, water-marked, red, green and gold cover design 1 doz. in pkg.

RULED—
- #7081—5x8, 80 pp.
- #7082—5½x9, 80 pp.
- #7093—6½x10, 40 pp.
- #7084—8x10, 80 pp.

Gro. **$8.25** Doz. **72c**

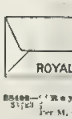
UNRULED—
- #7085—5x8, 80 pp.
- #7086—5½x9, 80 pp.
- #7087—6½x10, 40 pp.
- #7088—8x10, 80 pp.

Gro. **$8.25** Doz. **72c**

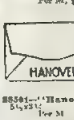
"Hy-Tone" envelopes to match tablets #7081—#7088. ¼ M in box

#8102—"Colonial," 6¾x3⅝. Per M, Out. 5 M lots, Per M, Out

#8090—"Society," 6¾x3⅝. Per M, **$3.00**. 5 M lots, Per M, **$2.85**



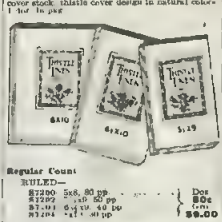
#8100—"Royal," 6¾x3⅝. Per M, **$3.00**. 5 M lots, Per M, **$2.85**



#8101—"Hanover," 6¾x3⅝. Per M, Out. 5 M lots, Per M, Out

"THISTLE LINEN" WRITING TABLETS AND ENVELOPES TO MATCH

Fine quality white cloth finish paper, water-marked, excellent writing surface, white coated cover stock, thistle cover design in natural colors. 1 doz. in pkg.

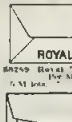


Regular Count

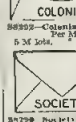
RULED—
- #7200—5x8, 80 pp. Doz. **80c**
- #7202—5½x9, 80 pp. Gro. **$8.00**
- #7201—6½x10, 40 pp.
- #7204—8x10, 80 pp. Doz. **80c**

UNRULED—
- #7205—5x8, 80 pp. Gro. **$8.00**
- #7206—5½x9, 80 pp.
- #7209—8x10, 80 pp.

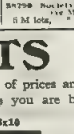
"Thistle Linen Envelopes—To match #8178-#8180 tablets. ¼ M in box



#8249 Royal, 6¾x3⅝. Per M **$3.25**. 5 M lots **3.00**

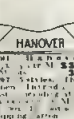


#8232—Colonial, 6¾x3⅝. Per M, **$3.25**. 5 M lots, **3.10**



#8250 Society, 6¾x3⅝. Per M **$3.25**. 5 M lots, **3.00**

#8296 Vogue, 6¾x3⅝. Per M **$3.25**. 5 M lots **3.00**



#8291 Hanover, 6¾x3⅝. Per M **$3.25**. 5 M lots **3.00**

#8287 Stratford Linen. Initial, city and monogram. Per M 250 sheets, 250 envelopes to match. Per M **$3.25**. 5 M lots **3.10**. Engraving extra.

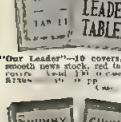
#8288 Vogue. Initial, city and monogram. Per M 250 sheets, 250 envelopes to match. Per M **$3.25**. 5 M lots **3.00**. Engraving extra.

(Total $9.00)

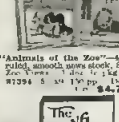
PENCIL TABLETS

The biggest values for the money in Pencil Tablets in this country. Big range of prices and sizes, and a nice assortment of attractive covers. When you buy any of these numbers you are buying right.

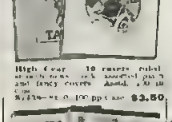
Size 3½x5



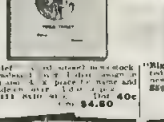
"Our Leader"—10 covers, ruled smooth news stock, red tag board covers. Assrd. 1 doz. in pkg. #7300—... pp. Gro. **$3.50**



"Animals of the Zoo"—4 styles, ruled, smooth news stock, 8 colored Zoo views. 1 doz. in pkg. #7394—5x7 in., 100 pp. Doz. **42c** Gro. **$4.75**



High Gear—10 covers, ruled smooth news stock, assorted sport and fancy covers. Assrd. 1 doz. in pkg. #7374—5x7, 100 pp. Gro. **$3.50**



Chief—Ruled smooth news stock, printed cover in blue and red, with Indian head design. Name and grade on cover. 1 doz. in pkg. #7311—5x7, 100 pp. Doz. **40c** Gro. **$4.80**

"Biggest and Best"—10 covers, 250 pp., ruled smooth news stock, 1 doz. in pkg. #8060—8x10, 250 pp. Doz. **$1.85** Gro. **$20.20**

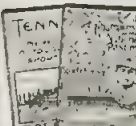
Size 5x7

"Chummy"—5 covers, ruled smooth, news stock, fancy Juvenile covers. Assrd. 1 doz. in pkg. #7180—5x7, 100 pp. Doz. **30c** Gro. **$3.50**

"King Pin"—5 covers, ruled smooth news stock, fancy Juvenile covers. Assrd. 1 doz. in pkg. #7187—5x7, 100 pp. Doz. **40c** Gro. **$4.80**

"Note" Asst.—3 covers, ruled, smooth news stock, beautiful sport rotogravure covers, two views on each cover. Assrd. 1 doz. in pkg. #7157—5x7, 100 pp. Doz. **37c** Gro. **$4.25**

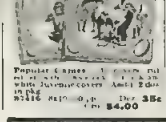
"Rivals"—4 covers, ruled smooth news stock, fine girl head covers. Assrd. 1 doz. in pkg. #7415—8x10, 60 pp. Doz. **42c** Gro. **$4.80**



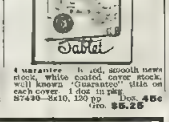
"Sport Champions"—4 covers, ruled smooth news stock, sport views together with pictures of various sports champions in brown rotogravure. Assrd. 1 doz. in pkg. #7434—8x12, 60 pp. Doz. **40c** Gro. **$4.00**

"Big Five"—Ruled, smooth news stock, red tag board cover with black printing. 1 doz. in pkg. #7399—5x7, 120 pp. Doz. **33c** Gro. **$3.75**

"Can't Be Beat"—Ruled, smooth news stock, red board cover with black printing. 1 doz. in pkg. #7405—5½x9, 200 pp. Doz. **45c** Gro. **$5.25**



Popular Games—3 covers, ruled smooth news stock, 3 beautiful sport rotogravure covers. Assrd. 2 doz. in pkg. #7416—8x10, 60 pp. Doz. **35c** Gro. **$4.00**



Guarantee—4 varieties, ruled, smooth news stock, white coated cover stock, with known "Guarantee" title on each cover. 1 doz. in pkg. #7430—8x10, 120 pp. Doz. **45c** Gro. **$5.25**

"Warrior"—Ruled smooth news stock, white coated cover stock, with Indian head design, name of title and decagon gold border, space for name and grade on cover. 1 doz. in pkg. #7427—8x10, 120 pp. Doz. **42c** Gro. **$4.80**

"Chief"—Ruled, smooth news stock, pearlescent cover, Indian design in red and dusky shade for name and grade on cover. 1 doz. in pkg. #7404—5½x9, 140 pp. Doz. **39c** Gro. **$4.50**

"Big Value"—Ruled, smooth news stock, red tag board cover with black printing. 1 doz. in pkg. #7446—5½x9, 450 pp. Doz. **87c** Gro. **$10.20**

Minnesota "State Seal" Pencil Tablet

Made exclusively for Butler Brothers —a sure winner.

#7430—8x10, 80 pp., ruled smooth news stock, with the state of Minnesota printed in blue and gold on buff kraft mottled cover stock. 1 doz. in pkg.

Doz. **42c**
Gro. **$4.80**

"Big Chief"—Ruled, smooth news stock, red tag board cover with Indian head design. 1 doz. in pkg. #8433—5½x9, 144 pp. Doz. **42c** Gro. **$4.80**

#7429—8x10, 200 pp. Doz. **75c** Gro. **$8.50**

"Red Ribbon"—Ruled smooth news stock, red tag board cover with black printing. 1 doz. in pkg. #7301—5x7, 100 pp. Doz. **42c** Gro. **$4.80**

Size 5¾x9

Overweight—Ruled, smooth news stock with red tag board cover. 1 doz. in pkg. #7408—5½x9, 200 pp. Doz. **45c** Gro. **$5.25**

SCRATCHPADS

White News Stock

#8433—4½x6, 144 pp. Per 100, **$1.95**
#8435—5x8, 144 pp. Per 100, **$3.25**

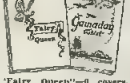
INK OR WRITING TABLETS

The pick of the best known tablets manufactured in America, with a variety of styles and sizes to satisfy every demand, many new cover designs and a big variety of the finest writing papers. When buying of Butler Brothers you have the satisfaction of knowing that you get the best values in tablets that money can buy.

Gross Prices—Gross prices are for lots of 1, gross or more of a number, allowing you to assort sizes where there is more than one size of a kind, also to assort ruled and unruled when both come in the same brand. All tablets made with 3 sheets unless specified otherwise.

Note: In giving the number of pages we count both sides of the sheet; for example, a 100 page Tablet has 50 sheets. **Sizes**—Note 5x8, Packet 5½x8 Letter 8x10

"Big Seal"— Ruled, good quality writing surface, White coated cover with embossed red and gold design. 1 doz. in pkg.
87092—5x8, 80 pp.
Gro. **$3.75** Doz. **33c**



"Fairy Queen"—6 covers, ruled, fine quality white wove paper, good writing surface, attractive colored covers, on coated cover stock. Assted. 1 doz. in pkg.
87049—5x8, 80 pp.
Gro. **$4.75** Doz. **42c**

"American Linen Cloth"—Ruled finequality cloth finish paper cover design in blue and gold. 1 doz. in pkg.
87058—5x8, 60 pp.
Gro. **$5.25** Doz. **45c**

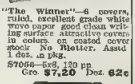
"The Winner"—6 covers, ruled, excellent grade white wove paper good clean writing surface attractive covers in colors, coated cover stock No Blotter. Assted 1 doz. in pkg.
87056—5x8, 120 pp.
Gro. **$7.20** Doz. **62c**

"Society Linen"— Ruled cream linen paper excellent quality fine writing surface embossed blue and gold cover design and title. 1 doz. in pkg
87157—5x8, 128 pp.
87158—5½x8, 96 pp.
87159—8x10, 46 pp.
Gro. **$6.25** Doz. **72c**

"Castle Fabric"—Ruled, excellent quality white cloth finish paper smooth writing surface attractive high grade embossed cover in green and gold. 1 doz. in pkg
87115—5x8, 120 pp.
87116—5½x8, 84 pp.
87117—8x10, 44 pp.
Doz. **80c**
Gro **$9.25**

"Movie Fan Favorites"— Ruled, good quality white wove paper, fine writing surface. A beautiful title. "Movie Star" covers Assted 1 doz in pkg.
87032—5x8, 70 pp.
Gro. **$4.10** Doz. **36c**

"Creston Linen"—Ruled, fine quality cream linen paper, excellent writing surface, handsome cover design in colors and gold. 1 doz. in pkg
87032—5x8, 90 pp
87033—5½x8, 66 pp.
87034—8x10, 34 pp.
Gro. **$5.25** Doz. **45c**



"Pompey Silk Fabric"—Good quality cloth finish paper fine writing surface, green and gold cover design. 1 doz. in pkg.
RULED—
87160—5x8, 90 pp.
87161—5½x8, 66 pp
87162—8x10, 34 pp.
Gro. **$6.00** Doz. **70c**
UNRULED—
87163—5x8, 90 pp.
87164—5½x8, 66 pp.
87165—8x10, 34 pp.
Gro. **$6.00** Doz. **70c**

"Irish Linen"—Fine quality cream linen paper, smooth writing surface, embossed Irish linen cover in green and gold. 1 doz. in pkg
RULED—
87186—5x8, 160 pp
87186—5½x8, 88 pp
87187—8x10, 52 pp.
Gro. **$8.25** Doz. **72c**
UNRULED—
87188—5x8, 160 pp
87189—5½x8, 88 pp.
87190—8x10, 52 pp.
Gro. **$8.25** Doz. **72c**

"Blue Ribbon"—Ruled, excellent quality white wove paper, fine writing surface, embossed "Blue Ribbon" cover in colors and gold. 1 doz. in pkg
87170—5x8, 120 pp.
87171—5½x8, 76 pp.
87172—8x10, 46 pp.
Gro. **$9.00** Doz. **79c**

"Clear Grain"— 8 covers, ruled, good quality writing paper, colored covers on green and buff coated cover stock. Assted. 1 doz. in pkg
87094—5x8, 100 pp.
Gro. **$4.50** Doz. **39c**

"Krack"—12 covers, ruled good quality white wove paper, fancy covers. Assted. 1 doz. in pkg
86986—5x8, 100 pp
86987—8x10, 38 pp.
Gro. **$4.50** Doz. **42c**

"Public School" — Ruled blotter cover, good grade white wove writing, medium weight. 1 doz. in pkg.
87278—5x8, 80 pp.
Gro. **$5.25** Doz. **45c**
87279 — 8x10, 80 pp., high grade heavy paper
Gro. **$9.00** Doz **79c**

"Super - Value" — Ruled, excellent quality smooth white wove paper, beautiful embossed cover and title in colors and gold. 1 doz. in pkg.
87166—5x8, 160 pp.
87167 5x10, 52 pp.
Gro. **$8.50** Doz. **75c**

"Hawthorne Linen Fabric"—Fine quality white cloth finish paper, good weight, cover design in colors and gold. 1 doz. in pkg
RULED—
87177—5x8, 100 pp.
87178—5½x8, 82 pp.
87179—8x10, 38 pp
Gro. **$8.00** Doz. **78c**
UNRULED—
87180—5x8, 100 pp.
87181—5½x8, 82 pp
87182—8x10 38 pp.
Gro **$9.00** Doz **78c**

Ruled, heavy weight, fine grade white wove paper, border cover, used in Minneapolis Public Schools, also used in many schools throughout the country. 1 doz. in pkg.
86778—8x10½, 80 pp.
Gro. **$9.60** Doz. **84c**

"Fussy Franks"—4 covers, ruled, good white wove paper, smooth writing surface, attractive Fussy covers Assted 1 doz. in pkg.
87011 6x8, 90 pp.
Gro. **$4.50** Doz. **39c**

"Fraternity"—Ruled, fine quality white wove paper, smooth writing surface, floral and gold cover design on tinted cover stock. 1 doz. in pkg.
87018—5x8, 80 pp.
87019—5½x8, 50 pp.
87020—8x10, 32 pp.
Gro. **$4.80** Doz. **42c**

"Public School"— Ruled, fine quality cream linen paper, excellent writing surface, handsome cover design in colors and gold. 1 doz. in pkg
87035—5x8, 90 pp
87036—5½x8, 66 pp.
87037—8x10, 34 pp.
Gro. **$5.25** Doz. **45c**

"Tuxedo Linen"—Ruled, fine quality cream linen paper, excellent writing surface, handsome cover design in colors and gold. 1 doz. in pkg
87174—5x8, 120 pp.
87175—5½x8, 76 pp.
87176—8x10, 46 pp.
Gro. **$9.00** Doz. **79c**

"Kilkenny Linen"—Ruled, good quality cream linen paper, good writing surface, embossed title and cover design in colors and gold. 1 doz. in pkg
87113—5x8, 160 pp.
87114—8x10, 68 pp.
Doz. **80c**
Gro. **$9.25**

"Highland Linen"—Ruled fine quality white stock, 10 in pkg.
RULED—
81011H—5x8, 100 pp.
Per 100, **$13.50**
81012R—5½x8, 100 pp.
Per 100, **$17.50**
81013R—8x10, 100 pp.
Per 100 **$24.25**
UNRULED—
81011 5x8 100 pp.
Per 100 **$13.50**
81012 5½x8, 100 pp
Per 100 **$17.50**
81013—8x10, 100 pp.
Per 100, **$24.25**

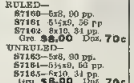
"President"— Ruled, fine writing paper, red, white, blue and gold cover, picture of President Harding 2 doz. in pkg
87005—5x8, 80 pp.
Gro. **$4.60** Doz. **40c**

"Quality Linen"— Ruled, good white linen paper, excellent writing surface, 4 tints of cover colors and gold. 1 doz in pkg
87014—5x8, 80 pp.
Gro. **$4.85** Doz. **42c**

"Irish Linen" Writing Tablets

Good quality paper, smooth writing surface, beautiful cover design and title in red, green and gold.

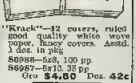
RULED—
87128—5x8, 160 pp.
87129—5½x8, 100 pp.
87130—8x10, 60 pp.
Doz. **72c** Gro. **$8.10**
UNRULED—
87131 5x8 160 pp.
87132—5½x8 100 pp
87133—8x10 60 pp
Doz. **72c** Gro. **$8.10**



"Kalamazoo Linen"—Ruled, fine quality cream linen paper, excellent writing surface, handsome cover design in colors and gold. 1 doz. in pkg.
87122—5x8, 160 pp.
87123—5½x8, 100 pp.
87124—8x10, 60 pp.
Gro. **$8.10** Doz. **72c**

"Kalamazoo Linen"—Ruled, fine quality cream linen paper, excellent writing surface, handsome cover design in colors and gold. 1 doz. in pkg.
87125—5x8, 160 pp.
87126—5½x8, 100 pp.
87127—8x10, 60 pp.
Gro. **$8.10** Doz. **72c**

"Napoleon"— Ruled, fine quality white wove paper, excellent writing surface, well known Napoleon cover 1 doz. in pkg
87028—5x8 80 pp
87029—5½x8 50 pp
87030—8x10, 32 pp.
Gro. **$4.75** Doz. **42c**



"Crown Linen"— Ruled, fine quality cream linen paper white coated cover with embossed gold crown and title. 1 doz in pkg
87038—5x8 80 pp.
Gro. **$5.25** Doz. **45c**

MINNESOTA "STATE SEAL" WRITING TABLET

87047—5x8 80 pp. ruled white wove paper state seal of Minnesota printed on blue and gold on high grade blue mottled cover stock 1 doz in pkg.
Doz **42c**
Gro **$4.80**

MINNEAPOLIS PUBLIC SCHOOL TABLET No. 3

BEACON DEALERS' ASSORTMENTS

The biggest variety and best values you can buy; made up of the items that sell over the retail counter and bring you the best margin of profit

Strictly first quality goods — that will not only sell out clean, but will help to stimulate business in every other department of your store.

H256— $25.00 ASSORTMENT

	Retail s.
200 Pkgs. 1c Mandarin Firecrackers	.01 2.00
40 Pkgs. Tiger XX Firecrackers	.03 1.20
10 Pkgs 40 5c Mandarin Firecrackers	.05 2.00
20 Boxes 2-in. Salutes, 8 in Box	.03 1.00
20 Boxes 3-in. Salutes, 6 in Box	.05 1.00
20 Boxes 3½-in. Salutes, 5 in Box	.05 1.00
20 Boxes 4-in. Salutes, 4 in Box	.05 1.00
20 Pkgs. 5-in. Salutes, 3 in Box	.05 1.00
144 Pcs. B. W. B. Vesuvius Torpedo	.01 1.44
12 Boxes Snakes, 6 in Box	.05 .60
12 Boxes Snakes, 12 in Box	.10 1.20
144 Pcs. Grasshoppers	.01 1.44
60 Pcs. Asst. 10c Novelties	.10 6.00
12 Boxes 8 in. Sparklers	.05 .60
12 Boxes 10 in. Gold Sparklers	.08 .96
12 Pcs. 20 in Gold Sparklers	.05 .60
144 Pcs. Devil on Walk, or Spit Devils	.01 1.44
144 Pcs. Red, Green, Silver Bengal Sticks	.01 1.44
36 Pcs. 2-oz. Sky Rockets	.03 1.08
24 Pcs. 4-oz. Sky Rockets	.05 1.20
24 Pcs. 6-oz. Sky Rockets	.08 1.92
144 Pcs. 2 Ball Roman Candles	.01 1.44
36 Pcs. 6 Ball Roman Candles	.02 .72
12 Pcs. 10 Ball Roman Candles	.05 .60
12 Pcs. 12 Ball Roman Candles	.07 .84
12 Pcs. 6 in Mines	.05 .60
12 Pcs. Little Bill Cap Pistols	.10 1.20
144 Boxes Baby Caps, 150 in Box	.01 1.44
12 Pcs. 6-in. Flower Pots	.05 .60
12 Boxes Red and Green Fire	.05 .60
12 Pcs. Dago Bombs	.10 1.20
4 Pcs. No. 10 Paper Balloons	.25 1.00
12 Bdles. Punk	.05 .60
(Cost you complete 25.00)	$38.20

H257—$50.00 ASSORTMENT

	Retail at
200 Pkgs., 1c Mandarin Firecrackers	.01 2.00
100 Pkgs., 2c Mandarin Firecrackers	.02 2.00
40 Pkgs., Tigers XX Firecrackers	.03 1.20
40 Pkgs., 40/52 S T Mandarin Firecrackers	.05 2.00
40 Pkgs., 40/60 3-in. Mandarin Firecrackers	.07 2.80
40 Pkgs., 40/72 2-in. Mandarin Firecrackers	.10 4.00
20 Boxes, 2 in Salutes, 2 in Box	.05 1.00
20 Boxes, 3-in. Salutes, 6 in Box	.05 1.00
20 Boxes, 3½ in Salutes, 5 in Box	.5 1.00
20 Boxes, 4-in. Salutes, 4 in Box	.05 1.00
20 Boxes, 5-in. Salutes, 3 in Box	.05 1.00
12 Boxes, 2-in Salutes with Flash	.10 1.20
288 Pcs. B. W. B. Vesuvius Torpedo	.01 2.88
12 Pcs Cap Pistols	.10 1.20
12 Pcs Cap Pistols	.15 1.80
144 Boxes, Lapua	.01 1.44
12 Boxes, Snakes, 6 in Box	.05 .60
12 Boxes Snakes, 12 in Box	.10 1.20
12 Pcs. Snakes in Grass	.05 .60
144 Pcs. Grasshoppers	.01 1.44
36 Pcs 5c Asst. Novelties	.05 1.80
24 Pcs. 10c Asst Novelties	.10 2.40
24 Pcs. 15c Asst. Novelties	.15 3.60
36 Boxes 8-in. Gold Sparklers, 10 in Box	.05 1.80
Pcs 10 in Gold Sparklers, 10 in Box	.08 1.92
12 Pcs. 20 in. Gold Sparklers	.05 .60
12 Pcs. 36 in Gold Sparklers	.10 1.20
288 Pcs. Devil on Walk or Spit Devils	.01 2.88
72 Pcs Devil on Walk, or Spit Devils	.02 1.44
12 Pcs Vesuvius Fountains	.05 .60
12 Pcs. Vesuvius Fountains	.10 1.20
144 Pcs Silver Bengal Sticks	.01 1.44
144 Pcs. Red Bengal Sticks	.01 1.44
12 Pcs Red, Green, Silver Meteor Sticks	.05 .60
Boxes Bullets	.05 .60
12 Pcs. Green Torches	.05 .60
12 Boxes Red and Green Fire	.05 .60
12 Boxes Red and Green Fire	.10 1.20
12 Pcs. Rainbow Fountains	.05 .60
12 Pcs. Dago Bombs	.10 1.20
12 Pcs. Dago Bombs	.15 1.80
36 Pcs. 2 oz. Sky Rockets	.03 1.08
24 Pcs. 4 oz. Sky Rockets	.05 1.20
12 Pcs. 8-oz. Sky Rockets	.10 1.20
144 Pcs. 2 Ball Roman Candles	.01 1.44
72 Pcs. 4 Ball Roman Candles	.02 1.44
36 Pcs. 10 Ball Roman Candles	.05 1.80
12 Pcs. 12 Ball Roman Candles	.07 .84
12 Pcs. 16 Ball Roman Candles	.10 1.20
12 Pcs. 6-inch Mines	.05 .60
12 Pcs. 8 inch Mines	.10 1.20
3 Pcs. 12-inch Mines	.25 .75
12 Pcs. 1-oz. Triangles	.05 .60
12 Pcs. 3-oz. Triangles	.10 1.20
12 Pcs. 6 inch Flower Pots	.05 .60
12 Pcs. 10-inch Flower Pots	.10 1.20
4 Pcs. No. 10 Paper Balloons	.25 1.00
24 Bdles Punk (12 in Bdle.)	.05 1.20
(Cost you complete 50.00)	$70.44

H259—$100.00 ASSORTMENT

	Retail at
200 Pkgs. 1c Mandarin Firecrackers	.01 2.00
100 Pkgs. 2c Mandarin Firecrackers	.02 2.00
80 Pkgs. Tiger 2X Firecrackers	.03 2.40
160 Pkgs. Mandarin Firecrackers	.05 8.00
40 Pkgs. Mandarin Firecrackers	.07 2.80
120 Pkgs. Mandarin Firecrackers	.10 12.00
40 Pkgs. Lady Firecrackers	.10 4.00
40 Boxes 2-in. Salutes, 8 in Box	.05 2.00
40 Boxes 3-in. Salutes, 6 in Box	.05 2.00
40 Boxes 3½-in. Salutes, 5 in Box	.05 2.00
40 Boxes 4 Salutes, 4 in Box	.05 2.00
40 Boxes 5-in. Salutes, 3 in Box	.05 2.00
24 Boxes 2-in. Salutes with flash	.10 2.40
100 Boxes Japanese Torpedoes, 10 in Box	.05 5.00
432 Pcs. Vesuvius Torpedoes	.01 4.32
12 Pcs. Cap Cannons	.10 1.20
48 Boxes Cannon Ammunition	.05 2.40
12 Pcs. Single Shot Cap Pistols	.10 1.20
12 Pcs. Single Shot Cap Pistols	.15 1.80
12 Pcs. Repeating Cap Pistols	.25 3.00
60 Boxes Repeating Cap Pistol Ammunition	.05 3.00
144 Boxes Paper Caps	.01 1.44
24 Boxes Snakes	.05 1.20
24 Boxes Snakes	.10 2.40
12 Boxes Snake in Grass	.05 .60
144 Pcs. Grasshoppers	.01 1.44
36 Pcs. Asst. 5c Novelties	.05 1.80
24 Pcs. Asst. 10c Novelties	.10 2.40
72 Boxes 8 in. Sparklers, 10 in Box	.05 3.60
36 Boxes 10 in. Sparklers 10 in Box	.10 3.60
12 Boxes 14 in. Sparklers, 5 in Box	.10 1.20
12 Pcs. 30 in Sparklers	.05 .60
12 Pcs. 36 in Sparklers	.10 1.20
432 Pcs. Devil on Walk, or Spit Devils	.01 4.35
144 Pcs. Devil on Walk, or Spit Devils	.02 2.88
36 Pcs. Devil on Walk, or Spit Devils	.04 1.44
12 Pcs. Vesuvius Fountains	.05 .60
12 Pcs. Vesuvius Fountains	.10 1.20
12 Pcs. Vesuvius Fountains	.15 1.80
144 Pcs. Silver Bengal Sticks	.01 1.44
144 Pcs. Green Bengal Sticks	.01 1.44
12 Silver Meteor Sticks	.05 .60
12 Pcs. Green Meteor Sticks	.05 .60
12 Pcs. Red Meteor Sticks	.05 .60
12 Pcs. Red Torches	.10 1.20
12 Pcs. Green Torches	.10 1.20
12 Boxes Red and Green Fire, Asst	.05 .60
12 Boxes Red and Green Fire, Asst	.10 1.20
12 Pcs Chinese Fountains	.05 .60
12 Pcs. Chinese Fountains	.10 1.20
12 Pcs. Dago Bombs	.10 1.20
12 Pcs. Dago Bombs	.15 1.80
36 Pcs. 2-oz. Rockets	.03 1.08
24 3-oz Rockets	.04 .96
24 Pcs. 4-oz. Rockets	.05 1.20
24 Pcs. 6-oz. Rockets	.08 1.92
12 Pcs. 8-oz. Rockets	.10 1.20
12 Pcs. 1 lb. Rockets	.15 1.80
12 Pcs. 2-lb Rockets	.25 3.00
144 Pcs. 2 Ball Roman Candles	.01 1.44
72 Pcs. 4 Ball Roman Candles	.02 1.44
72 Pcs. 6 Ball Roman Candles	.03 2.16
72 Pcs. 10 Ball Roman Candles	.05 3.60
24 Pcs. 15 Ball Roman Candles	.10 2.40
12 Pcs. 25 Ball Roman Candles	.15 1.80
12 Pcs. 6-in. Mines	.05 .60
12 Pcs. 8 in. Mines	.10 1.20
6 Pcs 12 in Mines	.25 1.50
12 Pcs. 1-oz Triangles	.05 .60
12 Pcs. 3 oz. Triangles	.0 .20
6 Pcs. 4-oz. Triangles	.15 .90
6 Pcs. 2-in. Vertical Wheels	.25 1.50
2 Pcs. 6-in. Flower Pots	.05 .60
2 Pcs. 10-in. Flower Pots	.10 1.20
2 Pcs Asst. Exploders or Fen ther Bombs	.05 .60
80 Boxes Eero Exploder Ammunition	.05 3.00
4 Pcs. No. 10 Paper Balloons	.25 1.00
3 Pcs No. 20 Paper Balloons	.50 1.50
36 Bdles Punk (12 in Bdle.)	.05 1.80
	$162.60

(Cost you complete 100.00)

Put All Orders For Fireworks on Separate Order Sheet from Other Goods.

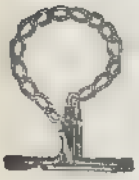
HAND CUFFS

Nickel plated, detective, swivel connection, w't 14 oz.

No. 27—Polished ...per pair $6.00

No. 28—Nickel plated, per pair $7.50

TWISTERS AND NIPPERS



No. 24—Nickel plated, handles inter-locked, w't 3 oz., per dozen..$18.00

No. 20—Nickel plated, w't 4½ oz., each $1.35

No. 21—Automatic, self-closing and locking, w't 7 oz., each $3 40

BEANS' POLICE CLUBS

These clubs are made of sole leather, and brought together under a heavy pressure over steel wires, cemented and riveted, and covered with the same material, securing a perfect surface without break or seams and very slightly elastic. They are the most effective clubs in use.

Nos.	10	12	14
Length, in.,	10	12	14
W't, each ,oz.	7	12	16
Each	$6.50	7.60	9.60

STARS

No. P20—Six point, 3⅜ in with word "Police" enameled .....each $2.60

No. P30—Five point, officers' German silver, finely nickel plated, engraved "City Marshal" or "Chief of Police," as desired, each $2.60

No. P15—Six ball point, officers', German silver, finely plated, engraved "City Marshal," each $2.70

The No. P15 will be engraved "City Marshal" only, at our regular price. For any other wording add 33⅓% to the price.

All stars have strong safety pins. Special designs of stars or badges can be furnished on short notice.

MARBLE'S SAFETY POCKET AXES

No. 5—Polished steel axe, 10¾ in. hickory handle, blade 4¼ in., nickel plated hinged spring guard, the head is designed for driving spikes or stakes, w't 16 oz., per doz. $34.30

See Page 1984 For Full Line Of Police Holsters and Belts.

MARBLE'S SAFETY POCKET AXES

No. 2—Polished steel, axe, 11 in. nickel plated steel handle, 4 in. blade, engraved hard rubber plates, nickel plated steel hinged spring guard, w't 20 oz., per dozen $55.70

HALF DOZEN IN A BOX

BOY SCOUT AXES

AXES ONLY

No. 28—Hand forged, black gun metal finish, one-piece highest grade crucible steel, with nail slot, with 14½ in. select white hickory handles, shaped, without sheath or belt, w't 1 lb., 3 in cut, w't per doz. 16 lbs. .....per dozen $24.00

AXE WITH SHEATH

No. 28S—Axe, as above, with No. 1½ sheath, without belt, per dozen $30 00

AXE WITH BELT AND SHEATH

No. 28BS—With No. 1½ sheath and No. 10 belt, per dozen $34.00

HALF DOZEN IN A BOX

SHEATHS ONLY

Select brown leather sheaths, with belt loops, and nickeled snap catch, but without belt, w't per doz. about 1¾ lbs.

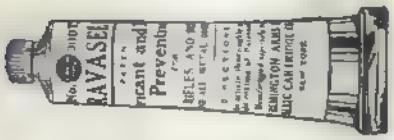
No. 1½—Will fit any of our Scout or Camp axes .....per dozen $6.00

BELTS ONLY

Select black leather belts, 1 in. wide, nickeled steel buckle, for use with above sheaths.

No. 10—Lengths 30 in., w't per doz. 1¾ lbs. .....per dozen $4 00

REMINGTON PARAVASELINE



A superior gun grease for lubricating and preventing rust. Made from pure materials, it is unaffected by climatic conditions and will not "run" in hot weather. This article has been on the market for more than thirty years. It is time tested and will prove a source of satisfaction to all users of firearms.

No. 19—Paravaseline, Superior gun grease for all firearms and fine metals, in. 2¼ oz. tubes, w't per doz. 35 ozs. .....per dozen **$2.40**

ONE DOZEN TUBES IN A CARTON
TWELVE CARTONS IN A CASE

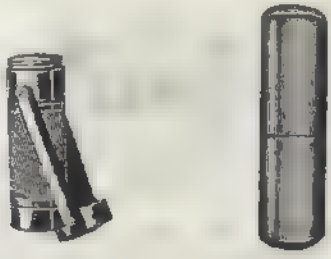
REMINGTON RUST REMOVER

Will remove rust from the bores of gun, pistol and revolver barrels and from exposed metal surfaces. This product contains just sufficient grit for the purpose intended. It is not a lubricant and after use should be removed with a soft cloth, followed by a coat of Remington Oil or Paravaseline.

No. 21—Remington Rust Remover, in round tin boxes, w't per doz. 44 oz. .....per dozen **$4.00**

TWELVE TIN BOXES IN A CARTON

MATCH SAFES



No. 2G Marble's No. 398D Miner's

No. 2G — Marble's, pocket, waterproof, nickel plated drawn brass, size 2¼×¾ in. .....per dozen **$10.50**

No. 398D — Miner's, 1 9/10×2¾ in., waterproof, seamless heavy brass, nickel plated .....per dozen **$2.10**

No. 130D — 1¼×2¾ in., brass, nickel plated, heavy one piece spring, per dozen **$7.50**

No. 840D—1¼×2¾ in., heavy brass, nickel plated, strong spring, per dozen **$3.80**

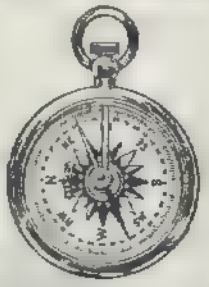
ONE DOZEN IN A BOX

H.S.B. & CO.
REV-O-NOC

We Stand Behind the Brand.

COMPASSES

No. 21—Marble's, 1½ in. stationary dial, nickel plated, jeweled, with safety pin attachment to fasten to coat or belt .....per dozen **$25.70**



No. 23—Leed-awl case of untarnishable metal made of nickel, copper and zinc, needle of properly tempered steel, carefully magnetized, dial of untarnishable silvered metal, diameter 1⅝ in., w't per doz 14 oz., per dozen **$18 00**

ONE DOZEN IN ATTRACTIVE COUNTER DISPLAY CASE

No. 25—Boy Scout, 1⅝ in. aluminum slip cover case, metal disc dial, w't per doz. 6 oz. .....per dozen **$6.00**

ONE DOZEN IN A BOX

No. 24—Telway, case is brass finished in black bronze, diam. 1½ in., thickness § in., has a heavy beveled crystal that serves as a cover making it practically dust and waterproof, w't per doz 9 oz., per dozen **$13.50**

Has a dial of enameled card accurately divided and figured. Needle is of special steel, carefully magnetized and fitted with a jeweled center.

ONE DOZEN ON A CARD

"BEARDMORE" LOCOMOTIVES

LOCOMOTIVES "BEARDMORE." LOCOMOTORAS "BEARDMORE."

LOCOMOTIVES BUILT OF ANY VARIETY OR FOR ANY CONDITION OF SERVICE.

STEAM PETROL ELECTRIC.

MAIN LINE OR NARROW GAUGE. ALSO SPARES OF ALL KINDS, INCLUDING

CYLINDERS, CASTINGS, BOILERS, ETC., ETC.

Construction de locomotives de tous modèles et convenant pour tous services à vapeur—à pétrole—ou électriques.

Pour voies normales ou pour voies étroites.

Pièces de rechange en tous genres, y compris cylindres, pièces de fonte chaudières et roues.

Construcción de locomotoras de todos modelos o para toda clase de servicios ya sean de vapor petróleo ó eléctricas.

Para las lineas principales ó para lineas de vía angosta.

También se fabrican repuestos de todas clases, incluyendo cilindros, piezas de fundición, calderas, etc., etc

WILLIAM BEARDMORE & Co., LTD.

PARKHEAD STEEL WORKS & DALMUIR,

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GLASGOW.

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PARKHEAD, GLASGOW.

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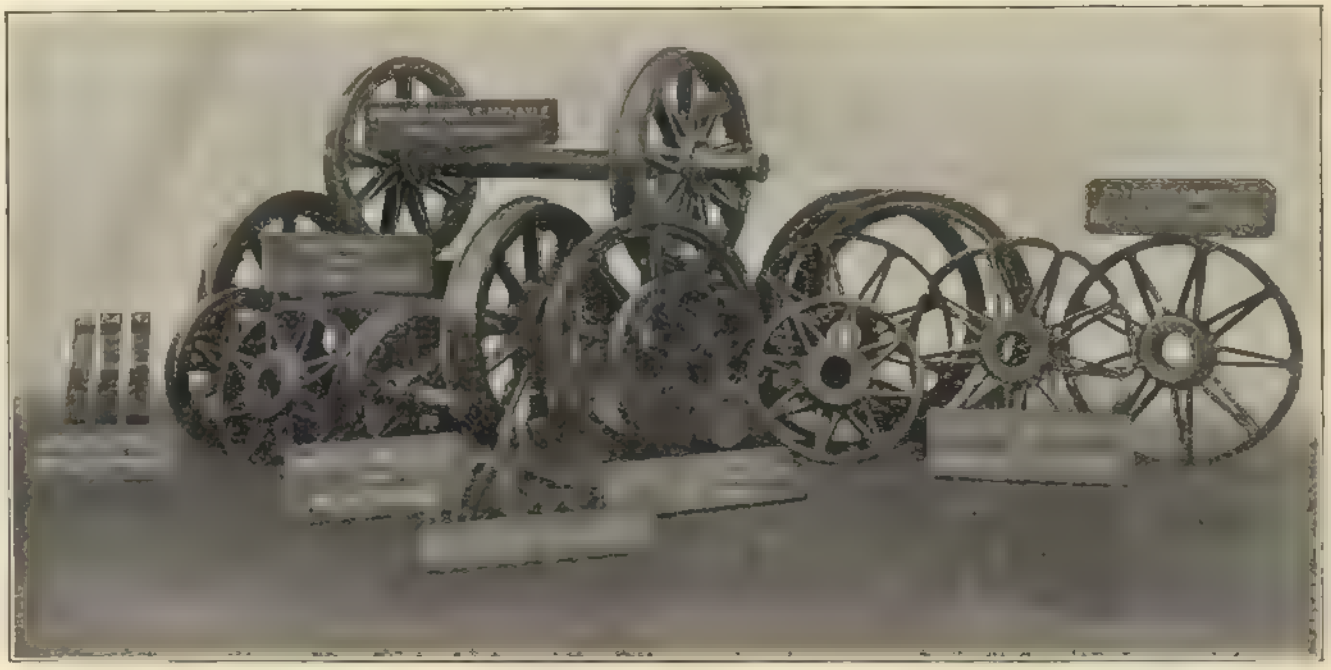
Trunk Calls: 3107.

WHEEL AND AXLE DEPARTMENT.



WHEELS AND AXLES complete for Locomotives, Carriages, Wagons and Tramways.

WHEEL CENTRES: Cold Spokes, Hot Spokes, Cast Steel Discs, Rolled Steel Discs.

AXLES: Carriage, Wagon and Locomotive, Crank and Straight, rough or machined.

TYRES. From 2 ft. to 6 ft. inside diameter for Locomotives, Carriages, Wagons and Tramways.

The Tyres and Axles are made of Open-hearth Acid Steel to British Standard and all high-grade specifications.

BICYCLE BELL ASSORTMENT

MASCOT

Any one of the bells can be sold independently of assortment. Bells individually boxed in a container.

No. 1670—Consists of 12 handsome 2½ in. bells decorated in brilliant colors with unique mascot designs, flat top steel gongs electrically welded to hub of bell, tone unusually pure and free from clatter, w't per ass't 4 lbs., per ass't of 12 Bells....$7.80

ZOO BELL ASSORTMENT

This assortment has proven to be very popular. The gongs are made of the best bell metal and brilliantly ornamented colors. The tones are sharp and musical.

ONE ASSORTMENT IN A CONTAINER

No. 1671—Assortment contains 12 bells, consisting of the following:

3 No. FDL,	3 No. 332B,
2 Turtle design,	1 Serpent,
1 Cherub,	1 Fox,

1 Jewel design.

The gongs are 2⅜ in. in diam., w't per asst. 4½ lbs.,
per assortment $8.60

ONE ASSORTMENT IN A BOX

BICYCLE HORNS

Mechanically operated.

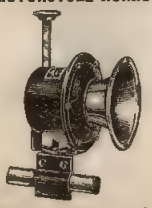
No. 1675—3½x3½ in., all wearing parts heat treated, finished in all black with baking enamel, toothed wheels passing over a hardened special steel adjusting contact point, universal bracket constructed so as to attach to either frame tube or handle bar cross tube, positive and simple in action, no small spring, ratchet or pawls to engage, a real push horn with auto tone, w't per doz. 12 lbs., per dozen $24.00

ONE IN A PACKAGE

Neat and compact horn of standard push type. Positive and simple.

No. 1676—Mechanically operated, finished in all black with baked enamel, with bracket to attach to handle bar, toothed wheels pass over a hardened special steel adjusting contact point, w't per doz. 12 lbs. .....per dozen $16.80

MOTORCYCLE HORNS



No. T6038—115—Stewart, hand operated, finished in black enamel with nickel plated bell, complete with brackets to attach to handle bar or frame, w't each 4 lbs., each $6.70

ONE IN A SUBSTANTIAL WOOD BOX

BICYCLE AND JUVENILE AUTO HORNS

This horn makes a lot of noise for its size. Operated with a small wire crank. Children use their toy wagons, Kiddie Kars and Velocipedes because it looks and sounds like an auto horn. Each Root-Out is furnished with an adjustable clamp for attaching, any convenient place on the bicycle, or juvenile vehicle. Finished in black enamel baked.

No. 1677—Root-O-u-t, w't per doz. 2½ lbs. .....per dozen $3.60

HALF DOZEN IN A BOX

Clears the way with a turn of the crank. The sound is produced by a toothed wheel coming in contact with a roller point on the diaphragm producing a loud and far reaching signal. Toothted wheel and roller contact are tempered. Finished in black enamel baked. Furnished with adjustable nickled bracket for attaching to the bicycle or juvenile vehicle.

No. 1678—Clear-O-u-t, w't per doz. 4 lbs. .....per dozen $9.60

HALF DOZEN IN A BOX

SIREN ALARMS

No. 1680—High grade stamped steel frame, highly polished, outer drums of polished brass, nickel plated, ball bearing shaft with heavy fibre roller which runs on tire, being practically indestuctible, chain attachment, screen presed in., all parts interchangeable, w't per doz. 15 lbs., per dozen $18.00

ONE IN A BOX

UNION CARBIDE

Prices on Application

No. F2.

No. F10.

"HALF-INCH" is specially selected and specially sized for use in automobile generators, bicycle lamps, motorcycle generators, hunters' lamps, fishing lamps, camping lamps, watchmen's dark lanterns' steam boiler inspection lamps, hand lanterns and numerous other small pieces of portable Acetylene apparatus designed for the use of Carbide of this size.

Because of its high gas yield, special selection, uniform size, freedom from dust, and its uniform quality, is most economical and satisfactory for use in apparatus for which this size of Carbide is adapted.

Each can is equipped with a compression top which can easily be replaced in position, so that the Carbide remaining in the can will be thoroughly protected from air and moisture.

Will keep indefinitely if protected from air and moisture.

No. F2—In 2 pound cans★ .....per case $.....

No. F10—In 10 pound cans★ .....per case .....

24 TWO-POUND CANS; 6 TEN POUND CANS IN A CASE. WE DO NOT BREAK CASES OF TEN POUND CANS

No. F25.

No. F100.

"MINERS' LAMP" is specially selected and perfectly adapted for use in miners' lamps.

Because of its high gas yield, special selection, uniform size, freedom from dust, and its uniform quality, is the most economical and satisfactory Carbide for use in miners' lamps.

Packed in substantial sheet steel drums.

This very convenient 25-pound drum enables the dealer to get Carbide into the hands of the miner in an unbroken package, with no labor—no scooping, weighing or wrapping—and with no loss of Carbide from spilling or exposure.

No. F25—In 25 pound drums★ .....per 100 lbs. $.....

No. F100—In 100 pound drums★ .....per 100 lbs. .....

4 TWENTY FIVE POUND DRUMS IN A CASE WE DO NOT BREAK CASES

Prices on other sizes of carbide not listed above can be had on application.

BICYCLE BELLS

No. 1660 Hibbard—2¼ in., nickel plated and polished, wrought steel gong, bevel beading, push button, continuous alarm, w't per doz. 6½ lbs., per doz. **$12.70**

ONE DOZEN IN A BOX

No. 1661 Hibbard—2 in., nickel plated electric rotary alarm, bell metal gong, handsomely ornamented with fleur-de-lis design, bevel bead, w't per doz. 6 lbs., per dozen **$9.70**

ONE DOZEN IN A BOX

HIBBARD nickel plated and polished, rotary electric alarm, bevel beaded, wrought steel gong.

Nos.	1662	1663
Size, in.	2	2¼
W't, doz., lbs	2¼	3¼
Per dozen	$3.40	6.30

ONE DOZEN IN A BOX

No. 1664—Bronko, 3 in., nickel plated and polished bell metal gong, rotary electric alarm, operated by a lever, fastened to handle bar by lock clamp, w't per doz. 8 lbs., per dozen **$19.80**

ONE IN A BOX

No. 1665—Hibbard, 2½ in., heavily nickel plated and polished, wrought steel continuous ringing chime, rotary electric alarm, alarm continuous during forward and backward action of the lever, w't per doz. 6½ lbs., per dozen **$12.70**

ONE IN A BOX

★ **Items Marked Thus ★ Are Shipped from Factory Only.**

BICYCLE LAMPS

GAS

SOLAR

Cannot Jar or Blow Out and throws a Clear Light 100 ft. ahead. Heavy Stamped Brass, Nickel Plated; Double Convex Front Lens, Ruby and Green Side Lights; Lava Tip Uses Lump Carbide and Burns 6 Hours with One Filling.

Each

No. 3669A—Height 7½ in.; Diam. Front Lens 2½ in.; Diam. Side Lights 1¼ in. $6.00

One in Box; Weight 2 Lbs. Each

SEARCHLIGHT

Automatic in action; Gas is generated only as it is used. Carbide is contained in telescopic compartment in lower part of Lamp; Water Tube passes through center of compartment to feed water supply at bottom of Carbide; Flow of water is regulated by a small Lever at Top; Made of Brass, Nickel Plated Finish; With Universal Bracket.

Each

No. 3669B—Height 7 in.; Diam. Lens 2½ in.; Diam. Side Lights 1¼ in.....$5.50

One in Box; Weight 2 Lbs. Each

TWENTIETH CENTURY

Adjustable Bracket holds Lamp rigid and throws Light at any desired angle, Fastens to either Head or Fork. Made of Brass, Nickel Plated, Aluminum Reflector; Convex Lens, Red and Green Side Lights, Lava Tip; Uses Lump Carbide and Burns from 5 to 6 Hours with One Filling.

Each

No. 3669C—Height 7 in.; Diam. Front Lens, 3½ in.; Diam. Side Lights 1¼ in. ..$6.00

One in Box; Weight 2¼ Lbs. Each

EXTRA LAVA TIPS

No. 3669C4—Will Fit Any Gas Lamp; Non-Carbonizing... ..... Per Dozen $1.20

Open Stock

DELTA ELECTRIC

Electric Headlights, operate on ordinary Dry Batteries, Powerful Parabolic Reflector; Fitted with Universal Bracket; Heavy Steel Case, Black Enameled

Batteries Not Included

No. 3669D—Burns 30 Hours intermittently on One No. 6 Dry Battery; Fitted with 1.5 Volt Genuine Mazda Bulb; Diam. of Lens 2 in.; Size of Battery Case 7½x3 in. $3.20

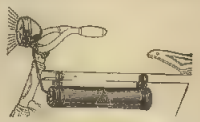
Each

One in Box; Weight 1½ Lbs. Each

EXTRA BULBS

Each

No. 3669E—For No. 3669D Lamp; 1.5 Volts $0.30



Batteries Not Included

No. 3669F—Burns 50 to 60 Hours intermittently on Two No. 6 Dry Batteries; Fitted with 2.8 Volt Genuine Mazda Bulb; Diam. of Lens 3 in.; Size of Battery Case 14½x3 in. $3.60

Each

One in Box; Weight 2¼ Lbs. Each

EXTRA BULBS

Each

No. 3669H—For No. 3669F Lamp; 2.8 Volts $0.30

Batteries Not Included

COMBINATION HEAD AND TAIL LIGHTS

With 3½ in. Lens

Each

No. 3669H4—One Battery; Burns 40 Hours $4.00

No. 3669M7—Two Battery; Burns 50 Hours 6.00

EXTRA BULBS

Each

No. 3669E—For No. 3669H4 Lamp....$0.30

No. 3669H—For No. 3669H7 Lamp.... .30

BICYCLE WRENCHES

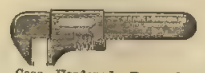
Drop Forged from Bar Steel; Rounded Edges, Nickel Plated, Polished; Never slips under strain nor rounds the corners of Nuts.

Per Dozen

No. 3669J—4½ in. Long, Thickness of Jaws ⅛ in., Opens 1⅜ in. $18.00

One in Box

Weight 5½ Lbs. Dozen



Case Hardened; Rounded Edges; Nickel Plated, Polished; Strong and Neat.

Per Dozen

No. 3669K—5 in. Long; Thickness of Jaw ⅛ in., Opens 1¼ in. $8.50

One in Box

Weight 8¾ Lbs. Dozen

Per Dozen

No. 3669L—Polished Steel, Satin Finish; Length 5 in.; Thickness of Jaw ⅛ in., Opens 1¼ in., Rounded Edges.....$6.00

One Dozen in Box

Weight 3¼ Lbs. Dozen

Per Dozen

No. 3669M—Dull Finish, Length 5 in., Thickness of Jaw ⅛ in., Opens 1¼ in., Rounded Edges $4.50

One Dozen in Box

Weight 3¼ Lbs. Dozen

SPOKE AND NIPPLE GRIPS

Per Dozen

No. 3669N—Perfect; 3 in. Long; Jaw ⅜ in. Thick; Opens ⅜ in.; Case Hardened, Blued Steel, Coil Spring in Jaw causes it to open automatically, as Adjustable Screw is released; Spokes may be Tightened and Wheel Trued without taking to Repair Shop..$14.50

One Dozen in Box

Weight 1¾ Lbs Dozen

Fit Any Size Spoke or Nipple

Per Dozen

No. 3669P—2 in. Diam.; Slot 1½ in. Deep, ⅛ in. Wide at Base, ⅛ in. at Outer Edge; Knurled Edge gives Fingers a firm Grip; Concaved to fit closely to Rim.....$2.00

One Dozen on Card

Weight ⅞ Lb. Dozen

CYCLOMETERS

VEEDER

No. 3669R

For measuring distance traveled, both for a single trip and total Mileage; Nickel Plated, Dust and Waterproof; Absolutely accurate, Large figures, close to glass and easily read without dismounting, elastic friction clamp prevents star wheel from skipping or spinning; Will register a total of 10,000 miles, when next registration will be 00000.

No. 3669T

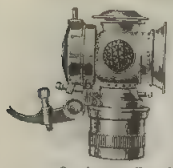
Per Dozen

No. 3669R—Trip; Small Dial may be set back to Zero at will, thus Registering Mileage of Each Trip, while Large Dial Registers Total; Weight 3¼ Lbs. Dozen..... .....$50.00

No. 3669T—Regular; Without Single Trip Dial; Otherwise same as No. 3669R; Weight 1½ Lbs. Dozen..... 32.00

One in Box with Directions; One Dozen in Carton

BICYCLE LAMPS



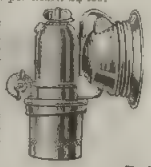
SOLAR GAS

Made entirely of brass, nickel plated, with removable aluminum reflector. Projects an intense white light 100 feet ahead; with combination bracket to fit cycle head or fork. Each

No. 1SG—7 in. high, with 2⅝ in. double convex front lens and 1½ inch ruby and green jewel side lights, burns 5 hours $9 45

One in a cardboard box; weight per dozen 24 lbs.

LIBERTY GAS



Made entirely of brass, except the bracket, with all parts highly polished and nickel plated, and easily accessible for interchanging. Has a large finely polished reflecting surface with a 3 inch convex front lens and projects a very bright light. Fitted with ½ inch gas tip and has a brass needle valve for regulating water flow and standard bayonet lock carbide pot retaining device.

Each

No. 1LGB—Height 6 inches; burns 5 hours $6 75

One in a carton; weight each 1¼ lbs.

LAMP TIPS

ALCO

The Alco tip is an air holed tip, made from the finest American lava, and is the best tip made. Fits all American lamps.

Per Dozen

No. 1LT—About ⅝ foot $1 65

One gross in a cardboard box; weight per dozen about 2 ozs.

BICYCLE BELLS

Made of the best cast bell metal and steel and carefully fitted with the best mechanism. Clear, loud sounding tones. Every bell carefully inspected before leaving the factory.

Double stroke with chime effect. Produces clear and harmonious tones. Mechanism simple, strong and sure. Nickel plated; adjustable clamp.

Per Dozen

No. 15—2¼ inch nickel plated gong $25 20

One in a cardboard box; weight per doz. 9½ lbs.

Fancy bell metal top. Electric push button. Will ring continuously for about two minutes then has to be rewound by turning gong to the right. Clamp fastens with screw. Neat in design and heavily nickel plated.

Per Dozen

No. 10—2¼ inch flanged gong $21 00

One in a cardboard box; weight per doz. 6½ lbs.

Per Dozen

No. 8-b—2½ in. wrought metal gong; rotary movement; stationary gong; works smoothly and will not catch; nickel plated $17 70

One in a cardboard box; weight per dozen 6¾ lbs.

BICYCLE BELLS

Per Dozen

No. 110—2 inch gong; screw clamps; continuous ringing, revolving top, wrought metal gongs; full nickel plated $15 00

One in a cardboard box; weight per dozen 4¾ lbs.

Per Dozen

No. 571—2 inch gong; screw clamp; electric stroke; rotary movement; cast bell metal gongs; nickel plated $13 50

One in a cardboard box; weight per dozen 4¾ lbs.

Per Dozen

No. 49—1¾ inch gong; screw clamps; American flag enameled in colors; electric stroke; rotary movement; cast bell metal gong; nickel plated $12 00

One in a cardboard box; weight per dozen 3½ lbs.

Per Dozen

No. 610—2¼ ins. gong; screw clamp; electric stroke; rotary movement; wrought metal beaded gong; full nickel plated $9 00

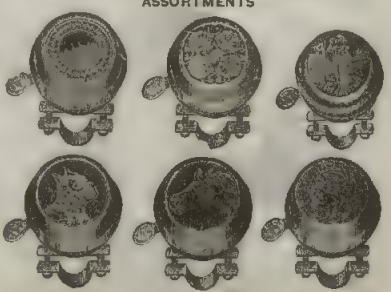
One in a cardboard box; weight per dozen 3 lbs.

Cast steel gong, pressed steel base screw clamp, electric stroke, polished.

Nos.	70	71	72
Diam., in.	1¾	2	2¼
Wt. doz., lbs.	3	6	8
Per Dozen	$6 75	7 95	10 05

One in a cardboard box

ASSORTMENTS



Fancy designs in colors, made of best cast bell metal, strong and durable, with screw clamp.

Assorted designs and finishes, diameter 2½ inches.

Per Dozen Assorted

No. 25M—Assortment consists of twelve bells, two of each design $11 25

One assortment in a carton; weight per assortment about 4 lbs.

ELECTRIC BICYCLE LAMPS

DAD'S

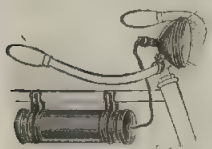
Black enameled lamp with highly polished solid aluminum reflector, 3 inch convexed lens, and an adjustalbe clamp for attaching to handle bar. Heavy gauge steel battery case, baked black enamel gloss finish, 7½ in. long, 5¼ in. wide and 2¾ in. thick, for 2 batteries. Clamps for attaching to bicycle frame are covered with rubber to prevent marring. Takes 6 Columbia dry cell batteries (shown on page 1103), and will give approximately 50 hours continuous service or 6 months ordinary use.

Complete with all necessary attachments, 3 feet of high grade rubber covered twisted wire and full instructions for attaching.

Price does not include batteries.

	Per Dozen
No. DBL—Less battery; with No. 2983 bulb	$108 00

One in a carton; weight each complete 2½ lbs.



Black enamel gloss finish lamp, with silver plated reflector and 3¾ inch lens, with adjustable clamps for attaching to handle bar; equipped with the special Ediswan slide type, positive lock switch; cold rolled steel battery case, black enameled finish, with clamps for fastening to frame.

One battery will give 30 to 40 hours continuous service and in ordinary use will last 4 to 6 months.

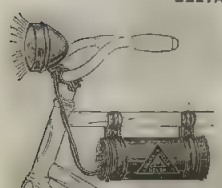
Complete with two silk covered conductor wires, 16 inches long, with plain battery connectors on one end and the other end is attached to the switch socket.

Price does not include battery.

	Per Dozen
No. 30B-1—With single battery case	$53 40
No. 30B-2—With double battery case	60 90

One in a carton; weight each complete about 3 lbs.

DELTA



Black enamel gloss finish lamp, with triple silver plated reflector and 2¼ inch lens, producing an intense projected light; with clamps for attaching to handle bar, and nickel plated screw for turning light on and off, cold rolled steel battery case, black enamel gloss finish, 7⅜ inches long, with clamps for fastening to frame. Takes No. 6 Columbia Dry Cell Battery, shown on page 1103). One battery will give 30 to 40 hours continuous service and in ordinary use will last 4 to 6 months.

Complete with two silk covered conductor wires, 16 inches long, with plain battery connectors on one end and pin terminals on the other, which are inserted in rear of lamp.

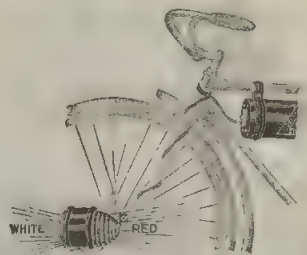
Price does not include battery.

	Each
No. 8B—Less battery, with No. 1191 bulb	$4 20

One in a carton; weight each complete about 2 lbs.

ELECTRIC BICYCLE LAMPS

DELTA



A combination head and tail lamp. Made of rolled steel, enameled black; gloss finish. Shows a bright white front light and a clear red rear light. The rear lense is of a beehive type while the front is of a flat type. Can be attached to front axle bolt on left side of any make bicycle.

Furnished complete with cold rolled steel battery case; black enameled gloss finish, 7⅜ inches long, with clamps for fastening to frame.

Takes No. 6 Columbia Dry Cell Battery (shown on page 1103). One battery will give 30 to 40 hours continuous service and in ordinary use will last 4 to 6 months.

Complete with two silk covered conductor wires, with plain battery connectors on one end and pin terminals on the other, which are inserted in the side of lamp.

Price does not include battery.

	Each
No. 80—Less battery, with No. 1191 bulb	$4 50

One in a carton; weight each 2¾ lbs.

BICYCLE LAMPS

SEARCH-LIGHT GAS

The improved "Search-Light" is constructed upon the drip idea. The carbide is in a telescope compartment in the lower part of the lantern and the water tube passes through the center of the compartment so as to feed the water supply at the bottom of the carbide. The flow of the water is regulated by a small lever at the top.

Absolutely automatic in its action the gas is generated only as it is used.

Made of brass, highly polished and nickel plated.

Large jeweled imported side lights. Ground double convex lens.

Has universal bracket. Burns from four to six hours with one filling.

	Per Dozen
No. 5SLG—Height over all 8 inches; diameter of reflector 2¼ inches	$108 00

One in a cardboard box; weight per dozen 24 lbs.

20th CENTURY GAS

Made of brass, nickel plate. Lens 2¾ inches, with spring lens catch; large jewel side lights; parabola reflector. Carbide capacity 4 ounces. Light about 75 candle power, burns 4 to 6 hours.

	Each
No. 11-G—Height 7 in.	$11 40

One in a cardboard box; weight each 22 ozs.

BING'S MECHANICAL TRAINS

Guaranteed clock work mechanism; a big dollar value

T3328—Consists of 6 in. tin steel locomotive, with start and stop lever operating front cab; 2½ in. tender and two 4½ in. Pullmans; complete with 4 sections curved track; New York Central type; total length train 21 inches; each in box.
Dozen 8.00

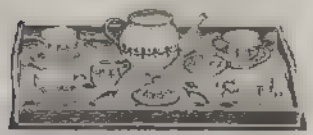
CLIMBING MONKEY

A 25 center for a 10c leader

T3014 — When string is pulled monk climbs string in life like fashion, legs and arms moving; nicely finished; nicely painted in colors; each in box
Dozen 95

METAL TEA SETS

Fine white enamel, china finish with tray



T3380A Sixteen piece set; six 2½-in. saucers with [illegible] creamer, 3 in. tea pot with cover and 4 tea spoons; [illegible] finished varnished hardwood tray 7½x12 ins. Set..... 2.00

T3380B—Same as T3380A but with coffee pot in place of tea pot. Set 2.00

WOOLY GOAT

Good size, good voice

T2256 White flannel wooly covered goat; composition head, painted eyes and mouth, gilt metal horns; on bellows platform; length 3 ins.; height 4 ins.; 1 dozen in box.
Dozen 72

NICKELED SAD IRON

Good size; well finished; enameled handle

T3662 — Nickel plated hood; polished core; black enameled handle; patent claw holding clamp; face 4x1⅞ ins.; 1 dozen in box.
Dozen ... 2.15

CELLULOID PIN WHEEL

Bright colors; large size; big 10 center

T6078—Assorted solid colors, red, white and blue; 4½ in. celluloid 6 section wheel, steel wire pin, protector end; 12 in. natural stick; 1 dozen in pkge. Dozen..... 85

SHAPED TINSEL ORNAMENTS

T6538—Assorted 3 kinds [illegible] oval and cornucopia [illegible] colored cardboard; gold banded and Santa Claus decorated; tinsel handles; size oval 2⅜x4 ins., 2½ deep; 1 dozen assorted in box.
Dozen ..... .38

JOKE NOVELTY BISQUITS

Can't tell 'em from the ones mother bakes

T2399—Assorted 5 kinds of rolls and biscuits; modeled and baked in imitation of the real article, so natural as to deceive anyone; cotton tissue covered; when pressed squeaks; average size 3x3x1½ in.; 1 doz. asst. in box. Dozen.... .37

BING'S STEAM ROLLER

Reversible

T4194 Well built, polished brass boiler whistle, lever for reversing engine; 7⅛ in. [illegible] with coil spring belt connecting with drive wheel; runs straight and in circle; length 7 in., width 3⅝ ins. 4 in. high; each in box. Each 8.25

ROAMING ANIMALS

Assorted; next to life

T3011 Assorted metal bugs, flat turtles, frogs, lobsters, etc.; spool and thread mechanism; pulling on thread winds and unwinds spool, the animal running along in life like manner; average length 3½ ins.; 1 dozen in box.
Dozen ... 39

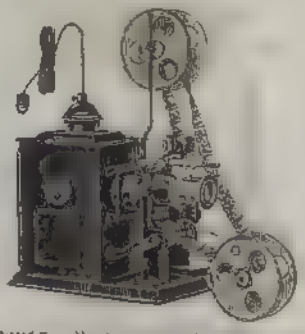
SHAPED PAINT BOOK

A popular 10 cent item

T8132—Assorted 4 kinds, Peek-A-Boo, Pussy, Bow Wow, and My Paint Book; 16 pages, 7 in colors; embossed varnished litho cover in full colors; size 5¾x10½ ins.; 1 dozen in pkge. Doz... .87

MOVING PICTURE MACHINE

With all the very latest improvements



T3915 [illegible] housing; cast iron base; hinged rear door; polished brass focusing lens, thumb screw adjustment, with powerful condensing lens; flicker [illegible] special automatic film tracker which prevents film from tearing, special rewinder with coil spring belt and pulleys, adjustable [illegible] sink; complete with [illegible] 6 ft. cord, plug, lamp adjustment attachment 8 films and 3 dozen lantern slides; size base 5½x10 ins., 18 in. high; each in box Each..... 13.00

WATCH AND FOB

Catchy shape; leather strap

T2526 — Embossed octagon shaped silvered watch, gilt sport fob, leather strap with gilt buckle; length 5¾ ins.; 1 doz. on display card
Dozen ..... .85

COMPOSITION DOLLS

Bisque head, nicely modeled

Bisque turning head, stationary glass eyes, mohair pasted wig; papier mache body, jointed shoulder and hip composition arms and limbs; painted shoes and stockings; white lawn slip.

Stationary eyes

GT333—Length 9½ ins. 1 dozen in box; wrapped. Dozen 2.15

Moving eyes

GT337 Same as GT333, larger and with moving eyes; length 12 ins.; ⅓ dozen in box, wrapped
Dozen 4.23

PLATFORM HORSE

T2218—All wood [illegible] dappled gray hair mane and tail on 1½x4 in stained platform; height 5½ ins.; 1 dozen in [illegible] Doz 48

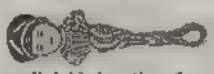
JINNY THE MULE

Bucks like the real animal

T3020—Mule, cart and clown, finished in bright colors; when wound up, mule bucks, and backs; an exact imitation of a balking mule; length 8¾ in.; each in carton, 1 dozen in box Dozen 4.25

CELLULOID RATTLE

Fancy design; popular seller



T4832 Fancy [illegible] celluloid handle; figure head; finished in pink, bright red and tints; length 6 ins.; 1 dozen in pkge.
Dozen ..... .48

TREE ORNAMENTS

Fancy Shapes, beautifully colored

T0291 Assorted balls, acorns, etc., in bright colors, nicely finished and [illegible] average height 1 ins.; 3 dozen in box. Gross... 82

GT6146—Assorted fancy embossed balls, fruits and fancy shapes with reflectors; bright colors; diam. 2 ins.; 1 dozen in box. Gross..3.75 Doz . .35

GT6268—Bright gold clock; nicely embossed and floral decorated in colors; assorted dials; height 3 ins.; 1 dozen in box
Gross 4.25 Doz.. .40

MECHANICAL BOAT

Strong spring, runs at high speed

T3191 -Red, white and blue enameled hull; with pilot house, lookout, two funnels and two masts, flying flags; guard rail fore and aft; strong spring driving three blade propeller, adjustable rudder; length 9½ ins.; each in box. Doz .. 3.25

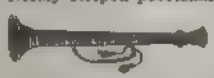
CARNIVAL RATTLE

Little, but loud

T2842— Lithographed paper covered 1x2¾ in. cylinder; round handle; with 2 metal balls on spring clappers; length over all [illegible] ins. Dozen. .35

TRI COLOR TRUMPET

Nicely striped porcelain mouth piece



T2732 — Red, white and blue striped; porcelain mouthpiece; 2¾ in. bell 2 dozen in box. Dozen ..... .39

PRANCING HORSE

On platform; finely modeled with saddle and bridle

Extra heavy composition papier mache bodies, shaped wood head, legs and hoofs, leather saddle and ears, printed martinglas and bridle; natural mane and tail.

T2227—Platform 6x16 [illegible] 13 ins. long, 16 in. high, [illegible] in box Each. . 95

ACROBAT DOLL

Combined rattle and whistle

T4333—3½ in. jointed arm celluloid doll, finished in bright colors, on trapeze bar; with 3¼ in. turned wood whistle handle; length over all 7½ ins.; 2 doz. in box. Doz .43

FLYING BIRD

Flaps wings like live bird

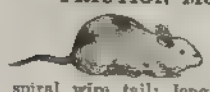
T2406 — Japanese Flying Bird on stick 30 inches long; when stick is whirled about the head, bird flies on long string and flaps its wings continuously Dozen . . 38

TAP TAP PORTER

Always a popular seller

T 3016 Works like real porter; finished in bright blue and yellow; length 6½ in., width 2½ in., height 6 in.; each in carton; 1 dozen in box Dozen 3.50

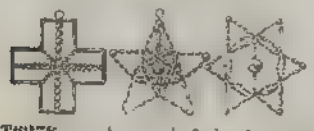
FRICTION MOUSE



T3496 — Gray, all metal, mouse, spiral wire tail; length including tail 4½ ins.; 1 dozen in box Dozen 85

NOVELTY ORNAMENTS

Artistic shapes, bright colored beads



T8278 — Assorted 6 kinds, wire forms, strung with assorted fancy shape [illegible] average diameter ½ ins., 1 doz. assorted in box Dozen .15

MECHANICAL TOURING CAR

Adjustable, straight and in circle

T3127—Gray chauffeur, black and yellow stripings; blue wheels, with chauffeur, runs straight and in circle; good spring; length 7⅛ ins., ½ dozen in carton. Dozen...4.00

NICKELED TEA BELL

Smooth finished and polished, good tone

T4046 Tea Bell; sheet steel, nickeled, 1⅞ in. bell, embossed metal handle; height 3½ ins.; 1 dozen in box Dozen..... .75

SUBMARINE

Floats; fine bath tub toy

T 2377— [illegible] submarine model; with periscope and guns; finished red, green and black; length 4 ins.; 1 dozen in box Dozen 43

METAL TEA SETS

Blue enameled

T3883—8 piece set; blue enameled on heavy base; 2 cups, 2 saucers, shaped tea pot with cover, sugar and creamer, in box 8x10 ins.; ½ dozen in pkge. Dozen.....4.50

EXTRA LOUD WHISTLES

Assorted single and duplex

T 2818 — Full nickel plated; 6 kinds single and duplex, extra loud; length 4¼ inches; 1 dozen asst. in partitioned box. Dozen 82

TERRY CLOTH DOLLS

Soft body, practically indestructible, for young babies

T1757—Turkish toweling bodies, assorted boy, girl and clown, painted features; ribbon collar; practically indestructible; average height 9 ins.; 1 dozen assorted in box Doz 4.50

SWORDS

Bright finish with scabbard

T2886—Bright metal 8 inch blade, fancy gilt and green bound grip, 10 in. bright metal scabard; length over all 13 ins., 1 dozen in pkge. Dozen 20

T2887—Same, 9¾ in. blade; 13 in. scabbard; length over all 16 ins.; 1 dozen in pkge. Dozen..... .39

JUVENILE WRIST WATCH

Gilt finished with buckle strap

T2524 Hexagon shape, gilt finished metal watch [illegible] leather strap with buckle; [illegible] on card. Gross..2.00 Doz. .20

NEW YEAR BOOKLETS

In envelopes

B969—Assorted 2 [illegible] colored [illegible] finished stock, color edge, silk ribbon tied, 4 pages and cover, with greeting [illegible], size 3½x4½ ins., 25 in package. 100.. . 6.00

CHRISTMAS BOOKLETS

In envelopes

B971—Assorted 2 designs; 4 pages and cover; rough wove stock, gilt edge; silk ribbon tied; ornate panel decorations in colors; greetings and verse; size 3¼x4¼ ins.; 25 in package, with envelopes. 100.. .....5.50

BAZOOS

A novice can play any tune with a little practice

T2828 [illegible] height [illegible] [illegible] [illegible]

BING'S GUARANTEED MECHANICAL TRAINS

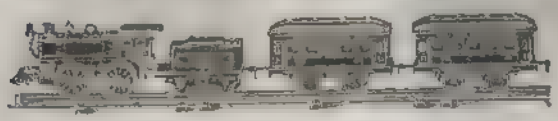
These are unquestionably the finest mechanical trains built, all are equipped with extra strong clock work mechanism and fully guaranteed, every number is handsomely finished in bright colors and striped where type trains are mentioned colorings correspond with the painting and trimmings of the lines designated.

FOR "O" GAUGE TRACKS

T3227—Consists of 6 in. tin steel locomotive, 3 in. tender and 4 in. passenger coach; complete with 4 sections curved track; nicely finished in colors and striped; total length train 12 ins., each in box. Dozen.....6.75

T3228—Consists of 6 in. tin steel locomotive, with start and stop lever operating from cab; 2½ in. tender, and two 4½ in. Pullmans; complete with 4 sections curved track; New York Central type; total length train 21 inches; each in box. Dozen. 8.00

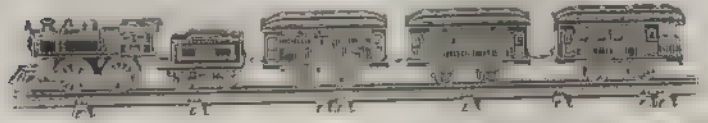
T3229—Consists of 6 in. cast iron locomotive, with start and stop lever operating from cab; 3 in. tender, two 5½ in. Pullmans (train can be stopped by brake section); New York Central type; complete with 8 sections curved track, total length train 23½ ins.; each in box. Each. 1.32



With right and left switches

T3231—Consists of 6 in. cast iron locomotive, with start and stop lever operating from cab; 3 in. tender; two 5½ in. Pullmans (train can be stopped by brake sections); New York Central type; complete with 10 sections curved, 4 sections straight track and one pair right and left switches; total length train 23½ ins.; each in box. Each. 2.65

T3230—Consists of 7½ in. cast iron locomotive, with nickeled piston rods; 3½ in. tender, one 6 in. baggage car with sliding doors; one 6 in. Pullman, and one 6 in. observation car; start and stop lever in cab; New York Central type, (train can be stopped by brake section); complete with 8 curved and 4 straight sections track; total length train 32 ins.; each in box. Each.. 2.85

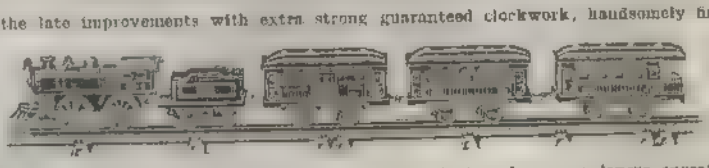


T3232—Consists of 7 in. cast iron locomotive, nickeled piston rods; 3½ in. tender; 5½ in. baggage car with 2 sliding doors; 5½ in. Pullman, and 5½ in. observation car; start and stop lever in cab; [illegible] straight track and 1 pair right and left switches, total length train 32 ins., each in box. Each. 3.75

T3237—Consists of 9-in. cast iron locomotive; 4 small wheels and 4 large drive wheels, double piston nickeled [illegible] in. tender, 5½ in. baggage car with [illegible] doors, 5½ in. Pullman, 5½ in. observation car, with 8 sections curved track, 4 sections straight track, 1 pair right and left switches, complete with 8 sections curved 4 sections straight track and 1 pair right and left switches; total length train 32 ins.; each in box. Each 6.00

A GUARANTEED HIGH-GRADE LOW PRICED TRAIN

All the late improvements with extra strong guaranteed clockwork, handsomely finished



T3235—Consists of 7½ in. cast iron locomotive, with stop, start and reverse levers operated from cab, 3 in. tender, 5½ in baggage car with 2 sliding doors, 5½ in Pullman, and 5½ in observation car; (train can be stopped by brake section;); Pennsylvania Line type, complete with 8 sections curved and 4 sections straight track; total length train 33 ins.; each in box. Each.....8.75

MECHANICAL STREET CARS

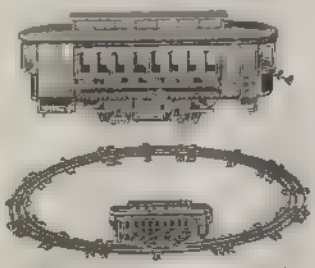
WITHOUT TRACK

T3158—[illegible] enameled metal; open [illegible] windows and front and rear platform entrances; strong [illegible] length 8¼ in., 2¼ in. wide, height (top of car) 3½ ins., each in box. Dozen..... 8.50

T3159—Same, larger; length 10 in., width 2½ ins.; height (top of car) 4½ ins., each in box. Each.. 1.10

WITH TRACK

T3161—Mechanical trolley car and track; strong spring; reversible stamped metal, handsomely finished in bright colors; four sections curved track forming 12 inch circle; length car 5 ins., each in box, complete. Dozen..... 6.50



T3162—[illegible] street car; 7 in. long 2½ in. wide, 3¾ in. high guaranteed clock work mechanism, nickle lithographed in colors and striped; forward and reversible levers; complete with 8 sections curved track, one of which is equipped with stop lever, making circle 26 ins. in diameter; each in box. Each..... 1.00

FIGURE FLOOR TRAINS

WITHOUT TRACK

Different Shaped Lugs

Some of the Formations

T3069—[illegible] long, 4 in. high [illegible] passenger car; clock work mechanism, equipped with 6 detachable lugs each of which when placed in position on locomotive causes train to run in different formations; lugs easy to put on and take off; will run straight, circle, oval, oval with double circle, triangle and figure 8 running on the floor without track; length of train 18 ins.; nicely finished; each in box. Each 1.00

T3070—Same as T3069, larger; locomotive, tender, passenger car and observation car; total length train 26 ins.; each in box. Each .1.72

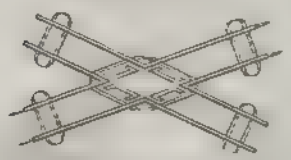
EXTRA PARTS FOR MECHANICAL TRAINS

TRACK

T3241—Straight track units with pins on one end only; length 10¼ ins. Gross....7.25 Dozen.....70

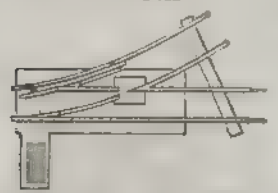
T3242—Curved track units with pins on one end only; length 10¼ ins. Gross 7.25 Dozen . 70

CROSS-OVER



T3243—Cross-over, with pins on two ends only.
Dozen.....3.60 Each ..... .35

SWITCH



T3244—Switch; right and left with lever throw; pins on one end only. Dozen pair. 8.25 Each .75

WARNING SIGNAL

T3415—Cast iron 2½ x2¼ in. base with upright and horizontal sheet steel signal painted in black and white enamel, black lettering on white; height 7 ins. 1 dozen in box. Dozen . 1.95

SEMIPHORE

T3252—Stamped tin steel; lattice design upright; 3 in round base; rod for raising and lowering arm, and pins for holding in position; finished in white, black and red; height 11½ ins.; ½ dozen in box.
Dozen 3.95

SEMIPHORE OIL BURNING

T3251—Oil burning, stamped tin steel 3 in. round base, lattice upright, with double semaphore arms, operated by rods and weights, brass founts for holding oil; height 13¾ ins.; 1 dozen in box.
Dozen . 6.50

With these various parts any child can construct a complete miniature railway system.

LOCOMOTIVES

T3247—Tin steel locomotive, finished in black enamel, [illegible] good strong clock work mechanism, start and stop lever in cab; length 6 ins.; 3¼ in. high; for "O" gauge tracks; ½ dozen in box. Dozen 4.80

T3248—Clockwork locomotive, finished in black enamel, red trim; guaranteed clockwork mechanism; start and stop lever in cab; length 5½ ins., 3¼ in. high; for "O" gauge tracks; each in box. Each . .75

T3249—Clockwork motive, black enameled, red trim; red wheels, nickeled rims, and nickeled piston rods; guaranteed clockwork mechanism; with [illegible] start and stop lever in cab; length [illegible] ins.; 3¼ ins. high [illegible] in box. Each 1.38

TUNNELS

T3441—Embossed metal base in rock formation plaster covered and decorated to represent real stone [illegible] ins. high [illegible] Dozen . 6.50

T3442—Same as 1644[illegible], large and with wood frame; 8x10 ins. [illegible] ins. high; 1/3 dozen in box. Dozen 8.75

T3448—Extra fine wood frame plaster covered, and an excellent reproduction of a mountain railway tunnel; 10x12 ins., 10½ ins. high, each in box. Each 1.00

T3441—Same as 3441, large 11 15 ins. 14 ins. high [illegible] Each 3.75

TELEGRAPH POLES

T3412—All iron; 1¾ in. round base, ½x 10 in. pole, two 2½ [illegible] 8 insulators; nicely finished in colors; height 10¼ ins.; 1 dozen in box
Dozen 3.90

SEPARATE CARS FOR TRAINS

These cars are made of sheet steel, and are exact duplicates of the cars running on the big railroad lines handsomely enameled in colors striped and lettered.

FOR "O" GAUGE TRACK

SINGLE TRUCKS

PASSENGER CAR

T3341 [illegible] 2.75

OBSERVATION CAR

T3330—Observation car, length 5½ [illegible] 2.75

BAGGAGE CAR

T3340—Baggage car; length 5½ ins.; ¼ dozen in box. Dozen. 2.75

CABOOSE

T3348—Caboose; length 5½ ins. [illegible] 2.75

REFRIGERATOR CAR

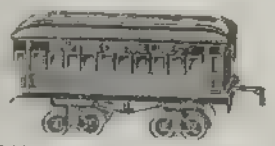
T3338—Refrigerator car; length 5½ ins.; ¼ dozen in box. Dozen 2.75

TANK CAR

T3347—[illegible] 2.75

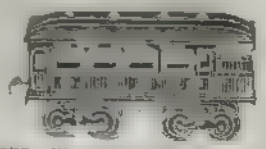
DOUBLE TRUCKS

PASSENGER CAR



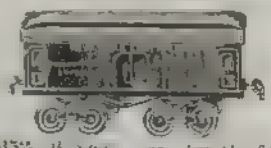
T3349—Passenger car; length 6½ ins.; ⅛ dozen in box. Dozen..4.00

OBSERVATION CAR



T3350—Observation car, length 6½ ins. [illegible] Dozen 4.00

BAGGAGE CAR



T3352—Baggage car, length 6½ [illegible] Dozen 4.00

CABOOSE

T3355—[illegible] length 6½ ins. [illegible] 4.00

CATTLE CAR

T3360—Cattle car, length 6½ ins.; ⅛ dozen in box. Dozen.....4.00

TANK CAR

T3359—[illegible] Dozen 4.00

ASSORTED CARS

SINGLE TRUCK

T3342—Assorted 6 kinds
A—Santa Fe
B—Illinois Central
C—Erie
[illegible]
E—Swift
[illegible]
Length 5½ ins., ½ dozen in box, assorted. Dozen... 2.75

DOUBLE TRUCK

T3353—Assorted 4 kinds
A—Swift
[illegible]
C—B &
D—Santa Fe
Length 6½ ins., 1/3 dozen assorted in box. Dozen .4.00

Kidlyne Body Dolls Full Jointed, Bisque Heads Moving Eyes, Mohair Wigs

N 26692

Each

N26692 Full jointed white kidlyne body with bisque forearms and removable shoes and stockings. Bisque head with moving eyes, fine mouth showing teeth, and real hair eyelashes. Full curly mohair wig with side part and ribbon bow for decoration. Measures 15½ inches, packed 1-12 dozen in box..... **2.50**

N26693—Same description as No. N26692, but measures 18 inches, packed 1 12 dozen to box **3.50**

N26694—Same description as N26692, but measures 21 inches, packed 1/12 dozen in box..... **4.80**

Full Jointed Genuine Kid Dolls

Each

N26696—Full jointed body with bisque forearms and removable shoes and stockings. Bisque head with moving eyes, fine mouth showing teeth, and real hair eyelashes. Full curly mohair sewed wig with substantial side curl, and ribbon bow for hair decoration. Measures 16½ inches, packed 1/12 dozen in box.. **6.80**

N26698—Same description as N26696, but measures 19½ inches, packed 1/12 dozen in box..... **7.80**

N26697 Same as N26695, but measures 20½ inches, packed 1/12 dozen in box **11.80**

Baby Dolls with Bent Legs, Bisque Head with Wigs and Moving Eyes

N26699

Little Sister Character Baby Dolls

Per doz.

N26698 Composition body, arms and legs, jointed at hips and shoulders, giving baby sitting position. Bisque baby head with moving eyes, open mouth showing teeth and baby mohair wig. Chemise trimmed with lace and ribbon rosette. Measures 8½ inches, packed 1/12 dozen in a box..... **8.80**

N26699—Same as N26698, measures 10½ inches, packed 1/12 dozen in box **17.00**

N26700—Same as N26698; measures 13½ inches, packed 1/12 dozen in box **24.00**

Each

N26701—Same as N26698; measures 16 inches, packed 1/12 dozen in box **3.00**

N26702 Same as N26698, measures 22 inches, packed 1/12 dozen in box **7.00**

Sweater Suit Baby Dolls

N 26703

Per doz.

N26703—COMPOSITION BODY DOLLS—Dressed in colored knit sweater suits with colored trimmings, has booties and cap. Jointed at arms and hips insuring sitting baby position. Bisque head with moving eyes, and open mouth showing teeth and baby mohair wig. Measures 9 inches, packed each in box **10.20**

Each

N26704—Same as N26703, but measures 12 inches, packed each in box **2.80**

N26705—Same as N26703, but measures 15 inches, packed each in box **4.80**

We Do Not Break Packages

Kestner's Fine Baby Dolls

Genuine Kestner Crown Baby Dolls

N 25707

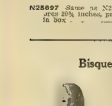
Each

N26706—Dressed in Dutch costume with white lawn baby dress and assorted colored bretelle linen Skipon trimmed with embroidery. Baby underwaist trimmed with lace, removable socks and slippers. Bonnet of brother linen with embroidery, joined with ribbon bow. Composition doll with hips and shoulders jointed, insuring baby sitting position. Bisque head with moving eyes, open mouth showing teeth and tongue and real hair eyelashes. Fine quality mohair baby wig. Measures 13½ inches, packed each in box **2 00**

N26707—Same as N26706, but measures 16½ inches, packed each in box **11.00**

N26708—Same as N26706, but measures 20½ inches, packed each in box. **14.50**

Bisque Dolls



N 25699 N 25966-69

Per doz.

N15900—AMERICAN-MADE BISQUE DOLL—With jointed arms and legs, painted hair, eyes, and ribbon bow. Height 6½ inches, 1 dozen in box **9 50**

N15300—Length, 4¾ inches, 1 dozen to a box, not broken..... **3.40**

N15361—Length, 5 inches, 1 dozen in a box, not broken..... **0.60**

N15362—Length, 6½ inches, 1 dozen in a box, not broken..... **24.00**

BISQUE DOLLS—With jointed arms and legs, painted hair and features, painted shoes and stockings.

Per doz.

N15366—Length, 4 inches, 1 dozen in a box, not broken..... **1.00**

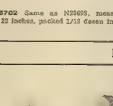
N15368—Length, 4 inches, 1 dozen in a box, not broken..... **.20**

N15367—Length, 4¾ inches, 1 dozen in a box, not broken..... **.80**

N15365—Length, 5 inches, 1 dozen in a box, not broken..... **1.60**

N15369—Length, 5 inches, ¼ dozen in a box, not broken..... **2.80**

BISQUE DOLLS



N15366 N15368

BISQUE BABY DOLLS—With jointed arms and legs, painted hair and features, bent legs, bare feet.

Per doz.

N15366—Length, 5 inches, 1 dozen in a box not broken ..... **.80**

N15365—Fine quality bisque. Length, 4½ inches, 1 dozen in a box, not broken..... **1.50**

BISQUE DOLLS—With jointed arms and legs, mohair wig, painted shoes and stockings.

Per doz.

N15245—Length, 3½ inches, 1 dozen in a box not broken..... **1.30**

N15347—Length, 4¼ inches, 1 dozen in a box, not broken **1.30**

N15348—Length, 5½ inches, 1 dozen in a box, not broken..... **1.50**

N15349—Length, 6½ inches ½ dozen in a box, not broken..... **2.40**

FAT BISQUE BABY—In painted bathing suits; jointed arms, stiff legs, painted hair and features.

Per doz.

N15350—Length, 2½ inches, 1 dozen in a box, not broken..... **.80**

N15352—Length, 3¾ inches, ½ dozen in a box, not broken..... **1.80**

N15372 N15365

FAT BISQUE BABY DOLL—With painted arms, stiff legs, bare feet, painted hair and features.

Per doz.

N15371—Length, 4¼ inches, 1 dozen in a box, not broken..... **.80**

FAT BISQUE BABY DOLLS—With jointed arms, stiff legs, bare feet, painted bobbed hair and painted hair ribbon.

Per doz.

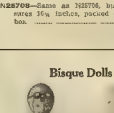
N15353—Length, 4½ inches, 1 dozen in a box, not broken..... **.80**

Fairy Tale Dolls

N15377

N15377—FAIRY TALE DOLL—Bisque figure of Little Boy Blue, painted complexion, yellow hair, painted features, length, 4 inches. Each in a box **1.92**

Bisque Dolls



N 15378 N 15367

Per doz.

N15378—BISQUE AVIATOR—With painted coat, hood and goggles; stiff arms and legs, length, 4½ inches, 1 dozen in a box, not broken..... **9.60**

FAT BISQUE BABIES—With jointed arms, stiff legs, bare feet, painted hair and eyes; fine quality bisque.

Per doz.

N15367—Length, 4¾ inches ..... 1 dozen in a box, not broken **9 60**

N15368—Length, 5 inches ..... 1 dozen in a box, not broken **9 60**

Baby Doll

N15372

Per doz.

N15373—BISQUE DOLL—Pyrex Baby, jointed arms and legs, painted hair and features, with bisque nursing bottle length, 5¼ inches. Each in a box..... **1 92**

JOINTED DOLLS—Continued Mohair Wig—Moving Eyes

We do not break packages

N25600

N25602

Per doz.

N25600—Full jointed composition Doll with glazed natural finish Hisa bisque turning head with moving eyes, open mouth showing teeth. Mohair wig with imitation side part and curls. Cotton chemise with lace collar and cuffs, lace bertha with silk ribbon bow. Removable shoes and stockings. Measures 12½ inches, packed ½ dozen in a box 15.00

N25601—Same as N25600, but measures 14¾ inches, packed ½ dozen in a box 21.00

Per doz.

N25602—Same description as N25600 as far as Doll is concerned, but has curly mohair wig with side part and ribbon bow on hair for decoration. Cotton chemise with lace collar and cuffs, pleated yoke with embroidered braid and two silk buttons for trimming. Measures 13 inches, packed ⅓ dozen in a box 24.00

N25603—Same as above, but measures 14½ inches, packed ⅓ dozen in a box 27.00

Pink Oilcloth Dolls Mohair Wig—Moving Eyes

N25604

Per doz.

N25604—Pink oilcloth washable doll with bisque head, moving eyes, open mouth showing teeth. Curly mohair wig with side part and two ribbon bows. Sewed in arms at shoulders with bisque forearms. Jointed at hips and cut knees. Removable shoes and stockings. Measures 14 inches, packed ¼ dozen in box 21.00

Each

N25685—Same as N25684, but measures 15¾ inches, packed ⅓ dozen in box 2.50

N25686—Same as N25684, but measures 17½ inches, packed ⅓ dozen in box 3.00

Kidlyne Body Doll Hip Joint, Moving Eyes and Wig

N25687

N25687—White kidlyne body doll with bisque head, moving eyes open mouth showing teeth. Curly mohair wig with side part and two ribbon bows. Sewed in arms at shoulders with bisque forearms. Jointed at hips and cut knees. Removable shoes and stockings. Measures 13½ inches, packed ½ dozen in box ..... Dozen 18.00

N25688—Same description as N25687, but measures 15¾ in., packed ½ dozen in box ..... Each 2.00

Each

N25689—Same description as N25687, but measures 18 inches, packed ⅓ dozen in box 2.50

Floradora Kidlyne Dolls

N25690—White kidlyne body with hip and shoulder joints, bisque forearms with removable shoes and stockings. Bisque head with moving eyes, open mouth showing teeth, and real hair eyelashes. Full curly mohair wig with side part, and ribbon bow for decoration. Measures 19½ inches, packed ⅓ dozen in a box 3.50

N25691—Same description as N25690, but measures 22 inches, packed ⅓ dozen in a box 4.50

HAIR-STUFFED MUSLIN BODY DOLLS

Metal Head—Leather Hands

N25673

Per doz.

N25673—Pink muslin body dolls stuffed with hair. Sewed in arms and legs. Imitation leather hands and imitation stockings with removable shoes. Unbreakable metal heads with painted hair and features. Measures 11 inches, packed ½ dozen in a box 4.50

N25674—Same as N25673, but measures 12 inches, packed ½ dozen in box 8.00

N25675—Same as N25673, but measures 14 inches, packed ⅓ dozen in box 13.00

N25676—Same as N25673, but measures 16 inches, packed ⅓ dozen in box 18.00

Metal Head—Mohair Wig—Moving Eyes

N25677

Per doz.

N25677—Pink muslin body dolls stuffed with hair, sewed in arms and legs, composition forearms. Imitation shoes and stockings. Unbreakable metal head with moving eyes, open mouth showing teeth. Full curly mohair wig with side part and ribbon bow. Measures 13¼ inches, packed ⅓ dozen in box 21.00

N25678—Pink muslin body dolls stuffed with hair. Same description as N25677, but measures 13¼ inches, packed ⅓ dozen in a box 2.50

N25679—Same as N25677, but measures 15¾ inches packed ⅓ dozen in a box 3.00

Bisque Head—Moving Eyes and Wig

N25680

Per doz.

N25680—Hair-stuffed muslin body dolls bisque head with moving eyes, open mouth showing teeth. Curly mohair wig with side part and ribbon bow. Sewed in arms and legs with composition forearms. Imitation stockings with removable shoes. Measures 12 inches, packed ½ dozen in box 9.00

N25681—Same as N25680, but measures 16 inches, packed ½ dozen in box 17.00

N25682—Same as N25680, but measures 16 inches packed ⅓ dozen in box 25.00

N25683—Same as N25680, but measures 18½ inches, packed ⅓ dozen in box 30.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

DOLL SPECIALS

IMPORTED SOLID CHINA DOLLS

White china, body, jointed, fastened with elastic cord, hair in wig, in box
Doz. 40c
F6784—2½ in. Doz. 75c

IMPORTED JOINTED CHINA DOLLS

F9768—2¾ in., white china painted features, hair and shoes, jointed arms and legs, 2 doz. in box
Doz. 22c
(Total 44c)

F9640—4½ in., flesh color china, mohair wig, painted features, shoes and stockings, jointed arms and legs, 1 doz. in box
Doz. 40c

IMPORTED BISQUE BABY DOLLS

All bisque, flesh tinted, painted features and eyelids, jointed arms and legs, nursing bottle.

F9625—4 in. 1 doz. in box. Doz. 27c
F9626—4½ in. 1 doz. in box. Doz. 37c
F9627—5 in. ½ doz. in box. Doz. $1.25

IMPORTED BABY DOLLS IN BATH TUBS

1¼ in. sitting, detachable baby painted hair and features, 2¼ in. white china tub, heavy rim, 1 doz. in box
Doz. 45c
F9780—Bisque doll $0.45
F9787—China doll .75c

IMPORTED BISQUE DOLLS

F9648—4¼ in., flesh tinted body, painted hair and ribbon, fancy shoes and stockings, 1 doz. in box
Doz. 36c

F9646—4¼ in., flesh tinted body painted features and hair, bisque hand around head, jointed arms, 1 doz. in box
Doz. 76c

Stout Bodies. Flesh tinted, stout bodies, painted curly hair, bisque shoes and stockings in doz. lots.

F9665—6½ in. Doz. $1.00
F9667—8 " Doz. 1.10

"JAXON" ADJUSTABLE DOLL HANGERS AND STANDS

F7005 F7004

Hangers—Best wire nicely adjusted. 2 doz. in pkg.
F7005—For small and medium dolls. Doz. 60c
(Total $1.50)
F7006—For medium and large dolls . Doz. 80c
Total $1.80

Stands—Metal base, double spring. 1 doz. in pkg. Each 45c

CELLULOID KEWPIES

Heavy celluloid bodies, painted features, hair and bisque shoes, hollow feather weight bodies.

Lapel Pin Kewpies—1½ in., used for favors.
F7160—3 doz. in box. (Total 36c)
Doz. 12c

Kewpies—Jointed arms, too well known to need description.

F7811—2¼ in. 3 doz. in box . . . . Doz. 36c
(Total $1.08)
F7808—3 in. 1 doz. in box . . . . Doz. 60c
F7807—3½ in. 1 doz. in box . . . . Doz. 72c
F7815—4½ in. 1 doz. in box . . . . Doz. 84c
F7814—5½ in. 1 doz. in box. . . . $2.00

CELLULOID DOLLS

Heavy celluloid bodies, painted features and hair unless stated, hollow feather-weight bodies

Floating Dolls—Fixed legs

F7401 2 in., fixed arms. 1 doz. in box Doz. 24c
F7162—4¼ in., fixed arms. 1 doz. in box Doz. 76c
F7162—5 in., moving arms, painted features . . . ½ doz. in box . . . . . Doz. 86c

Character Dolls—2¼ in. jointed arms and limbs Asst. 1 boy and girl exhibition character heads
F7177—Asst. ¼ doz. in box . . . . Doz. $2.00

F7178

Baby Models—Jointed arms and legs, stout bodies, elastic strung

PAINTED HAIR—
F7174—4¼ in. ½ doz. in box . . . . Doz. 80c
F7179—5 in. ½ doz. in box . . . . Doz. $2.50
F7178—10 in. ½ doz. in box . . . . Doz. $7.50
MOHAIR WIGS—
F7175—5½ in. ½ doz. in box . . . . Doz. $2.25

IMPORTED CELLULOID DOLLS

Red Band Baby Dolls—Bisque heads, celluloid bodies, painted features and hair to head around hair to face

F9440 3 in. Doz. $0.25
F9441 4 " .40
F9442 5 " .56
F9433—6 " .88
F9434—7 " 1.60
F9435—8 " 1.75

Jointed Arms and Legs. Spring pull for jointed feature and hair

F9439 3½ in. 3 doz. in box
Doz. 45c
F9439—5 in. 2 doz. in box
Doz. 75c

F9440 Jointed arms, 4 in. standing position, painted features and hair 1 doz in box
Doz. 46c

IMPORTED CHINA LIMB DOLLS

China head, breast plate, forearms and legs, saw dust stuffed, stout muslin body, painted features, hair and footwear

F9469—5½ in. 3 doz. in box
Doz. 36c
F9479—6 in. 1 doz. in box
Doz. 48c
F9473—7 in. 1 doz. in box.
Doz. 90c
F9473—8 in. 1 doz. in box.
Doz. 66c

TURNING HEAD CHINA LIMB DOLLS

Turning china head and bright eyes, china forearms and legs, sawdust stuffed strong red muslin body painted features, hair and footwear

F7178

F9833-62 F9630-69

Regulation Head—

Size	In box	Doz.
F9829—5½ in.	6	$1.25
F9805 12½ "	3	2.25
F9803 15½ "	3	3.50

Character Head—Regulation arm and foot.

	Size	In box	Doz.
F9866—	7½ in.	1 doz.	$0.66
F9867—10½ "		1	2.00
F9868—12½ "		1	2.75
F9869—13½ "		1	3.50

IMPORTED NOVELTY COMPOSITION DOLLS

Flesh tinted composition body, painted features, jointed arms. The smaller sizes can be used for favors.

"Chubby Bridal"—2 styles, painted hair and footwear, satin, lace and gilt trimmed dress, 6½ in. Each

"Little Sister"—6 in., painted hair, silk ribbon bobbed bow, painted footwear.
F9583—1 doz. in box
Doz. 60c

"Jockey Boy"—2 styles, 6 in., flesh tinted composition body, painted features, jointed arms, satin jacket and trousers, velvet cap, whip and spurs.
F9584—Asstd. characters, 3 styles, over, 6½ in., flesh tinted composition body, painted features, jointed arms, satin jacket and trousers and velvet cap. In box 1 doz. pkg.
Doz. 88c

"Baby Buster"—6 in., flesh tinted composition body, painted features, hair, has sand footwear, jointed arms, satin robe trimmed with lace, ribbon and flowers. In box.
Doz. 80c

"Playmate"—2 styles, over 6 in., flesh tinted composition bodies, painted features, hair and footwear, jointed arms, fancy satin dress trimmed with lace and ribbon, satin hat to match. 1 doz. in box.
Doz. $1.00

F9833-62 F9630-69

"Coquette"—Asstd., 11½ in. composition body, arms and legs, brunette curly wigs with ribbon bows, asstd. color wide silk ribbon sashes.
F9845 Asstd. 1 doz. in box . . . . Doz. in pkg. Doz. 88c

F9834—"Sweet Baby", 2 styles, over 5½ in., flesh tinted composition body, painted features, hair and footwear, jointed arms, satin dress trimmed with lace and ribbon, satin hat to match, jointed arms, satin dress, fancy tulle, bonnets to match. 1 doz. in box.
Doz. $1.00

F9851—"Playmate", 2 styles, over 6 in., flesh tinted composition bodies, painted features, hair and footwear, jointed arms, fancy satin dress trimmed with lace and ribbon, satin hat to match, jointed arms, satin dress, fancy tulle, bonnets to match. 1 doz. in box.
Doz. $1.00

F9851—"Playmate", 2 styles, over 6 in., flesh tinted composition bodies, painted features, hair and footwear, jointed arms, fancy satin dress trimmed with lace and ribbon, satin hat to match, jointed arms, satin dress, fancy tulle, bonnets to match. 1 doz. in box.
Doz. $1.00

F9851—"Playmate", 2 styles, over 6 in., flesh tinted composition bodies, painted features, hair and footwear, jointed arms, fancy satin dress trimmed with lace and ribbon, satin hat to match, jointed arms, satin dress, fancy tulle, bonnets to match. 1 doz. in box.
Doz. $1.00

F9851—"Playmate", 2 styles, over 6 in., flesh tinted composition bodies, painted features, hair and footwear, jointed arms, fancy satin dress trimmed with lace and ribbon, satin hat to match, jointed arms, satin dress, fancy tulle, bonnets to match. 1 doz. in box.
Doz. $1.00

F9851—"Playmate", 2 styles, over 6 in., flesh tinted composition bodies, painted features, hair and footwear, jointed arms, fancy satin dress trimmed with lace and ribbon, satin hat to match, jointed arms, satin dress, fancy tulle, bonnets to match. 1 doz. in box.
Doz. $1.00

F9847—"The Flapper", 1 in., flesh tinted composition body, painted features, roguish expression, long and brunette curly wigs with ribbons and color silk ribbon sashes. In box 1 doz. pkg.
Doz. 95c

F9842 "Plaisime Baby", 6 in., flesh tinted composition stout body, painted features, long and brunette wigs, jointed arms, stockinet dress and bonnet.
Doz. $1.20

F9836—With bellows voice, 8 in., flesh tinted composition body, painted baby features, white silk ribbon bow, silk ribbon sashes, when pressed down cries "Mama".
Doz. $2.10

NOVELTY DOLLS

F7008 Height 14 in., spraved flesh color body, painted features, mohair wig and black shoes, jointed arms, regulation voice, each in box . . . doz. in pkg.
Doz. $4.50

F7091—Ht. 16 in., corrugated rubber body painted features, mohair wig, jointed arms, regulation voice, each doll wig set covers tale and two extra wigs in each box . . . doz. in pkg.
Doz. $5.00

F7010 F7001

IMPORTED "BABY BUD" BISQUE DOLLS

Unique dolls that will sell fast at the prices you can name

Fine flesh tinted bisque, painted features, reclining position, fingers and toes slightly curved, movable jointed arms which give different expressions at each pose, each in box

F9896—4 in. 1 doz. in pkg.
Doz. 78c
F9897—5½ in. 1 doz. in pkg.
Doz. $1.10

DOLL HEADS

DRESSES AND TOILET SETS

IMPORTED BISQUE DOLL HEADS

Flesh tinted bisque glass eyes, exposed teeth, fine features, sewed blonde, mohair and brunette mohair wigs

With Stationary Eyes—
F8300—2x3¼ In. flowing hair with bangs, 1 doz. in box. Per doz. $1.50
F8301—2½x3¾ In. with curly hair, 1 doz. in box. Per doz. $2.25
F8307—3½x4¼ In. with curly hair, 1 doz. in box. Per doz. $3.90

With Moving Eyes—
F8315—3½x4¼ In. bobbed curly wig with ribbon head band, 1 doz. in box. Per doz. $2.28
F8316—3½x4¼ In., stylish size part curly wig with ribbon bow, 1 doz. in box. Per doz. $4.25
F8317—3½x4¼ In. mohair center part curly wig, braided side with ribbon bows, 1 doz. in box. Per doz. $8.00
F8318—3½x4¼ In. real eye lashes, stylish center part curly wig, braided sides with ribbon bow, 1 doz. in box. Each $1.26

With Stationary Eyes—Real eyelashes, Waltershausen sewed wig, stitched side part, ribbon bow
F8320—4½x5¾ In. with 3 rows curls, 1 in box. Each $1.26
F8326—5x6¼ In. with 3 rows curls, 1 in box. Each $1.75
F8327—5½x6¾ In. with 3 rows curls, 1 in box. Each $2.10

IMPORTED BISQUE SOCKET DOLL HEADS

Flesh tinted bisque, swing eyes, exposed teeth, fine features, sewed brush wool wig, stitched side part, ribbon bow
F8322—Size 12 in. high. Each $1.20
F8323—Size 14 in. high. Each $1.80
F8327—Size 16 in. high. Each $1.90

IMPORTED HAND-SEWED "WALTERSHAUSEN" WIG ASSTS.

Assorted tones and brunettes fine kanekalon fibre, finely lace shaped to fit head, with real parts and fine

Assortment packed to contain proportionate number of each size as listed below. Dozen

F8350—7 in. to 8 . . . $4.00
F8351—8 " 9 . . . 6.00
F8352—9 " 10 . . . 7.00
F8353—9½" 11 . . . 8.50
F8354—10½" 12 . . . 10.00

IMPORTED TOY NURSING SETS

F8423—7 in. glass nursing bottle with rubber nipple and ring, 2 in cardboard lithographed sets in pkg. Doz. sets 38c

F8428—2½ in. glass nursing bottle with rubber nipple and ring, 2 in cardboard lithographed sets in pkg. Doz. sets 75c

CINDERELLA DAINTY DOLL DRESSES In Litho Label Boxes

Attractively packed to contain proportionate number of each set as listed below. Dozen

F7851—3 pcs. slip over dress and bonnet, petticoat and bonnet of white cambric trimmed with lace and embroidery, ribbon to match, in box. Per doz. $2.50
F7852—4 pcs. slip over dress, bonnet, petticoat and panties of fine nainsook trimmed with lace and embroidery, ribbon to match, in box. Per doz. $4.50

F7854—3 pcs. slip over dress with ruffle trimmed with lace and embroidery, petticoat and bonnet of fine nainsook, ribbon to match, in box. Per doz. $6.00
F7855—4 pcs. slip over dress with ruffle trimmed with lace and embroidery, petticoat, bonnet and panties of fine nainsook, ribbon to match, in box. Per doz. $8.25

DOLLS' TOILET SETS

These sets are made of ebonized white celluloid stock. They will prove ready sellers if shown with your dolls.

F7845—3 pcs. 3 in. comb and brush on litho display card in box. 3 sets in pkg. Doz. sets $2.10

F7847—7 pcs. 3 in. comb and brush, 2 in. mirror, 2 in. file, 2 in. shoe horn, 2 in. button hook, 2 in. nail brush, all in white celluloid, mirror wrapped around edges, set in 6¾x9 in. parchment box. 6 sets in pkg. Doz. sets $8.00

F7854—3 stiles in pan dress with 3 rows of lace on skirt, 2 rows of lace on waist, 2 pairs of drawers trimmed with lace and embroidery, 2 petticoats, 1 with ruffle trimmed with lace and embroidery, 1 with 2 rows of lace, 1 bonnet trimmed with lace and ribbon to match, in box. Per doz. $8.25

F7848—4 pcs. 3 in. comb and brush, 2 in. mirror, 2 in. file, all in white celluloid, mirror wrapped around edges, set in 6¾x9 in. hinged parchment box. 6 sets in pkg. Doz. sets $10.80

F7849—2 pcs. 3 in. comb and brush, 1 in. mirror, 1 in. file, 1 in. shoe horn, 1 in. button hook, 1 in. nail brush, all in white celluloid, mirror wrapped around edges, set in 6¾x9 in. hinged parchment box. 6 sets in pkg. Doz. sets $6.00

F7849—2 pcs. 3 in. comb and brush, 1 in. mirror, 1 in. file, 1 in. shoe horn, 1 in. button hook, 1 in. nail brush, all in white celluloid, mirror wrapped around edges, set in 6¾x9 in. hinged parchment box. 6 sets in pkg. Doz. sets $10.80

KNIT WORSTED DOLL OUTFIT

The "Neat-to-Nature" babies have created a large demand for these.

F7838—Firmly knit small size doll, white and blue & white 3 inch sacques. Small, 1 doz. in box. Per doz. $1.25

HOUSEKEEPING TOYS

TOY FLAT AND SAD IRONS

F3640—3 in. gilt top polished face and sides, Cluminum handle. 1 doz. in box. Doz. 87c

F3641—3¼ in., bright gilt finish, polished face, nickel plated wood handle with nickel ends. 1 doz. in box. Doz. $1.10

F3642—3½ in. polished nickeled top, slide and removable hood black enameled wood handle, 1 doz. in box. Doz. $1.26

F3643—3½ in., Potts' pattern, extra heavy nickeled face, side steel, removable handle varnished knob and flip, with stand. 1 doz. in box. Doz. $1.75

F3644—3½ in. nickel polished face, slide and removable hood, black enameled handle. ½ doz. in box. Doz. $2.10

F3645—3½ in. polished nickeled face, slide and removable hood, black enameled handle. ½ doz. in box. Doz. $4.25

IMPORTED SAND TOY SET

F8598—7 pcs., 6 tin moulds in bright colors over 4 in. size in bright metal case, with wooden handle, in neat set on cardboard and paper trim box. Doz. sets $1.25

CAST IRON WAFFLE IRON

F3646—Cast iron finish, 4 in. square, nickel and varnished wood handles, each 1 doz. in box. Doz. $3.86

BABY GRAND SEWING MACHINE

STAR VALUE

F3802—Nice size, 11 in. long, 5 in. high, nickel plated, black enameled body and frame, polished nickel wheel and hand, 3 in. diameter, with nickel plated balance wheel, gold stripe, gold stars and floral design on table complete with instructions. 1 in box. Each $2.95

IMPORTED TOY SCALES

Each with Indicator

F8527—Two 2½ in. wire trays and balancer on 9½ in. wood colored metal base, 3 doz. in box. Doz. 72c

F8528—Two 3½ in. metal trays and balancer on 9½ in. wood colored metal base with enamel finish, 3 doz. in box. Doz. $1.26

F8529—Two 7½ in. brass finish metal trays and balancer on 9½ in. wood colored metal base with enamel finish, 3 doz. in box. Doz. $2.15

TOY TELEPHONE

F8584—11x8 in. nickel plated base, nickel plated bottom, black enameled tube, receiver and adjustable mouthpiece, nickel plated bell, bell rings by moving receiver up and down, brass gong, indicator with 10 cent slot. Doz. $7.50

TOY IRON RANGES

F8049 F8050

F8049—8½x8¾x4¼ in., high shelf back, moulded lids, hinged door, kettle and skillet. ½ doz. in box. Doz. $2.00
F8051—6x6x5½ in. high shelf back, 4 holes, lids, kettle, skillet and lifter. ½ doz. in box. Doz. $4.25

F8052—8x6x7¼ in., high shelf back, hearth, 4 holes, oven door, hinged fire box doors, kettle, skillet and lifter. ½ doz. in box. Doz. $5.50

F8056—10x6x8 in., high shelf back, hearth, reservoir, side shelf, 4 holes, lids, hinged oven door, kettle, skillet and lifter. ½ doz. in box. Doz. $12.00

F8058—12x5½x10¾ in., high shelf back, hearth, side shelf, 4 holes, lids, hinged oven door, kettle, skillet and lifter, coal scuttle and shovel. 1 in box. Each $1.50

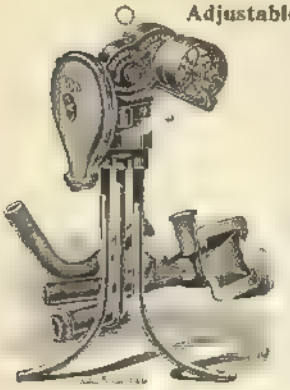
F8061—14x6x13 in. high shelf back, hearth, 4 large lids, water tank with cover, hinged oven door with fire door, grate, extension side shelf, large kettle, saucepan, lifter, coal scuttle and shovel. 1 in box. Each $2.80

F8066—25½x20½x13 in., high shelf back, hearth, water tank with cover, hinged oven door, large size cast iron grate, fourth hole reservoir, 2 side shelves, 4 holes, lids, kettle, saucepan, lifter, coal scuttle and shovel. 1 in box. Each $2.75

BLACKSMITHS' BLOWERS

CHAMPION STEEL BLACKSMITH

Adjustable Ball Bearings



Furnished with No. 400 Champion whirlwind blast anti-clinker heavy nest tuyere iron; high speed spiral geared blower, with 12 inch fan; mounted on iron pipe legged tripod; complete with piping.

No. 400. For hand power only; weight each, complete, 160 pounds .....each, **$74.00**

***No. 400¼.** With tight and loose pulleys; for hand or power use; weight each, complete, 170 lb....each, **97.00**

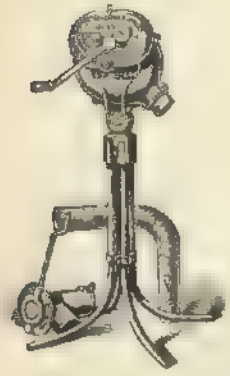
CHAMPION "MIDWAY" BLACKSMITH

Spiral Geared

Built with helical spiral gearing, high speed, inclosed in dust proof casing and running in a constant bath of oil; center blast heavy nest ball tuyere iron; fan 12 inches in diameter; mounted on four steel pipe legs. Complete with piping

No. 70L. For hand power only; weight each, complete, 135 lb... .....each, **$60.00**

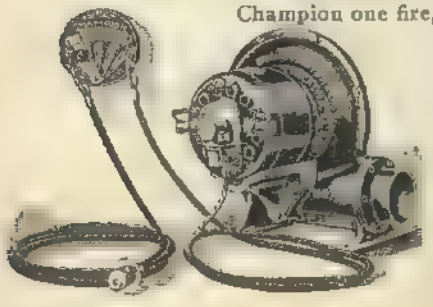
LANCASTER GEARED BLACKSMITHS'



Built with extra large cut gears, running in a constant bath of oil; high speed spindle, with case hardened end thrust, ball bearing, patent adjustable nozzle tuyere iron; fan 12 inches in diameter; mounted on four steel pipe legs; complete with piping

No. 40L. For hand power only. weight each, complete, 110 lb. .. ..each, **$40.00**

CHAMPION BLACKSMITHS' ELECTRIC



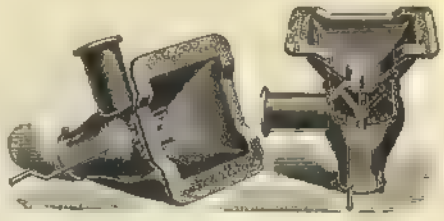
Champion one fire, variable speed, steel pressure blower, with universal motor; will run on both direct and alternating current, either 110 or 220 volts. with detached rheostat for six speeds; attachment cord and plug to fit light socket; steel pressure fan case: outlet 3 inches in diameter

No. 50. For regular fire; weight each 70 pounds..each, **$80.00**

***No. 51.** For extra heavy fire; weight each 85 pounds .....each, **120.00**

*Not carried in stock. Will ship from factory

TUYERE IRONS



CHAMPION WHIRLWIND BLAST

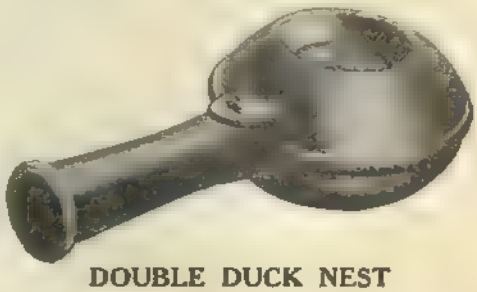
Anti-Clinker Heavy Nest for General Blacksmiths

Concentrates the blast and heat in the tuyere nest, thus makes a hotter fire and heats the iron one third quicker.

No. 400. Champion Whirlwind; length 10½ inches, width 8¾ inches, depth 5 inches, size over all 14¾ x 12⅜ inches; weight each 55 pounds.....each, **$20.00**

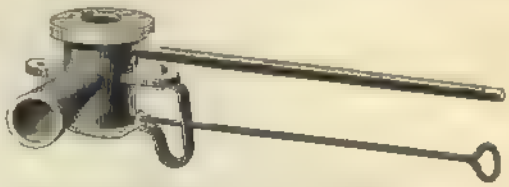
SINGLE DUCK NEST

No. 5A. Single; weight each 8 pounds.....per dozen, **$20.00**



DOUBLE DUCK NEST

No. 10A. Double; weight each 11 pounds..per dozen, **$24.50**



NORTON'S PATENT

To regulate the blast, turn the large rod. The cinders and ashes may be removed by drawing out the small rod which opens the slides. The levers and springs are readily changed to either side for right or left hand use.

No. 1. Heavy pattern; weight each 27 pounds....each, **$3.50**

WARREN'S PATENT

Very simple and easily adjusted.

The blast is regulated by simply revolving the ball, which has three unequal sides. Open the bottom valve, and all cinders and ashes drop out.

No. 1. Heavy pattern; weight each 31 pounds....each, **$6.00**

WELDING COMPOUNDS

BORAX-ETTE

BORAX-ETTE FOR STEEL TRADE MARK REGISTERED AUG. 22 1905 A PERFECT WELDING FLUX PREPARED ESPECIALLY FOR WELDING FAR SUPERIOR TO COMMON BORAX

A high grade flux designed to be applied to the outer surface of the work. Causes the steel to weld like iron at low heat. Will not knock off and leaves the work smooth

Borax-ette. In 5 pound boxes. .per pound. $0.22

BORAX

Powdered, refined, in bulk.. . . ..per pound, $0.28
Lump, refined, in bulk... . ..per pound, .25

CHERRY HEAT

The Best Flux known for Welding

IRON to IRON — Cherry Heat Welding — TRADE MARK — REGISTERED AUG. 22 1905 — COMPOUND — STEEL to STEEL

Welds steel at the lowest possible heat. Adapted for general welding.

And MALLEABLE Iron to Steel.

Cherry Heat. Welding compound, in 5 pound boxes .....per pound, $0.22

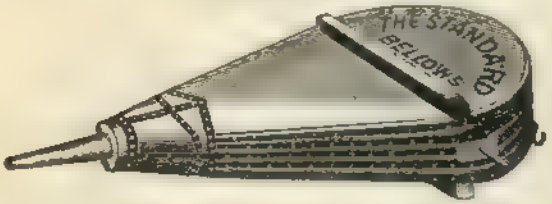
E-Z

GRADES OF STEEL FOR ALL TRADE E-Z MARK WELDING COMPOUND PAT. MAY 27, 1902

Will weld tool steel, plow steel, spring steel axles or steel tire, making a strong weld. Will weld at lower heat than most any flux. Never slips in making a weld and leaves practically no scale. Does not boil up and run off.

E-Z Welding Compound. In 5 pound boxes .....per pound, $0.24

BELLOWS



BLACKSMITHS' STANDARD BELLOWS

Inches	28	30	32	34
Weight each, pounds	45	50	55	65
Each	$21.50	23.50	25.50	29.00

MOULDERS' BELLOWS

Sizes, inches	10	12
Weight per dozen, pounds	29	33
Per dozen	$37.00	48.00

BLACKSMITHS' BUTTERISES

No. 2. Wood handle, polished shank and blades, weight per dozen, 15 pounds.....per dozen, $12.00

FARRIERS' KNIVES

No. 7834. Wostenholm IXL, ⅝ and ¾ inch blades assorted, weight per dozen 2½ pounds .per dozen, $16.00

One half dozen in a box

TIRE MEASURING WHEELS

No. 606. Raised graduations, drop forged steel, weight each about 1¼ pounds.....each, $3.00

BLACKSMITHS' APRONS

No. 100. Leather apron, 27 inches long, 26 inches across, waist strap 30 x ¾ inches, neck strap 24 x ¾ inches..... . .per dozen, $...

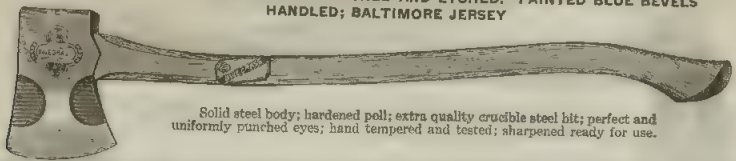
CARPENTERS' APRONS

Very neatly and strongly reinforced with flexible leather patches and three copper rivets Has four pockets and hammer loop. Duck neck and waist band

No. 1. White duck, 21 inches long, 18½ inches wide, weight per dozen 6¼ pounds... ... .per dozen, $.....

AXES

—BLUE GRASS—SINGLE BIT. FULL POLISHED AND ETCHED. PAINTED BLUE BEVELS HANDLED; BALTIMORE JERSEY



Solid steel body; hardened poll; extra quality crucible steel bit; perfect and uniformly punched eyes; hand tempered and tested; sharpened ready for use.

Handled with BLUE GRASS, Hand Shaved, Super Second Growth, All White Hickory, Scroll End Handles.

Weights assorted, lbs			
No. 243-40—Octagon handle } **No. 243-50**—Oval handle } Per Dozen	$67 50	69 00	70 50

Handled with BELKNAP SPECIAL, Hand Shaved, Second Growth Hickory, Scroll End Handles.

Weights assorted, lbs			
No. 243-6—Octagon handle } **No. 243-7** Oval handle } Per Dozen	$66 00	67 50	69 00

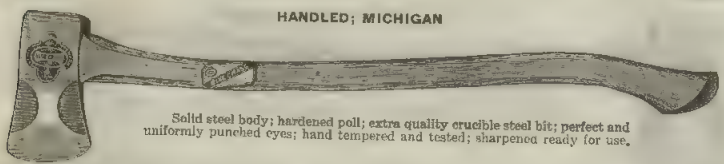
Handled with PRIDE OF KENTUCKY, Hand Shaved, Good Grade Forest Hickory, Scroll End Handles.

Weights assorted, lbs			
No. 243-63 Octagon handle } **No. 243-64**—Oval handle } Per Dozen	$63 75	65 25	66 75

UNHANDLED; BALTIMORE JERSEY

Weights (assorted), lbs	3½ to 4½	4 to 5	4½ to 5½
No. 243 Per Dozen	$48 00	49 50	51 00

HANDLED; MICHIGAN



Solid steel body; hardened poll; extra quality crucible steel bit; perfect and uniformly punched eyes; hand tempered and tested; sharpened ready for use.

Handled with BLUE GRASS, Hand Shaved, Super Second Growth, All White Hickory, Scroll End Handles.

Weights assorted, lbs	3 to 4	3½ to 4½	4 to 5
No. 253-40 Octagon handle } **No. 253-50**—Oval handle } Per Dozen	$66 00	67 50	69 00

Handled with BELKNAP SPECIAL, Hand Shaved, Second Growth Hickory, Scroll End Handles.

Weights assorted, lbs	3 to 4	3½ to 4½	4 to 5
No. 253-6—Octagon handle } **No. 253-7** Oval handle } Per Dozen	$64 50	66 00	67 50

Handled with PRIDE OF KENTUCKY, Hand Shaved, Good Grade Forest Hickory, Scroll End Handles.

Weights assorted, lbs	3 to 4	3½ to 4½	4 to 5
No. 253-63 Octagon handle } **No. 253-64**—Oval handle } Per Dozen	$62 25	63 75	65 25

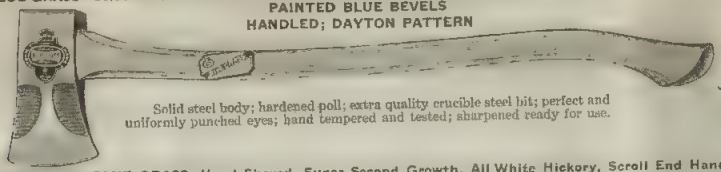
UNHANDLED; MICHIGAN

Weights (assorted), lbs	3 to 4	3½ to 4½	4 to 5
No. 253 Per Dozen	$46 50	48 00	49 50

All of above axes packed one dozen in a wood box.

AXES

—BLUE GRASS—SINGLE BIT. PHANTOM BEVEL (SPECIAL PATTERN). FULL POLISHED AND ETCHED. PAINTED BLUE BEVELS HANDLED; DAYTON PATTERN



Solid steel body; hardened poll; extra quality crucible steel bit; perfect and uniformly punched eyes; hand tempered and tested; sharpened ready for use.

Handled with BLUE GRASS, Hand Shaved, Super Second Growth, All White Hickory, Scroll End Handles.

Weights (assorted), lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 216-40 Octagon handle / No. 216-50—Oval handle	Per Dozen $66 00	67 50	69 00	70 50

Handled with BELKNAP SPECIAL, Hand Shaved, White, Second Growth Hickory, Scroll End Handles.

Weights (assorted), lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 216-6—Octagon handle / No. 216-7—Oval handle	Per Dozen $64 50	66 00	67 50	69 00

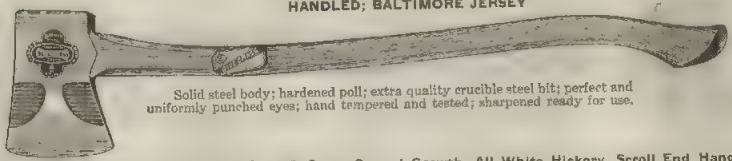
Handled with PRIDE OF KENTUCKY, Hand Shaved, Good Grade Forest Hickory, Scroll End Handles.

Weights (assorted), lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 216-63 Octagon handle / No. 216-64 Oval handle	Per Dozen $62 25	63 75	65 25	66 75

UNHANDLED; DAYTON PATTERN

Weights (assorted), lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 216	Per Dozen $46 50	48 00	49 50	51 00

HANDLED; BALTIMORE JERSEY



Solid steel body; hardened poll; extra quality crucible steel bit; perfect and uniformly punched eyes; hand tempered and tested; sharpened ready for use.

Handled with BLUE GRASS, Hand Shaved, Super Second Growth, All White Hickory, Scroll End Handles.

Weights (assorted), lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 246-40—Octagon handle / No. 246-50 Oval handle	Per Dozen $66 00	67 50	69 00	70 50

Handled with BELKNAP SPECIAL, Hand Shaved, White, Second Growth Hickory, Scroll End Handles.

Weights (assorted), lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 246-6 Octagon handle / No. 246-7 Oval handle	Per Dozen $64 50	66 00	67 50	69 00

Handled with PRIDE OF KENTUCKY, Hand Shaved, Good Grade Forest Hickory, Scroll End Handles.

Weights (assorted), lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 246-63—Octagon handle / No. 246-64 Oval handle	Per Dozen $62 25	63 75	65 25	66 75

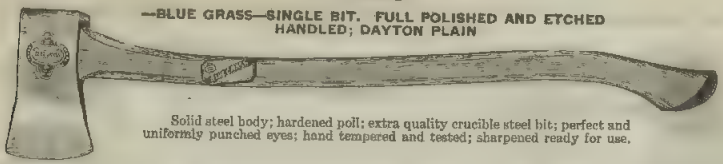
UNHANDLED; BALTIMORE JERSEY

Weights (assorted), lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 246	Per Dozen $46 50	48 00	49 50	51 00

All of above axes packed one dozen in a wood box.

AXES

—BLUE GRASS—SINGLE BIT. FULL POLISHED AND ETCHED HANDLED; DAYTON PLAIN



Solid steel body; hardened poll; extra quality crucible steel bit; perfect and uniformly punched eyes; hand tempered and tested; sharpened ready for use.

Handled with BLUE GRASS, Hand Shaved, Super Second Growth, All White Hickory, Scroll End Handles.

Weights (assorted), lbs.	3 to 4	3½ to 4½	4 to 5
No. 211-40—Octagon handle No. 211-50—Oval handle	Per Dozen	$66 00	67 50	69 00

Handled with BELKNAP SPECIAL, Hand Shaved, White, Second Growth Hickory, Scroll End Handles.

Weights (assorted), lbs.	3 to 4	3½ to 4½	4 to 5
No. 211-6—Octagon handle No. 211-7—Oval handle	Per Dozen	$64 50	66 00	67 50

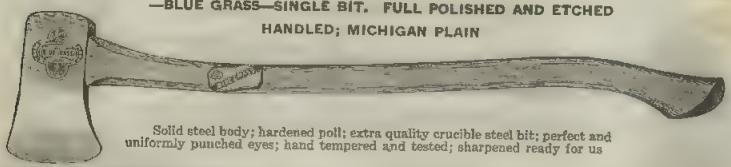
Handled with PRIDE OF KENTUCKY, Hand Shaved, White, Good Grade Forest Hickory, Scroll End Handles.

Weights (assorted), lbs.	3 to 4	3½ to 4½	4 to 5
No. 211-63—Octagon handle No. 211-64—Oval handle	Per Dozen	$62 25	63 75	65 25

UNHANDLED; DAYTON PLAIN

Weights (assorted), lbs.	3 to 4	3½ to 4½	4 to 5
No. 211	Per Dozen	$46 50	48 00	49 50

—BLUE GRASS—SINGLE BIT. FULL POLISHED AND ETCHED HANDLED; MICHIGAN PLAIN



Solid steel body; hardened poll; extra quality crucible steel bit; perfect and uniformly punched eyes; hand tempered and tested; sharpened ready for use

Handled with BLUE GRASS, Hand Shaved, Super Second Growth, All White Hickory, Scroll End Handles.

Weights (assorted), lbs.	3 to 4	3½ to 4½	4 to 5
No. 251-40—Octagon handle No. 251-50—Oval handle	Per Dozen	$66 00	67 50	69 00

Handled with BELKNAP SPECIAL, Hand Shaved, White, Second Growth Hickory, Scroll End Handles.

Weights (assorted), lbs.	3 to 4	3½ to 4½	4 to 5
No. 251-6—Octagon handle No. 251-7—Oval handle	Per Dozen	$64 50	66 00	67 50

Handled with PRIDE OF KENTUCKY, Hand Shaved, White, Good Grade Forest Hickory, Scroll End Handles.

Weights (assorted), lbs.	3 to 4	3½ to 4½	4 to 5
No. 251-63—Octagon handle No. 251-64—Oval handle	Per Dozen	$62 25	63 75	65 25

UNHANDLED; MICHIGAN PLAIN

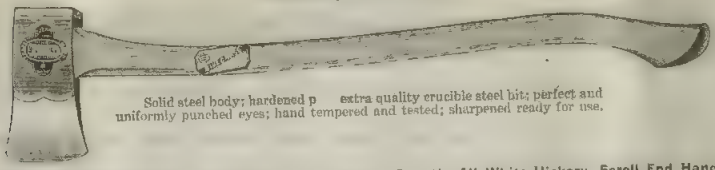
Weights (assorted), lbs.	3 to 4	3½ to 4½	4 to 5
No. 251	Per Dozen	$46 50	48 00	49 50

All of above axes packed one dozen in a wood box.

D-1

AXES

—BLUE GRASS—SINGLE BIT. RED AND GOLD FINISH, LABELED. FULL POLISHED BIT AND POLL HANDLED; DAYTON PLAIN



Solid steel body; hardened p extra quality crucible steel bit; perfect and uniformly punched eyes; hand tempered and tested; sharpened ready for use.

Handled with BLUE GRASS, Hand Shaved, Super Second Growth, All White Hickory Scroll End Handles.

Weights assorted, lbs	3 to 3½	3 to 4	3½ to 4½	4 to 5	4 to 5½	4½ to 6
No. 111-40—Octagon handle / No. 111-50—Oval handle — Per Dozen	$64 50	64 50	66 00	67 50	69 00	69 00

Handled with BELKNAP SPECIAL, Hand Shaved, White, Second Growth Hickory, Scroll End Handles.

Weights assorted, lbs	3 to 3½	3 to 4	3½ to 4½	4 to 5	4½ to 5½	4½ to 6
No. 111-6—Octagon handle / No. 111-7—Oval handle — Per Dozen	$63 00	63 00	64 50	66 00	67 50	67 50

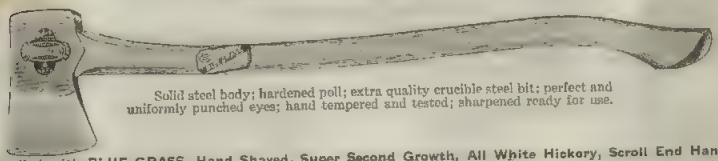
Handled with PRIDE OF KENTUCKY, Hand Shaved, White, Good Grade Forest Hickory, Scroll End Handles.

Weights assorted, lbs	3 to 3½	3 to 4	3½ to 4½	4 to 5	4½ to 5½	4½ to 6
No. 111-63—Octagon handle / No. 111-64—Oval handle — Per Dozen	$60 75	60 75	62 25	63 75	65 25	65 25

UNHANDLED; DAYTON PLAIN

Weights assorted, lbs	3 to 3½	3 to 4	3½ to 4½	4 to 5	4½ to 5½	4½ to 6
No. 111 — Per Dozen	$45 00	45 00	46 50	48 00	49 50	49 50

HANDLED; BALTIMORE KENTUCKY PLAIN



Solid steel body; hardened poll; extra quality crucible steel bit; perfect and uniformly punched eyes; hand tempered and tested; sharpened ready for use.

Handled with BLUE GRASS, Hand Shaved, Super Second Growth, All White Hickory, Scroll End Handles.

Weights assorted, lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 131-40—Octagon handle / No. 131-50—Oval handle — Per Dozen	$64 50	66 00	67 50	69 00

Handled with BELKNAP SPECIAL, Hand Shaved, White, Second Growth Hickory, Scroll End Handles.

Weights (assorted), lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 131-6—Octagon handle / No. 131-7—Oval handle — Per Dozen	$63 00	64 50	66 00	67 50

Handled with PRIDE OF KENTUCKY, Hand Shaved, White, Good Grade Forest Hickory, Scroll End Handles.

Weights (assorted), lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 131-63—Octagon handle / No. 131-64—Oval handle — Per Dozen	$60 75	62 25	63 75	65 25

UNHANDLED; BALTIMORE KENTUCKY PLAIN

Weights assorted, lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 131 — Per Dozen	$45 00	46 50	48 00	49 50

All of above axes packed one dozen in a wood box.

AXES

—BLUE GRASS—SINGLE BIT. PHANTOM BEVEL, RED AND GOLD BODY, LABELED. FULL POLISHED BIT AND POLL, PAINTED BLUE BEVELS

—BLUE GRASS—DOUBLE BIT. FULL POLISHED AND ETCHED HANDLED; WESTERN PATTERN

Solid steel body; hardened poll; extra quality crucible steel bit; perfect and uniformly punched eyes; hand tempered and tested; sharpened ready for use.

Handled with BLUE GRASS, Hand Shaved, Super Second Growth, All White Hickory Handles.

Weights (assorted), lbs.			3½ to 4½	4 to 5
No. 281-40D—Octagon handle No. 281-50D—Oval handle	Per Dozen		$84 00	85 50

Handled with BELKNAP SPECIAL, Hand Shaved, White, Second Growth Hickory Handles.

Weights (assorted), lbs.			3½ to 4½	4 to 5
No. 281-16—Octagon handle No. 281-17 Oval handle	Per Dozen		$82 50	84 00

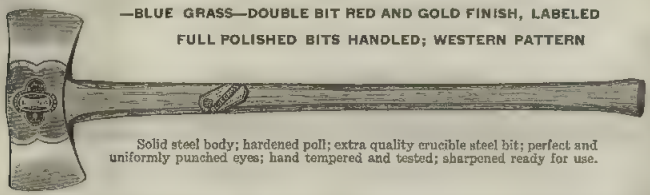
Handled with PRIDE OF KENTUCKY, Hand Shaved, White, Good Grade Forest Hickory Handles.

Weights (assorted), lbs.			3½ to 4½	4 to 5
No. 281-65—Octagon handle No. 281-66—Oval handle	Per Dozen		$78 75	80 25

UNHANDLED; WESTERN PATTERN

Weights (assorted), lbs.			3½ to 4½	4 to 5
No. 281	Per Dozen		$64 50	66 00

—BLUE GRASS—DOUBLE BIT RED AND GOLD FINISH, LABELED FULL POLISHED BITS HANDLED; WESTERN PATTERN



Solid steel body; hardened poll; extra quality crucible steel bit; perfect and uniformly punched eyes; hand tempered and tested; sharpened ready for use.

Handled with BLUE GRASS, Hand Shaved, Super Second Growth, All White, Hickory Handles.

Weights (assorted), lbs.		3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 181-40D Octagon handle No. 181-50D Oval handle	Per Dozen	$79 50	81 00	82 50	84 00

Handled with BELKNAP'S SPECIAL, Hand Shaved, White, Second Growth Hickory Handles.

Weights (assorted), lbs.		3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 181-16 Octagon handle No. 181-17—Oval handle	Per Dozen	$78 00	79 50	81 00	82 50

Handled with PRIDE OF KENTUCKY, Hand Shaved, White, Good Grade Forest Hickory Handles.

Weights (assorted), lbs.		3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 181-65 Octagon handle No. 181-66—Oval handle	Per Dozen	$75 75	77 25	78 75	81 75

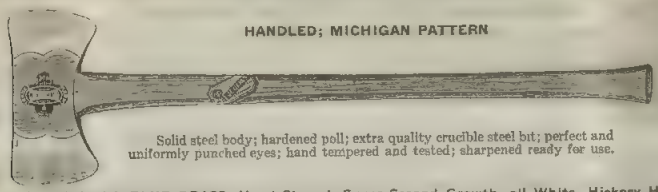
UNHANDLED; WESTERN PATTERN

Weights (assorted), lbs.		3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 181	Per Dozen	$60 00	61 50	63 00	64 50

All of above axes packed one dozen in a wood box.

AXES

—BLUE GRASS—DOUBLE BIT. RED AND GOLD FINISH, LABELED FULL POLISHED BITS



HANDLED; MICHIGAN PATTERN

Solid steel body; hardened poll; extra quality crucible steel bit; perfect and uniformly punched eyes; hand tempered and tested; sharpened ready for use.

Handled with BLUE GRASS, Hand Shaved, Super Second Growth, all White, Hickory Handles.

Weights assorted, lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 191-40D Octagon handle / No. 191-50D Oval handle — Per Dozen	$79 50	81 00	82 50	84 00

Handled with BELKNAP'S SPECIAL, Hand Shaved, White, Second Growth Hickory Handles.

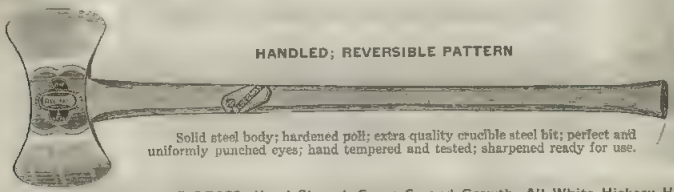
Weights assorted, lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 191-16—Octagon handle / No. 191-17—Oval handle — Per Dozen	$78 00	79 50	81 00	82 50

Handled with PRIDE OF KENTUCKY, Hand Shaved, White, Good Grade Forest Hickory Handles.

Weights assorted, lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 191-65 Octagon handle / No. 191-66 Oval handle — Per Dozen	$75 75	77 25	78 75	86 25

UNHANDLED; MICHIGAN PATTERN

Weights (assorted), lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 191 — Per Dozen	$60 00	61 50	63 00	64 50



HANDLED; REVERSIBLE PATTERN

Solid steel body; hardened poll; extra quality crucible steel bit; perfect and uniformly punched eyes; hand tempered and tested; sharpened ready for use.

Handled with BLUE GRASS, Hand Shaved, Super Second Growth, All White Hickory Handles.

Weights assorted, lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 101-40D —Octagon handle / No. 101-50D - Oval handle — Per Dozen	$79 50	81 00	82 50	84 00

Handled with BELKNAP'S SPECIAL, Hand Shaved, White, Second Growth Hickory Handles.

Weights (assorted), lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 101-16 Octagon handle / No. 101-17 —Oval handle — Per Dozen	$78 00	79 50	81 00	82 50

Handled with PRIDE OF KENTUCKY, Hand Shaved, White, Good Grade Forest Hickory Handles.

Weights assorted, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 101-65 Octagon handle / No. 101-66—Oval handle — Per Dozen	$75 75	75 75	77 25	78 75

UNHANDLED; REVERSIBLE PATTERN

Weights (assorted), lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 101 — Per Dozen	$60 00	61 50	63 00	64 50

All of above axes packed one dozen in a wood box.

AXES

—BLUE GRASS—SINGLE BIT. PHANTOM BEVEL, RED AND GOLD BODY, LABELED. FULL POLISHED BIT AND POLL, PAINTED BLUE BEVELS

—BLUE GRASS—DOUBLE BIT. FULL POLISHED AND ETCHED HANDLED; WESTERN PATTERN

Solid steel body; hardened poll; extra quality crucible steel bit; perfect and uniformly punched eyes; hand tempered and tested; sharpened ready for use.

Handled with BLUE GRASS, Hand Shaved, Super Second Growth, All White Hickory Handles.

Weights (assorted), lbs.			3½ to 4½	4 to 5
No. 281-40D—Octagon handle No. 281-50D—Oval handle	Per Dozen		$84 00	85 50

Handled with BELKNAP SPECIAL, Hand Shaved, White, Second Growth Hickory Handles.

Weights (assorted), lbs.			3½ to 4½	4 to 5
No. 281-16—Octagon handle No. 281-17 Oval handle	Per Dozen		$82 50	84 00

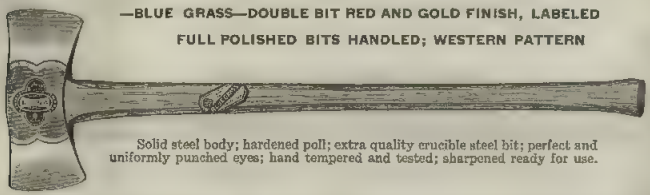
Handled with PRIDE OF KENTUCKY, Hand Shaved, White, Good Grade Forest Hickory Handles.

Weights (assorted), lbs.			3½ to 4½	4 to 5
No. 281-65—Octagon handle No. 281-66—Oval handle	Per Dozen		$78 75	80 25

UNHANDLED; WESTERN PATTERN

Weights (assorted), lbs.			3½ to 4½	4 to 5
No. 281	Per Dozen		$64 50	66 00

—BLUE GRASS—DOUBLE BIT RED AND GOLD FINISH, LABELED FULL POLISHED BITS HANDLED; WESTERN PATTERN



Solid steel body; hardened poll; extra quality crucible steel bit; perfect and uniformly punched eyes; hand tempered and tested; sharpened ready for use.

Handled with BLUE GRASS, Hand Shaved, Super Second Growth, All White, Hickory Handles.

Weights (assorted), lbs.		3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 181-40D Octagon handle No. 181-50D Oval handle	Per Dozen	$79 50	81 00	82 50	84 00

Handled with BELKNAP'S SPECIAL, Hand Shaved, White, Second Growth Hickory Handles.

Weights (assorted), lbs.		3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 181-16 Octagon handle No. 181-17—Oval handle	Per Dozen	$78 00	79 50	81 00	82 50

Handled with PRIDE OF KENTUCKY, Hand Shaved, White, Good Grade Forest Hickory Handles.

Weights (assorted), lbs.		3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 181-65 Octagon handle No. 181-66—Oval handle	Per Dozen	$75 75	77 25	78 75	81 75

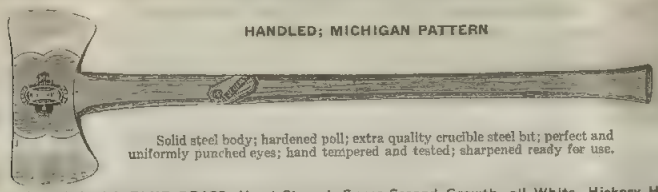
UNHANDLED; WESTERN PATTERN

Weights (assorted), lbs.		3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 181	Per Dozen	$60 00	61 50	63 00	64 50

All of above axes packed one dozen in a wood box.

AXES

—BLUE GRASS—DOUBLE BIT. RED AND GOLD FINISH, LABELED FULL POLISHED BITS



HANDLED; MICHIGAN PATTERN

Solid steel body; hardened poll; extra quality crucible steel bit; perfect and uniformly punched eyes; hand tempered and tested; sharpened ready for use.

Handled with BLUE GRASS, Hand Shaved, Super Second Growth, all White, Hickory Handles.

Weights assorted, lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 191-40D Octagon handle / No. 191-50D Oval handle — Per Dozen	$79 50	81 00	82 50	84 00

Handled with BELKNAP'S SPECIAL, Hand Shaved, White, Second Growth Hickory Handles.

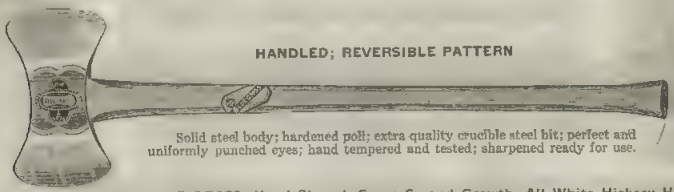
Weights assorted, lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 191-16—Octagon handle / No. 191-17—Oval handle — Per Dozen	$78 00	79 50	81 00	82 50

Handled with PRIDE OF KENTUCKY, Hand Shaved, White, Good Grade Forest Hickory Handles.

Weights assorted, lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 191-65 Octagon handle / No. 191-66 Oval handle — Per Dozen	$75 75	77 25	78 75	86 25

UNHANDLED; MICHIGAN PATTERN

Weights (assorted), lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 191 — Per Dozen	$60 00	61 50	63 00	64 50



HANDLED; REVERSIBLE PATTERN

Solid steel body; hardened poll; extra quality crucible steel bit; perfect and uniformly punched eyes; hand tempered and tested; sharpened ready for use.

Handled with BLUE GRASS, Hand Shaved, Super Second Growth, All White Hickory Handles.

Weights assorted, lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 101-40D —Octagon handle / No. 101-50D - Oval handle — Per Dozen	$79 50	81 00	82 50	84 00

Handled with BELKNAP'S SPECIAL, Hand Shaved, White, Second Growth Hickory Handles.

Weights (assorted), lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 101-16 Octagon handle / No. 101-17 —Oval handle — Per Dozen	$78 00	79 50	81 00	82 50

Handled with PRIDE OF KENTUCKY, Hand Shaved, White, Good Grade Forest Hickory Handles.

Weights assorted, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 101-65 Octagon handle / No. 101-66—Oval handle — Per Dozen	$75 75	75 75	77 25	78 75

UNHANDLED; REVERSIBLE PATTERN

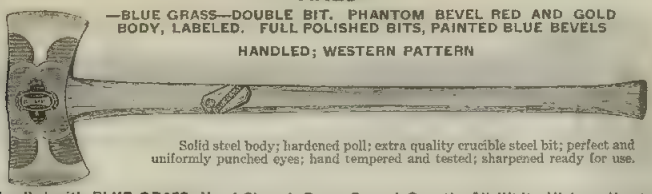
Weights (assorted), lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 101 — Per Dozen	$60 00	61 50	63 00	64 50

All of above axes packed one dozen in a wood box.

AXES

—BLUE GRASS—DOUBLE BIT. PHANTOM BEVEL RED AND GOLD BODY, LABELED. FULL POLISHED BITS, PAINTED BLUE BEVELS

HANDLED; WESTERN PATTERN



Solid steel body; hardened poll; extra quality crucible steel bit; perfect and uniformly punched eyes; hand tempered and tested; sharpened ready for use.

Handled with BLUE GRASS, Hand Shaved, Super Second Growth, All White Hickory Handles.

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5
No. 183-40D Octagon handle	Per Dozen	$81 00	82 50	84 00
No. 183-50D—Oval handle				

Handled with BELKNAP SPECIAL, Hand Shaved, White, Second Growth Hickory Handles.

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5
No. 183-16—Octagon handle	Per Dozen	$79 50	81 00	82 50
No. 183-17—Oval handle				

Handled with PRIDE OF KENTUCKY, Hand Shaved, White, Good Grade Forest Hickory Handles.

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5
No. 183-65—Octagon handle	Per Dozen	$77 25	78 75	80 25
No. 183-66—Oval handle				

UNHANDLED; WESTERN PATTERN

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5
No. 183	Per Dozen	$63 00	64 50	66 00

HANDLED; MICHIGAN PATTERN

Solid steel body; extra quality crucible steel bit; perfect and uniformly punched eyes; hand tempered and tested; sharpened ready for use.

Handled with BLUE GRASS Hand Shaved, Super Second Growth, All White Hickory Handles.

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5
No. 193-40D - Octagon handle	Per Dozen	$71 00	82 50	84 00
No. 193-50D—Oval handle				

Handled with BELKNAP SPECIAL, Hand Shaved, White, Second Growth Hickory Handles.

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5
No. 193-16—Octagon handle	Per Dozen	$79 50	81 00	82 50
No. 193-17—Oval handle				

Handled with PRIDE OF KENTUCKY, Hand Shaved, White, Good Grade Forest Hickory Handles.

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5
No. 193-65—Octagon handle	Per Dozen	$75 25	78 75	80 25
No. 193-66—Oval handle				

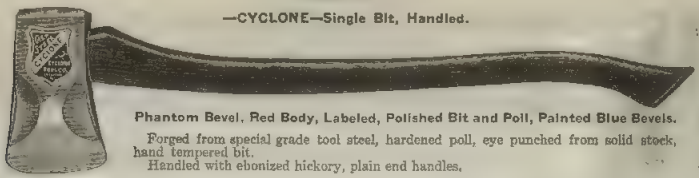
UNHANDLED; MICHIGAN PATTERN

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5
No. 193	Per Dozen	$61 50	63 00	64 50

All of above axes packed one dozen in a wood box.

HANDLED AXES

—CYCLONE—Single Bit, Handled.



Phantom Bevel, Red Body, Labeled, Polished Bit and Poll, Painted Blue Bevels.

Forged from special grade tool steel, hardened poll, eye punched from solid stock, hand tempered bit.
Handled with ebonized hickory, plain end handles.

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5
No. H713—Dayton Pattern	Per Dozen	$57 00	58 50	60 00

One dozen assorted weights in a wood box, heads enclosed, handles projecting, covered with cotton bag. Average weight per dozen 70 lbs.

—CYCLONE—Single Bit, Unhandled.

Phantom Bevel, Red Body, Labeled, Polished Bit and Poll. Painted Blue Bevels.

Forged from special grade tool steel, hardened poll, eye punched from solid stock, hand tempered bit.

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5
No. 713—Dayton pattern	Per Dozen	$45 00	46 50	48 00

One dozen assorted weights in a wood box; average weight per dozen 70 lbs.

FIREMEN'S AXES

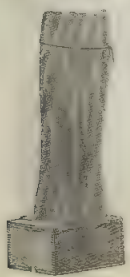
—BLUE GRASS—

Solid steel body; extra quality inserted crucible steel bit and pick point, hand tempered.
Red and gold finish; labeled; full polished bit and point; extra quality hickory handle painted red.

	Per Dozen
No. 171—Length over all 36 in.; weight with handle 4½ lbs	$63 00

One dozen in a wood box, heads enclosed, handles projecting, well burlapped.

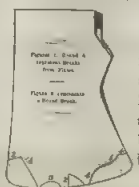
OUR AXE HANDLING DEPARTMENT



Our Axe Handling Department, by years of experience, has reduced the handling of Axes to a science. Not only is each handle correctly gauged but it is driven and wedged with such accuracy as to insure a correct setting of the axe and to prevent its becoming loose on the handle.

All our handled axes are packed one dozen assorted weights in a crate. The heads are enclosed in a strong wood box and are held firmly and securely in place in such a manner as to prevent rubbing and scratching the finish. The handles are entirely covered with a strong cotton sack made especially for this purpose and tied securely, protecting them from dust, dirt and damage in shipping and storage. (See illustration.)

DEFECTIVE AXES

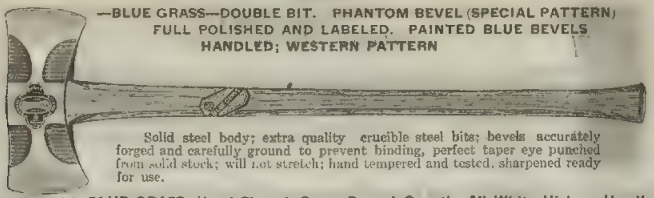


Necessarily the cutting edge of an axe must be high carbon and high temper, and for this reason a good axe is more likely to break than a poor one, as soft steel or steel in which the temper has been drawn by heating on a stone will bend before it will break.

Breaks from Flaws are known by being angular in form.
Sound Breaks, which show no fault in manufacture, are always circular in form.

Axes (except **Mohawk and Cyclone**) are guaranteed against breaks from flaws shown in Figures 1, 2 and 4, but not against sound breaks shown in Figure 3.

AXES



—BLUE GRASS—DOUBLE BIT. PHANTOM BEVEL (SPECIAL PATTERN) FULL POLISHED AND LABELED. PAINTED BLUE BEVELS HANDLED; WESTERN PATTERN

Solid steel body; extra quality crucible steel bits; bevels accurately forged and carefully ground to prevent binding, perfect taper eye punched from solid stock; well hot stretch; hand tempered and tested, sharpened ready for use.

Handled with BLUE GRASS, Hand Shaved, Super Second Growth, All White Hickory Handles.

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5
No. 286-40D—Octagon handle No. 286-50D Oval handle	Per Dozen	$82 50	84 00	85 50

Handled with BELKNAP'S SPECIAL, Hand Shaved, White Second Growth Hickory Handles.

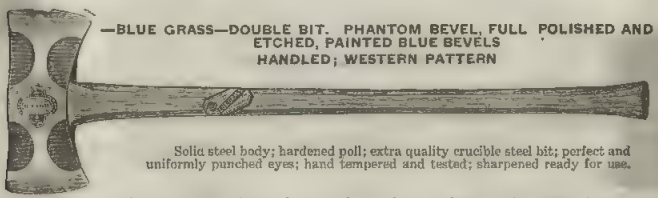
Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5
No. 286-16—Octagon handle No. 286-17 Oval handle	Per Dozen	$81 00	82 50	84 00

Handled with PRIDE OF KENTUCKY, Hand Shaved, White, Good Grade Forest Hickory Handles.

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5
No. 286-65 -Octagon handle No. 286-66—Oval handle	Per Dozen	$78 75	80 25	81 75

UNHANDLED; WESTERN PATTERN

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5
No. 286	Per Dozen	$63 00	64 50	66 00



—BLUE GRASS—DOUBLE BIT. PHANTOM BEVEL, FULL POLISHED AND ETCHED, PAINTED BLUE BEVELS HANDLED; WESTERN PATTERN

Solid steel body; hardened poll; extra quality crucible steel bit; perfect and uniformly punched eyes; hand tempered and tested; sharpened ready for use.

Handled with BLUE GRASS, Hand Shaved, Super Second Growth, All White Hickory Handles.

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5
No. 283-40D—Octagon handle No. 283-50D Oval handle	Per Dozen	$82 50	84 00	85 50

Handled with BELKNAP SPECIAL, Hand Shaved, White, Second Growth Hickory Handles.

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5
No. 283-16—Octagon handle No. 283-17—Oval handle	Per Dozen	$81 00	82 50	84 00

Handled with PRIDE OF KENTUCKY, Hand Shaved, White, Good Grade Forest Hickory Handles.

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5
No. 283-65 Octagon handle No. 283-66—Oval handle	Per Dozen	$78 75	80 25	81 75

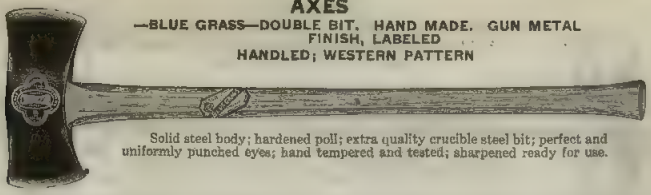
UNHANDLED; WESTERN PATTERN

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5
No. 283	Per Dozen	$63 00	64 50	66 00

All of above axes packed one dozen in a wood box.

AXES

—BLUE GRASS—DOUBLE BIT, HAND MADE, GUN METAL FINISH, LABELED HANDLED; WESTERN PATTERN



Solid steel body; hardened poll; extra quality crucible steel bit; perfect and uniformly punched eyes; hand tempered and tested; sharpened ready for use.

Handled with BLUE GRASS, Hand Shaved, Super Second Growth, All White Hickory Handles.

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 481-40D Octagon handle No. 481-50D Oval handle	Per Dozen	$79 50	81 00	82 50	84 00

Handled with BELKNAP SPECIAL, Hand Shaved, White, Second Growth Hickory Handles.

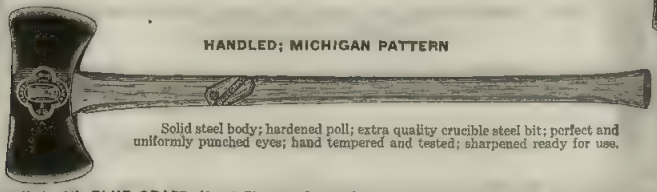
Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 481-16—Octagon handle No. 481-17—Oval handle	Per Dozen	$78 00	79 50	81 00	82 50

Handled with PRIDE OF KENTUCKY, Hand Shaved, White, Good Grade Forest Hickory Handles.

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 481-65—Octagon handle No. 481-66—Oval handle	Per Dozen	$75 75	77 25	78 75	80 25

UNHANDLED; WESTERN PATTERN

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 481	Per Dozen	$60 00	61 50	64 50	64 50



HANDLED; MICHIGAN PATTERN

Solid steel body; hardened poll; extra quality crucible steel bit; perfect and uniformly punched eyes; hand tempered and tested; sharpened ready for use.

Handled with BLUE GRASS, Hand Shaved, Super Second Growth, All White Hickory Handles.

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 491-40D Octagon handle No. 491-50D Oval handle	Per Dozen	$79 50	81 00	82 50	84 00

Handled with BELKNAP SPECIAL, Hand Shaved, White, Second Growth Hickory Handles.

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 491-16—Octagon handle No. 491-17—Oval handle	Per Dozen	$78 00	79 50	81 00	82 50

Handled with PRIDE OF KENTUCKY, Hand Shaved, White, Good Grade Forest Hickory Handles.

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 491-65—Octagon handle No. 491-66—Oval handle	Per Dozen	$75 75	77 25	78 75	80 25

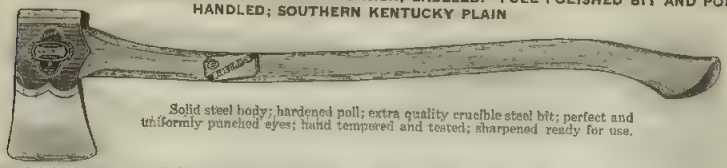
UNHANDLED; MICHIGAN PATTERN

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 491	Per Dozen	$60 00	61 50	63 00	64 50

All of above axes packed one dozen in a wood box.

AXES

—BLUE GRASS—SINGLE BIT. RED AND GOLD FINISH, LABELED. FULL POLISHED BIT AND POLL HANDLED; SOUTHERN KENTUCKY PLAIN



Solid steel body; hardened poll; extra quality crucible steel bit; perfect and uniformly punched eyes; hand tempered and tested; sharpened ready for use.

Handled with BLUE GRASS, Hand Shaved, Super Second Growth, All White Hickory, Scroll End Handles.

Weights (assorted), lbs.		3 to 4	4 to 5	4½ to 5½	4½ to 6
No. 121-40—Octagon handle	Per Dozen	$66 00	67 50	69 00	69 00
No. 121-50—Oval handle					

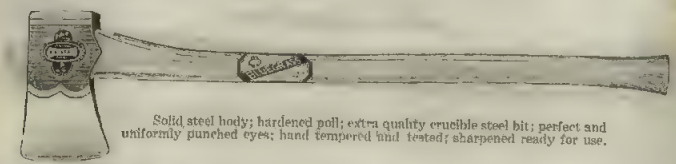
Handled with BELKNAP SPECIAL, Hand Shaved, White, Second Growth Hickory, Scroll End Handles.

Weights (assorted), lbs.		3½ to 4½	4 to 5	4½ to 5½	4½ to 6
No. 121-6—Octagon handle	Per Dozen	$64 50	66 00	67 50	67 50
No. 121-7 Oval handle					

Handled with PRIDE OF KENTUCKY, Hand Shaved, White, Good Grade Forest Hickory, Scroll End Handles.

Weights (assorted), lbs.		3½ to 4½	4 to 5	4½ to 5½	4½ to 6
No. 121-63—Octagon handle	Per Dozen	$62 25	63 75	65 25	65 25
No. 121-64—Oval handle					

—BLUE GRASS—SINGLE BIT. RED AND GOLD FINISH, LABELED. FULL POLISHED BIT AND POLL HANDLED; SOUTHERN KENTUCKY PLAIN



Solid steel body; hardened poll; extra quality crucible steel bit; perfect and uniformly punched eyes; hand tempered and tested; sharpened ready for use.

Handled with BLUE GRASS, Hand Shaved, Straight Pattern, White Hickory, Plain End Handles.

Weights (assorted), lbs.		3½ to 4½	4 to 5	4½ to 5½	4½ to 6
No. 121-41—Octagon handle	Per Dozen	67 50	69 00	70 50	70 50
No. 121-51 Oval handle					

Handled with PRIDE OF KENTUCKY, Hand Shaved, Straight Pattern, White Hickory, Plain End Handles.

Weights (assorted), lbs.		3 to 4½	4 to 5	4½ to 5½	4½ to 6
No. 121-67—Octagon handle	Per Dozen	$64 50	66 00	67 50	67 50
No. 121-68—Oval handle					

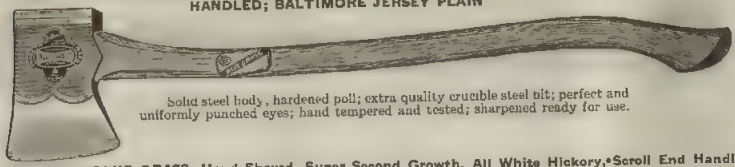
UNHANDLED; SOUTHERN KENTUCKY PLAIN

Weights (assorted), lbs.		3½ to 4½	4 to 5	4½ to 5½	4½ to 6
No. 121	Per Dozen	$46 50	48 00	49 50	49 50

All of above axes packed one dozen in a wood box.

AXES

—BLUE GRASS—SINGLE BIT. RED AND GOLD FINISH, LABELED. FULL POLISHED BIT AND POLL HANDLED; BALTIMORE JERSEY PLAIN



Solid steel body, hardened poll; extra quality crucible steel bit; perfect and uniformly punched eyes; hand tempered and tested; sharpened ready for use.

Handled with BLUE GRASS, Hand Shaved, Super Second Growth, All White Hickory, Scroll End Handles.

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 141-40 Octagon handle / No. 141-50 Oval handle	Per Dozen	$64 50	66 00	67 50	69 00

Handled with BELKNAP SPECIAL, Hand Shaved, White, Second Growth Hickory, Scroll End Handles.

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 141-6—Octagon handle / No. 141-7 Oval handle	Per Dozen	$63 00	64 50	66 00	67 50

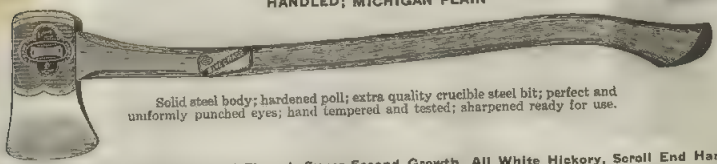
Handled with PRIDE OF KENTUCKY, Hand Shaved, White, Good Grade Forest Hickory, Scroll End Handles.

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 141-63—Octagon handle / No. 141-64 Oval handle	Per Dozen	$60 75	62 25	63 75	65 25

UNHANDLED; BALTIMORE JERSEY PLAIN

Weights (assorted), lbs		3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 141	Per Dozen	$45 00	46 50	48 00	49 50

HANDLED; MICHIGAN PLAIN



Solid steel body; hardened poll; extra quality crucible steel bit; perfect and uniformly punched eyes; hand tempered and tested; sharpened ready for use.

Handled with BLUE GRASS, Hand Shaved, Super Second Growth, All White Hickory, Scroll End Handles.

Weights assorted, lbs		3 to 3½	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 151-40—Octagon handle / No. 151-50—Oval handle	Per Dozen	$64 50	64 50	66 00	67 50	69 00

Handled with BELKNAP SPECIAL, Hand Shaved, White, Second Growth Hickory, Scroll End Handles.

Weights assorted lbs.		3 to 3½	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 151-6—Octagon handle / No. 151-7—Oval handle	Per Dozen	$63 00	63 00	64 50	66 00	67 50

Handled with PRIDE OF KENTUCKY, Hand Shaved, White, Good Grade Forest Hickory, Scroll End Handles.

Weights (assorted), lbs		3 to 3½	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 151-63—Octagon handle / No. 151-64—Oval handle	Per Dozen	$60 75	60 75	62 25	63 75	65 25

UNHANDLED; MICHIGAN PLAIN

Weights (assorted), lbs		3 to 3½	3 to 4	3½ to 4½	4 to 5	4½ to 5½
No. 151	Per Dozen	45 00	45 00	46 50	48 00	49 50

All of above axes packed one dozen in a wood box.

BASE BALLS

—BLUE GRASS—

Showing sections of ball

Absolutely the best in materials and all details of construction; guaranteed for two full games of nine innings. Has double cover, making a ball within a ball. Regulation size and weight. Horsehide cover, made from selected stock by skilled workmen. Each ball contains one ounce of pure para rubber, which is wrapped with the best quality woolen yarn. We offer it to the trade with the assurance that it is superior to any other League ball on the market. New balls will be sent for any returned defective. Each ball wrapped in tin foil and tissue paper, and put up in a separate box, sealed.

Per Dozen

No. 1BG Nat ional League. $50 25

One in a cardboard box; one doz. in a carton; wt. per dozen 4½ lbs.

—BLUE GRASS—

Regulation size and weight; horse-hide cover; contains one ounce of pure para rubber, inside of which is a small ball composed of ground cork guaranteed for two full games of nine innings. Each ball wrapped in tin foil and tissue paper, and put up in a separate box, sealed.

Per Dozen

No. 2BG American League. $44 25

One dozen in a carton; weight per dozen 4½ lbs.

—BLUE RIBBON—

Selected horse hide cover, hand stitched; one ounce rubber center, wound with good quality wool yarn. Regulation size and weight, and fully guaranteed for two full games of nine innings Each ball wrapped in tissue paper and tin foil, and put up in a separate box, sealed.

Per Dozen

No. 4BR—Professional $40 50

One in a cardboard box, one dozen in a carton; weight per dozen about 4½ lbs.

High grade horse hide cover, perfectly sewed; rubber center, wound with good quality wool yarn. Regulation size and weight. Each ball put up in a separate box and sealed.

Per Dozen

No. 6BR—League special. $36 00

One in a cardboard box; one dozen in a carton; weight per dozen about 4¾ lbs.

BASE BALLS

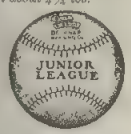
—BLUE RIBBON—

Good horse hide cover; rubber center, wound with good quality yarn. Regulation size and weight; carefully constructed. Put up in a separate box and sealed.

Per Dozen

No. 8BR—Favorite $25 20

One in a cardboard box; one doz in a carton; weight per dozen about 4¼ lbs.

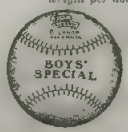


Genuine horse hide cover, red and green stitching. Rubber center, wound with good quality yarn. Standard Junior size. Put up in a separate box and sealed.

Per Dozen

No. 10BR—Junior League $12 00

One in a cardboard box; one doz. in a carton; weight per dozen about 4 lbs.



Genuine horse hide cover; good quality yarn center. Regulation size and weight. Put up in a separate box and sealed.

Per Dozen

No. 12BR—Boys' Special $7 50

One in a cardboard box; one doz in a carton; weight per dozen about 1½ lbs.

—CYCLONE—

Genuine horse hide cover; standard boys' size. A substantial, well sewed ball.

Per Dozen

No. 14C—Champion $6 30

One dozen in a cardboard box; weight per dozen about 4¾ lbs.

Beva waterproof cover; durable center and careful stitching.

Per Dozen

No. 18C—Star $3 45

One dozen in a cardboard box; weight per dozen about 3 lbs.

Black Cover.

Beva waterproof cover; lively center; careful stitching; standard boys size.

Per Dozen

No. 15C—Black Diamond $5 25

One dozen in a cardboard box; weight per dozen about 4½ lbs.

Red Cover.

Beva waterproof cover; durable center; standard boys size. A substantial, well sewed ball.

Per Dozen

No. 19C—Red Streak $3 45

One dozen in a cardboard box; weight per dozen about 3¼ lbs.

Beva water-proof cover; durable center standard boys size. Well sewed.

Per Dozen

No. 20C—Dandy $2 85

One dozen in a cardboard box; weight per dozen about 3¼ lbs.

BLUE STAR

HATCHETS

—BLUE GRASS—

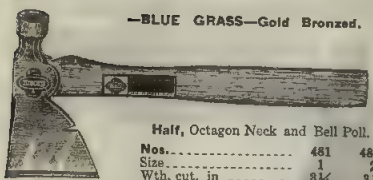
Special steel body, hardened poll, extra quality, crucible steel bit, hand tempered and tested, sharpened ready for use. Gold bronzed body, highly polished bit and poll, extra quality, second growth, white hickory handles.

—BLUE GRASS—Gold Bronzed, Half Polished.

Half, Regular Pattern.

Nos.	441	442
Size	1	2
Wth. cut, in.	3¼	3⅝
Lgth. over all, in.	12½	13½
Wt. doz., lbs	22	25
Per Dozen	$43 50	46 50

Half dozen in a cardboard box.

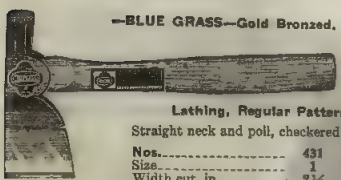


—BLUE GRASS—Gold Bronzed.

Half, Octagon Neck and Bell Poll.

Nos.	481	482
Size	1	2
Wth. cut, in	3¼	3⅝
Lgth. over all, in.	12½	13¾
Wt. doz., lbs	22	27
Per Dozen	$54 00	55 50

Half dozen in a cardboard box.



—BLUE GRASS—Gold Bronzed.

Lathing, Regular Pattern.

Straight neck and poll, checkered head.

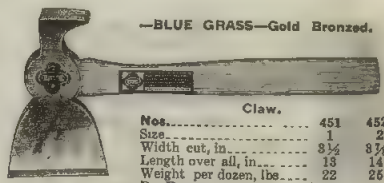
Nos.	431	432
Size	1	2
Width cut, in.	2⅜	2¾
Length over all, in.	12½	13½
Weight per dozen, lbs.	15	20
Per Dozen	$43 50	45 00

Half dozen in a cardboard box.

HATCHETS

—BLUE GRASS—

Special steel body, hardened poll, extra quality, crucible steel bit, hand tempered and tested, sharpened ready for use. Gold bronzed body, highly polished bit and poll, extra quality, second growth, white hickory handles

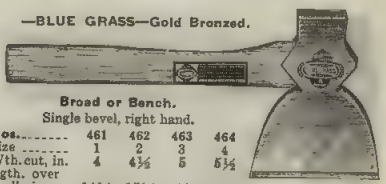


—BLUE GRASS—Gold Bronzed.

Claw.

Nos.	451	452
Size	1	2
Width cut, in.	3½	3⅞
Length over all, in.	13	14
Weight per dozen, lbs.	22	26
Per Dozen	$46 50	48 00

Half doz. in a cardboard box.



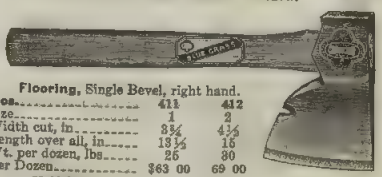
—BLUE GRASS—Gold Bronzed.

Broad or Bench.

Single bevel, right hand.

Nos.	461	462	463	464
Size	1	2	3	4
Wth. cut, in.	4	4½	5	5½
Lgth. over all, in.	14½	15½	16	16½
Wt. doz., lbs	22	28	33	37
Per Doz.	$57 00	63 00	69 00	75 00

Half dozen in a cardboard box.

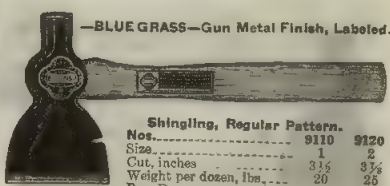


—BLUE GRASS—Gold Bronzed.

Flooring, Single Bevel, right hand.

Nos.	411	412
Size	1	2
Width cut, in.	3¾	4½
Length over all, in.	13½	15
Wt. per dozen, lbs.	25	30
Per Dozen	$63 00	69 00

Half dozen in a cardboard box.



—BLUE GRASS—Gun Metal Finish, Labeled.

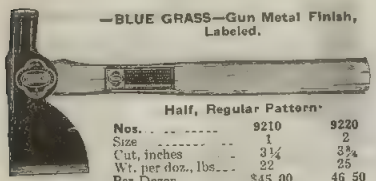
Shingling, Regular Pattern.

Nos.	9110	9120
Size	1	2
Cut, inches	3½	3⅞
Weight per dozen, lbs.	20	25
Per Dozen	$42 00	43 50

Half doz. in a cardboard box.

HATCHETS
—BLUE GRASS—

Special steel body, hardened poll, extra quality, crucible steel bit, hand tempered and tested, sharpened ready for use. Gun metal finish and labeled. Extra quality second growth polished hickory handles.

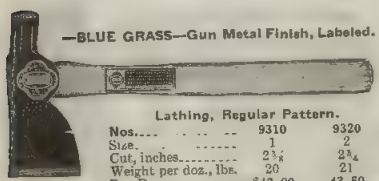


—BLUE GRASS—Gun Metal Finish, Labeled.

Half, Regular Pattern.

Nos.	9210	9220
Size	1	2
Cut, inches	3¼	3¾
Wt. per doz., lbs.	22	25
Per Dozen	$45 00	46 50

Half dozen in a cardboard box.



—BLUE GRASS—Gun Metal Finish, Labeled.

Lathing, Regular Pattern.

Nos.	9310	9320
Size	1	2
Cut, inches	2⅜	2¾
Weight per doz., lbs.	20	21
Per Dozen	$42 00	43 50

Half dozen in a cardboard box.

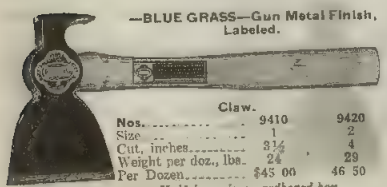
—BLUE GRASS—
Gun Metal Finish, Labeled.

Rig Builders.

Octagon neck and bell poll, checkered head; 18 inch knob handle.

Nos.	9820	9830
Size	2	3
Cut, inches	3½	3⅞
Weight per dozen, lbs.	30	35
Per Dozen	$63 00	66 00

Half dozen in a cardboard box.



—BLUE GRASS—Gun Metal Finish, Labeled.

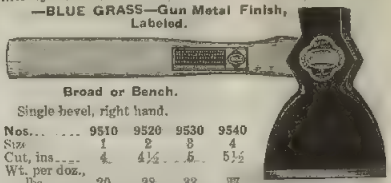
Claw.

Nos.	9410	9420
Size	1	2
Cut, inches	3¼	4
Weight per doz., lbs.	24	29
Per Dozen	$43 00	46 50

Half dozen in a cardboard box.

HATCHETS
—BLUE GRASS—

Special steel body, hardened poll, extra quality crucible steel bit, hand tempered and tested, sharpened ready for use. Gun metal finish and labeled. Extra quality second growth hickory handles.



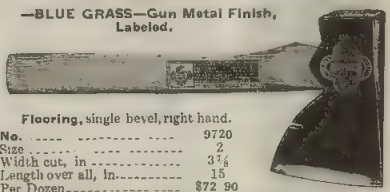
—BLUE GRASS—Gun Metal Finish, Labeled.

Broad or Bench.

Single bevel, right hand.

Nos.	9510	9520	9530	9540
Size	1	2	3	4
Cut, ins.	4	4½	5	5½
Wt. per doz., lbs.	20	28	33	37
Per Dozen	$55 50	60 00	66 00	72 00

Half dozen in a cardboard box.

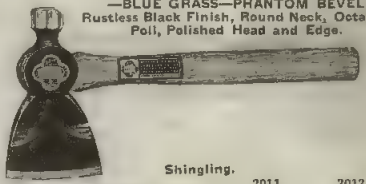


—BLUE GRASS—Gun Metal Finish, Labeled.

Flooring, single bevel, right hand.

No.	9720
Size	2
Width cut, in	3⅛
Length over all, in.	15
Per Dozen	$72 90

Half dozen in a cardboard box; weight per dozen 32 lbs.

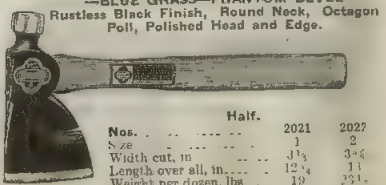


—BLUE GRASS—PHANTOM BEVEL
Rustless Black Finish, Round Neck, Octagon Poll, Polished Head and Edge.

Shingling.

Nos.	2011	2012
Size	1	2
Width cut, in	3⅛	3⅞
Length over all, in.	12¾	14
Weight per dozen, lbs.	20	21
Per Dozen	$43 50	45 00

Half dozen in a cardboard box.



—BLUE GRASS—PHANTOM BEVEL
Rustless Black Finish, Round Neck, Octagon Poll, Polished Head and Edge.

Half.

Nos.	2021	2027
Size	1	2
Width cut, in	3⅛	3⅞
Length over all, in.	12¾	14
Weight per dozen, lbs.	19	23½
Per Dozen	$45 00	46 50

Half dozen in a cardboard box.

BOYS' WAGONS

—BLUE GRASS—

Cotter pins with nickel caps are used on all Blue Grass Wagons, eliminating lost nuts and wheels from coming off. The wood bottoms are thicker than others and are double tongued and grooved, and glued together.

Reinforced Steel Hub.

This especially constructed hub is used on our Blue Grass Wagons Nos. 1 to 4 inclusive, also on our "Blue Grass Special". It is made with a large barrel around a small or inner barrel in which the axle works. Spokes are extra heavy making a strong, substantial wheel. The hub flange is bent down over each wire, forming a solid recess for the spokes to pull up against; spokes are then riveted to tire, which forms the strongest possible construction and makes hub and wheel absolutely rigid.

Strong Fifth Wheel.

The pull is evenly divided between axle and body; this with the additional advantage of a simple and rigid fifth wheel, allows no strain on axle to pull bolster out of shape. The fifth wheel has an extra plate which gives additional wear and strength.

Entire gear, bolsters and fifth wheel made of pressed steel; open hearth steel axles. Nos. 04 to 1 with $\frac{3}{8}$ in. axles and Nos. 2 to 4 with $\frac{7}{16}$ in. axles; body of 27 gauge sheet steel flanged over $\frac{1}{4}$ inch round steel rod; have two beads of corrugations near top edge and single bead near the bottom. Nos. 0 to 4 fitted with double plate 5th wheel, and three braces on rear axle and two hardwood cleats on bottom boxes. Workmanship and material the very best; wooden tongue with metal grip and steel attachment; outside with two coats of red and neatly striped and stenciled; inside and bottom painted green; gear and wheels enameled black.

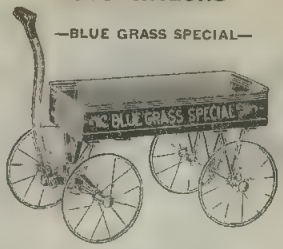
Sold in full carton lots only.

Nos.	Body Inches	Wheels Inches	Width Tire, in.	Weight Doz., lbs.	Per Dozen
04	8x18x2¾	6	¼	80	$38 25
02	10x22x3¼	8	¼	105	48 00
1	12x26x4	10	11/16	200	67 50
3	14x30x5	11	11/16	240	81 00
4	15x32x5	11	11/16	300	96 00

No. 04 one-third dozen, balance one-sixth dozen in a carton, K. D.

BOYS' WAGONS

—BLUE GRASS SPECIAL—



Heavy High Grade.

The wheels on this wagon are the same construction as on the Blue Grass. The fifth wheels are very similar to the regular Blue Grass, being equal to them in every way. They have double brace in the center of the rear axle. The tires are wider than the corresponding wagons of other makes. The wood bottoms are thicker than others and are double tongued and grooved and glued together, whereas, other makes are not tongued and grooved but simply stuck together with glue. The steel in the body is extra heavy and an extra heavy wire is placed around the top; an extra heavy shaped loop is used on the handle; all handles are packed inside the body thus avoiding any loss of parts in shipment.

Reinforced Steel Hub.

Same as on Blue Grass; spokes made of No. 10 wire.

Strong Fifth Wheel.

The front piece goes over the axle and bends down, the axle pressing through it. This piece is made of No. 10 gauge steel and is $\frac{5}{8}$ inch wide. The axles are $\frac{7}{16}$ inch in diameter.

This construction makes the Blue Grass the ideal wagon to withstand the rough usage of boys.

The construction of these wagons is the best— the materials used are of the highest standard the workmanship and finish cannot be excelled. These combinations of high quality make the best boys' wagon that has ever been placed on the market.

Highest grade enamel is used in finishing, with two coats of varnish; letters in gilt; packed two in a carton, assorted finish as follows: 1 with red body, black gears and wheels; 1 with green body, black gears and wheels; red body finished green inside, green body finished red inside.

Sold in full carton lots only.

Nos.	Body Inches	Wheels Inches	Width Tire, in.	Weight Doz., lbs.	Per Dozen
401	12x26x4⅞	11	11/16	210	$81 00
403	14x30x5½	11	11/16	260	93 00

One-sixth dozen in a carton, K. D.

You will find our CRUSADER Paints to be equal to the highest quality paints made. Selling Crusader Paints is a sure way to help make satisfied customers.

BOYS' WAGONS

—BLUE RIBBON—

Sheet steel body, top edge flanged over heavy ¼ inch steel rod. Kiln dried bottoms. Inside finished in green, outside in red, with a fine luster.

Wheels and Gears—Black japanned finish; the the hubs are made of cold rolled sheet steel. The spoke is of high tensile strength, one wire making two spokes. The best sharp oval is used in making the tires.

The tripod is strongly riveted to steel plate resting upon the fifth wheel connecting all parts with an eye bolt, through the lower end of which passes the axle, producing a perfectly rigid gear, preventing the axle from springing out of shape, and affording an easy revolving motion without loosening the eye bolt nut, as it is firmly screwed down to the collar of the fifth wheel. Sold in full carton lots only.

Nos.	Body, inches	Wheels, inches	Width Tire, in.	Wt. doz., lbs.	Per Dozen
40	8x18x3	--	⅝	70	$36 75
20	10x22x3½	8	⅝	95	45 75
11	12x26x4¾	10	½	180	63 00
33	14x30x5	11	½	220	76 50
44	16x32x5¼	11	¾	245	90 00

No. 40 one-third dozen, balance one-sixth dozen in a carton, K. D.

DAISY

Sheet steel body, inside finished in green, outside in red. Wheels and gears black japanned finish; ⅝ inch axle. The fifth wheel is the same style as on our Blue Ribbon Wagon except it is lighter.

Sold in full carton lots only. Per Dozen

No. 019—Body 7x14x2½ inches, 6 inch wheels, ¾ inch tires; weight per dozen 65 lbs.----------$24 00

Half dozen in a carton, K. D.

Sheet steel, securely put together by a process of electric welding.

Per Dozen

No. 612—Finished in bright red; twisted wire handle; length 9 in.; width 5½ in.; height 5½ in.; wheels 3 in. in diameter; wt. per dozen 15 lbs.--------$19 50

One dozen in a case.

No. 715—Finished in bright red; green wheels; wood tongue; length 15 inches; width 7½ inches; height 9 inches; wheels rear 6 inches, front 4 inches in diameter; weight per dozen 25 lbs.----------$30 00

Half dozen in a case.

TOY CARTS

Sheet steel, securely put together; electrically welded.

Per Dozen

No. 26—Body enameled bright red, wheels green; wood handle; length 12 ins.; width 6 ins.; height 6½ ins. in diam.; wheels 6 ins.; wt. per doz. 28 lbs. $19 50

No. 28—Body enameled bright red; wheels green; wood handle, length 15½ ins.; width 7 ins.; height 10 ins. in diam.; wheels 7 ins.; weight per doz. 40 lbs. 28 50

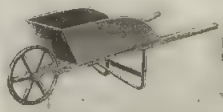
One dozen in a case.

CHILDREN'S WHEELBARROWS

Sheet steel bed; painted red and decorated; varnished natural finish; hardwood handles, with black grips; strong wire wheels iron braced throughout.

Nos.	9	10	21	22
Length body, inches	11	13	16½	18½
Diameter wheel, inches	6	8	12	14
Length handles, inches	26	30	40	44
Weight per dozen, lbs	45	54	110	130
Per Dozen	$24 00	30 00	39 00	48 00

Half dozen in a crate.



Sheet steel body well braced. Strong and substantial for real work.

Per Dozen

No. 29—Finished in bright red, with green wheels; size body 8x11 inches; diameter wheel 6 inches.----------$19 50

One dozen in a case, K. D.; weight per dozen 27 lbs.

Per Dozen

No. 35—Finished in red, with green wheels; size body 10½x15 inches; diameter wheel 7 inches.----------$28 50

Half dozen in a case, K. D.; weight per dozen 46 lbs.

VELOCIPEDES

—BLUE GRASS—

Tubular Ball-Bearing.

Frame made of 18 gauge seamless tubing. All plated parts, heavy nickel on copper. Cold rolled steel rims fitted with 1 inch rubber cushion tires; nickel plated hubs and spokes; ball-bearing throughout; nickel plated extension handle bars with leather bicycle grips; leather regulation bicycle saddle; nickel plated seat post; standard ball-bearing, nickel plated rat trap pedals; malleable flush fork crown, nickel plated, wide pattern, cold rolled steel axles; frame and rims, dark maroon, baked on, high gloss finish.

Nos.	BG1	BG2	BG3
For child of years	3 to 5	4 to 7	6 to 12
Height front wheel, inches	16	20	24
Height rear wheels, inches	10	14	16
Shipping weight each, lbs.	30	37	41
Each	$33 00	39 00	45 00

One in a case K. D.

MACHINISTS' VISES

BONNEY STANDARD VISE ASSORTMENT

Jaws are of best grade gray iron and the main and thumb screws are cast semi-steel with cut threads. The head and collar is of a single piece with the main screw and will not wear out or pull off. Finished in black enamel baked on, with polished screws, jaws and anvils.

The stand is of cast iron, japanned, with hardwood shelves.

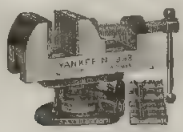
The following are Nos. and dimensions of vises contained in this assortment:

Vise Nos.	00	01	02	02½
Size jaws, in	1	1¼	2	2½
Wt. each, lbs	1	1½	2¼	4

Per Assortment

No. 10BA—Consists of 17 vises: 6 No. 00, 6 No. 01, 3 No. 02 and 2 No. 02½; complete with display stand. $48 00

One assortment in a case; weight per assortment 40 lbs.



YANKEE, cast iron body and jaw, bright finish; dull black finish base. The adjusting screw is of steel, ½ inch diameter with ¾ inch head to receive sliding bar. A removable swivel jaw is furnished to hold taper work, and is made of steel, case hardened. So constructed as when adjusting vise, the body slides instead of the rear jaw.

Has swivel base. Fitted with a lever, which by one turn, rigidly fastens the vise, and by another turn, again releases it. Countersunk holes are provided for screwing vise to bench.

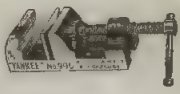
Patent Swivel Base.

Nos.	1991	1992	1993
Size body, inches	3⅜x1½	4¾x2	7¼x2¾
Extreme height, inches	3¼	4⅜	6¾
Diameter base, inches	2½	3¼	4½
Depth jaws, inches	⅞	1¼	1¾
Jaws open, inches	1½	1 11/16	3⅛
Weight each, lbs	2½	5½	18½
Each	$8 25	12 45	20 25

Nos. 1991 and 1992, one in a cardboard box; No. 1993, one in a fibre box.

MACHINISTS' VISES

YANKEE



Cast iron body and sliding jaw, bright finish, accurately machined to hold work square when used either flat or on sides.

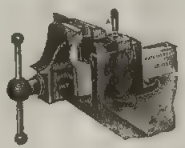
The sliding jaw slides in a V-shaped groove, insuring parallel movement. The adjusting screw is of steel, ½ inch diameter with ¾ inch head. A removable swivel jaw is provided to hold taper work, and is made of steel, case hardened.

Two countersunk holes are provided in base to screw vise to bench.

Stationary Base.

Nos.	990	993
Size body, inches	6x2⅜	7¼x2¾
Extreme height, inches	2	3
Depth of jaws, inches	1⅜	1¾
Jaws open, inches	3	3⅛
Weight each, lbs	8¾	9
Each	$7 20	13 00

Packed loose.



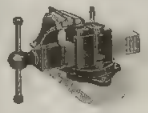
PRENTISS

Cast iron body, with polished slide and steel faced jaws, polished, steel screw and sliding lever handle. Bar jaw is self-adjusting but may be made stationary by inserting pin marked "A".

Stationary Base.

Nos.	962	962½	963	964	965
Width jaws, ins.	3½	4	4½	5¼	6
Jaws open, inches	4¾	5¼	6	8	9
Lgth. over all, ins.	15	17½	19	24	28
Weight each, lbs	23	41	54	96	146
Each	$33 00	39 00	43 50	70 50	100 50

Packed loose.



PRENTISS, cast iron body, japanned, with polished slide and steel faced jaws, polished steel screw and sliding lever handle. Bar jaw is self-adjusting but may be made stationary by inserting pin marked "A".

Swivel Base.

Nos.	619	619½	620	621	622
Width jaws, inches	3½	4	4½	5¼	6
Jaws open, inches	4¾	5¼	6	8	9
Lgth. over all, inches	15	17½	19	24	28
Weight each, lbs	32	46	68	109	168
Each	$40 50	48 00	55 50	90 00	120 00

Packed loose.

KEYSTONE, cast iron, japanned, with polished tempered checkered faced steel jaws. Polished sliding lever handle.

Nos.	B	C	D	E	G
Width jaws, in	2¼	2½	3	3½	4
Jaws open, in	3	4	4	6	6
Lgth. over all, in	8½	11¼	11¼	13¼	16½
Weight each, lbs	5	10	13	21	31
Each	$7 20	9 90	12 00	15 00	18 00

Packed loose.

MACHINISTS' VISES

SHEPARD, cast iron body, japanned, with polished slide and steel faced jaws. Polished steel screw and sliding lever handle. Furnished with center bolt, nut and washer for fastening to bench, can be used as stationary or swivel bottom vise.

Stationary or Swivel Base.

Nos.	158	160	161	161½	162	163	164
Width jaws, in.	2	2	2½	3	3½	4	4½
Jaws open, in.	2	2⅜	3	3½	4	6	7½
Lgth. over all, in	6½	8	9½	11½	12¼	15	17¾
Wgt. each, lbs.	2½	4	10	12	16	30	44
Each	$3 30	6 30	7 20	9 45	10 80	16 50	24 75

Packed loose.

BULL DOG, cast iron body, japanned, with polished slide and steel faced jaws, polished steel screw and sliding lever handle. Bar jaw is self-adjusting.

Stationary Base.

Nos.	50	51	52	53	55	56
Width, jaws, inches	3¼	3⅝	4⅜	4⅝	5½	6
Jaws open, inches	4	5½	6	7	9	10
Length over all, ins	13	15	17	19	23	25½
Weight each, lbs.	22	28	42	52	100	135
Each	$20 25	19 50	25 50	31 50	60 00	79 50

Packed loose.

BULL DOG, cast iron body, japanned, with polished slide and steel faced jaws, polished steel screw and sliding lever handle. Bar jaw is self-adjusting.

Swivel Base.

Nos.	90	91	92	93	95	96
Width jaws, inches	3⅜	3⅝	4⅜	4⅝	5½	6
Jaws open, inches	4	5½	6	7	9	10
Length over all, ins	13	15	17	19	23	25½
Weight each, lbs.	28	36	52	64	115	155
Each	$26 25	30 75	33 75	40 50	79 50	103 50

Packed loose.

COMBINATION VISES

MACHINE AND PIPE

PARKER'S

Semi-steel body, painted; with polished slide and steel faced jaws; polished steel screw and lever handle

Swivel Base.

Nos.	87	88	288½
For pipe, inches	⅛to2	⅛to3	⅛to4
Jaws, inches	3½	4½	5
Jaws open, inches	3	6	6
Length over all, inches	15½	17½	20¼
Weight, lbs.	47	71	118
Each	$36 00	48 75	72 00

Packed loose.

WOOD WORKERS' VISES

Japanned cast iron body, polished tool steel screw and sliding lever handle. Has screw holes in each jaw for fastening on wooden jaw. Can be fastened to anything from ⅞ to 2⅛ inches thick. Each

No. 555 -Lgth. jaws 4¾ ins.; jaws open 3⅛ ins.; ht. 6 ins $8 25

One in a carton; weight each 4 lbs.

BULL DOG

Cast iron body, japanned; with polished slide and steel faced jaws, polished steel screw and sliding lever handle. Each

No. 59 -Width jaws 4½ ins.; jaws open 9 ins.; lgth. over all 19½ ins $33 00

Packed loose; weight each 45 lbs.

PRENTISS

Stationary Base, Swivel Jaw.

Cast iron body, japanned, with polished slide and steel faced jaws; polished steel screw and sliding lever handle. Rear jaw is self adjusting but may be made stationary by inserting pin, marked "A". Each

No. 10P—Width jaws 4½ ins.; jaws open 9⅛ ins.; lgth. over all 23¼ ins $49 50

Packed loose; weight each 59 lbs.

KEYSTONE

Cast iron body, japanned, with polished tempered steel smooth face jaws. Polished sliding lever handle.

KEYSTONE

Stationary Base.

Each

No. M—Width jaws 4 ins.; jaws open 6 ins.; lgth. over all 19 ins $21 45

Packed loose; weight each 33 lbs.

KEYSTONE

Swivel Base.

Each

No. MM Width jaws 4 ins.; jaws open 6 ins.; lgth. over all 15½ ins $25 50

Packed loose; weight each 36 lbs.

SHEPARD, With Anvil.

Cast iron body, japanned, with polished slide and steel faced jaws. Polished steel screw and sliding lever handle.

Stationary Base.

Nos.	168	68
Width jaws, in.	3½	4½
Jaws open, in.	7	9
Lgth. over all, ins.	18	20
Wt. each, lbs.	38	42
Each	$20 25	24 00

Packed loose.

Patent Swivel Base.

The swivel base is most convenient; a slight movement of the lever allows the vise to turn where it is rigidly fastened by another turn of the lever. Each

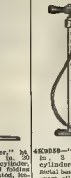
No. 69—Width jaws 4½ ins.; jaws open 9 ins.; lgth. over all 20 ins $27 00

Packed loose; weight each 46 lbs.

TIRE PUMPS PRESSURE GAUGES

CYLINDER HAND TIRE PUMPS

4K9055—"Leader," bt. 20½ in., 1¼ in. 20 gauge steel cylinder, black enameled ribbed barrel, with rubber cap washer. Positive check valve, guaranteed air tight, 36 in. rubber hose, 1 in pipe. Each, **$2.25**
Lots of 10, " **2.00**



4K9058—"Ideal," bt. 16 to 2 brass plated cylinder, corrugated metal base, can be taken apart, all treated leather washers on steel plunger. 24 in. 3 ply rubber hose, 1 in pipe. Each **$1.60**

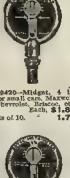
4K9062 — "Rose," bt. 20 in., 1¼ in. steel cylinder black enameled heavy molded leather cup washers, 54 to 60 lbs. pressure, equipped with connection for 36 in. flexible hose and gauge, patent valve. Each **$2.00**

4K9081 — "Beatrice," bt. 30 in., 1¼ in. steel cylinder, black enameled heavy molded leather cup washers, 54 to 60 lbs. pressure, equipped with connection for 36 in. flexible hose and gauge, patent valve. Each, **Out**

"BOYCE" MOTO METERS

Attach to radiator cap. Accurately registers condition of engine. Red flash gives warning. Leather cap wire screw makes easy reading in the dark.

1 in box



4K9420—Midget, 4 in for small cars. Maxwell Chevrolet, Oakland, etc. Each, **$1.85**
Lots of 10, " **1.75**

4K9423—Universal, 5¼ in heavy construction, beveled glass. Each, **$6.63**
Lots of 10, " **6.26**

"PYRENE" FIRE EXTINGUISHERS AND LIQUID

Approved by National Board of Underwriters Insurance Companies allow 10 per cent reduction on cars carrying "Pyrene."

"Pyrene" Fire Extinguishers—Widely used for household protection, barns, garages, etc., steel brass, as also nickel finish, with mounting for black enamel bracket for instant use by turn of handle quick action. 1 in pipe. 0 lbs.

4K9393—Brass finish. Each, **$8.00**
Lots of 6, " **7.50**

"Pyrene" Liquid—1 qt. can for refilling 4K9396—1 can in use. Can, **$1.20**

"YANKEE" HAND TIRE PUMP—With Gauge

4K9068—8x5½ in., steel cylinder black enameled finish, cold rolled steel bearings, carries in running board. Tube compactly inflates rapidly. 8 ft. covered rubber hose with brass tip curved. Each, **$3.25**

TIRE PRESSURE GAUGES

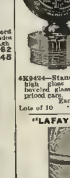
4K9249—"Twinkbill", registers 20 to 100 lbs., nickel on brass case, locks automatically as pressure registered. 1 in face. Each, **$.75**

4K9225—(Mfrs 1561) Schrader, registers 20 to 120 lbs., brass, nickel plated. Each in leather case, Each, **$4.**

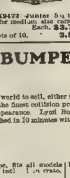
SCHRADER'S VALVE INSIDE

4K9230—Mfrs 1801 For replacing insides that are worn or broken in Schrader valve, motorcycle or bicycle valve 5 in handy tin box. Per 100 (20 boxes) **$4.20**

4K9221 Special Ford Model 4 in. includes black rubber cap of high set grade Each, **$2.62**
Lots of 10, " **2.40**

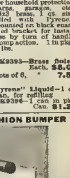


4K9424—Standard, 6in. high, nickel mounted, beveled glass, for high priced cars. Each, **$7.50**
Lots of 10 " **7.00**



4K9472 Junior 5¼ in., for medium size cars. Each, **$3.75**
Lots of 10, " **3.50**

"LAFAYETTE" CUSHION BUMPER



4K9480—Rubber & fabric cushion bar roll black velvet finish guaranteed not to rock or rust mounts on standard front axle clamp. Black fittings and frame 1 in carton with all fittings. Each **$13.50**

"LYON" RESILIENT BUMPERS

Lyon Bumpers are the easiest and most logical things in the world to sell, either to the purchaser of a new car or the owner of an old one. They afford the finest collision protection it is possible to secure. They add materially to the car's appearance. Lyon Bumpers are made for the front and rear of all cars, and can be securely attached in 10 minutes without drilling any holes or the aid of any special tools.

Front "Three-Way" Attachment—Made of finest all tempered steel ¼ in. reinforced front. fits 1917 or earlier Ford, Chevrolet 490 and Franklin with regular special bumpers. Can be used with bolted brackets, to suit make and model. 1 in crate, 25 lbs.

MEDIUM SIZE—8x4½ in. bar.

4K9183—(Mfrs. 101), black, nickel trimmings. . . . . Each, **$8.75**
4K9184 (Mfrs 102) nickel black trimmings " **9.50**

LARGE SIZE—8x4½ in. bar

4K9185—(Mfrs. 104), black nickel trimmings Each, **$10.15**
4K9186—(Mfrs. 103) nickel black trimmings " **11.85**

Front Special—Special type, fits all models Chevrolets 490 to 1927 inc. 1 in crate, 45 lbs.

4K9525—(Mfrs. 18), nickel, black trimmings Each, **$9.45**

Spring Bumper for Ford Cars
Good quality steel. Excellently finished. Additional 25% discount on all orders for 10 sets or more. Can be furnished in various other styles on request, when cars are equipped with Lyon 1 in bumper.

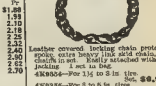
4K9153—(Mfrs. No. 8), nickel black trimmings. . . . . Each, **$5.00**

Rear "Spring Clamp"—For all cars having ¼ elliptic springs, guaranteed not to work loose or affect resiliency of springs. 1 in crate, 5 lbs.

4K9155—(Mfrs. 165), black nickel trimmings Each **$9.50**

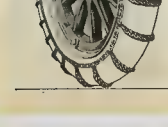
Rear Special Nickel black trimmings fixing bumpers for all cars but no frame extensions in rear. 1 in crate, 45 lbs.

4K9157—(Mfrs. 55), black nickel trimmings. Each, **$9.80**



4K9187

WEED AND "RID O' SKID" TIRE CHAINS



"WEED" ANTI-SKID TIRE CHAINS

Electrically welded steel chains hemp-laced cross-chain. Each pr in box.

For Pneumatic Regular Tires— 32 Pr. Less Pr.

4K9329—30x3½ $7.13 $5.75
4K9331—32x3½ 7.57 6.12
4K9334—31x4 4.00 4.50
4K9335—32x4 4.00 4.50
4K9336—33x4 4.13 4.66
4K9337 34x4 4.87 5.50
4K9338—32x4½ 5.00 5.62
4K9340—34x4½ 5.00 5.62
4K9341 35x4½ 5.25 6.00
4K9343—32x5½ 5.33 6.00
4K9342—32x5 5.00 5.75

For Pneumatic Truck Tires

12 Pr. Less Pr.

4K9266—32x4½ $6.67 $7.50
4K9361—32x5½ 7.00 7.87
4K9363—32x6 7.47 8.40
4K9365—36x6 8.47 9.75

For Single Solid Truck Tires

4K9378—36x3½ Pr. $6.45

4K9372—34x6. . . " **7.50**

"WEED" AUTOMATIC CHAIN ADJUSTERS

For springs attached to wire from the axle around hub cap, hook to chains and hold them close to tire, prevents rattling 1 pr. in box.

4K9376—For 28 to 30 in. tires Pr. 75c
4K9377— " 31 " 34 " " 75c
4K9378— " 35 " 36 " " 75c

"WEED" CROSS CHAINS

For lasting work or broken cross chains, narrow & hard, but not brittle. 25 in. long

Per C

4K9380—5x4 " **6.00**
4K9381—5½ " **6.75**
4K9382—6x " **7.50**
4K9383—4 " **5.00**

"RID O' SKID" TIRE CHAINS

For Pneumatic Tires

Welded steel chain. Each pr in canvas bag

12 Pr. Less Pr.

4K9310—30x3½ $7.57 $1.88
4K9311 30x3½ 7 77 1.93
4K9312—31x3½ 7 87 2.10
4K9316—31x4 1.81 2.18
4K9316—32x4 2.00 2.25
4K9317 32x4 2.07 2.32
4K9318—34x4 2.13 2.40
4K9320—32x4½ 2.20 2.60
4K9321 32x4½ 2.33 2 62
4K9322—36x4½ 2.40 2.70

"WEED" TIRE CHAIN TOOL

4K9389—10 in., for removing, replacing and repairing "Weed" tire chain links simple, efficient 1 in carton Each, **40c**

SOLID TIRE TRUCK CHAINS

Leather covered locking chain protects spoke, outer heavy link steel chain, 12 in. wide, with attached wheel jacket. Each pr in box.

4K9354—For 1½ to 3 in. tire Set, **$6.95**
4K9355—For 3 to 5 in. tires Set, **$7.50**
4K9356—For 5 to 7 in. tires Set, **$8.50**

NOTE: When ordering for card tires up to 3 in. choose a size larger. For 3 to 5 in. tires add for 5 inches two sizes larger. For example 34x4 chains for 32x4 and 34x5 chains for 32x5, etc.

AUTO SUPPLIES

MOTOR DRIVEN AUTO HORNS

"Paramount" — 8¼ in. long, 4 tones, sealed black enamel finish, universal type. Has screw for ground connection or can be used with one wire if ground is provided through frame of car. Operates on 6 volts. Can be used on 12 volts with special bracket and relay for all are guaranteed 1 year 1 to 1000.

4KN031 6 volt type
Each, **$3.50**

4KN032—12 volt type
Each, **$4.25**

4KN035—"Tourist," 9¼ in. black finish "Underwood" type, requiring only 2 wires for connection to battery. High grade construction throughout, polished steel spring adjustable contact point. 1 to 6 volts. Each, **$2.00**

"GILL" 1 PC. PISTON RINGS

Special price, 1 pc. each, to fit their stock numbers in our 4 cylinder walk, perfect compression prevents oil pumping. Made of close grained gray iron, these carbon to antimonium. Each wrapped in moisture proof paper. 1 doz. in carton.

4K7550—3¼x3¼		
4K7951—3½x3½		
4K7952—3¾x3¾		
4K7953—4	Doz	
4K7954—4¼	**$5.00**	
4K7955—4½	Each	
4K7956—4¾	**$0.50**	
4K7957—5		
4K7958—5¼		
4K7959—5½		
4K7960—5¾		
4K7961—6		

Special Note

We can furnish all standard size pistons in 1 or over size. Also pistons for any motor not listed in the above. Send us a description of the motor and we will quote you prices. Where over widths are required always order the over standard.

PRICE TICKET EVERY ARTICLE

"RUSCO" BRAKE LINING SETS

Ty having these in stock, in place of various widths and lengths on cars named eliminates unnecessary loss of time in cutting and make shoes, grade.

Selected long fiber gum asbestos yarn, open and interwoven to give the right degree of friction surface, particularly strong. Impregnated with special compound not affected by oil, water, grease, dirt or dust. 4 per in carton.

4K8115—1¼x8½ in., 8 pcs., 8 socket ends for Dodge brake shoe car.
Chevrolet—Model 490, 1916 to 1920..... des. **95c**

4K8418—1¼x8½ in., 8 pcs., 8 slots in long for foot brake of following car
Maxwell—Model 25, 1916 to 1918..... Set, **$1.05**

4K8414—1¼x8½ in., 8 pcs., 48 in long, for foot brake of following car.
Chevrolet—Model H, F & D, 1916 to 1920 Set, **$1.00**

4K8412—1¼x8½ in. 2 pcs. 47 in long, for foot brake of following cars

Maxwell	25	1916-1920
Buick	6-55	1916
Buick	6-45	1916
Buick	6-35	1916 to 1918
Buick	6-25	1916 to 1918
Chevrolet		1916 to 1918
Chevrolet		1916 to 1920

Set, **$1.00**

4K8413—1¼x8½ in. 2 pcs. 42 in long for foot brake of following cars

Buick	6-55	1917 to 1920
Buick	6-45	1917 to 1920
Buick	6-35	1917 to 1920
Buick	6-25	1917 to 1920
Oakland	34-B	1916
Oakland	34-C	1916 to 1918
Oakland	34-D	1916 to 1918
Oakland	34-E	1916 to 1918
Oldsmobile	43	1916
Oldsmobile	43-A	1917
Oldsmobile	43-B	1918

Set, **$1.80**

4K8310—3x4½ in. 2 pcs. 48 in long, for foot brake of following cars.
Dodge—Touring models.
Oakland 34-A 1916
34-B 1916
34-C 1916 to 1918
34-D 1916 to 1918
34-E 1916 to 1918
Set, **$2.05**

"MARQUETTE" LUGGAGE CARRIER

For Hudson—
4K8406—(Mfrs. 89), 5 pcs., 10 socket ends.
47 in. ea. **$3.08**

For Chevrolet—
4K8405—(Mfrs. 89), 5 pcs., 10 socket ends.
47 in. ea. **$3.08**

For Maxwell—
4K8403—(Mfrs. 41) 5 pcs., 11 socket ends.
47 in. ea. **$3.08**

4K8108—Non-slip round rail for auto, 1¼ in. diameter, 3 ft. long, 3 strong hooks, extends up to 4 ft., folds flat when not in use. 1 in box. Each **$2.45**

"UNXLD" LUGGAGE CARRIER

4K8384—7½ in. wide, extends to 60 in., heavy steel throughout, finished in black enamel 3½ K.W.D. O.S., strong solid tubular end gates, folds compact to 8½ in. height, 7½ in. width. Will fit in any tool box or under seat. List price $2.75. 1 in package. 11½ lbs.

Per lb.		**$1.50**
Less of 6	"	1.45
Less of 12	"	1.40

"WALDEN" INDIVIDUAL CAR WRENCH SETS

Designed to cover all nuts and bolts on cars named. Practical tools, proper construction. Each set in box.

For Dodge—
4K8404—(Mfrs. 60), 6 pcs., 9 socket ends.
SET (4 pcs.). **$2.00**

For New Overland 4—
4K8408—(Mfrs. 79), 4 pcs., 8 socket ends. Set, **$2.00**

For Buick—
4K8401—(Mfrs. 41) 4 pcs., 8 socket ends.
SET (4 pcs.), **$2.40**

For Ford
4K8400—(Mfrs. 87), 5 pcs., 9 socket ends.
Set, **$3.00**

For Chevrolet—
4K8402—(Mfrs. 89), 5 pcs., 10 socket ends.
47 in. ea. **$3.08**

"WALDEN" WORCESTER COMBINATION WRENCH SETS

High grade steel, special triple plated, rustproof finish of fine, lustrous nickel. Each set in wood box.

4K8405—(Mfrs. No. 8) 8 sockets and 6 parts including a reversible ratchet handle. SET (15 pcs.). **$6.65**

4K8409—(Mfrs. No. 10) 10 sockets, steel parts nickel plated, a reversible ratchet handle. Set (19 pcs.). **$8.95**

"BEARDSLEY" NEVER SLIP VALVE LIFTER

For Dodge cars and Ford tractors.

4K7855 — Sold on a money back guarantee. Will not slip or scratch valve stem. Special cast iron fingers allow them to be used on both power or exhaust valve. Each. One in box. Each **$1.00**

POPULAR AUTO JACKS

4K8385—"Leader," 3¼ ton, 6 in. lift, weight 15 lbs. Single lever ratchet jack for low position, extra large base, for light weight cars. 1 in pkg., 4¼ lbs.
Each, **$1.45**

4K8178—Same as 4K8385 except 4 in. lift, weight 14 lbs. 1 in pkg., 4¼ lbs. Each **$1.25**

RIM TOOLS

"Lawco" Pits any size or makes of tire, guaranteed not to injure rim, tube or casing, folds up like a jack knife, can be carried in tool box.

4K9080—1 in pkg.
Each, **$2.65**

"Hess" Split Rim Jack—Carries 2 tons of any make and size rim. Has 4 tool steel jaws, 2 of which are reversible, thus eliminating the use of as well as contracts or expands rims, also in reverse direction. Power, strength and simplicity make it most practical and satisfactory tool for this work.

4K9206 1 in carton
Each, **$4.00**

"NORWESCO" GASKET SHELLAC

4K8481—1 oz. bottle, enough to fill 1 set of gaskets.
Each, **$1.10**

CARBORUNDUM VALVE GRINDING COMPOUND

4K9472 — Special 3 in one compound for valve grinding, lapping and valve grinding work. 1 doz. tins in transfer display box.
Doz. case **$2.60**

"TRICO" WIND-SHIELD CLEANER

For All Cars

Standard Equipment on America's Leading Cars.

4K9078 — Attachments may be made by clamp over the top of the frame or by drilling 3 holes. Drilling the frame is preferred as it is a solid attachment for pivoting type windshields. Operated by the motorman from the inside of the car. Has a powerful rubber blade, which is in contact with the glass at all times. Automatic tension device compensates for wear. Operating frame is made of brass, nickel plated. Has a handy pedal for cleaning the glass in front of the motorman. Each, **$1.35**

"DUTCH" BRAND REPAIR PRODUCTS

Valve Grinding Compound —Proven formula.
4K8484—7 oz. duplex can
Each, 25c

OIL AND GREASE GUNS

Jumbo—8 in heavy brass cylinder, holds 15 oz. of hard grease. Has finished nose of the most constructed plate made.
4K9213—1 in carton
Each, 75c

WHITE COTTON WASTE

Used by selected long thread special grade waste manufacturers. Has no equal for wiping and for cleaning dirt, grit or grease from machinery.

4K8465—10 lb in bale	18c
4K8466—1 lb in bag	17c

"AUTOSPRAY" WASHING BRUSH

4K7051 — 18 in. attaches to hose. Water spray through perforated brass center tube. Nine inch brush effigied in spiral wire frame, black enameled. Has hardwood wood sandpaper, nickel plated wheel spokes and all "ready-to-use" places. 1 in box.
Each, **$1.70**

When in doubt write our

Customers' Service Department

Its job is to find a solution to your problem.

BOYCE MOTOMETERS

Standard Model

List $10 00

A perfect heat recording instrument of the highest type, with extremely broad ribbon-bore thermometer tube. Because of its perfection of workmanship, the Standard Model has been selected as regular equipment on America's leading cars. Size, 3¼ x 5½ inches. Weight (packed in carton) 16 ounces.

Universal Model

List $7.50

Slightly smaller than the Standard Model finished in all nickel. A very beautiful instrument. Beveled crystals add to its appearance. Its handsome open face is more easily read than a clock. Size, 3 x 5 inches. Weight (packed in carton) 12 ounces.

Overland Model

Designed especially for Overland cars having an *oval*, radiator cap, such as on the Overland "4."

Standard	$10 00
Universal	7 50
Junior	5.00
Midget	2.50

NOTE When ordering specify "Overland Model."

De Luxe Model

List $15.00

This model is all that the name implies, having been designed for the highest grade passenger cars. The case is silver plated and the finish of the entire instrument is of the highest quality of workmanship. It is in truth a "De Luxe" instrument. Size, 3¼ x 5¾ inches. Weight (packed in carton) 20 ounces.

Midget

List $2.50

Special Model for the Ford

List $3.50

Midget Model

A genuine Boyce Moto-Meter especially designed to meet the demand of the small or light car owner. It combines accuracy with a sturdiness of construction. Size, 2½ x 3⅛ inches. Weight (packed in carton) 5 oz.

Special Model for the Ford

The beauty of this instrument on the radiator cap of a Ford, together with its utility, is an investment that every Ford owner should make. Complete with handsome radiator cap. Size, 2¼ x 3⅞ inches. Weight (packed in carton, 7 ounces.

Truck and Tractor Model

List $10.00

This model has been designed especially for severe conditions so often met with in truck and tractor service. The casing is nickel plated. The diameter of the thermometer tube is one half inch which makes breakage impossible. The frame of the instrument is very substantial, and the thermometer tube thoroughly protected. Size, 2½ x 4¾ inches. Weight (packed in carton) 16 ounces.

Junior Model

List $5.00

This model appeals strongly to owners of cars of medium size. The frame of this instrument is heavily nickel plated, and it has the same range of temperature as the Standard and Universal Models. Size, 3 x 4¾ inches. Weight (packed in carton) 8 ounces.

Distance Type Model "A"

List $18.00

Especially designed for installation where the radiator type instrument cannot be installed on a line with the operator's vision, as on aeroplanes, motor boats, stationary engines, tractors, automobiles and for laboratory testing purposes. Finished with black enamel case (3 and 4 inches in diameter), nickel plated rings, beveled crystal, and red and white pointer. The temperature ranges from 32° to 212° F. Complete with 5 feet of tubing, and hose couplings.

To install it is only necessary to cut away one inch section of the hose leading to the upper part of the motor from the radiator.

In ordering be sure to state the exact size of the inside hose dimensions.

For other models of Distance Type instruments with longer tubing lengths, greater temperature ranges, special fittings, etc., write for special literature.

AC TITAN

$1.00 EACH

No. 78 LT

⅞" LONG AC Titan

Regular equipment on Buick, Chevrolet, 1920 Kissel-Kar, (McLaughlin-Buick, Canada), Scripps-Booth, 4 cylinder, Sheridan, Howell Tractors, Knox Tractors, Samson Tractors, Olds Trucks and Midwest Engines.

No. 78 RT

⅞" Reg. AC Titan

Regular equipment on Cadillac, Cleveland, Cole, Dort, Hudson, Hupmobile, Jordan, LaFayette, Kissel-Kar up to 1920, Liberty, Oldsmobile 8 cylinder, Packard, Paige-Detroit, Pierce-Arrow, ReVere, Roamer and 160 others.

No. SAET

SAE Reg. AC Titan

Regular equipment on Apperson, Commonwealth, Daniels, Haynes, Marmon, Mitchell, Saxon, Singer, Stearns-Knight, Riker Trucks and Delco Light Plants **No. SAEST** or Locomobile Special Titan (slightly shorter than SAE) Locomobile equipment 1920.

No. 12 LT

Long ⅞" AC Titan

Regular equipment on Reo cars and trucks and Speedway motors.

78 DT

Dodge Special AC Titan

Slightly longer than ⅞" regular. Made especially for Dodge Brothers.

AC

Spark Plugs

The Standard Quality Plugs of the World

CARBON PROOF TYPE FOR FORD

NO. 12 CPT

⅞" REG. AC TITAN CARBON PROOF

This plug is especially designed for use on Ford cars and is remarkably efficient under all conditions. The special ribbed porcelain with saw-tooth edges reduces carbon troubles to a minimum. The reason being that the saw tooth edges of the carbon proof porcelain become so hot as to burn away the carbon as fast as it forms, thereby keeping the porcelain clean and breaking up short circuits.

SPECIAL TERMINALS FURNISHED GRATIS

AC TITAN

$1.00 EACH

No. 78 LBT
⅞" Long Body AC Titan

Regular equipment on Chandler, Phianna, Stevens-Duryea, White Trucks, Bessemer Trucks, Hahn Trucks, Moreland Trucks, Patriot Trucks, Robinson Fire Trucks, Schwartz Trucks, Titan Trucks, Owens Light and Power Plants and Northlite Lighting Plants.

12 CPT

⅞" Reg. AC Titan Carbon Proof

Regular equipment on Moller passenger cars, A & T, Buffalo, New Britain and Oldsmar Garden Tractors, Elmira Trucks, Schwartz Lighting Plants

Recommended for Overland and Studebaker or any motors using ⅞ in. regular pluga.

No. SAELT

SAE Long AC Titan

Regular equipment on Monroe, Oakland, Oldsmobile 6, Premier, Scripps-Booth 6, Nash to 1920.

No. SAENT or extra long SAE used on 1920 Nash.

18 SMT

Short Metric AC Titan

Reg. equipment on Henderson Motorcycles. Recommended for Packard to 1914, Peerless to 1915.

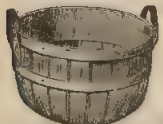
No. 18 MT

Reg. Metric AC Titan

Regular equipment on Essex, Excelsior Motorcycles, Briggs & Stratton Motor Wheel, Johnson Motor Wheel.

No. 18 LMT or Long Metric, regular equipment on Scripps-Booth 8.

GRAIN BASKETS



Wide band stave, side handles.

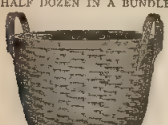
Nos.	T41	T41½	T42
Bushels	1	1½	2
W't per doz., lbs.	42	50	72
Per dozen	$8.00	10.00	14.00

HALF DOZEN IN A BUNDLE

RACINE, rock elm stave, side handles.

Nos.	T61	T61½	T62
Bushels	1	1½	2
W't per doz., lbs.	44	55	66
Per dozen	$8.30	11.30	16.00

HALF DOZEN IN A BUNDLE



Double elm splint.

Nos.	T72	T73	T74
Bushels	2	3	4
W't, doz., lbs.	68	85	100
Per dozen	$39.00	44.00	47.00

HALF DOZEN IN A BUNDLE

Narrow band stave.

Nos.	T10½	T11
Bushels	¾	1
Style of handle	Bail	Side
W't per doz., lbs.	24	40
Per dozen	$4.70	5.40

HALF DOZEN IN A BUNDLE

GRAIN BASKETS

BRIGG'S, oak stave, galvanized iron hoop, wood side handles.

Nos.	T51	T51½
Bushels	1	1½
Style of handle	Side	Side
W't per doz., lbs.	50	56
Per dozen	$16.00	24.00

HALF DOZEN IN A BUNDLE

MEASURES

Made of soft elm, galvanized iron bound, pine bottom.

Nos.	N80½	N81	N82
Capacity	½ pk.	1 pk.	½ bu.
W't, doz., lbs.	20	30	52
Per dozen	$12.50	15.50	17.00

EARTHENWARE JUGS

FOR HARVESTERS, TOURISTS, PICNICS, ETC. Keeps contents hot or cold, drinking water, coffee, potato salad, creamed potatoes, ice cream, etc.

The large opening permits cleaning with hand or brush.

The 3 in. cork is readily kept clean with Dutch Cleanser, Bon Ami, etc.

Capacity 1 gal., 3 in. opening. Air-tight insulated metal jacket, diam. 9½ in., height 12 in., w't per doz. 132 lbs.

No. T444—Full one-sixth doz. crates, per dozen $60.00

No. 444—Less than crate, per dozen $60.00

Extra Corks, per dozen ..... $.....

GALVANIZED WATER CANTEENS

Indestructible, double seam, blanket covered, with khaki straps.

Full Cases of One Dozen.

Nos.	T2	T4	T6	T8
Cap., qts.	2	4	6	8
Size, in.	8×3¾	9¾×4½	11×5	12×5½
W't per doz. lbs.	15	25	30	35
Per dozen	$19.80	25.00	31.00	36.00

Less Than Full Cases.

Nos	2	4	6	8
Per dozen	$19.80	25.00	31.00	36.00

ONE DOZEN IN A FIBRE SHIPPING CASE

BOY SCOUT

No. 333—1 qt. capacity, diam. 6 in., galvanized iron, 1 in. zinc filler screw, khaki covered and adjustable khaki straps with hinged strap loops, w't per doz. 9 lbs., per dozen $19.00

ONE IN INDIVIDUAL CARTON

REFRIGERATOR PANS

Round, galvanized.

Full Crates of Half Dozen.

Nos.	R14	R16
Size, in.	14×3½	16×3½
W't, doz., lbs.	30	37
Per dozen	$7.20	9.00

Less Than Full Crates.

Nos.	14	16
Per dozen	$7.20	9.00

HANGING LAMPS, Etc.

BRASS MAMMOTH STORE OIL LAMPS

A01234 — Pinewood Brass Fount, improved ratchet wick lift and oil indicator, complete with fin reflector, harp, smoke bell and chimney, each complete in case. Wt. 20 lbs. Each, $5.25

A01238 — 3 Banner Brass Fount. Improved ratchet wick lift and oil indicator complete with tin reflector, harp, smoke bell and chimney, each complete in case. Wt. 20 lbs. Each, $5.25

No. 3 MAMMOTH BANNER LAMPS

Brass finish. Can be lighted without removing chimney.

A01236 — No. 3 Banner, embossed 1 qal brass fount, burns 7½ hours, improved ratchet wick lift and oil indicator complete with 14 in. dome shade harp, smoke bell and chimney. Each in case. Wt. 21 lbs. Each, $6.45

A01237 — Plume and Feather, 12 in. spread 15 in. 1 qal solid brass fount, improved ratchet wick lift and oil indicator complete with 14 in. dome shade harp, smoke bell and chimney. Each in case. Wt. 20 lbs. Each, $6.45

No. 2 NICKEL ROYAL STORE LAMPS

A01238 — Length 28 in. No. 2 royal center draft burner with oil circle cap. 15 in embossed tin shade, smoke bell, wick and chimney. Each in case. Wt. 19 lbs. Each, $3.00

A01239 — Length 28 in. 6 in solid brass fount. No. 2 royal center burner, oil drip cup, 10 in opal shade, smoke bell, wick and chimney. Each in case. Wt. 20 lbs. Each, $3.50

NICKEL EXTENSION FIXTURE

Extends 30-in., length after put when fully extended 48-in. Wt. 15 lbs.

A24314 — Ratchet style, heavy canopy and fancy hook. Works smoothly positive style. Each, in box ..... Each, $1.35

GLASS BRACKET LAMP FOUNTS

A233 — Flat fiber fount with brass No. 2 brass collar and side filler hole, ring on fount has feet. Each in box. Doz. $1.35

NIGHT LAMP CHIMNEYS

A830 — Kutnee ..... burner. Bracket ..... in silk metal bottom 1½ in. 1 doz. in box, ... Doz. 40c

A837 — Same shape as Horner or Gem 3 inches height 4½ in., diameter bottom 1¾ in. 1 doz. in package ..... Doz. 55c

ELECTRIC SHADES

Satin Etched, Opal and Hand Painted 2¼ in. Electric Shades, to fit all styles. All shades for stock at popular prices. We give you a good margin of profit.

A4833 A4832 A4825

A4833—Fit 2 in. Fitter Crystal Satin Etched Glass ..... Doz. $2.05

A4832—Fit 2 in. Fitter Parchment Decorated Wild Rose with green foliage, crystal satin etched shade ..... Doz. $3.00

A4825—Fit 2 in. Fitter, Cut Glass Shade, fine foliage, crystal satin etched bridesmaid glass ..... Doz. $6.60

ELECTRIC ADJUSTO-LITE

Wired Ready for Installation.

The handiest lamp for sewing, reading, shaving or working. Bracket is screwed to the side of the bed, shelf, table, upholstery, mirror or sewing table. Has friction clamp to prevent scratching. Can also be used on floor or table.

A4881—Brushed brass, fit 1 in. base 4½ x 8 in. shade 5 in. push socket, 9 ft. of silk cord and 6 ft. switch plug. Each in ..... box. Packed 4 in carton. Less than carton ..... Each, $2.50 Doz. $9.70

ELECTRIC DOMES

Complete with Bright Brass Canopy and Chain Ready to Hang.

A05985—Dining-room Dome, ... in., total length, with fixture 5 ft., and metal frame, brush brass and black finish, beautiful amber glass panels with ruby ..... wired 3 key socket ..... Each, $12.50

H15031 — ..... floral length 5 ft. ..... set, best grade mottled amber panels, and tinted glass shade, ... engraved coat metal Fitments, fit ..... chain and canopy for hanging. Each in case. Wt. ..... Each, $13.75

CUT GLASS WATER SETS—

This blown crystal glass, fire polished. Each set in carton, consisting of large Pitcher and 6 Glasses to match.

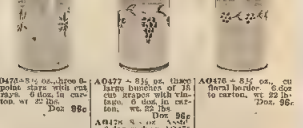
A0484—Three large bunches of 13 grapes and cut-in vintage. Set $1.20

A4584—Three 6-point stars with cut rays. ..... Set $1.20

A1482—Three large daisies and cut foliage. ..... Set $1.25

THIN-BLOWN CUT GLASS TUMBLERS

Clear Crystal thin blown glass, fire polished, smooth melted edges. Popular cuttings.



A0473—8½ oz., three 6-point stars with cut rays, 6 dozen in carton, wt 22 lbs. Doz. 86c

A0477—8½ oz., three large bunches of 16 cut grapes with vintage, 6 doz. in carton, wt. 22 lbs. Doz. 86c

A0476—8½ oz., cut floral border, 6 doz. to carton, wt. 22 lbs. Doz. 86c

A0478—8½ oz., 2 doz. each as A0473, A0476 and A0477, 6 doz. assorted in carton, wt 22 lbs. Doz. 86c

CUT GLASS VASES

Web, floral and fan cutting, cut star bottom, scalloped top.

A2258 — 6 in.	Each	$3.15
A2230 — 10 "	Each	3.75
A2240 — 12 "	Each	5.25
A4241 — 14 "	Each	7.65

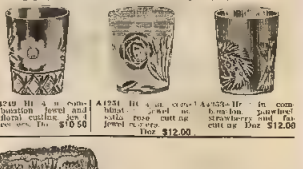
Pinwheel, strawberry and diagonal cutting, cut star bottom, scalloped top.

A4218 — 9 in.	Each	$4.75
A4242 — 10 in.	Each	6.75

Combination floral and floral cut, floral centers, cut star bottom, scalloped top.

A4215 — 12 in.	Each	$4.95
A4235 — 14 "	Each	6.50

CUT GLASS TABLE TUMBLERS



A4249 — Fit 4 in. cut-in ..... bination jewel and floral cutting. Jewel reverse. Doz. $10.50

A4251 — Fit 4 in. cut-in ..... hinge jewel ..... with rose cut in jewel reverse. Doz. $12.00

A4252 — Fit 4 in. cut-in ..... bination jewel and strawberry and fan cut. Doz. $12.00

FOOTED ROSE BOWLS

A4916—Size 7½x3¾ in., ... lish star, jewel and floral cutting, jewel center, scalloped edge. ..... Each $2.25

See Full Line of Cut Glass on Page 532.

WE have so many GOOD VALUES for you, that we cannot begin to give them an special mention. The items shown as "Bargains" on our Goldenrod Pages, and the additional "TRADE TONICS" and "Star Values" (indicated by small stars like this*) are merely some of our most TIMELY VALUES, but to get the full benefit of our BETTER VALUES, you should study our white pages just as carefully as our Goldenrod Pages.

BRAZED STEEL TORCHES

TWO SPOUT

Per Dozen

No. 2655A—2 Quart, Two Spout, Size 6x8½ in.; Will Burn about 9 Hours with One Filling; Heavy Steel Brazed; Wrought Iron Top; Hang by Hook; Cover is Chained to Torch.....$13.80

Open Stock; Weight 21 Lbs. Dozen

ONE SPOUT

Per Dozen

No. 2655A4—2 Quart, One Spout; Otherwise same as No. 2655A.....$17.30

Open Stock; Weight 19 Lbs. Dozen

ONE SPOUT

Per Dozen

No. 2655B—1 Quart, One Spout; Size 6x8 in.; Will Burn about 8 Hours with One Filling; Heavy Steel, Brazed; Wrought Iron Top; Can be Carried in Hand, and will not fall over if set down.....$12.00

Open Stock; Weight 15 Lbs. Dozen

ENGINEERS HAND TORCHES

Malleable Iron; Small Tube at Top for Candle Wicking; Supplied with Bracket Holder; Light and absolutely oil-tight; will burn 5 hours with one filling.

Per Dozen

No. 2655B4—1 Pint; Size 13⅛x2 in....$22.80

Open Stock; Weight 36 Lbs. Dozen

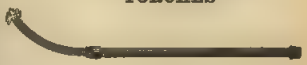
Oval; IXX Tin; Two ⅜ in. Tubes for Candle Wicking; Brass Screw Filler; Hollow Tin Socket for Wood Handle.

Per Dozen

No. 2655C—1 Pint; Burns 7 to 8 Hours with one filling, No. 1 Flat Wick Burner may be used.....$19 00

Weight 2 Lbs. Dozen

BRUSH BURNING TORCHES



IRON PIPE

Minnesota State Forestry Approved Pattern

Each

No. 2655C4—Length 43 in.; for Lighting Fires in Brush Piles and Refuse; Burns Kerosene; Uses Candle Wicking....$1.80

Weight 6 Lbs. Each

TIN TORCHES

Swinging

Hand made in our own Shops, of Heavy Tin, with Can Screw Fillers and Spouts. 1 in. Tube for Candle Wicking.

Use Kerosene or Torch Oil.

ONE SPOUT

Nos.	2655D	2655E
Quarts	1	2
Can, In	4x4¼	5x5⅝
Burns, Hours	8	16
Weight Dozen, Lbs	6	8
Per Dozen	$18.00	20.00

Open Stock

TWO SPOUTS

Nos.	2655F	2655H
Quarts	1	2
Can, In	4x4¼	5x6⅝
Burns, Hours	4½	9
Weight Dozen, Lbs	6	7½
Per Dozen	$22.00	27.00

Open Stock

MINERS CAPS

With Single Visor; Fiber and Tin Front, unaffected by Fire, Water and Oil

In ordering, specify Sizes

Per Dozen

No. 2655P—White Duck; Size 6¾ to 7½.....$4.50

No. 2655R—Brown Duck; Size 6¾ to 7½..... 4.50

Average Weight 3 Lbs. Dozen

CANDLES

MINING

Per Box of 240

No. 2655N—Granite; 9½x1⅜ in.; 14 Oz. 6's (Six Weigh 14 Oz.).$12.00

Weight 40 Lbs. Case

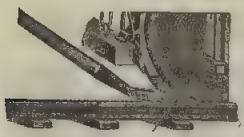
LADDER ROUNDS

Per 100

No. 2655Y—Hickory; Length 16 in.; 1¼ in. Diam., turned to 1 in. at ends.....$8.00

250 in Crate, Weight 175 Lbs. per Crate

CAR PUSHERS



ATLAS

Japanned malleable iron frame and socket; finest tool steel square heel, can be inverted and all four sides used. Selected maple handle, varnished.

By the compound lever arrangement the moving power is applied on the rim of the wheel so far from its contact with the rail that the moving force is utilized to roll it forward, instead of wasted in an effort to raise it from the track.

Each

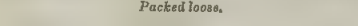
No. 10—Length over all 67 inches; complete with handle, weight each 15 pounds.....$16 50

Per Pair

No. 108—Extra bits; weight each ½ pound..... $1 20

Packed loose.

I. C.



High carbon steel; one piece. Extended heel.

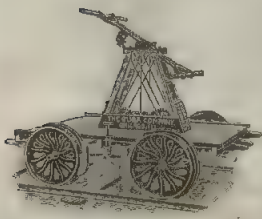
Each

No. 2—Length 57½ in. [illegible]..... $7 50

Packed loose; weight each 20 lbs.

BUDA HAND CARS

BUDA FOUNDRY AND MFG. CO.



Helical Gears.

Unless otherwise specified all Buda hand cars will be furnished with helical gears as they present many advantages over the ordinary spur gears. There is no lost motion. The teeth are cut in a diagonal manner creating a continuous rolling contact, thus before one tooth disengages the one ahead has begun to mesh. This gives a steady motion to the car and the operators are enabled to obtain greater power with less effort. The teeth also are stronger than on a straight tooth gear, because, being cut diagonally, they are somewhat wider.

Taper Wheel and Pinion Fit—All Buda hand cars will be furnished with the improved taper fit on wheels and pinions, unless otherwise desired. If straight fit is preferred, this fact should be specified when ordering.

Framework—The framework of all Buda hand cars is of specially selected maple, thoroughly seasoned. Platforms or decking is of long leaf pine dressed on both sides to uniform thickness.

Each

No. 1—Buda standard hand cars, standard gauge, platform 6 feet long by 4 feet 5 inches wide, axles 1½ inches in diameter, wheels 20 inches in diameter, weight 525 lbs.....+$285 00

+F. O. B. Illinois Factory Only.

HARVEY PUSH CARS

BUDA FOUNDRY AND MFG. CO.

Harvey push cars are made in the same thorough manner as the Buda hand cars described above, using the same pressed steel wheels taper fitted to axles, unless straight fit is specified on order.

These cars can also be furnished with insulated axles for use on roads using block systems with track circuits. These are always extra and cars so desired should be specified on order, otherwise they will be shipped without insulation.

The framework is of specially selected maple, thoroughly seasoned. Platform or decking is of long leaf pine, dressed on both sides to uniform thickness and has hardwood end rail at each end, bound with a substantial iron strap.

Each

No. 4—Harvey push car, standard gauge, platform 7 feet long by 5 feet 6½ inches wide, axles 1½ inches in diameter, wheels 20 inches in diameter, weight 850 lbs.+$252 00

JACK SCREWS

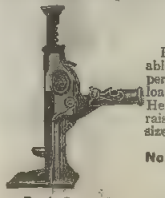
Cast iron frame, wrought iron screw. Threads fine enough for power, and coarse enough for speed. Standards shaped to insure strength, used for raising buildings, cars, engines, boilers, locomotives etc.

Nos.	Screw, Dia. In.	Stand. Width In.	Overall, In.	Qty. Tons.	Wt. Lbs.	Each	
1	1½	8	12	12	14½	$4 25	$6 75
2	1½	10	14	12	17	4 75	7 50
3	1½	12	16	12	19	5 25	8 25
4	1¾	10	14	16	22	5 75	9 30
5	1¾	12	16	16	26	6 25	10 05
6	2	10	14½	20	27	6 75	10 80
7	2	12	16½	20	29	7 50	12 00
8	2	14	18½	20	34	8 25	13 35
9	2	16	20½	20	38	9 25	14 70
10	2	18	22½	20	42	10 25	15 75
11	2	20	24½	20	50	11 50	+18 00
12	2½	22	27	24	59	14 50	+22 80
13	2½	12	18	28	40	10 75	+16 80
14	2½	16	22	28	56	13 25	+20 70
15	2½	18	24	28	62	14 50	+22 80
17	2½	24	30	28	72	13 25	+28 80

LEVER JACKS

BARRET PATTERN

Malleable iron frame, forged steel rack, drop forged open hearth steel pawls, high carbon rolled steel fulcrum pin, hardened steel bearings, selected hardwood handles.



BARRET PATTERN

Double-Acting, Trip.

Recommended for track work only; able to quickly discharge its load to permit its immediate withdrawal. Lifts load on upward and downward strokes. Height bar down 24 inches; height bar raised 37½ in.; rise of bar 13½ inches; size of bar 1½x1½ inches.

Each

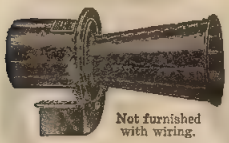
No. 18—Capacity 10 tons..... $45 00

Packed loose; weight each 62 lbs.

+Push Cars—F. O. B. Illinois Factory Only.

+Jack Screws—F. O. B. Wisconsin Factory Only.

A. E. WARNING SIGNALS



Not furnished with wiring.

Wiring is already on Ford Cars.

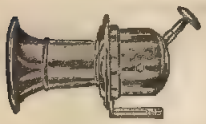
MOTOR DRIVEN

Built special to fit all **Ford** cars equipped with 6 volt batteries.

Finished in black, equipped with brackets as illustrated, ready for installation.

No. T6057—Length 10 in., diam. 5 in., w't each 4 lbs. .....each $8.00

ONE IN A BOX



This model is efficient in results. The push rod is set at a forty-five-degree angle, making possible a simplification of interior mechanism. One stroke of the plunger creates 84 sound impulses. It has a vibratone steel diaphragm.

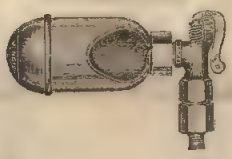
No. T6036—152B—Black enamel finish, complete with bracket, w't each 3¾ lbs. .....each $4.70

ONE IN A CASE

H.S.B.&CO. OUR VERY BEST SOLID VALUE

Our Very Best is the Very Best.

BUELL EXPLOSION WHISTLES



A powerful, warning device, fits in priming cup opening, getting the explosion direct.

No. 6070—Single tone, whistle complete, ready for installation, w't each 1 lb. .....each $5.70

No. 6072—Special Spark Plug for use on engines not having priming cups, w't each 10 oz., extra, each $1.30

ONE SET IN A BOX

SPECIAL PUMP

No. 6349—Junior, Spark Plug Pump, guaranteed to give satisfaction and inflate tire with pure, fresh air, 70 lb. pressure in three minutes, attached and used the same as the Standard Spark Plug Pump, construction strong, metal piston rings and valves used, no wearing parts to break or get out of order, guaranteed for one year, fitted with ⅛ in. connection and furnished complete with 10 ft. hose, accurate gauge and connections, w't each 2 lbs., each $11.75

H.S.B. & CO. REV-O-NOC

We Stand Behind Our Brand.

PUMPS

BRIDGEPORT

No. 6339—Seamless drawn brass tubing barrel 1¼x17 in., which affords smooth bearing surface for leather plunger bucket, black japanned hardwood handle, heavy sheet brass cap, coil spring attached to plunger rod to prevent hitting on up stroke, 3-ply, 20 in. hose equipped with screw type connection to fit all valves, heavy cast iron foot base, w't each 2 lbs. .....each $1.76

LOOSE

ROSE FRICTIONLESS

A most powerful, quick acting pump with few parts, no vacuum in the cylinder.

Single cylinder, seamless steel barrel, brass base and folding stirrup, patent valve permitting full supply of air below the plunger, complete with 24 inches of 5 ply rubber hose.

Nos.	6332	6336
Cylinder, size, in.	20x1¼	20x1⅜
W't each, lbs.	2	4
Each	$3.30	4.00

ONE IN A BOX

ACCESSORIES FOR FORD CARS

SIMPLEX AUTO JACKS

A sturdy, powerful, dependable Jack for light pleasure cars. Finest malleable iron construction, all parts carefully finished. Steel spring case, equipped with real piano wire. Pawls operate perpendicularly. Jacks work easily, rapidly and positively. Cannot get out of order—won't break.

No. 6130—36—Capacity ½ ton, height 10 in., left 6¼ in., w't 6 lbs., each $3.60

AJAX JACKS

Pressed steel, finished in black enamel, light in weight, strong and durable. Equipped with a single spring action. Used as standard equipment by many of the large manufacturers of automobiles.

No. 6148—Height 10½ in., lift 6 in., capacity 2,000 lbs., complete with steel handle, w't each 3 lbs., each $1.70

NATIONAL STANDARD

No springs, no gears, no complications, no small parts to stick and quickly rust out.

No. 6164—14—Height 9 in., with screw down, height with screw raised 14¾ in., w't 3 lbs., each $2.20

LICENSE BRACKETS

A combined License Bracket, Crank Holder and Locking Device. Fastens under nuts on front spring clip; Crank Holder turns up out of the way and is firmly held in position while starting crank is being used.

To lock car engage crank as in starting and pass any lock of suitable size through hole in bracket and around crank handle.

Finished in black enamel and supplied complete with screws and nuts.

No. 6991—W't per doz. 5 lbs., per dozen $5.30

LOOSE

FRONT TAG CLIP

Hold front number plate or license tag rigid, under spring clip nuts. Made from steel, finished in black enamel and furnished with nuts, bolts, washers, etc. Will fit any plate.

No. 5990—W't per doz. 6 lbs., per dozen pairs $3.60

ONE PAIR IN A BOX

COWL BOARD CUTTERS

A practical tool for cutting circular holes in metal or wood.

A steel center punch is screwed firmly into the cast iron frame and holds both cutting tools steady.

The two specially hardened crucible steel cutting edges can be adjusted to cut holes from ½ inch to 4½ inches in diameter.

The Cowl Board Cutter can be used in either a hand brace and bit or in an electric drill.

No. 7360—W't each ½ lb., each $6.70

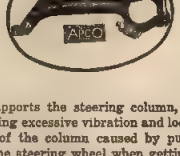
STEERING WHEELS

Here is a big, handsome, strong steering wheel that adds to the appearance of a Ford and makes driving easier and safer.

Constructed of stout, tough, hardwood finished in walnut with corrugated rim. Spider is of die cast polished aluminum.

No. 7136—Non-tilting, 17 in. wheel, w't 5 lbs. .....each $7.00

STEERING COLUMN BRACE



Supports the steering column, preventing excessive vibration and loosening of the column caused by pulling on the steering wheel when getting in and out of the car. Consists of a black enameled malleable iron bracket, bolts and screws, ready to attach. Can be put on in a very few minutes.

No. 7122—W't per doz. 10 lbs., per dozen $16.00

ONE IN A BOX

GOLF GOODS

GOLF BALLS

Burke—Grand Prize

Recessed Dimple markings; 30 pwt. The most serviceable ball possible to produce.

Conforms to latest U. S. G. R. A. rules.

NO	DOZEN
30	$13 20

Eagle

An exceptionally high powered ball. The perfect medium for expert golf. Wonderful distance both in the air and on the ground. Perfect controllability off the club. Dimple marking. Sinks in water. Small size 1.630 inches. Weight 1.62 ounces, equivalent to 29½ pwts.

NO.	DOZEN
New Eagle 1	$12.00

Paramount A

A long distance ball with easy flight and remarkably true action. A strictly high-grade ball at a moderate price. Alternating triangle marking. Sinks in water. Small size 1.665 inches. Weight 1.62 ounces, equivalent to 29½ pwts.

NO.	EACH
Paramount A	$9.00

Paramount F

The light weight construction of this ball produces long driving qualities and makes it good for soft turf conditions. Square mesh marking. Large size 1.710 inches. Weight 1.47 ounces, equivalent to 27½ pwts.

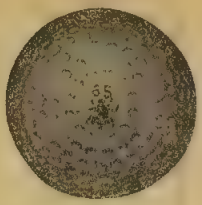
NO	EACH
Paramount F	$9.00

Scottie

A substantially made ball which will give good service under all conditions. Good for practice and for beginners. Weight averages about 30 pwts. Dimple marking. Uniformity of size not guaranteed.

NO	EACH
99	$6 00

GOLF BALLS



Burke

Standard size; recess marking only. The best low priced ball on the market

NO	DOZEN
B65	$9.00

WOOD GOLF CLUBS

Burke's Grand Prize

Drivers and Brassies

NO.		EACH
40	Driver; long head and long face; a small dreadnaught	5.25
42	Brassie; medium size. Mate for No. 40.	5.25
54	Driver; medium size head	5.25
56	Brassie; mate for No. 54 Driver	5.25
90	Driver; medium, pear-shaped head	5.25
92	Brassie; mate for No. 90	5 25
140	Driver; long, narrow head; large face	5.25
142	Brassie; mate for No. 140 Driver	5.25
144	Driver; long, pear-shaped head	5.25
146	Brassie; mate for No. 144 Driver	5 25

Lady Burke Models

NO.		EACH
430L	Driver; women size	$5.25
432L	Brassie; women size; mate for No. 420L	5.25

Spoons

NO.		EACH
2	Baffie Spoon; medium head	$5.25

"Victor Special" Golf Clubs

A medium grade low priced club for the beginner.

NO.		EACH
1VD	Driving Iron	$2.50
2VB	Brassie	2.50
3VMI	Mid Iron	2.50
4VM	Mashie	2.50
5VP	Putter	2.50

THE FORD SECTION

Efficient Organization of Greatest Importance

Successful Ford Dealer Says Fine Buildings and Equipment a Great Help, But Trained Men Even More Necessary

Believes in Twenty-Four Hour Service in Rural Community

Finds It Brings Business From Farmers, Traveling Salesmen and Tourists

By JAMES W. COTTRELL

FOUR sales in November, 1920, with closed territory; thirty-six sales the next month with open territory. Almost all of the 36 sales made in what had been other dealers' territory. Any organization which can make such a record in selling Ford products must be very much on the job. But this is only one of the accomplishments of W. A. Jones, Ford dealer, of Mount Holly, Burlington County, N. J.

Mr. Jones has had the Ford contract in Mount Holly for eight years. His business has been in its present location for seven years.

The New Building Just as It Was Being Completed

Personnel Most Important

No amount of buildings or equipment can make a successful business. Proper facili-

ties are necessary, but without the right management and employes they cannot accomplish anything worth while.

In the Jones establishment the policy is to hire only good men and to pay them good wages and make it worth while for them to do good work and keep on doing it.

There are from 26 to 30 employes and Mr. Jones reports that he has no labor troubles. One way of keeping interest in the establishment is a bonus or Christmas present. This bonus is paid to each employe two weeks before Christmas. And it is based on the length of time the employe has been employed. An employe who has been there six months gets $12, one with a year's service $25, fifteen months $30, two years, $50, with an increase of 10 per cent per year after two years. This payment is not a part of the salary paid the employes but is an extra payment for continuous service.

Part of the Storage Space for New Cars, Tractors and Implements. Note the Heavy Ceiling Beams to Support a Second Floor Later

It has been found that the money given in this way is well spent as it brings about a better spirit among the employes and maintains their interest in the welfare of the business.

In an addition, recently made to the building, there is a room for the use of employes This room is equipped with individual steel lockers, shower baths, and other conveniences. There may seem to be no direct return from the cost of these things, but the better work done by the men because of the interest taken in their welfare amply justifies the cost of the improvements

Departmental Organization of Business

The business has been divided into five departments by Mr. Jones. The five are Sales, Financial, Purchasing, Battery, Repair. Each department is headed by and in charge of one person who is looked to by Mr. Jones for the proper conduct of that department. And the authority and responsibility of the head of the department is recognized in all ways. If Mr. Jones, in going through the shop, sees a mechanic doing something wrong he does not tell the man but tells the shop superintendent. And the same thing applies to other departments.

Four salesmen are employed, in charge of a sales manager. The person in charge of the Financial Department takes care of the bookkeeping, correspondence, bills and collections and the notes given by customers for machines bought on time.

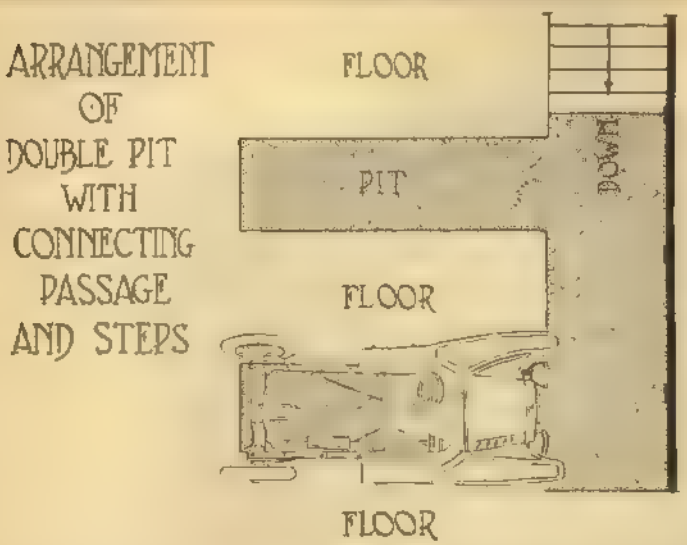
Features 24-Hour Service

Continuous service is given by this establishment in Mount Holly. The place is open for business 24 hours a day, seven days in the week. There can be no question about such a policy being profitable, because it has been in force for several years, in fact almost all of the time since the business was started.

No extra charge is made for work done at night. The 24-hour service is of particular value to tourists, traveling salesmen and others similarly situated, as work can be done during the night, and the car will be ready for the journey when the people get up the next morning. The fact that parts can be had at any time of the day or night is also a great convenience to many customers. During the busy season farmers work from early in the morning until late at night. In case of a breakdown they need parts or service right away. They can get either in Mount Holly.

Mr. Jones believes that service of the right kind is the only foundation for successful sales effort. And the 24-hour policy he considers an important factor in making sales. With open territory purchasers can buy where they please, but they are likely

FORD SECTION



Pits With a Convenient Stairway Are a Feature of the Jones Service Station.

to buy where they can get or have gotten good service.

Besides the equipment in the service station Mr. Jones has a crane on a truck for outside jobs and a Model T chassis with a panel body. This smaller car is an effective advertisement. It is painted maroon with gold letters and striping. It is used to call on farmers, give them service if it can be done on the spot, and to carry spare parts, and it also is used for calling for and delivering batteries.

If the farmer wishes a man sent out to do service work right on the farm one is sent to him. If the job is too big to do to advantage on the farm the tractor is loaded on a truck and taken into the shop.

Attractive, Well-Planned Building

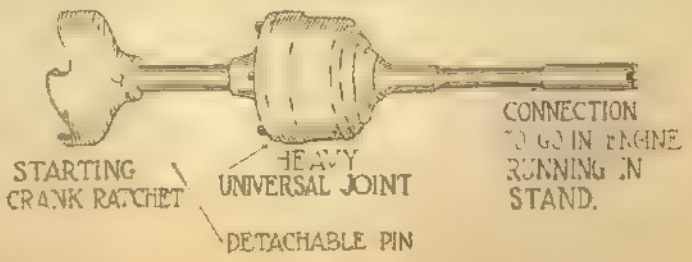
The present building measures 130 ft. front by the common depth of 106 ft. It presents a truly imposing appearance, with brick front with large plate glass windows and with steel factory sash in the side and rear. The floor is concrete and the roof, supported on concrete pillars, is of reinforced concrete. The roof looks unusually heavy, viewed from the floor, and it is. The roof is designed to serve as floor for a second story when it is necessary to add one. By making the roof now heavy enough for the floor when needed, quite a bit of money will be saved when the second floor is added.

The new building was started on October 28th last year, and work was carried on right through the winter and the actual construction work completed in 72 working days. One section of the roof was poured with the temperature at 6 deg. above zero. The sand and pebbles were heated before mixing and after pouring the section of roof was covered with salt, hay and canvas and the section below the roof, just poured, was partitioned off with canvas and heat put in the space thus marked off. By such precautions it was possible to keep work going during the cold weather and examination has shown no evidence of freezing in the concrete.

There is a show room, 40 ft. x 40 ft.; a stock room, 65 ft. x 40 ft.; the shop, 65 ft. x 60 ft.; a battery service room, 20 ft. x 28 ft.; main storage space, 100 ft. x 100 ft., and offices, a rest room, wash room for employes and other small rooms.

Shop Thoroughly Equipped

The shop is clean, well lighted and ventilated. And it is large enough to handle the business being done without crowding. A Louden overhead track and chain hoist is provided to move units about the shop. Track serves almost entire floor area of shop.



Device for Cranking Stiff Tractors From the Running-in Stand.

FORD SECTION

Although many Ford service stations do not have pits there are two in the Jones place. They are connected by a passage way close to the wall and there are steps in the end of the passage for the mechanics to use going up and down. Two pits laid out in this way take up some little room, but the convenience of working in them and being able to get in and out of them so easily makes them valuable in a shop not too crowded for space.

The equipment in the shop consists of a lathe, drill press, cylinder reboring tool, power grinder, engine burning-in and running-in stand, two engine stands, rear axle stand, crankshaft testing and straightening press, connecting rod jig, magneto and coil tester, 20-ton press, and a quite ample supply of smaller and hand tools. The 20-ton press is bolted to the concrete floor and there is a square hole in the floor directly beneath the press screw, so that long shafts can be put in the press, shafts longer than the height of the press.

Easy Way to Start Stiff Tractors

Starting new, stiff tractors is some job. Mechanics hate this job, probably, more than any other one about a Ford service station. Home-made extensions for the cranks, long bars on the cranks and many other schemes have been tried. But no such device is altogether satisfactory, and limbering up a new tractor is still, in most places, a job to be dreaded.

In the Jones shop a special attachment has been made to start tractors and limber them up. The attachment goes on the engine running-in stand. It consists of a universal joint, an extension shaft and a detachable starting crank ratchet. (See illustration on page 247.)

When a new tractor is to be limbered up it is hauled into the shop and placed in front of the engine running-in stand. The spark plugs are removed and the crank is taken out. Then the attachment is hooked on the tractor and the stand, some light oil such as 3-in-1 is poured on top of each of the pistons and the electric motor of the stand is started. The tractor engine is turned over in this way for about three hours, at the end of which time it is started by cranking it in the engine stand. After running in it can be started by hand.

Mr. Jones says that this method of limbering up tractors and starting them not only saves a lot of hard work but it gives much better results than the old way of starting them somehow and running them in. When stiff tractors are run in under their own power, Mr. Jones states, the excessive heat has a bad effect on all of the working parts, particularly on the piston rings.

The same method of limbering up and running in is used on cars which are in the shop to have bearings tightened without taking the engine out of the car. It saves the time taken to tow the car on the road to start it and the running in cold for a time gives a better job than starting up and running in under its own power. As long as the engine running-in stand and its electric motor are available there seems to be a decided advantage in using them for these other jobs.

Battery Department

The battery department is in a separate room, 20 ft. x 28 ft. It is almost in the rear of the building and is marked by brick partitions with sliding doors. Light and ventilation are provided by a very large sloping skylight. The inclined roof and skylight give the room an exceptionally high ceiling, which helps to diffuse the fumes from the batteries. The floor of the battery room slopes from all directions to a center drain in the floor. There is a spigot and garden hose provided to wash down the floor at intervals. The clean appearance of the battery room, the bright light from the overhead windows, and the fresh air, so different from the usual stuffy, acid atmosphere of battery rooms, are features of this unusual battery room. There can be no doubt that operators do more and better work in such a room than in so many others frequently seen. The equipment in the battery room consists of a current rectifier, plate press, one work bench, two charging racks, and a large stock and storage rack. Just outside the battery room there is a Vim magnet recharger, mounted on the wall.

The large storage space in the addition, 100 ft. x 100 ft., is used for stock of tractors, implements, and new cars. It is also used for quick repair jobs. This section has a separate entrance and exit and cars coming in for the little jobs are run to one side of the passageway and the repairs made without taking the car into the shop.

Breaking Tractor Sales Records

When Fordson tractors were sold by Henry Ford & Son on separate contracts Messrs. Gash, Stull & Co. were appointed Philadelphia distributors. The first tractor agent they appointed was W. A. Jones, of Mount Holly, and throughout the time that they held the distributor's contract Mr. Jones was their leading dealer in point of sales.

"There was no such thing as a tractor prospect then," said Mr. Jones. "We did

FORD SECTION

not try to sell tractors to the farmers. We went to them with a proposition to help them make money. The word tractor does not mean anything; call this a flying machine, or a wheelbarrow, or anything you want. We are selling you a way to make more money." That sort of argument and demonstration used in starting the tractor business had the above stated result.

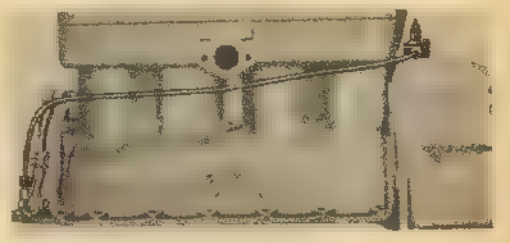
When the last reduction was made in the price of Fordson tractors telegrams were sent to all dealers giving them the new figure. Many dealers with a stock of tractors bewailed their sad fate and figured their loss on the tractors on hand.

We quote Mr. Jones that: "Before I put the telegram down on the desk I ordered three car loads of tractors by telegram. I realized the loss on the tractors I had but also how much the reduction would help sales." The three carloads came in, also plows, disk harrows and other implements to go with them. **And the tractors were sold.**

A stock of tractor parts of about $2500 is carried in the stock room. A copy of the order for these parts was used very effectively in convincing farmers that there was some service to back up their tractors. It was something definite to look at and count on. Sales resistance was easily overcome.

At the time a farmer orders a tractor he is interested, if possible, in a plow and harrow and any other tractor implements which he may need to make the best use of the tractor. He is also told of the importance of using the right kind and quality of oil. In most cases a drum of oil and a 5-gal. can of transmission oil are sold with the tractor. While I was in the building a tractor was loaded on a truck for delivery. In a few minutes another truck was loaded with a plow and a disk harrow, a drum of oil and a can of transmission oil. The entire outfit went to one farmer who had come in and ordered it that day.

The foresight of Mr. Jones in ordering tractors and implements in advance resulted in several sales which otherwise might have been lost. He had tractors and implements right in stock when the farmers decided to buy; he promised and gave immediate delivery when such haste was necessary. Other nearby dealers were caught "out" of various implements and tried to borrow them from Mr. Jones, but even he had few or none to spare. According to all indications at the time he was "taking a chance" in ordering the three carloads of tractors and the implements to go with them. But he was right, as later events amply demonstrated.

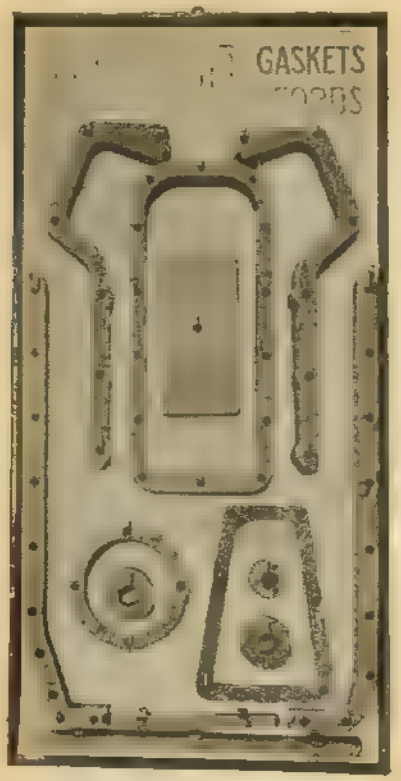


Yale Oiling System and Low Oil Indicator

The Yale Corporation, Los Angeles, California

is marketing these three devices for Ford passenger cars and trucks, viz. The Yale Force Feed Oiler the Yale Transmission Band Oiler, and the Yale Low Oil Indicator The Force Feed Oiler consists of an accumulator mounted between the magneto post and the transmission case, the lower portion of which is in the form of a spoon or lip, directly in the path of the oil thrown up by the magneto. A certain pressure is generated by the force with which the oil is thrown against this lip, from where it is forced to the front of the engine through a copper tube. At this end a hollow cap screw replaces the short cap screw and through it the oil flows into the timing gear casing, thence into the crank case, where it is available for the splash of the connecting rods. To install it requires no skill, as no drilling is necessary nor are any special tools required. The Transmission or Band Oiler is a metal pan which is inserted under the cover of the transmission case and is held in place by four of the screws now used The bottom of the pan has a lip projecting into the path of oil thrown up by the fly wheel and magneto but not far enough to interfere with the accumulator of the other unit and, because its bottom is perforated, oil is poured in a constant stream on all the bands and clutch throwout bearing. This unit is claimed to preserve the life of the bands, remove the cause of chatter and 'grabbing' and prevent the necessity of frequent adjustment The Low Oil Indicator consists of a simple float chamber which replaces the lower petcock The petcock is screwed into the bottom of the float chamber where it is used as a drain. At the top end of the rod, fastened to the float, is a metal cone which, as it is lowered with the float to the predetermined safe limit or danger level, makes a contact with two metal contacts or points. Mounted on the dashboard is a handsome nickel plated instrument, harmonizing with the usual dashboard equipment, in which is a standard light bulb. From the instrument run two wires, one of which connects to the insulated joint on the float chamber the other wire runs to the ammeter or magneto post. As the connection is established by the float rod—by reason of a dangerously low oil level—the lamp in the instrument lights It will continue to burn until the oil supply is replenished.

FORD SECTION



Wisoid Gaskets for Fords

Consolidated Packing & Supply Co.
21 Barclay St., New York City.

The Wisoid Gasket is a tough vegetable fibre which possesses unusual longevity because of its high tensile and shearing strength, and the fact that it is chemically treated to resist deterioration under all liquid conditions. Each set is packed in a box which is an ideal merchandising package, for besides keeping the gaskets dustproof and clean, it insures their proper use, i. e., the avoidance of the use of two or more gaskets of different material on one housing or joint. The above effective sheet steel wall display holder is also supplied as a sales stimulant. Price per box, one complete set $1.25. Packed 50 boxes in a corrugated case. The holder with a total of 325 Wisoid gaskets, 25 each size, including an additional 25 of Nos 2510-B and 3377-B, $32.

The Prehn Cantilever Brace and Center Chassis Cross Member

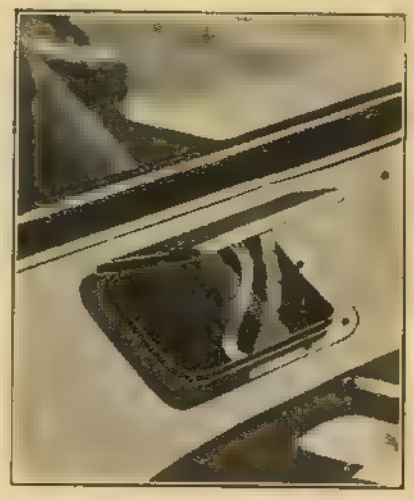
Newark Auto Parts Mfg. Co.
722 Hunterdon St., Newark N. J.

Used as a center cross member this device stiffens and strengthens the chassis, and stops vibration, with its consequential loosening of rivets, crankcase arms, etc. It also keeps the running boards and fenders from sagging, squeaking or breaking. The extreme end of the brace has an upward action, giving a cantilever movement. It is made of 1¼ x 2-in. double channel steel and heavy steel hangers. May be installed quickly, there being no need to drill holes. Also made for sedan and one ton truck. Price $5.

Maxo Re-Gasifier

Maxo Products Co.
82 Wall St.
New York City

Simplicity of design and operation is the keynote of the Maxo Re-Gasifier. As the gas is drawn into the intake manifold from the carburetor it is forced to pass through the device. As disclosed in the accompanying illustration, the teeth are slightly curved from the base to the point and are conformed inward. The incoming gas has a tendency to follow the conformation of the teeth. Thus, any gas that is laden with non-volatile matter or that has a tendency to recondense on the side walls of the intake manifold, is again broken up into infinitesimal particles which enter the combustion chamber of the cylinder in this more volatile state. This device is applied without alteration to the engine or carburetor, by simply lowering the carburetor, inserting the device in the end of the intake manifold, putting the gasket in place and re-attaching the carburetor. A new gasket is supplied with each Maxo Re-Gasifier to insure an airtight connection.



The M & P Vent a Ford

Messenger & Parks Mfg. Co., Aurora, Ill.

Easy installation and operation and freedom from rattle are the features of this device. The base and flange is stamped from one piece and is provided with a gasket where it attaches to the car to prevent leakage over the spark coils. The cover is also stamped with rounded corners, and is hinged to the base. The ratchet of nickel plated strip steel is attached to the cover with two bolts. This ratchet contacts with a brass spring riveted to the base thereby keeping it always taut and preventing rattle. All bolts are Parkerized to prevent rust. A pattern for cutting the hole and full instructions for installing accompanies each Vent a Ford. The finish is baked on enamel. It can be installed on all models and types of Ford cars.

FORD SECTION

Lowell Make and Break Timer with Self-Cleaning Contacts

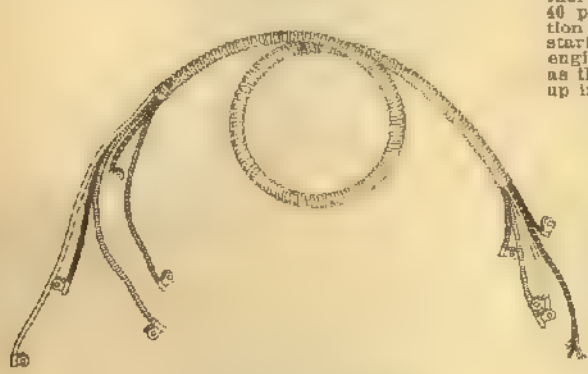
Lowell Equipment Mfg. Co., Lowell, Mass.

This Make and Break Timer is a recent addition to the line of Lowell Tire Repair Equipment. It is so designed that the contact points are automatically rubbed clean each time before the contact is broken, making possible its operation either dry or in oil and dirt, yet with high motor efficiency even under such adverse conditions, according to the manufacturer. A die cast timing case of conventional form is utilized, with the exception that the contact plates of special shape are independently insulated, the space between being left open. A pin fitted in a disk driven by the timing shaft carries a rocking lever. A contact pin works in the leading arm of the lever and an insulated cam wiper is fitted in the following arm of the lever. Contact is broken when the contact pin is snapped away from the contact plate at the moment the cam wiper is forced off its contact plate by a spring. The illustration shows the cam wiper about to slip off the contact plate, the direction of movement being indicated by the white arrow. The self-cleaning of the contact points takes place immediately preceding the breaking of the contact and is accomplished when the contact pin, then rubbing against the contact plate, is carried around by the lever. List price, $3.95.

The Butler Vaporizer for Fords

Butler Vaporizer Corporation
7 East 42nd St., New York City

To convert low test gasoline into a highly volatile dry gas is the function of the Butler Vaporizer recently placed on the market. This superheating device, which is installed between the carburetor and the intake manifold, consists of seven copper tubes, through which the fuel mixture passes, enclosed in a cast iron heating jacket. The hot gases from the exhaust pipe are bypassed around these tubes, and led out by another pipe terminating beneath the motor pan. The seven small tubes bring all the liquid fuel into contact with heated surfaces, flashing all the mixture into a dry, highly volatile gas. It is also stated to eliminate carbon deposits and crankcase oil dilution, and to reduce fuel consumption 20 to 40 per cent. In addition it facilitates starting with a cold engine in cold weather, as the Vaporizer heats up in 30 sec.



Armored Ford Harness

Forney-Smith & Co
Hamilton St. & N. J. R. R. Ave., Newark, N. J.

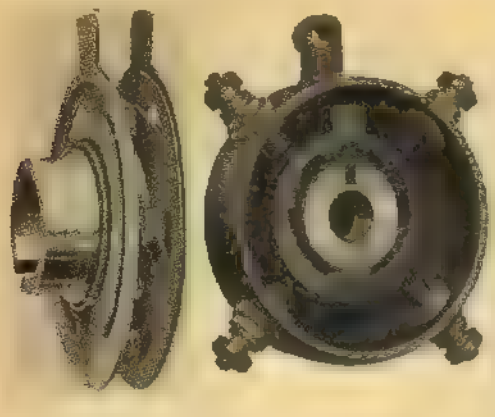
Armored Ford wiring harnesses are made in both five and six wire sets exclusively for Fords. They are 1-64th rubber covered, have colored cover (same colors as the regular Ford set), and are encased in a light, flexible tubing which protects them from the dust and dirt, oil, etc., and prevents short-circuits.

Acme Oil Gage

Acme Belting Co
107 W. Canton St.
Boston, Mass.

Outlined in the accompanying view are the salient construction details of the Acme Oil Gage. It is made of brass and copper, and it extends up along the side of the engine where it may be conveniently read by simply opening the hood. Price, $3.85.

FORD SECTION



The Tisch Rotary Double Wipe-Contact Timer for Fords and Fordsons

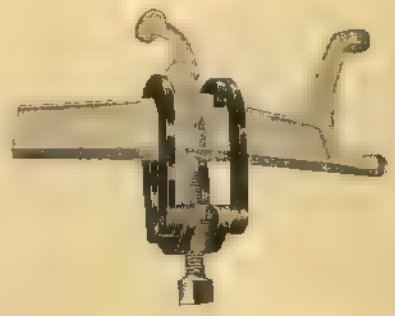
Tisch Auto Supply Co.
215 Division Ave., S.
Grand Rapids, Mich.

In principle, the Tisch timer is simply a double blade wiping switch caused to revolve and contact, one at a time, with four contact posts. This double blade switch passes on opposite sides of each contact post, making a doubly certain positive contact and an equally positive break and wiping the posts clean, the latter assuring a path for the electrical current. While the twin contacts are between the posts they are traveling through air, where, it is stated, the current cannot be short circuited. The green shell of tough drawn steel is accurately machined, and the contact posts of cold rolled steel are hardened so as to be impervious to wear. The blade spacers and blades of the rotating wiping switch are made of a fine grade of high carbon spring steel, tempered to assure long life, efficient service. These with the Tisch hub, comprise the parts of this easy-to-install timer, which does not require lubrication. Price, $2.

Grant Extension Pedal Pads

Grant Auto Appliance Co
315 South Clinton St., Chicago, Ill.

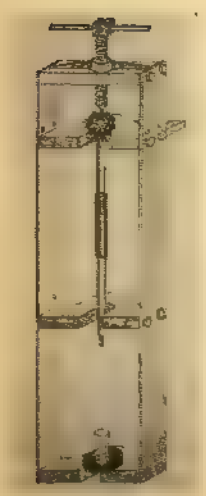
Grant Extension Pedal Pads widen the Ford pedal and provide a rubber pad in one unit. Heavy gage steel with a black baked enamel finish is combined with white gum rubber in its manufacture. When clamped on over the small Ford pedal they give the driver a wide, comfortable and more secure foothold. Price $1 per set, which includes two extension pedals and one small pad for reverse.



Two New Apco Tools for Ford Service Work; a Rear Wheel Puller and Front Perch Pusher

Apco Mfg. Co., Providence, R. I.

is offering these two tools to enable the repairman to execute with facility and alacrity the work of pulling Ford wheels and driving out the front perch. Instead of screwing on the hub the Apco wheel puller hooks over the spokes, an arrangement which is intended to save time not only in pulling the wheel but also in attaching the tool to do it. It is well made of high grade materials to withstand hard service. Dealers' price, $3.75. The Front Perch Pusher is also a time and patience saving device, as the accompanying illustration bespeaks. High grade materials and workmanship are also used in its manufacture. Dealers' price, $3 75.



Duble-Duty Axle Gear and Drive Shaft Sleeve Press

Benner Mfg. Co.
Webb City, Mo

A tool designed to minimize the effort and time required in removing the axle shaft gears on the Ford, Chevrolet 490, Maxwell or any other light or heavy car that requires the axle gears to be pressed off and on is shown herewith. It can also be used for cam shaft, transmission or differential gears of all kinds. Ford drive shaft sleeves, universal joints and shaft couplings of all types. It is capable of exerting 20 to 25 tons pressure, and will handle shafts up to 60 in. long. May be bolted to a bench or any support. List price, $18. Shipping weight about 80 lb.

FORD SECTION

Venath Grease Retainer for Ford Rear Axles

Venath Manufacturing Co
500 Woodbridge St., East, Detroit, Mich.

The Venath Grease Retainer for Ford rear axles is installed at the end of the axle housing, the steel cap replacing the present Ford bearing cap, thereby requiring no alterations or the removal of wheel bearings. By stopping the oil or grease at the end of the axle housing instead of back of the bearing the oil from the differential housing can lubricate the wheel bearing. A particular feature of this retainer is that the packing is placed between the flat recessed face of the steel cap (which remains stationary with the axle housing) and the flat face of the cork washer that is secured to the shaft and rotates with it. The cork washer is made to rotate with the shaft by being inserted into a spring cup which has a lug or key projecting out into the keyway of the wheel hub. The spring cup not only holds the cork packing washer so that it rotates with the shaft but also presses its packing face against the recessed face of the steel cap, due to the three small springs becoming compressed when the wheel is drawn on to place. These springs, being compressed 3-16 in., automatically take care of any end play in the shaft, also take up wear that may occur at the packing faces. The manufacturer states that by this method the packing washer floats with the shaft and thereby enables it to retain the grease in any Ford axle, regardless of how badly the axle shaft is running out of true due to the shaft or bearings being worn. No special tools or experience are required to install it.

Hardin Self-Adjusting Brake for Ford and Chevrolet

Hardin Brake Co.
Portland, Ore.

A positive vise-like gripping action on the entire circumference of the drum and a self-adjusting feature, which entirely eliminates the use of springs are the points upon which the manufacturer lays particular stress in outlining the construction details of this brake. The drop forgings used in its manufacture are of a high grade, while the lining is the Thermoid wire-inserted brand. A time-saving factor is that it can be relined without removing the wheel or dismantling any part of the car. It is also made for the Ford one-ton truck. Price, $16.50.

The Kelm Twin Tire Carrier for Ford Ton Truck

Kelm & Burbach Milwaukee, Wis.

This carrier provides in one unit, a safe carrying receptacle for two extra tires, and a removable tool box, all safely locked against theft by means of a heavy steel bar. The framework of the carrier is made from ⅞ x ⅛ in. fabricated rolled steel, and component parts riveted together with ¼ in. rivets and finished in black enamel to match the standard Ford finish, or if desired it can be furnished in special finishes at a small additional charge. Ten features emphasized by the manufacturer: Fastens to the left running board and is braced against the truck frame; carries one 32 x 4½ and one 30 x 3½ tire, fits any Ford truck chassis, either cab or roadster body; has an all-metal tool box with double cover; one bar locks both tires and tool box, tool box removable for taking out tires; tool box is in handy place, can be opened without removing tires, and can be lifted out and carried where tools are wanted; thumb screw adjustment prevents tires from rubbing and rattling; guaranteed for five years against defective parts. Price complete with padlock, $15 00 f o b. Milwaukee

Common Sense Radius Rod

The Silver Mfg. Co., Salem, Ohio

This new rod adds strength, safety and driving comfort to the Ford. It is fastened securely to the frame on each side of the car and anchored firmly to the front axle above and below. The strong construction takes all strain off the crankcase. Through the adjustment feature perfect alignment of front wheels is said to be always assured. The proper rigidity to withstand severe thrusts, and at the same time give flexibility and resilience, is attained by strong springs held in place by adjustable nuts. Retail price, $10 00 per set, f.o b. Salem.

FORD SECTION

Aluminum Tread Plate and Extension Throttle Finger Control Lever

National Aluminum Co.
Racine, Wis.

is offering these two products for the Ford. The tread plate, No. R 2, combines good appearance with serviceability. It has a foot scraper and three slotted openings which extend over the edge of the running board the full length of the plate. In addition the ribbed cross grading removes dirt and mud from the shoes. Size 8 x 9¼ in. List price, each, $2. The No. P 3 flat tread plate (not illustrated) is adapted to either the running board or floor board. When used on the floor it prevents wear, and it may also be utilized as a patch where the floor covering is already worn. Size, 7¼ x 10¾ in. List price, each, $1.50. The Extension Throttle Finger Control Lever is slipped over the regular gas or spark lever and then securely fastened by giving the lips a squeeze with a pair of pliers. It provides better and more convenient control of these levers, as the driver does not have to remove his hand from the wheel to operate it. Made of aluminum, highly polished. List price, $0.25 each.

E-Z Door Latch Operator

E-Z Door Latch Operator Co., Kipton, Ohio

The E-Z Door Latch Operator increases the leverage of the Ford door latch, making it easier to operate. It is an attractive, solid brass, highly nickeled handle that fits outside the door, permitting the door to be opened conveniently from the outside. Its particular features are its ease of installation and freedom from rattle. Made in two styles: Style A for 1916-20 models inclusive; style B for 1921-22 models. Price, each, $1.

Steering Column Support for Ford Cars

Holtum Mfg. Co.
Freeport, Ill.

By eliminating vibration from the steering column this support gives the driver better control of the car. Each steering column support comes complete with bolts ready to attach, and can be put on a car in 15 minutes.

"Ford-Type" Battery Charging Panel

Ward Leonard Electric Co.
Mount Vernon, N. Y.

This panel will control from one to fifteen batteries (three-cell lead type) from a 120-volt d. c. line at any charging rate from two to ten amperes. It is provided with a line switch, ammeter and overload and reverse current circuit breaker. The rheostat on the back of the panel has a hand wheel adjustment and a control lever which may be positioned so as to allow more than ten amperes to pass. To prevent possible injury to the batteries and rheostat from this increased amperage, it is equipped with an overload circuit breaker with a single setting of eleven amperes, which is so designed as a protective device that it is impossible for it to be held closed while the overload exists. This overload arm has no handle. A reverse current cutout with operating handle is provided to open the battery circuit, if so desired, when line voltage reduces below the battery voltage.

Easy Profits

Every Ford Truck Owner a Prospect

Install RYD-E-Z Springs on your customers' one-ton Ford trucks—for easy profits.

Identical in strength and cushioning qualities with the platform springs used on costly motor cars, RYD-E-Z Springs take the bounce and rattle out of the Ford truck.

Their three, long, durable springs impart a flexibility that minimizes vibration and add years to the life of the truck.

Guaranteed to increase tire mileage; reduce all repairs; carry all farm products and fragile merchandise *without damage;* give driver greater comfort; improve appearance of truck; save your customer money.

Sold on a money-back basis. Unless your customer is satisfied with the performance of these money-saving springs, he gets his money back.

GARAGEMEN, REPAIRMEN, DEALERS: Write for complete details of this big profit-earning opportunity.

Price, $67.50
F.o.b. Cleves, Ohio

The RYD-E-Z Spring Co.
Cleves, Hamilton Co. Ohio

Close-Up of Spring Support

Close-Up of Front Hanger

Give 126 Inches of Spring Suspension

RYD-E-Z SPRINGS

EASY TO INSTALL—BOLTING JOB ONLY

THIS SYMBOL IN ANY ADVERTISEMENT MEANS: SEE "CHILTON AUTOMOBILE DIRECTORY" FOR COMPLETE BUYING INFORMATION

A NEW *Stewart* BUMPER
FOR FORDS

Double Rails—
Improved All-Steel
Installation

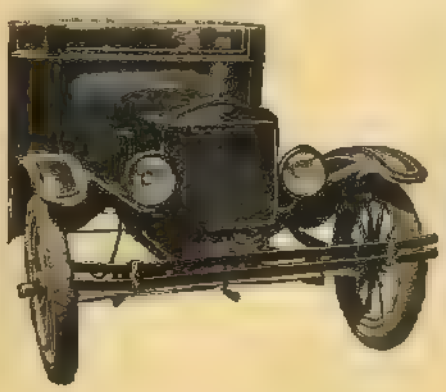
Model 198 $12.00

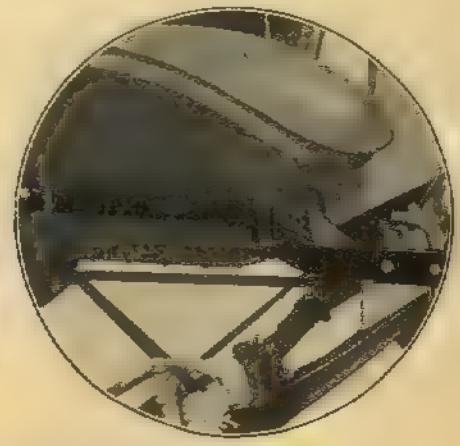
THE double rails of the model 198, extending the full width of the car, guarantee a driver 100% protection. A bumper on another car cannot slip above or beneath to damage fenders, headlights, etc. the double rails prevent that.

The all-steel installation is a feature of this model an improved attachment that guarantees a firm, rattle-proof anchorage to the car frame. Easily installed.

The slot in the bracket allows for the installation of Gabriel Snubbers.

The price is attractive. With black enameled guard rails, $12.00. With nickel-plated guard rails, $17.00.





Stewart
PRODUCTS

STEWART-WARNER SPEEDOMETER COR'N, CHICAGO, U. S. A.

The Car Buyer Wants Hasslers

IF the Ford dealer does not sell Hasslers, he finds that many of his customers go somewhere else to get them.

Someone else makes their acquaintance, begins to sell them tires, accessories, and possibly gets their service work.

Car owners like Hasslers. Have you ever heard of a single dissatisfied Hassler user? Hassler users are with Hasslers from start to finish.

The dealer who sells Hasslers makes an excellent profit on them—often enough to pay the rent or the overhead. He pleases his customers, and actually increases the market and appeal for the Ford car in his locality. He never has any comebacks or trouble from his Hassler sales, and he finds the Hassler factory always standing behind him.

No single-acting device whether it absorbs shocks or checks rebound—can ever take the place of Hasslers with their famous double action.

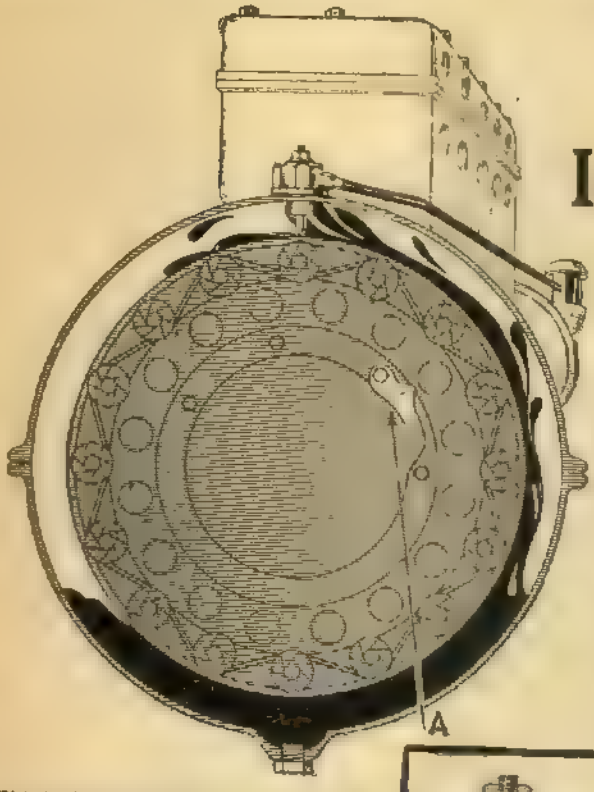
Don't fail to get the Hassler profits that are legitimately yours!

R. H. Hassler, Inc., Indianapolis, U. S. A.
R. H. Hassler, Ltd., Hamilton, Ont.

HASSLER
TRADE MARK REGISTERED
Shock Absorbers
PATENTED

THIS SYMBOL IN ANY ADVERTISEMENT MEANS: SEE "CHILTON AUTOMOBILE DIRECTORY" FOR COMPLETE BUYING INFORMATION

At $2.50 You Can Sell This Wonderful Oiling Improvement to Every Ford Owner!



Because it forces adequate oil to all parts of the motor.

Because it does this regardless of grade and engine speeds.

Because it operates automatically—the faster the engine goes—the faster the oil flows.

Because no alterations are necessary to install it and it can be put on by anyone in ten minutes.

Because the oil flow can be watched more closely and the pipe can be removed and cleaned in a few minutes.

Because it means a better-running Ford and absolutely removes the danger of burnt-out bearings.

This is the way it works. Instead of depending on the fall back of the oil into the regular Ford funnel (see "A" above), which delivers too little at high speeds and on the hills—the Toquet takes the oil direct from the revolving flywheel with the full centrifugal force behind it and the flow varies directly with the flywheel speed and is unaffected by the grade. In operation the oil is shunted through our special magneto plug (replacing old one) and flows through the brass tube into the Breather Pipe for which an extension is provided.

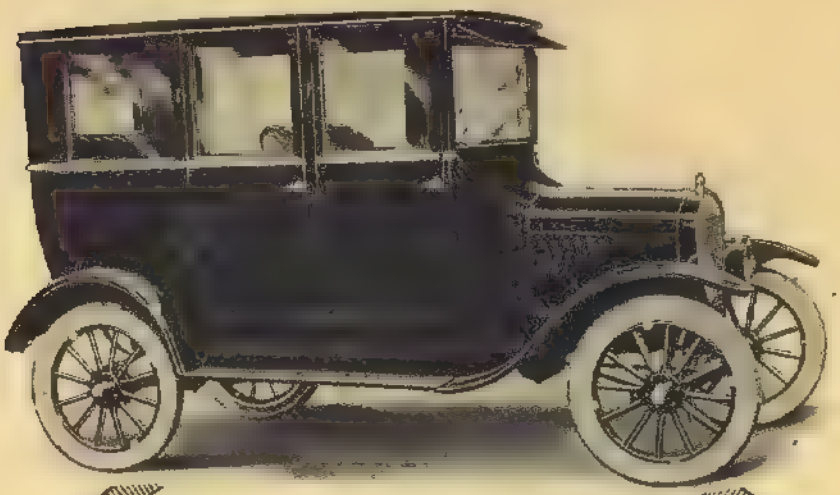
It then flows down over the timing mechanism and back through the crankcase.

You can sell it because every Ford owner will see its value. The price $2.50 allows a mighty liberal discount, too. Write for details today.

THE TOQUET SAFETY-FIRST OILING SYSTEM FOR FORDS

RELIANCE AUTOMOTIVE DEVICES, Inc.
Dept. G-5 243 W. 55th St. New York

QUICK TURNOVER
RELIANCE-DEVICES



Easy Sales for You

Here's an opportunity for you to make easy sales of the Colonial 4-Door Sedan Body for the Ford Chassis—*even if you have never sold bodies before.*

And here's why: With the cool Fall season not far away, many Ford owners would like to change their touring model for an all-season Sedan. A trade-in for a Ford Sedan would cost them $500.

For only $300, plus war tax, installation and transportation, you can offer them the Colonial. A finer Sedan Body than they ever thought could be had for so little money.

Glance at the illustration. Note that the Colonial has *four doors.* The coach work is identical in beauty and workmanship with that of the costliest cars. Upholstery is attractive and long-wearing. Driver's seat is adjustable. There are many other exclusive features—in fact, *twenty.*

Here's a proposition on which you can make unusually good profits—with little sales effort.

Act Now—Write for Full Details

Colonial Body Company

Waltham, Massachusetts

COLONIAL
4-DOOR SEDAN BODY
FOR FORD CHASSIS

THIS SYMBOL IN ANY ADVERTISEMENT MEANS: SEE "CHILTON AUTOMOBILE DIRECTORY" FOR COMPLETE BUYING INFORMATION

A Real Source of Profit

The Advantages of the Connecticut Ignition Outfit for Ford Cars

Smooth running under all conditions.
Quick pick-up.
Better throttling.
No buck even with a thin mixture.
New power on hills.
Sure starting.
Freedom from timer adjustments.
Elimination of coil troubles.

The rapid increase in the number of electrically equipped Fords is making an ever increasing market for CONNECTICUT Ignition.

This is the one thing needed to bring Ford performance up to that of bigger and more expensive cars.

The outfit includes the latest Model 18 Igniter, special mounting plate, all necessary high tension cables with cable bracket, special CONNECTICUT QD Terminals for spark plugs, and the

New CONNECTICUT 225-Y Coil

the last word in ignition. Complete in carton with full mounting instructions. A package specialty, easy to stock; easy to sell.

Price, $24.00

Terms and Full Information on Request

CONNECTICUT TELEPHONE & ELECTRIC COMPANY

CONNECTICUT IGNITION

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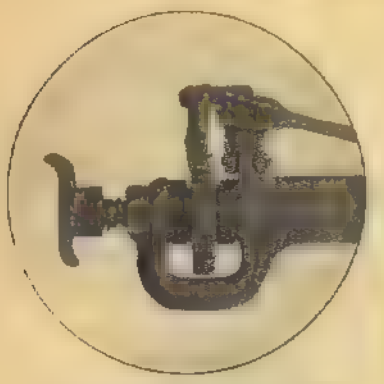


Note Simplicity of Operation

To adjust the Hess, simply spin the nut until the screw makes contact with rim Move operating lever in one direction to contract; in opposite direction to expand

PATENTS PENDING

Millions of Car Drivers

NEED AND WANT THE

"HESS" Ball-Bearing Split-Rim Jack

THE "HESS" Ball-Bearing Screw Jack is the only Rim Jack on the market that will easily and quickly remove and replace a 32" x 4½" Kelsey Split Rim (Ford Truck Rear Wheel). We invite comparison.

Garagemen and Ford Dealers everywhere are saving and earning by using and selling the "HESS" Very easily sold. Repeat orders come in without solicitation.

The "HESS" Ball-Bearing Rim Jack, together with the Split Rim, is the best tire mounting equipment developed in the entire automotive industry. **Retails at only $6.00, with liberal discounts.**

Jobbers, Dealers: You need a stock of "HESS" Rim Jacks to assist us in meeting the phenomenal demand. **Order now.**

MEMBER OF CERTIFIED VALUE BASING

Lancaster Foundry Company
LANCASTER, PA.

HESS

The Ball Bearing Screw

SPLIT RIM JACK

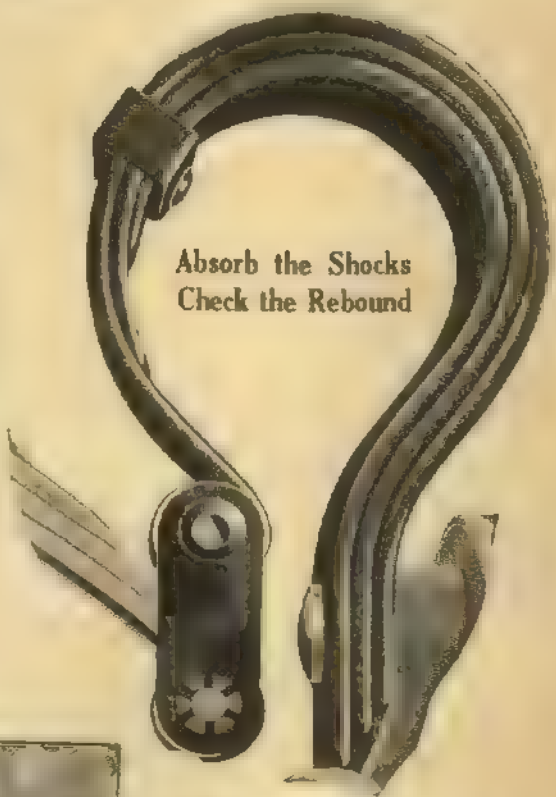
THIS SYMBOL IN ANY ADVERTISEMENT MEANS: SEE "CHILTON AUTOMOBILE DIRECTORY" FOR COMPLETE BUYING INFORMATION

Only $10 Complete Set of 4

A Better Absorber at a Price Ford Owners Want to Pay

West of the Rockies, $12
In Canada and Mexico, $15

FORD owners like the looks of Grey Goose Absorbers. They like the simple, leaf spring construction. It appeals to their common sense. The low price of only $10 for complete set of four appeals to their pocketbooks. Grey Goose Absorbers are made of chrome vanadium leaf spring steel. They never lose their springiness. They absorb the roughest road jolts easily. The overhanging goose-neck shape checks all rebounds instantly. They give the car the riding effect of a much longer wheelbase. They are quickly and easily put on any Ford. They add no dead weight. Every ounce works. They relieve the tension on the springs. They improve the riding comfort of the car immeasurably. They save both car and tires. Every set sold sells another set.



Dealers find exceptional profit in putting just a little special effort behind this popular low-price seller. If you have a market for any absorber, get the liberal Grey Goose proposition at once.

INDIANA PARTS CO.
Dept. 2610 Richmond, Ind.

GREY GOOSE ABSORBERS *for* FORDS

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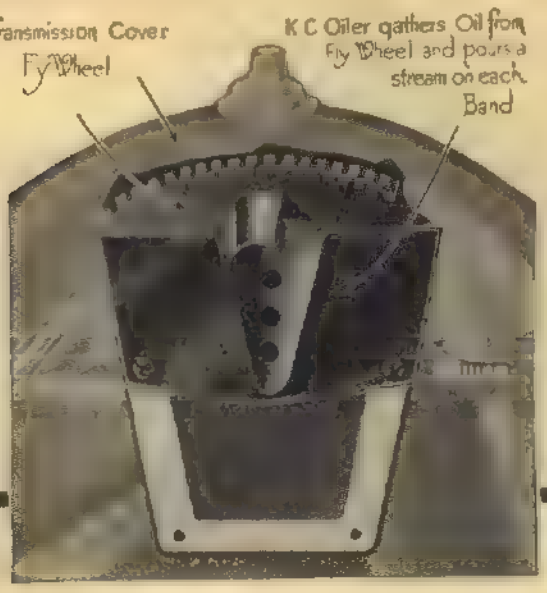


Transmission Cover With One-Piece Steel K-C Oiler in Place.

**No Adjustments
No Rivets
Nothing to Come Loose.**

A Steady Stream of Oil

Keeps Transmission Bands Properly Lubricated

The transmission bands in your customers' Fords often do not wear out. *They burn out*—because they are not properly oiled.

That's why you can do Ford owners no greater favor than to install the K-C Oiler on their cars.

Look at the picture at the top of the page. Note how the K-C Oiler, ceaselessly picking up oil from the flywheel, delivers it in continuous streams to the transmission bands and steel drums.

This constant lubrication prevents the bands from getting hard glazed and slick; keeps them soft, pliable, oil-soaked, makes them wear more than twice as long *and eliminates chatter.*

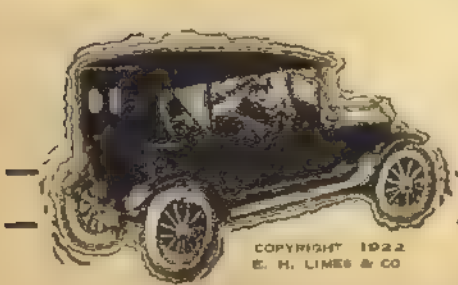
The K-C Oiler sells for only $1.00—$1.50 installed.

Your State distributor can supply you—otherwise write direct to us.

State Distributors: The Oiler that makes hard transmission bands work like new is the Oiler to push. Write for our proposition

E. H. LIMES & COMPANY

405-407 Minnesota Avenue **Kansas City, Kansas**



KANT-CHATTAR

for OILER *Fords*

"Stops the Shiver and Shake When You Use the Brake"

THIS SYMBOL IN ANY ADVERTISEMENT MEANS: SEE "CHILTON AUTOMOBILE DIRECTORY" FOR COMPLETE BUYING INFORMATION

The Smartest Ford Sedan Body You Have Ever Seen

You can see for yourself that this Asco creation has the trig, straight lines and smart custom-made look of the high-priced bodies

Just what your Ford customers have been waiting for!

The beautiful Asco Sedan Body is four inches longer than the regular Ford make. It sits three inches lower on the chassis—which adds wonderfully to the general appearance, and also greatly improves the riding qualities.

The wide doors are strongly constructed, complete with locks; luxuriously comfortable—the high seats are curved to fit the back. All-wool upholstery. Curled-hair cushions. Ten coats of paint and varnish. Heavy, crystal plate-glass windows Tire carrier and gasoline tank in rear. Cowl ventilator and windshield. Ample storage space. Sedan Body, complete, only $450, f. o. b. factory.

DEALERS: Absolutely nothing on the market can compare with this distinctive, all season Ford body at its low price. Write for our unusual proposition

AMESBURY SPECIALTY COMPANY

FACTORY:
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ASCO SEDAN BODY

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HUDCO-FORD

Trade-Mark

Double-Feature Transmission Cover

ONE MODEL FOR ALL FORD CARS AND TRUCKS

SLIPOUT SECTION
CHANGE BANDS
IN 20 MINUTES

OPENING
FOR CLEANING OIL PIPE
REMOVE PLUG

Patented in
United States, Canada
and Foreign Countries

Change Ford Bands in 20 Minutes

WANTED! Distributors—Dealers—Service Stations and Salesmen

HUDCO-FORD COMPANY OF AMERICA

Trade-Mark

OFFICES AND SALESROOMS

S. E. Cor. Market and Twenty-First Streets, Philadelphia, Pa.

Plant at Frankford—Suburb of Philadelphia

Foundries: Illinois, Pennsylvania and Canada

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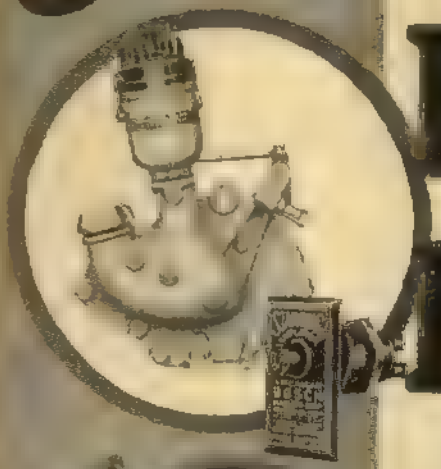
New! New!

BOSCH FOR FORDS



$19

Complete Battery Ignition System *and* Starting Amplifier

Here's big news for Ford owners and the trade:

A complete Bosch Ignition System, and the new Bosch Starting Amplifier—at $19.00.

Both are made especially for Fords by the makers of the world famous Bosch Magneto—both are guaranteed to give the same dependable service as all other Bosch Products.

Think of the sales opportunities—the tremendous demand this announcement will bring.

Ford owners everywhere will insist on Bosch when they find it can be had at the same price as inferior systems.

The Bosch Starting Amplifier assures positive starts every time.

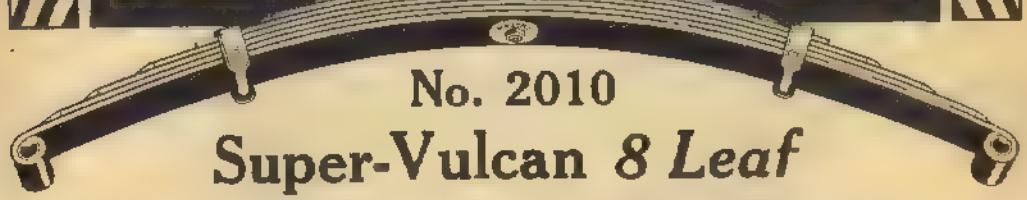
The Bosch-Ford System, including the Starting Amplifier, the Bosch Compensating Timer-Distributor, Cables, etc., for use with one Ford Coil (three in reserve) is sold complete at $19.00.

With the well known, waterproof, single unit Bosch Coil—$8.00 extra.

Wire or Write for Particulars

AMERICAN BOSCH MAGNETO CORP.
Main Office and Works: SPRINGFIELD, MASS.
BRANCHES:
NEW YORK CHICAGO DETROIT SAN FRANCISCO
Over 500 Service Stations in 500 Centers

ONE More Leaf— Much More Comfort



No. 2010
Super-Vulcan *8 Leaf*
Front Spring for Fords

Here is the latest "Ace" of the Vulcan line—a big hit with car owners, and a real money maker for dealers.

The one extra leaf gives a surprising amount of extra riding comfort to the Ford car. We build it of **eight thinner leaves** of special scientifically heat treated steel—Brinnel tested. It is noticeably—

More Supple — More Resilient — Yet Stronger

Guaranteed for the Life of the Car

Each one bears the Vulcan mark of identity. Each carries the guarantee to **last the life of the car.** Yet with all its better riding quality and guaranteed longer life, dealers east of the rockies can sell No. 2010 for Fords **profitably** for only $3 00.

$3

East of the Rockies

Interchangeable With the Original Ford Spring

No altering or substituting clips or shackles. With this one item in stock you can quickly replace the most frequently broken spring of the most used car.

Ask Your Jobber

Jenkins Vulcan Spring Co.
Richmond, Ind.

Boston Dallas St. Louis San Francisco Seattle Portland

VULCAN QUALITY
The Replacement Spring

NOTE: Ask your jobber about our Heavy-Duty Special for Reo Speed Wagon. 12 hour service on all springs. None genuine without the Vulcan name plate.

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New Coupes in Oakland and Chevrolet Lines

Left: Chevrolet "Superior" Coupe

This new four-seater of the Chevrolet line has fixed seats for three and a folding seat for the fourth passenger. There is a luggage compartment in the rear. The price is $850.

Right: New Oakland Coupe Which Sells at $1285. It is Built on the Standard Oakland Chassis and Seats Two

Oakland Announces Low Priced Closed Car

A new model mounted on the Oakland six-cylinder chassis and known as the two-passenger coupe has been added to the line of the Oakland Motor Car Co., Pontiac, Mich. This car is of standard closed car construction and sells for $1285 f.o.b. the factory. The body is an exclusive Oakland design. The upholstery is genuine leather and the car has broad plate glass windows to afford a clear view.

The doors are wide and allow easy entrance and exit. Windows are lever-operated, facilitating their regulation. The driver and passenger sit side by side and there is a large compartment under the rear deck for heavy luggage, also a covered compartment back of the driver's seat for smaller parcels. The lower portion of the windshield is built stationary to make it absolutely weather proof. The upper half is adjustable.

The instrument board is walnut with silver trim instruments, the steering wheel is corrugated walnut, and the steering column is nickel plated. Standard equipment includes snubbers, windshield visor, windshield wiper, rear view mirror and non-skid cord tires.

Chevrolet Adds Four-Passenger Coupe

The new "Superior" Chevrolet four-passenger coupe has a Fisher-built body of the same high quality and with the same refinements as the "Superior" sedan. It is mounted on the new Chevrolet improved chassis which was described in the November, 1921, issue, page 58. The sedan on this 4-90 chassis was described in the January, 1922, issue, page 36.

This new model has attractive lines and is well finished with high grade upholstery and appointments which add to the attractiveness and comfort. The plate glass windows can be adjusted to any height and the windshield is a two-piece adjustable type. There is an auxiliary seat for the fourth passenger, and luggage compartment in rear.

This coupe sells at $850. The features of the equipment are the straight side cord tires mounted on split rims, the metal visor with rim gutter, and the polished nickel hardware. Refinements include top material in one piece with drip moulding, deep upholstery, window regulators and carpeted floors. Specifications of this car can be found in the Passenger Car Specification Tables published in every issue.

The Dodge Business Coupe

DODGE BROTHERS, of Detroit, has announced a new body type in the form of a closed car for business men. This coupe is stated to be the first of steel closed cars. This construction has eliminated the problems of limited production due to the tedious and costly individual workmanship necessary on many wood bodies. Even the frame work is of steel, which the maker states results in a lighter, quieter and more durable car. The possibility of squeaks and rattles is also reduced.

This coupe is upholstered in genuine leather and has a wide, comfortable straight seat. Included in the equipment are cord tires, heater, dome light in the center of the top, windshield cleaner and adjustments for raising and lowering the windows. The doors are equipped with easy closing Yale locks. The body is roomy and there are compartments for luggage.

All-Steel Body on New Dodge Coupe

This illustration shows the new Dodge Coupe which features an all-steel body, eliminating the large amount of individual workmanship necessary on wood bodies, thereby allowing quantity production.

Improvements in Stanley Steamers

A SERIES of improvements has been made in Stanley steam cars produced by the Stanley Motor Carriage Co., of Newton, Mass. These improvements are not so radical as to require changes in design but they are believed to be justified because of their fundamental value. The improved Stanley car will be known as model 740.

The principal improvements of model 740 comprise a lower mounting of the entire car a larger boiler, a larger condenser, better brakes, improved lubrication, a larger fuel pressure tank and an improved and stronger axle. There are other minor improvements.

The improvements in the body comprise more graceful lines, a lower top, which is lined, and has a permanent firm member from the windshield to the rear bow, and an improved instrument board with more compact location of instruments. Barrel head lamps are now used and are more rigidly

New Stanley Brougham

The outstanding features of the new 740 models are the lower-built chassis and body, the larger boiler and condenser, improved brakes and rear axle, improved lubrication, and the larger fuel tank.

The FOX Car

heralds the new era in motordom

Who will be the first to profit by it ?

After years of experimental and development work, costing nearly half a million dollars, the FOX Air-Cooled Car is now in production. This means a tremendous change in the automobile business.

It means that, for the first time in the history of the automobile, an AIR-cooled car exists on absolute equality with the best water-cooled cars, in ability, appearance and other essentials.

That assertion is broad and unequivocal; it is meant to be sweeping. For the FOX Car will prove to anybody that it equals—if not excels—the finest water-cooled automobile known. Equals it in power, in flexibility, in control, and in all that goes to make Performance.

Equals it, fully, in grace of lines, beauty, finish and all that makes Appearance.

First the dealer, and presently the whole of motordom, will have this proved about the FOX Car. The demonstration is ready for the trade now.

When you have seen the FOX, then proved the FOX, it will be well to consider carefully what the FOX must mean to motordom in general, and to you as a dealer in automobiles. *It means a revolution in buying preferences.*

What sane-minded man, with even rudimentary mechanical sense, would buy a water-cooled car when he can get an AIR-cooled car that is powerful, beautiful, and free from all water-system troubles.

During the first year, in view of the advance orders taken for the FOX before it appears on the open market, only a few dealers can be included in the FOX connection. But those few will surely profit!

The widespread and eager interest in the FOX, attested by a flood of inquiries from motorists all over the United States, assures immediate sale of every car it will be possible to put on the showroom floors.

That, too, we can demonstrate to anyone entitled to it.

So the thing for you to consider is this:

If you are in one of the sections still open for the right kind of dealers, and if you have the vision, the experience and the ability the FOX Car deserves in its selling connection, wisdom suggests your discussing arrangements with us immediately.

FOX MOTOR CAR COMPANY
OF PHILADELPHIA

ANSLEY H. FOX, President

I want to personally state for the benefit of those who know of the world-wide reputation I earned as a maker of guns of absolute precision and unvarying quality, that the FOX Car is built to the same standards of business honor and excellent quality as was the famous FOX Gun.

Ansley H. Fox

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THE AIR-COOLED FOX

SPECIFICATIONS

Unit power plant, 3 point suspension; engine, clutch and transmission form a single compact unit. Fully enclosed as to working parts, and unusually clean-cut in appearance.

Ultra-sized (2½") crankshaft in aluminum alloy crank case, stiffened by seven heavy-ribbed webs supporting shaft.

FOX exclusive design engine. Six cylinders cast separately, valve-in-head type 3⅜" bore, 5" stroke. Dynamometer test, 50 h.p. at 2200 r.p.m. Valves operated by overhead camshaft, *entirely eliminating over 250 parts*, including push rods, rocker arms, valve lifters, etc.

Camshaft spiral bevel gear-drive, exceedingly quiet. Cylinders, fine-grain, hard cast iron, accurately ground, heads removable for removing carbon and grinding valves.

Brown-Lipe multiple disc clutch, with Brown-Lipe special 30-A transmission. Pressure-feed, circulating oil system, with FOX gear pump feeding all bearing surfaces under positive pressure.

Chassis lubrication, Alemite oil fittings, with high-pressure oil gun.

Scintilla magneto, delivering current direct to spark plugs without coils. Westinghouse generator and starter (Bendix drive to flywheel). Exide 6 volt, 120 ampere battery, latest type Zenith carburetor, especially adapted. Fuel tank in rear holds 18 gallons, with 3 in reserve, hinged filler cap to prevent losing.

FRAME—pressed steel, 5/32" thick with channel 6½" deep.

Springs of silico-manganese, semi-elliptic, underslung; front, 45 x 2¼"; rear, 60¼ x 2½".

Ross steering gear. Timken axles and Timken roller bearings throughout.

Tires, 32 x 4½", Goodyear or Goodrich Cord. Wheels; wire, wood or disc optional. 132" wheelbase.

Most Complete Accessory Equipment. Write for Fuller Details

MODELS AND PRICES

5 Passenger Phaeton, $3900, List, F. O. B. Factory
5 Passenger Sedan, 4900, List, F. O. B. Factory
3 Passenger Coupe 4900, List, F. O. B. Factory

War Tax is Not Included in List Prices

FOX MOTOR CAR COMPANY
OF PHILADELPHIA

Same Overhead–Increased Profits

Wire us–or mail Extra Profit Coupon below

SPEED up turnover. Cut down overhead. Make more sales with no additional expense. Increase profits.

How? *Sell Hayes Demountable at the Rim Wire Wheels.*

Every car owner *wants* wire wheels—has probably decided that sooner or later he will *buy* wire wheels. He has just been waiting for the *right* wire wheel. Be the first in your town who *sells* it.

The Hayes is the wire wheel motorists have waited for—the first practical demountable at the rim wire wheel.

Easy to install—convenient for quick tire change—light in weight—moderate in price—the Hayes Demountable at the Rim Wire Wheels sell at sight to every car owner.

Your field for sales is unlimited. Every owner of a Ford, Durant, Nash, Earl, Chevrolet, Dodge and other makes, is a prospect. Just demonstrate the Hayes Wire Wheels to them—they sell themselves, and what is more we *help* our dealers sell them.

Hayes has always stood for dependability in wheels. Of all the cars produced today, 54% are Hayes equipped. The immense resources which have made this achievement possible are back of Hayes Demountable at the Rim Wire Wheels. You can back them—we will back you.

Read the selling points. Learn why Hayes Wire Wheels are best from both standpoints—dealers and car owners. Convince yourself. Then wire us or send the coupon today.

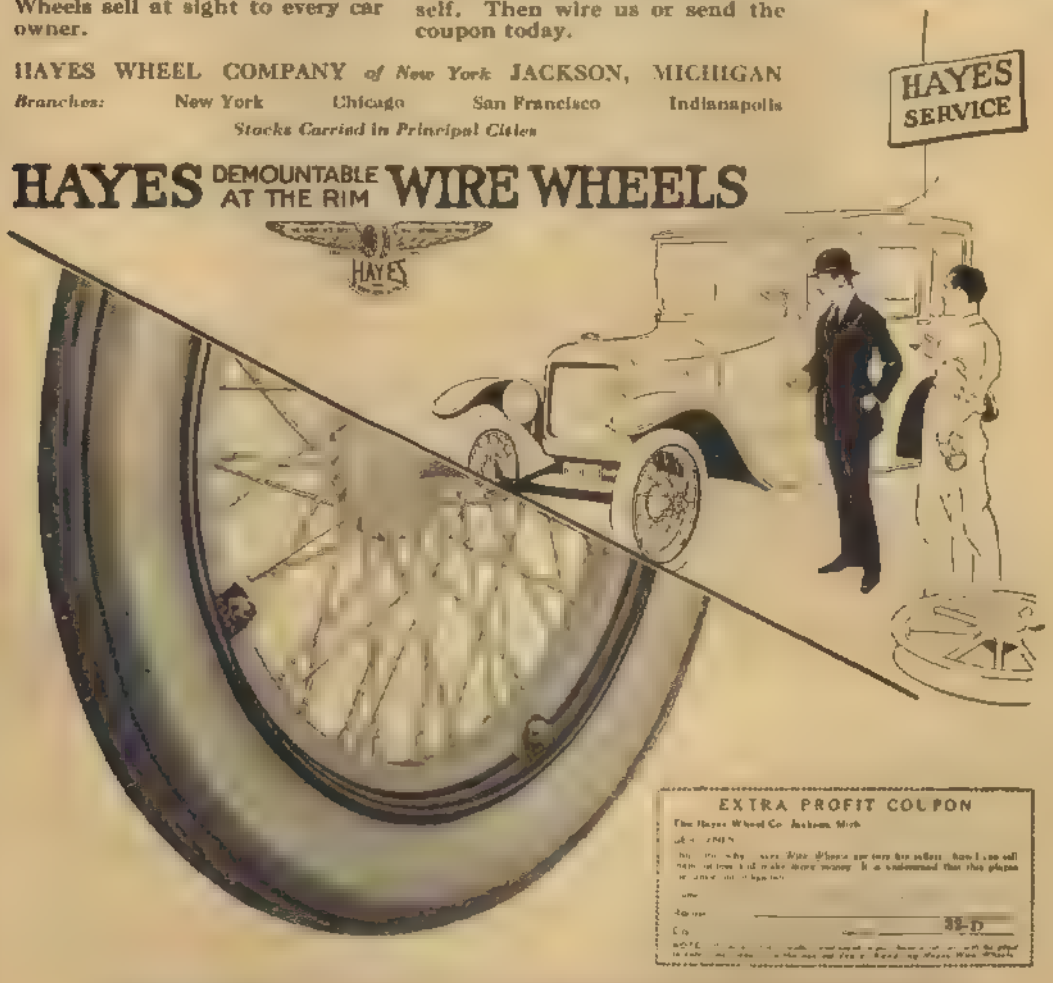
Six Strong Selling Points

1. One-piece steel felloe, of channel steel, well adapted for assembly of the wire spokes and gives perfect support to the rim
2. Rim supported front and back by in-rolled bead, excludes dirt. Provides ideal attachment for lugs
3. Tapered nuts fit countersunk holes in lugs and set gainst nuts
4. Lugs are made from mill rolled bars. Rivet ing portion integral with lugs. No castings used
5. Demountable rim lugs permanently attached to rim, eliminating driving studs
6. Integral hub makes wheel interchangeable with wood wheel

HAYES WHEEL COMPANY *of New York* JACKSON, MICHIGAN

Branches: New York Chicago San Francisco Indianapolis

Stocks Carried in Principal Cities



EXTRA PROFIT COUPON

The Hayes Wheel Co. Jackson, Mich.

Co. 35-D

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New Cars and Models

Touring Sedans Added to 1923 Buick Models

FOR 1923 the Buick line will comprise fourteen models, including new touring sedans for the four- and six-cylinder chassis. This announcement received from the Buick Motor Co, of Flint, Mich., tells also of body and mechanical changes. The new features of the Buick line should really be classed as refinements, since changes have not been radical but have been made to add to the riding comfort and improve the appearance and operation. The spring suspension is one of the most noticeable features to show improvements. The rear spring hanger positions have been altered, which is stated to do away with the rebound and sidesway and make the use of rear snubbers unnecessary. The main leaf in the front spring is of vanadium steel

The six-cylinder line will comprise a five- and seven-passenger touring car, a two passenger roadster, a three-passenger sport roadster, a four-passenger touring, a four-passenger coupe, the improved five-passenger sedan, the seven-passenger sedan, and the new five-passenger touring sedan. The four-cylinder line comprises five models; a two passenger roadster, a five passenger touring car, a three-passenger coupe, a five-passenger sedan, and the new five-passenger touring sedan.

The new six-cylinder closed models have a lower body suspension and a new top designed to eliminate noise. The bodies of the cars are one-piece panels. The window frames have a rounded edge and the windows have anti-rattler catches. The closed models are also equipped with a clock and a metal covered sun shade, together with a rear vision mirror and a cowl ventilator operated from the dash. The seats are lower The six-cylinder touring sedan standard equipment includes a rigid trunk rack and trunk, with guard rails on the rear of the body. The hood line has been raised and crowned fenders are used together with drum headlights and drum parking lights on the cowl. The top is lower.

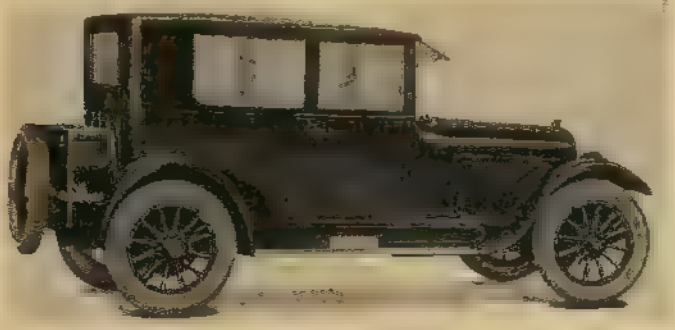
Other refinements in these new models include a longer gearshift lever, a windshield wiper, a transmission lock which will reduce theft insurance rate 20 per cent, and changes which give this new car a Class A rating by the National Underwriters' Association.

The Seven Passenger, Six-Cylinder Buick Touring Model 23-6-49

The Four-Cylinder Buick Touring Sedan

Briefly, the mechanical changes include a higher cylinder block of semi-steel, chilled when cast, and a new method of boring the cylinders. Longer connecting rods, longer pistons and a new and larger crankshaft are used together with connecting rod and main bearings of hard babbitt.

NEW CARS AND MODELS



Touring Sedan Model of Six-Cylinder Line

Another improvement is the installation of oil pressure feed to the main bearings and a new method of covered troughs to insure the proper lubrication of pistons and cylinders The fan bracket bearing and pulley drive are improved, as are the water pump shaft and pump packing. Improvements in the construction of the bodies are found in the front of the heavy pillar brace irons and cross bars and a new method of attaching body brackets with bolts. The frame is stronger and heavier and there is also a new steering gear housing, improved steering knuckles, new steering arm bushings and larger strut and truss rods.

The six-cylinder chassis comes in wheelbase lengths of 118 and 124 in. On the 118 in. wheelbase chassis are mounted the five-passenger touring sedan, the three-passenger roadster, the five passenger touring, and the five passenger sedan. On the 124 in. chassis are mounted the other five models including the two sport models.

Additional improvements common to all six-cylinder models are the 3 in. lower construction, the use of 14 in. brakes, heavy one-piece crowned fenders, and an extra grade of carpet.

Many of the improvements mentioned herewith are also found in the four-cylinder model. The model 34 roadster has a larger body and the frame for the four-cylinder models is of the kick-up type, giving a lower appearance to the car. The closed models in the four-cylinder line have practically the same improvements as the six-cylinder models and are finished with the latest fixtures and upholstery.

The four-cylinder touring car is 5 in. lower than the old model. The radiator is higher, hood line higher and the cowl longer.

The touring sedan is neatly arranged, the lower part of the body is maroon with a black top. Wheels are maroon, several shades lighter than the body. The sedan is Japanese blue, the body is longer and the roof is lower, as are also the seats.

The Chandler Royal Despatch

This illustration is of the Royal Despatch, quite similar to the Despatch model, but equipped with wire wheels and trunk rack. The price f.o.b. the Chandler Motor Car Company factory at Cleveland is $1795. The wire wheel equipment includes six wheels with four cord tires, the extras being mounted at either side. Spare tires with covers are extra. The lines are low and sweeping and the individual fenders and aluminum steps with the wire wheels mounted at the sides give this model the appearance of a custom-built car.

The finish is gray or maroon. The nickeled radiator shell, barrel-type head lights, the parking lamps, and the beveled windshield wings add to the attractive lines. The rear of the body is fitted with aluminum bars to protect it when a trunk is mounted in place. This new body is mounted on the Chandler improved chassis described in the February issue, page 35.

The Chandler Royal Despatch

Built to Serve— Priced to Sell

AT last!—the kind of a horn you have always wanted. A horn with all the high-priced characteristics, yet priced to meet the buying power of *every* car owner. Just show it—name the price—and the sale is made.

The **Basco** is a powerful electrical, motor-driven horn that *gets action* at every touch of the button. Its commanding r-r-r-x-x! never fails to clear the way, even in densest traffic.

Basco mechanism is simple, compact, sturdy. Needs no oil, no lubrication whatever—no attention. Tone adjustable at the turn of a screw. Can be installed on motor or dash. A sturdy, long-lived, trouble-free horn that gives the buyer biggest value for his money.

Have **Basco** Horns ready for immediate sales. Get our proposition and a **Basco** Horn for tryout before you settle on your standard motor horn.

Other Basco Products
Switches, Generator Cutouts, Regulators, Locking Door Handles

Briggs & Stratton Co.
Milwaukee, Wisconsin
1054 Louis Avenue

-send for this catalog today

Learn how to make a handsome, sporty roadster or racing car with a Ford or Chevrolet chassis.

The unusually low prices on A B C bodies make the total cost very moderate and the fact that A B C bodies are equal both in construction and appearance to custom-built bodies costing twice as much assures you of an attractive job that will last for years.

Read the following specifications. Note the many unusual features not found on other bodies: Frames made of well seasoned hardwood; joints bolted and screwed; one-piece ash sills full length; body panels, hoods, and radiator shell, 20 gauge, 3 pass automobile stock, which is heavier and of finer finish than generally used by body manufacturers.

The present low prices asked for Ford, Chevrolet and other used chassis, plus the moderate cost of an A B C body, make it possible for you to own a sporty car for very little money.

Write today giving us the name of the dealer through whom you prefer to order, and we will mail the catalog without delay.

AUTOMOTIVE BODY CO.
551 W. WASHINGTON BOULEVARD
CHICAGO ILLINOIS

The A B C Racing Body

The Commodore

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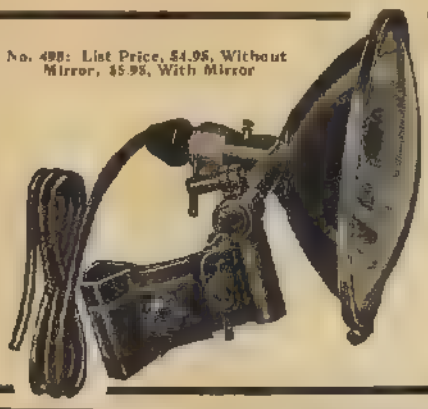
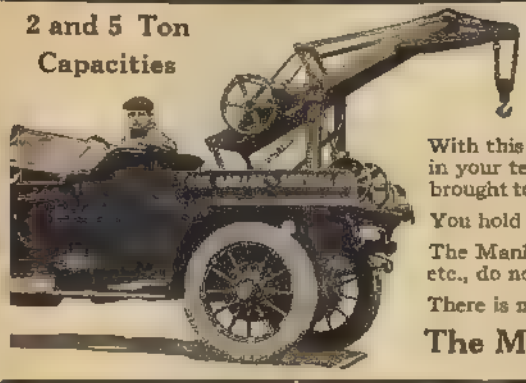


Cor-Co-Lite

A name that stands for supreme quality and ingenuity in Spot-Lamp construction. Cor-Co-Lite dealers do a brisk business in Spot Lamps because the clever bracket construction and handsome appearance of Cor-Co-Lite Lamps take the eye. We have a proposition that will interest you.

The Thos. J. Corcoran Lamp Co.
Winton Place Cincinnati, Ohio

2 and 5 Ton Capacities



Manley Wrecking Cranes the World's Standard

With this crane you will get all the wrecking business in your territory, and the resultant repair work will be brought to your garage. Your profits will swell instantly.

You hold your customers by giving real service.

The Manley Crane is a 100% Tool—mud, snow, ruts, etc., do not affect it.

There is nothing even approaching it in efficiency.

The Manley Mfg. Co. York, Pa.

Small Cash Payment Starts You Making Big Profits Charging Batteries

$20 Brings You an HB Charger

Your battery charging profits easily carry the small monthly payments on balance. No repairs, no expense or renewals—steady, dependable service. Absolutely automatic stop and start—cannot harm batteries. Quicker, cheaper charging with direct current means bigger profits for you. Many other high grade features. Sizes for 6, 12, 16 or 32 batteries. Also new HB Constant Potential Outfit for 8-hour charging service. Ask about it. Get information also on HB Automatic Air Compressors, Grinders, Motors, Generators, and Stock-keeping Equipment. Sold on easy payments. Write TODAY.

HOBART BROS. COMPANY Box T-5 TROY, OHIO

You Can Clear $150 to $300 a Month

STOP THAT NOISE in the Timing Gears of the Buicks

Replace the present pump and crankshaft gears with

BAKELITE MICARTA NOISELESS TIMING GEARS

using the old camshaft gear.

Bakelite Micarta is a material made of heavy duck of uniform weave, thickness and tensile strength, bonded with Bakelite by heating under high pressure.

These gears, being non-metallic material, **are guaranteed** to stop the timing-gear noise and will stand up under the required conditions.

Furnished in either of two ratios—20 tooth pump gear and 30 tooth crankshaft gear to match 60 tooth cam shaft gear—or an 18-27 tooth combination to match 54 tooth cam gear.

Easily Installed by Any Competent Mechanic ***Dealers Wanted Everywhere***

Detroit Radiator and Specialty Co., 4829 Woodward Ave., Detroit, Mich.

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KOZY WINGS

They Sell Faster

Kozy Wings—the original side wings—sell faster than other makes because:

1—Custom built—for each make of car.

2—Guranteed not to loosen

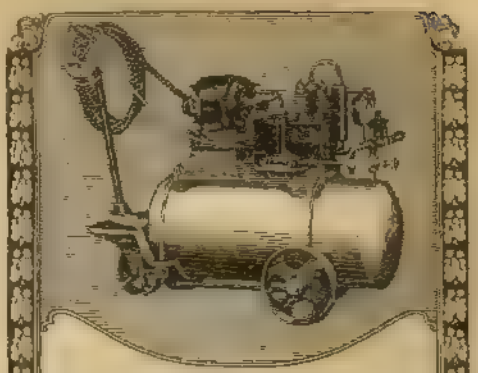
3—Lowest priced, quality considered.

Our Proposition Will Interest You. Write

MANUFACTURED BY

The MID-WEST GLASS Co

406 West Fourth Street



The Air is Always There

The New Model H Tank Outfit—either stationary or portable—with either regular alternating current motor or direct current motor, is the most economical and serviceable garage pump designed. Fully guaranteed.

Send for Complete Description of Three Other Models

HARTFORD

MACHINE SCREW COMPANY

HARTFORD, CONN.

NEW YORK DETROIT SAN FRANCISCO, RICHMOND, VA.

flexible NormaN

True economy for both car owner and dealer comes only through installing really good piston rings the first time. This saves tearing down the motor and replacing later on.

Individually cast; oil tempered; finely finished; pressure pcened, patented power and oil-tight joint. Normans are priced less than what you expect to pay for a ring the quality of this.

Sales Offices:

Atlanta 75 Walton St. Boston, 0 Belvidere St., Chicago 1402 S. Michigan Ave. Cleveland, 20 E. 40th St. Cincinnati 7 W. Adams St. Los Angeles 415 W. 10th St., Louisville, 114 S. 3rd St.; Pittsburgh, 119 Federal St.; Portland, Ore., 26 N. Broadway; San Francisco, 1143 Post St.

Some Distributor Territory Open. Write to

Norman Piston Ring Corporation

Peoria Illinois

Better Profits on Less Capital

With the

MALCO 3-in-1

WINDSHIELD CLEANER

Because the Malco 3-in-1 is a universal windshield cleaner, you don't have to stock a variety of types. This means less invested capital and larger net profits.

The Malco fits any car, open or closed. Can be installed in three different ways. Clamps on top or side of windshield—or through hole in the frame. Sells for only $1.50.

JOBBERS, DEALERS: Sell the cleaner with the unlimited guarantee. Write for complete details.

MALCO

Malco Products Corporation

Salt Lake City, Utah

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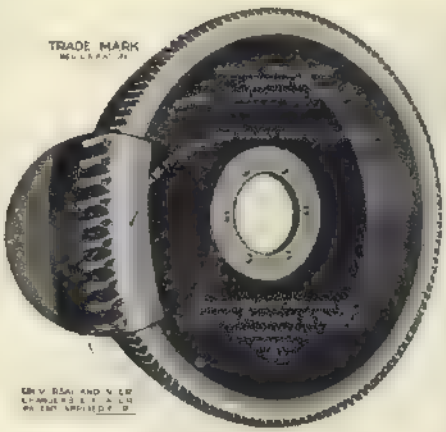

Quality Counts

Nothing counts more in starter gears. When a dealer makes an installation of a gear to take the place of the stripped teeth on a cast-iron fly-wheel he knows that his reputation and the cost of the labor is at stake if the gear proves faulty. That is why progressive dealers install Huetter's Gears.

You, yourself, can readily compare the cost of a second installation with the so-called "saving" made by putting in an inferior gear. Quality counts not only in time and money. It shows itself in service, too. Knowing the quality of our product, we *guarantee* the dealer's satisfaction on Huetter's Fly-Wheel Gear Bands.

Huetter's
Fly-Wheel GearBands

HUETTER MACHINE & TOOL CO.
545 Kentucky Ave. Div. D-2 Indianapolis

THE RE- s class and pleasing style ... th ... g ... Dietz 'Se tinel" ... Oval- ... Head lights which adds a touch of smartness to any truck or bus on which they are p'aced

A choice of two sizes, in eleven st y es, makes possible the su table equ ... ment ... either large or small tr cks

Mor ... over, beauty ... DI z Se tinel Head lig ... s ... an ski ... deep ... lence is ... them extraord.nary strength ... resistance to wear and tear—besides ... ating power of unusual volume, ... without increase of ordinary ... ...

Dealers ... ... a ... ssories Wid find Dietz Sentinel Ideal r Headlights a profitable ... t proposition

Let Us Send You Full Particulars With Prices

R. E. DIETZ COMPANY
Pioneer Makers of Vehicle Lamps
68 LAIGHT ST. NEW YORK
Founded 1840
JAMES BARNES, Sales Manager
Motor Truck Lamp Department
Carter Building Rochester, N. Y.

Complete Line of Kerosene ... Lamps

DIETZ "SENTINEL"
ELECTRIC HEADLIGHTS for MOTOR TRUCKS
DIETZ LAMPS

The EARL Cabriole at $1395

Unites dignity and charm with remarkable economy and comfort in a fine 4-passenger closed car

ALL the beauty, the friendly convenience and practical utility your prospects are looking for in an enclosed motor car, you can show them and sell them now in the new Earl Cabriole.

At $1395, its tangible value is so great that it is bound to outsell every other closed car in its price range. It has been shown only at the factory, but already its success, measured by orders for immediate delivery, has been sensational.

Generous body dimensions, with a very low center of gravity and perfect balance, make for unusual riding qualities in the Earl Cabriole. The distinction of its sweeping lines, the rich harmony of gray Spanish leather within and Earl blue and black without, must be seen to be appreciated.

The Cabriole is the right size —the right price—the right combination of good looks, economy, and ability to go anywhere a motor car can be driven. And it carries the right discount.

A great selling season for closed cars is just opening. And the Cabriole is the most astonishing closed car value ever offered. Write or wire for full information about this sensational new car, our contract terms and the facts about the remarkable Earl line. Some profitable dealer territories are still unassigned.

EARL MOTORS, INC., JACKSON, MICHIGAN

Touring Car	$1095	Brougham	$1795
Cabriolet	1395	Sedan	1795
Custom Roadster	1485	Prices f. o. b. Jackson	

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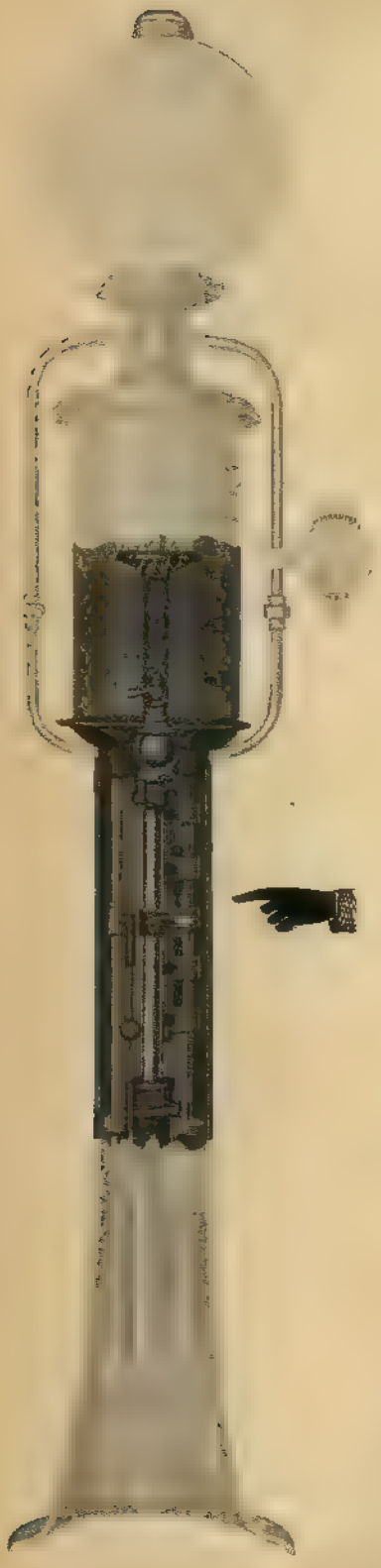

ONLY those who have *not* looked into the Fry Guarantee Visible Pump cannot understand its many exclusive and patented profit-producing features.

The most casual examination will convince anyone of its unusual business-getting qualities.

The *Fry* Overflow Principle

—is the only way we know of that insures correct and full measure under all circumstances.

Look at the Fry measuring mechanism. You see how simple and positive it is. It overflows at every gallon.

Excessive lift or light fuel have no effect upon the accuracy of this pump.

In operation it is very fast. Just a few seconds are required to fill and discharge the container.

This is the pump that is developing new business and increasing the gasoline sales from old customers at thousands of service stations throughout the country.

Better let us give you more facts.

Address Dept. T J

GUARANTEE LIQUID MEASURE COMPANY
ROCHESTER, PA.

Fry Guarantee Visible Pump

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ESSEX

The Coach $1295

Touring, $1095

All Former Sales Records Broken

Essex sales now surpass any period in the company's history. And Essex dealers are making more money than ever before.

With only three models, the Touring, Cabriolet and Coach, no great capital is required to handle the Essex line. All are wanted models—salable anywhere.

If you are interested in selling the Essex, either as Dealer, Sub-Dealer or Resident Dealer, write today.

The Coach, $1295 *Cabriolet, $1195* *Touring, $1095*

ESSEX Motors, Detroit, Michigan

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ROME-TURNEY RADIATORS

for Ford Cars

Quality Radiators. Guaranteed to be the highest grade obtainable. The true Honeycomb Mercedes type, made by a patented process, of thin, special alloy brass. If you want to sell the best, get a stock of them without delay.

ROME-TURNEY RADIATOR CO.
Rome, N. Y.

Take a Tip from Blakeslee!

Quite frequently the fact is demonstrated that some one has sold your timer because of the *Milwaukee*. That's how George Blakeslee [illegible] \$1100 necessary this year with three cars in Pontiac, Mich.

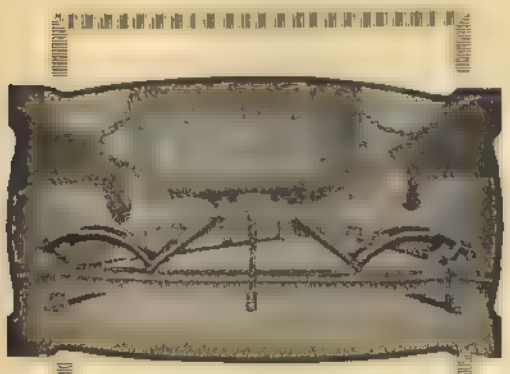
He was in quick turnovers, with little [illegible]. So he easily the [illegible] goods that say [illegible] the *Milwaukee*. He started with [illegible] three years ago. His [illegible] were \$4.81 [illegible].

Apply Blakeslee methods to your business. Quit the slow-sellers, "unknowns." Play the winners. Display them; push them. *Here's your stock of Milwaukee Timers!*

Milwaukee Motor Products, Inc.
Milwaukee, Wisconsin
(Steel Display Stand for you. *Free*, Postpaid, on Request.

MILWAUKEE TIMER *for* FORDS

Sells *Fast* at \$2.00



Ask Your Jobber for the Only Shock Absorber With Bronze Bushings

W. & C. SHOCK ABSORBERS

P. H. WEBBER CO.
Hoopeston Ill.

Reduction in Price of Armature Rewinds

Ford Generator Armatures Rewound, \$1.95 net, each; any quantity.

Any other make of Two-Unit Generator Armature rewound, \$4.95, net, each.

All Our Work is Guaranteed to be Satisfactory in Every Way

H. M. FREDERICKS CO.
Armature Winding Specialists
LOCK HAVEN, PA.

FORD DEALERS—Do you know that there is *No Trouble Chasing* when you install Security Auto Locks?

They don't get out of order — Are simplest to install
Takes only 5 minutes

Absolutely Thief Proof—No Lost Motion or Wabble in Steering Wheel—The Security Cannot Cause an Accident

Original Loose Wheel Lock for Fords

This lock has been on the market since 1916 and has given satisfaction everywhere. Let us show you this splendid lock. Send us in your orders. You will be pleased. Approved by underwriters. Insurance reduced 15%.

Security Auto Lock Co. 410 N. Paulina St. CHICAGO, ILL.

Guaranteed

M AND K

$8.00

Positive Circulation Prevents Overheating Maintains Proper Temperature

The Water Pump for Ford Cars and Trucks

Dealers, Jobbers, Distributors Wanted

McDonald-Klein Co. 1604 Main Street Buffalo, N. Y.

"UNIQ" IMPROVED Running-Boards

Made of selected wood, covered with linoleum or aluminum matting, handsomely bound with exclusive design mouldings.

Have you seen the new improved "UNIQ" Running Boards with curtain supports for SLEEL FENDS which make it possible to attach the fenders flush with top of boards, and eliminate gap between splash pans and fenders"

This outfit really looks BUILT-IN and wonderfully improves the Ford.

It will pay you, Mr. Dealer, to investigate UNIQ Improved Running-Boards, because Ford owners WANT THEM.

Order a Sample Set and Get Acquainted With the New Features

THE C. SPIRO MFG. CO. **New York City**

Sole Manufacturers of "UNIQ SUPER-QUALITY" Products

HIGH GRADE TOP BUILDERS

MONROE BODY COMPANY

LUDINGTON, MICHIGAN

The ever widening circle of good Maxwell admirers is a tribute both to its superb beauty and its reliable, economical performance.

The conviction is rapidly spreading that only in this car can there be found such sound value.

Cord tires, non-skid front and rear; disc steel wheels, demountable at rim and at hub; drum type lamps, Alemite lubrication, motor driven electric horn; unusually long springs. Prices F O B F. tory, revenue tax to be added: Touring Car, $885, Roadster, $885, Coupe, $1385, Sedan, $1485.

MAXWELL MOTOR CORPORATION DETROIT, MICH.
MAXWELL MOTOR CO., OF CANADA, LTD., WINDSOR, ONT.

The Good

MAXWELL

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NEW CARS AND MODELS

New Stearns-Knight Six-Cylinder

A RECENT announcement from the F. B. Stearns Co., of Cleveland, discloses the new Stearns-Knight six-cylinder car equipped with an engine 4⅛ x 5 in., mounted on a chassis of 130 in. wheelbase. List of models include a roadster and four- and five-passenger touring at $2700, a seven-passenger touring at $2850, a coupe at $3750, a coupe brougham at $3750, and a sedan at $3700.

The electrical equipment includes a two-unit, twelve-volt starting and lighting system and the 12-volt battery ignition system. The clutch is a multiple dry disk and the gearset has three speeds forward. The front axle is an "I"-beam section steel forging. Ball thrust bearings are used in the steering knuckles and tapered roller bearings in the hubs. The rear axle has a pressed steel housing with hubs keyed direct to the axle shafts. Wheels are wood, artillery type, with Firestone S. S. rims with 34 x 4½ cord tires. The front springs are semi-elliptic 45 x 2 in., and the rear are cantilever, 50 x 2½ in.

The top is supplied with door-opening curtains and a plate glass window in the rear curtain. The open models have two-piece plate glass ventilating windshields. The coupe brougham and the sedan are equipped with sun shade.

New Six-Cylinder Stearns-Knight Brougham

Jewett Coupe in Production

A NEW closed model, a coupe to accommodate four passengers comfortably, is now in production by Jewett Motors, Inc., of Detroit. It is of standard closed car construction, using all metal panels over a wood frame.

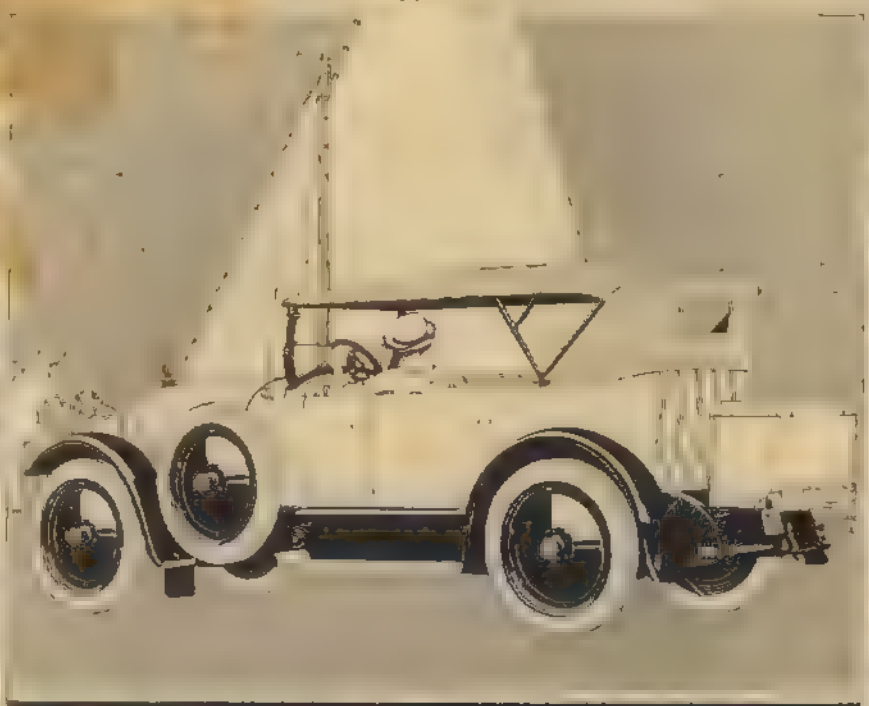
This new model is featured by its spacious body, the length being 77 in. and the width 57 in. An auxiliary seat for the fourth passenger faces forward and is equipped with back and arm rests.

The fittings of this new model are those that are used with a high grade four passenger coupe. The window lifts are operated by levers, the doors have locks, and there is a cowl ventilator, sun visor and a dome light. This body is mounted on the Jewett six cylinder chassis described in the February issue, page 31. The price of this new model is $1395 f.o.b. the Paige-Detroit factory. The roadster of this line was illustrated on page 73 of the July issue.

Jewett Coupe

This is a four passenger job with metal panels over a wood frame. There is an auxiliary seat for a fourth passenger facing forward

BEAUTY · STRENGTH · POWER · COMFORT



THE NEW IMPROVED FOUR PASSENGER HAYNES 75 TOURISTER

For those who desire a car for tour ing which is dependable in power and impressively proportioned, and yet wish the seating to be conversationally convenient, Haynes engineers and designers have evolved the new, improved, four-door, four passenger Haynes 75 Tourister.

The whole car is correctly eloquent of smartness, from its new design, searchlight type head lamps to the serviceable trunk carrier at the rear. The slope of the windshield, the three-quarter length running boards, the spare wheels riding beside the commanding hood, the trim, ebonized handles of the four convenient doors, the stylishly French pleated leather upholstery over deep, resilient cushions, every detail appeals to those who appreciate discriminative completeness.

Like all Haynes 75 models, the Tourister has the pick-up, the get-away, the steady, trustworthy, quiet power, which are the gifts of Haynes manufacturing experience, in the famous, Haynes-built six cylinder 75 motor. No wonder Haynes dealers are having such a great volume of requests for this Tourister. Valuable territories are still open to well qualified dealers. Communications are held in confidence. In writing or wiring, address Dept. 850.

$2395 f. o. b. factory

Wire wheels (two tire wheels are standard equipment on the six cylinder Haynes 75 models. The Haynes Light Six and Sixty-one models are also standard equipment. **Disc wheels are optional at no extra charge.** *All models except the Special are equipped with six wire wheels, prices on which on application.*

THE HAYNES AUTOMOBILE COMPANY, *Kokomo, Ind.* Export Office: 1715 Broadway New York City, U.S.A.

P 2. 1922 T H A Co.

1893 · THE HAYNES IS AMERICA'S FIRST CAR · 1922

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Good Name of the Hupmobile a Valued Dealer Asset

Obviously, it means more sales, and easier sales. It assures a very large proportion of repeat business, nearly all of it representing clear profit.

The way the car stands up, day after day, and year after year, wins the enthusiastic good will of its owners, —a sales force which can scarcely be over estimated.

What owners think about the Hupmobile has inevitably influenced the attitude of the general public to so great an extent that today everyone has a good word for this car.

Our distributors are now appointing new dealers in all territories. Write to us, and we will put you in direct touch with the Hupmobile distributor in your territory.

Hupp Motor Car Corporation, Detroit, Michigan

Hupmobile

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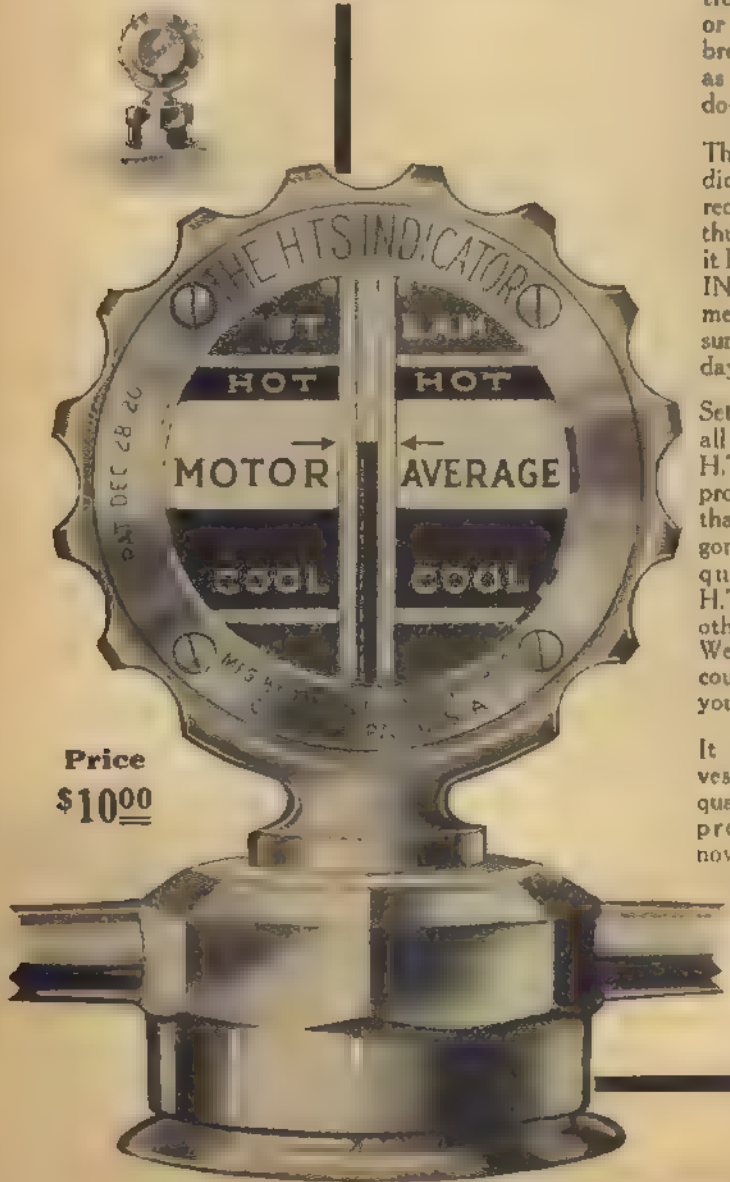
At Last!

A REAL MOTOR HEAT METER



Price
$10.00

The new H.T.S. Heat Indicator and Parking Lamp offers you the most efficient and fast-selling article on the market today.

A gasoline motor never picks its hours for developing trouble. Water can give out or oil leak away or fan belts break just as readily at night as at day. And when they do—the motor heats up.

That is why the H.T.S. Indicator—the illuminated heat recorder—has received so enthusiastic a reception wherever it has appeared. IT SHINES IN THE DARK. It doesn't melt out of view when the sun disappears—its work day is 24 hours long.

Set side by side with any or all other heat recorders, the H.T.S. Indicator so clearly proves its own advantages that its choice becomes a foregone conclusion. It's only a question of showing the H.T.S. side by side with others, and the sale is made. We are liberal with our discounts, and every sale gives you a worth-while profit.

It will pay you well to investigate this line and acquaint yourself with our proposition. Write for it now.

H. T. S. INDICATOR COMPANY
CHESTER, PA.

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K-D Spot Lamps Have the Call—NOW!

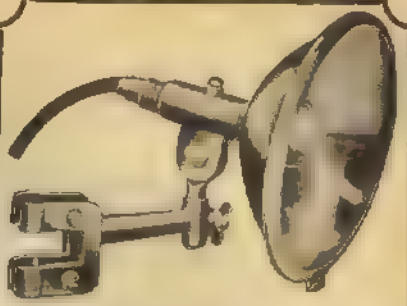
The big spot lamp season is on in earnest. Jobbers report increased demand and rapidly growing sales, because of more stringent laws requiring the use of these lamps.

Your stock is not complete unless you can supply K-D Spot Lamps, and you're losing profit every day that you delay ordering

Dandy Junior

Single-shell type, with reflector and body combined, pressed heavy-gauge brass. Glass is convex, secured by nickel-plated band. Brass bracket with two coats enamel baked on. Five feet cord furnished for attaching. Price

$4.50 Each



Delight Spot Lamp

Single-shell type. Pressed from brass of proper gauge. Polished and [illegible]. Convex glass held in [illegible]. K-D Spot [illegible] bracket, [illegible] baked [illegible] finish, [illegible] nickel plated. Made for [illegible] 6-8 volt, 21 c. p., double-wire system. Five feet of cord furnished. Diameter of glass, 6 inches. Price

$7.50 Each

Write for Samples and Discounts Today. No Obligation on Your Part

The K-D Lamp Co.

Cincinnati, Ohio

AMTEX

TRADE MARK REGISTERED

Transmission Lining *for Fords*

You can install a set of Amtex Transmission Lining in a Ford in a half hour or less. Amtex will not crack nor glaze. Resists action of hot oil. Free from lint, it will not clog the oil line. *Will not slip.* Set of three retails at $2.50—for an excellent profit.

Jobbers: Samples—and details of our sales plan—which we will gladly send, will speedily convince you that this is a real proposition.

American Textile Banding Co.
Germantown Philadelphia, Pa.

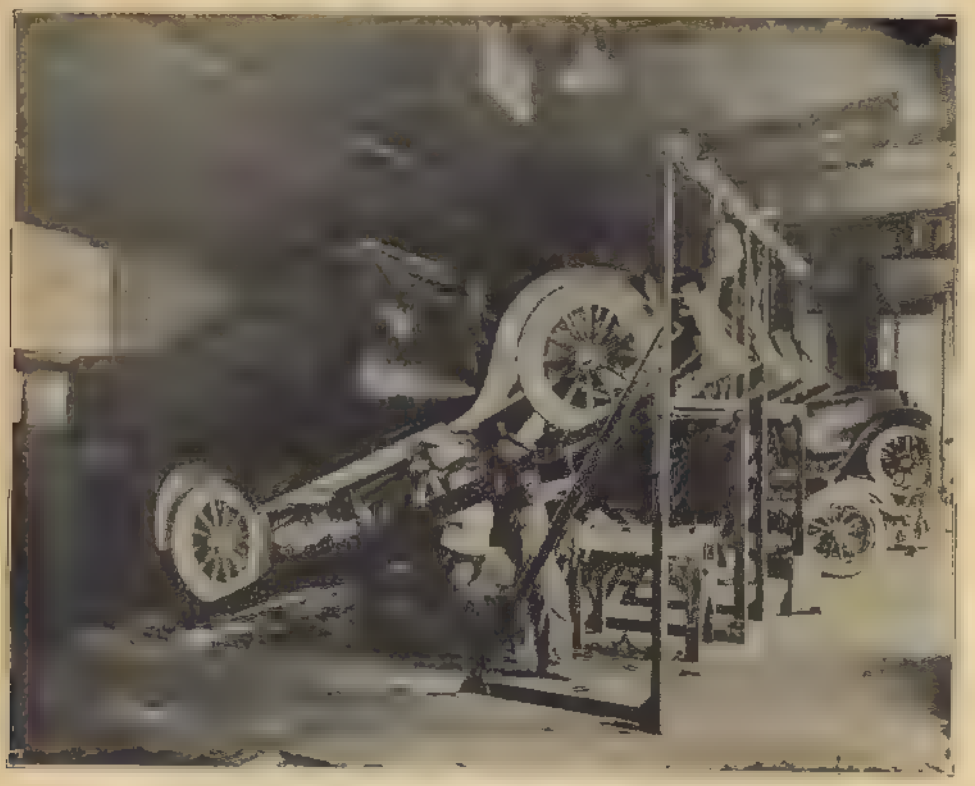
FORD OWNERS & GARAGE MEN

TAKE NOTICE

USE OUR "F-40"

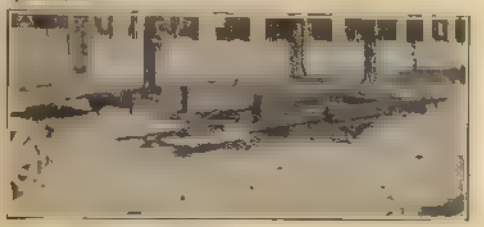
in Ford Rear Axles and End Your Troubles and Make Friends

BANTAM BALL BEARING CO. BANTAM, CONN.



Studebaker Standardized Repair Station for Satisfied Service, Equipped With Martin Stationary Two-Stand Unit, Model B Auto Hoist

Model A Martin Auto Hoist and Dolly. Side view, showing car hoisted ready for underneath work. Send for full description of this labor saver. It will surprise you.



Model A Martin Auto Hoist and Dolly, folded, enroute for road work.

The Comfortable, Speedy Way

of Working Underneath a Car

With a Model B Martin Auto Hoist your mechanics do 33⅓ to 60% more work than by the slow, laborious, unhealthful pit or creeper method.

Not only do they put through more work, they do it accurately—because all parts are in plain view

Easily, safely operated by one man, the Martin is readily interchangeable for front, rear, overhead or underside jobs.

Model A Martin Auto Hoist and Dolly, when adjusted to a horizontal position, it can be used for bringing in disabled cars and serve as a repair stand in any capacity, which makes it indispensable.

The great saving in time and labor this trouble-free hoist effects, pays for it in an astonishingly short time.

Write for Complete Details and Full Line of Our Equipment

The T. A. Martin Equipment Co., Inc.

Bridgeport, Conn.

MARTIN AUTO HOISTS

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MERCER MOTOR CARS

The Mercer Plan Will Interest Every Progressive Dealer

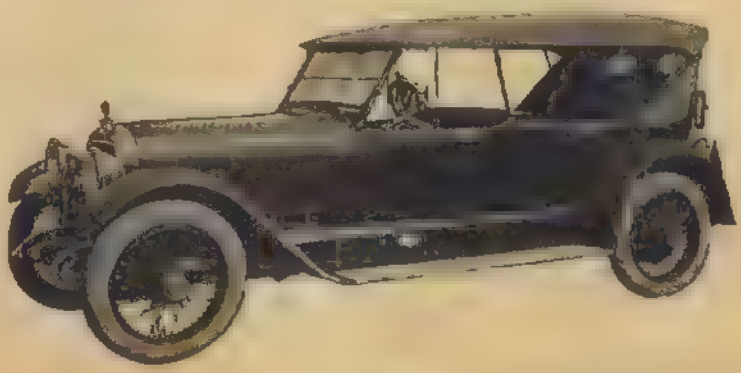
You have often desired to broaden your sales efforts by selling a really fine car in connection with your present line.

The Mercer Plan will enable you to do this. If the car you represent now does not compete with the Mercer, and if you are the type of dealer that we wish to add to the Mercer organization, you can secure the valuable Mercer Franchise for your locality.

Consider what this means to you in larger profits, additional prestige and increased sales possibilities. You can then approach many possible buyers who are not your prospects at present. These motorists are ready to buy a car like the Mercer. It does not require many Mercer sales to net you a comfortable income.

Seldom is there offered such an opportunity by the manufacturer of a world famous quality car. As the response to our first invitation was most gratifying, and the number of fortunate dealers to be accepted has been limited, we advise you to act quickly. Communicate at once with

Mercer Motors Company, Trenton, N. J.



Olds Five-Passenger on Light Eight Chassis

THE Olds Motor Works of Lansing, Mich., has started production on a five-passenger eight-cylinder model, using a roomy body and the standard light eight chassis. The new model retains the trim contour of the light eight four-passenger model, but is built to comfortably accommodate five. The wheelbase is 115 in. The back seat is 45 in., the front seat 41 in., and the doorways are 21¾ in. wide.

This model, which lists at $1595 f.o.b. the factory, comes with a rich wine color, known as Oriford Lake, and has side rails of Circassian walnut. The instrument board, horn button, steering wheel and spokes, and gear-shift lever ball are also walnut. The upholstery is leather, which harmonizes with the body finish, and heavy texture tan rugs cover the floors of both compartments. The top is of a type that gives a clear view for all passengers and ample headroom, but still retains low sweeping lines which blend well with those of the body. A new style, nickel-plated, flaring-type radiator shell is used and also a cowl ventilator finished in black. A two-piece windshield with weather-strip and adjustable from the inside is now used. Other equipment includes a windshield wiper, rear-vision mirror, tubular robe rail and snubbers on the rear. Cord tires are standard equipment with a single carrier and rim mounted at the rear. Running boards are covered with linoleum.

The Olds Eight-Cylinder, Five-Passenger Touring Model

Lincoln DeLuxe Touring Model

THE new Lincoln seven-passenger touring model on the 136 in. wheelbase chassis is known as the Lincoln De Luxe touring car. The Lincoln Motor Co., of Detroit, the maker, is also producing cars of two- and four-passenger capacity on this same chassis. The body panels of this model are aluminum to give minimum weight with strength. Finish is in any of three standard colors, rich blue, deep maroon or brewster green.

The upholstery is long grain black leather with curled hair and deep coil springs. The rear compartment has two cabinets in the back of the front seat for smaller articles. The side curtains are also carried in the back of the front seat, and are very close fitting. The extra seats fold flush into the back of the front seat. This long wheelbase model is stated to be exceptionally easy riding and there is ample space in both front and rear compartments for all passengers.

The Lincoln De Luxe Seven-Passenger Touring Car on 136 in. Wheelbase Chassis.

"*We have sold the Oldsmobile since 1916* and have found our dealings with the Olds Motor Works okey. Our sales have run ahead of last year. We are thoroughly convinced that the Oldsmobile is the best value for the money on the market today, and we would not give up the Oldsmobile contract for any other franchise."

FISHER & OCHAMPAUGH
(Leads N Y)
C. H. FISHER

The value of any manufacturer's selling franchise may safely be judged by the dealers the manufacturer *keeps.*

Square dealing, a better product than others can offer, a permanent dealer's contract, *an opportunity to make money and to grow* are some of the reasons why Oldsmobile dealers stick.

Fisher & Ochampaugh are only a fair example of the permanent sort of dealers representing Oldsmobile.

The opportunity to join this established, prosperous dealer organization may be yours today.

Logically, the better territories that are open will not remain so very long.

A prompt inquiry is almost necessary. Write, wire or telephone us for an appointment and complete information concerning your territory.

OLDS MOTOR WORKS, LANSING, MICHIGAN
Division of General Motors Corporation

Oldsmobile
FOURS and
EIGHTS

Auto-Lite

Starting, Lighting & Ignition

Only one thing proves to an engineer the unquestioned superiority of a product! That is, its success in the hands of the user.

All over the world more than two million car owners have learned from satisfactory experience to have implicit faith in the reliability of the Auto-Lite System, under all driving conditions.

There are many reasons for the ruggedness, simplicity and long life of the Auto-Lite System. May we have an opportunity to go into these with you?

ELECTRIC AUTO-LITE COMPANY

Offices and Works, Toledo, Ohio — Detroit Sales Office, 1309 Kresge Bldg.

Willys Light Division
of Electric Auto-Lite Company
Manufacturers of Electric Light and Power Plants for Farms, Etc.

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You Can Sell This Man a Snap-on Set Tomorrow

Another misfit wrench—another worthless "car equipment" tool a bruised hand and a ruined disposition.

—and another man ready to buy a Snap-on "owner" set that will easily reach, hang on and fit 99% of the nuts on his car!

Sure, there's bigger profit in selling Snap-ons. Sockets fit any nut; handles fit any socket. Car owners, mechanics and handy men get the idea in a minute. The interchangeable socket principle makes it possible for them—for the first time—to get the efficiency of 30 or 40 old-style wrenches with three or four Snap-on handles and a few sockets. You sell "sets" instead of single wrenches, and thus multiply a mighty good profit several times. Some customers want only half a set, of course—but what's the difference? Once they try the tools they come back for the full set.

Ask for literature, attractive discounts and full details of our advertising plan furnished responsible dealers. One of our 20 Branch Offices is near you —ready to give you personal attention.

The Finest Ratchet Made

Hand this Snap-on Ratchet to any mechanic. Say nothing. Just watch him snap the gears in and out of mesh. Then ask the price of a complete Snap-on "Master Set" which includes every [illegible] display board. Our sales records show that 1 out of 2 mechanics will buy the complete assortment.

Strongest, handiest reversible ratchet made—built on "gear" principle. Cannot break or slip [illegible] teeth [illegible] to form a solid block of steel. Patented, exclusive feature of Snap-on line

MOTOR TOOL SPECIALTY CO.

Distributors

Dept. B-1 14 E. Jackson Blvd. Chicago, Illinois

Snap-on Wrenches Are Made by the Snap-on Wrench Company, Milwaukee, Wis.

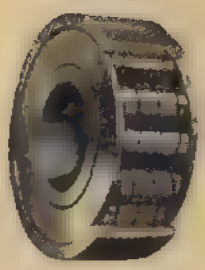
Snap-on

INTERCHANGEABLE Socket Wrenches

THIS SYMBOL IN ANY ADVERTISEMENT MEANS: SEE "CHILTON AUTOMOBILE DIRECTORY" FOR COMPLETE BUYING INFORMATION

FINE precision in manufacture is traditional Stearns practice. This is one of the reasons why long length of service has been a characteristic of the Stearns-Knight car.

It is a marked tribute to the Hyatt Roller Bearing Company that this car is equipped with Hyatt Roller Bearings—five in the transmission and five in the rear axle. But a still greater testimonial to Hyatt quality lies in the fact that these bearings have been used constantly in the same location since 1914.



A Hyatt bearing with part of inner race removed to show the spiral rollers.

Hyatt Roller Bearings enable the manufacturer to build a simplified and more satisfactory transmission and to produce a more sturdy and dependable rear axle.

HYATT ROLLER BEARING COMPANY

Motor Bearings Division: **Detroit, Michigan**

Tractor Bearings Division	*Pacific Coast Division*	*Industrial Bearings Division*
Chicago, Ill.	San Francisco, Cal.	New York, N. Y.

HYATT QUIET BEARINGS

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A Message of Great Importance To Motor Car Dealers Everywhere

THE New Stearns-Knight Six will be built in sufficient quantities to permit of national distribution.

Therefore, The F. B. Stearns Company for the first time in many years invites motor car dealers everywhere to write for full particulars concerning its Dealer Franchise.

From the day when The F. B. Stearns Company announced that it would be the first in America to adopt and build the Knight Sleeve-Valve type of motor the demand for Stearns-Knight Motor Cars has been greater than the supply.

The new 6-CYLINDER Stearns-Knight Engine is a marvelous power-producing mechanism. Its flexibility and acceleration—its silent smoothness and ease of control, are things that even experts wonder at. But greater than all else is the achievement of building what we believe to be the first gasoline engine to operate entirely free from periodic vibration.

Here then, is an unusual opportunity for dealers—an opportunity to obtain exclusive territorial selling-rights from one of the oldest and most successful motor car companies in the world. And, in addition, to obtain this profitable privilege at the time when the company announces the greatest achievement of its career.

Write for full particulars immediately. Your territory may still be open.

Roadster or 4 or 5 pas. Touring	**$2700.00**
7 passenger Touring . . .	2850.00
Coupe	3350.00
Coupe Brougham	3500.00
Sedan	3700.00

f. o. b. Cleveland

Stearns-Knight Six — *7 Passenger Touring*

Extract from a letter to the president of The F. B. Stearns Company from the inventor of the famous Knight Sleeve Valve Engine after a recent visit of inspection to the factory:

May 24, 1921

"I am with the king of motors, the Stearns-Knight six of yours. The original dimensions [illegible] carefully with the length of connecting rods, the position of the eccentric shaft, the shape of the cranks on the sleeves, and the fine workmanship which makes a motor with long life and smooth action. I like the proportions about the best of any engine I have ever seen. With kind regards,

(Signed) C. Y. Knight"

IMPORTANT SPECIFICATIONS OF THE NEW STEARNS-KNIGHT SIX

The New Stearns Sleeve-Valve engine has six cylinders cast enbloc. The bore is 3⅜". The stroke is 5". The lubricating system is a combination of force-feed and splash, with gear driven oil pump.

The new wheel-base is 130". The spring suspension is designed for super comfort. Front springs are 2½" x 45" semi-elliptic type, probably the longest front springs used on any passenger motor car. Rears are 2½" x 50" cantilever type.

Wheels are wood, artillery type. Tires are 33" x 4½".

Complete specifications gladly furnished on request.

Production of the 4-CYLINDER Stearns-Knight will be continued

The F. B. Stearns Company, Cleveland, Ohio

THIS SYMBOL IN ANY ADVERTISEMENT MEANS: SEE "CHILTON AUTOMOBILE DIRECTORY" FOR COMPLETE BUYING INFORMATION

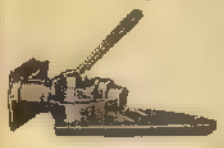
Ekern Special Equipment

Portable Work Bench

with Motor Support for assembling Fords. Has Special Reversible Piston and Machinist's Vise combined.

Motor Stands

with Motor Support for Fords
Light and Portable
Always Ready



Bench Motor Support

for Fords. Fastens to any Work Bench

Chevrolet Motor Support

fits any of the above at small additional cost

ASK YOUR JOBBER

EKERN-TURK MFG. CO.
PIPESTONE, MINN.

THE *UNIVERSAL* MOUNTABLE VENTILATOR

A Breeze Where You Need It

Pat Pending

Designed to put the air onto the floorboard, the hottest spot in the car.

The flexible flange can be bent to conform to the shape of the cowl.

Anybody can attach it in 20 minutes.

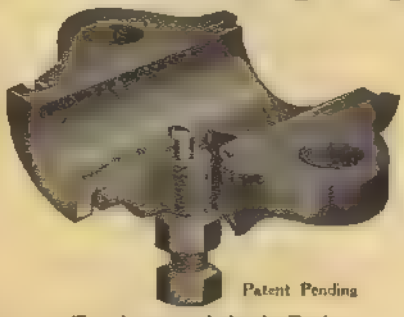
Tools and instructions furnished with each Ventilator, packed in a neat box.

Retail Price, $3.00

HIGBEE-ORNE COMPANY
Box 238, New Britain, Conn.

C-A

Adjustable Center Bearing Cap



Patent Pending

To take up end-play in Ford Crankshaft in either direction

ADVANTAGES

1—Positively sets Magneto to get 100% efficiency.
2—Will take end play and knock out of Crankshaft.
3—Quicker Starting. Better Lights. More Power and Less Noise.
4—Installed in about 40 minutes, by removing inspection plate.
5—GUARANTEE: Will replace any bearing that wears out from normal service in one year.

NEW PRICE, $3.75

ADJUSTABLE BEARING COMPANY, INC.
Brazil Indiana

Attractive Price to Dealers and Garage Men. Write us

---

8 Big Selling Features *of the* TURNER 2-in-1 TIMER FOR FORDS

1. Lasting, rigid rotor. 2. Phosphor bronze contact brush. Automatically wipes contact surface clean. 3. Piano-wire contact spring. Provides permanent tension of contact brush against timer face. 4. Flexible metal conduit. Makes all timer wires oil and water proof. 5. Bakelite timing disc. Guaranteed warp proof. 6. Aluminum timer shell. Any part within it cheaply, quickly replaced. 7. Only four wires to connect at coil. 8. Hardened brass contacts.

This high-grade timer sells, complete, for $3.60; was $4.50

Fully Guaranteed

How many can you sell? Write

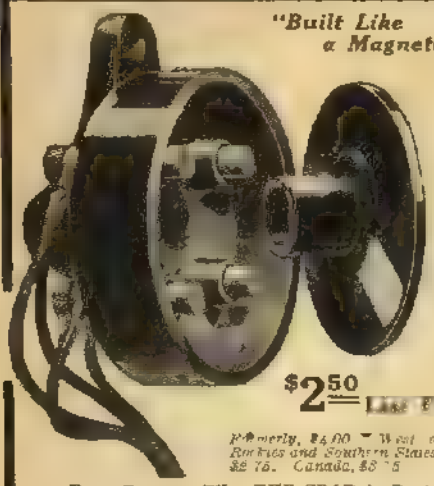
Turner Mfg. Co.
NOKOMO, IND

Patented 4-18-25

The Turner Instant Foot Accelerator for Fords gives instant throttling action. Retail price, complete, with foot rest, $1.

THE SPAD TIMER FOR FORDS

"Built Like a Magneto"



$2.50 List Price

Formerly, $4.00 — West of Rockies and Southern States, $3.75. Canada, $3.75

Four Reasons Why THE SPAD is Best:

1. Absolutely free from oil.
2. Unaffected by wobbly camshafts.
3. Scientific design assures long life.
4. Made of high-grade insulating materials.

Agents! Dealers! Distributors! Excellent opportunity to make good profits fast. Act quickly. Write for details today!

THE SPAD "TIMER"

SPAD MFG CO., Inc
46-46 West 39th Street
New York, N. Y.

"Aren't you going too fast, George?"

"No, I have VIKING lining on my transmission bands, and could stop at a moment's notice."

VIKING

Transmission Lining - Exclusively for Fords

Sales Dept.

FOX-PROOF LOCK for FORDS

Attractive and SAFE

Locks front wheels, steering gear and steering wheel *rigidly* in any one of three directions—the only *safe* type of lock. Makes driving easier and adds to the car's appearance. Approved by underwriters — carries insurance reduction. Complies with fire and police regulations.

Standard Ford Size, Black	$7.75
Nickeled	9.00

Also furnished with 17" corrugated walnut rim at $12.00 and $13.50. With nickeled horn button, 50c additional

Write for Full Details and Dealer Proposition

Fox Automotive Products Corp.
4646 North Eighteenth Street Philadelphia

MAKE AND BREAK LOWELL TIMER

MAKE AND BREAK WITH SELF-CLEANING CONTACTS. RUNS DRY OR IN OIL AND DIRT

ACTUALLY OPERATED FOR 25,000 MILES BEFORE OFFERING TO THE TRADE

(Patent Applied for)

ENTIRELY NEW PRINCIPLE

Price, $3.95

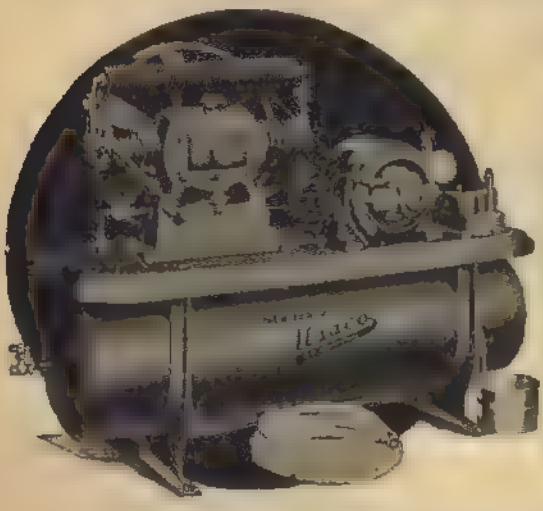
Lowell Equipment Manufacturing Co.
SHAW STREET LOWELL, MASSACHUSETTS

Your Overloading Problems Stop Here!

YOU wouldn't start your car in high. Neither do you start an air compressor on full load.

The Usaco Unloader makes this unnecessary, lengthening the life of the compressor through lessening strain and, at the same time, eliminating belt trouble and the blowing of fuses.

And, furthermore, the Usaco Unloader protects the motor against burning out as a result of low voltage. Being made integral with the motor, its operation is *direct* and *instantaneous*.



Here, briefly, is how it operates: When the desired tank pressure is attained, the compressor is automatically stopped and a valve opened, exhausting the air from the auxiliary starting tank in the compressor base. When the demands on the air in the tank lower the pressure to the minimum point, the motor starts, but runs on the brushes, pumping against no pressure until full operating speed is attained. The above valve is then automatically closed and the compressor pumps into the tank.

In the event of briefly sustained low voltage, lowering the speed of the motor, the Unloader operates as above described, thus protecting the motor against burning out.

You can obtain this full measure of Unloader protection on one air compressor only—the Usaco - as this device is amply protected by patents.

Write for the Usaco Catalog and Full Information Now

The United States Air Compressor Co.

5302 Harvard Avenue, Cleveland, Ohio

WORLD'S LARGEST MANUFACTURERS OF TWO-STAGE, TIRE-INFLATING AIR COMPRESSORS

Two Stage **Usaco** AIR COMPRESSORS Single Stage

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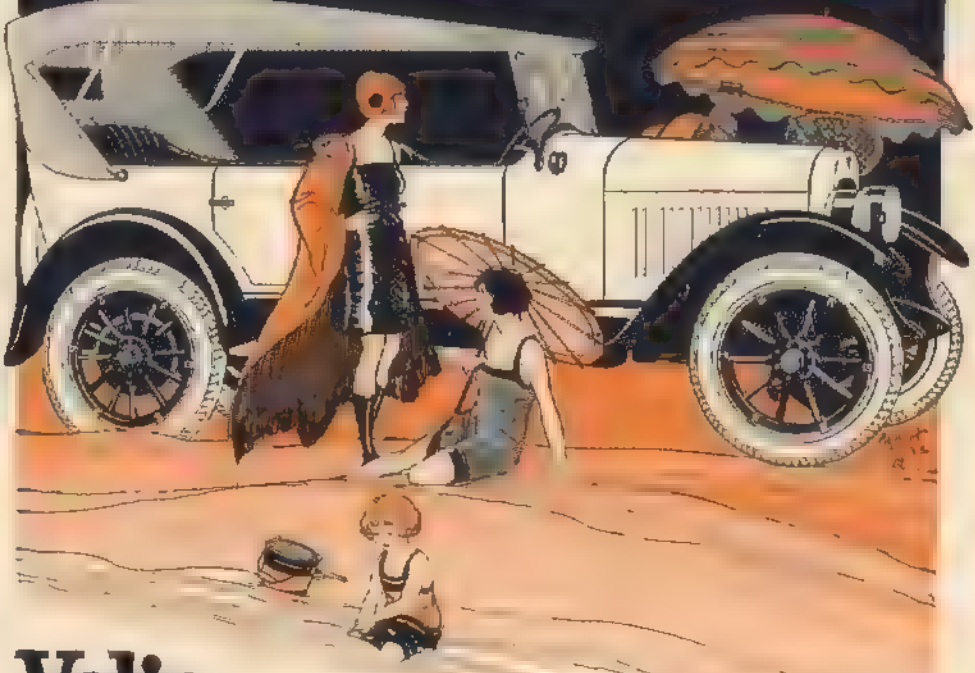
VELIE



Velie

Envied for its Beauty and Vibrationless Power

That distinguishing beauty which sets a car apart from the ordinary, and makes it the center of attraction, marks Velie Model 58 to perfection.

Long graceful lines give it the most satisfying proportions as well as unusual room. Its superb furnishing includes *everything* you look for in the best cars. Experienced buyers who can well afford to pay more, prefer the Velie because they know money will not buy more comfort and quality.

Exclusively powered by the self lubricated vibrationless Velie-built motor. A marvel of silence and economy.

Four body types, open and closed. Send for details.

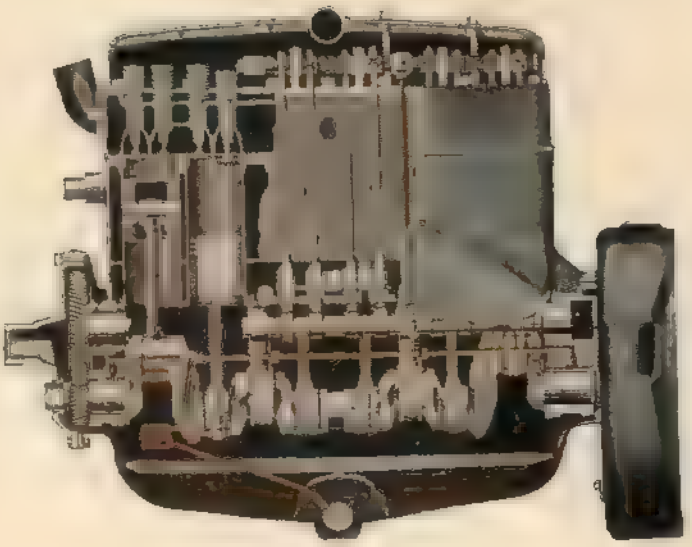
Now

$1275

VELIE MOTORS CORPORATION · MOLINE, ILLINOIS

VELIE - BUILT MOTOR

The Automatically Lubricated **VELIE-BUILT MOTOR**



Red lines show how motor is automatically oiled. The most thorough lubricating system ever devised. Oil is circulated by means of a powerful gear pump to every moving part of the motor, in exactly the right amount at exactly the right time. Nothing is left to chance. When the motor turns over every part must receive its proper proportion of oil from the pump.

This means that the push rods, rocker arms, valve stems, front gears, cam shaft bearings, crank shaft bearings, connecting rod bearings, wrist pins, tappets, etc., are all lubricated by a stream of fresh oil directly from the pump. Naturally, this means long life and minimum repair and upkeep.

You Get an Exact Duplicate of this Marvelous Motor in the Velie Model 58

We want good business men as dealers. Our contract is liberal; our Finance Plan places cars on your floor and provides for Time Sales. We invite correspondence.

VELIE MOTORS CORPORATION · MOLINE, ILLINOIS

VELIE - BUILT MOTOR

Owners Everywhere Approve

Let owners of Wayne Pumps from coast to coast and from Canada to Mexico and the Gulf tell you what they think of Wayne Pumps. Their opinions are unbiased. They say what they think. And what they think is worthy of your consideration.

Between New York and Albany

K. W. Grant, who operates a filling station on the main-traveled highway between New York and Albany, likes his Wayne Pump because it meets the first requirement of the busy East—speed in service.

Down in Dixie

Down in Dixie, where integrity is inbred, Wayne Pumps are accepted for their accuracy. R. C. Blanchard, of De Funiak Springs, Fla., writes: "The government inspector said the Wayne Pump was the best on the market. I have a Wayne and another pump. I notice that ninety-five per cent of the people stop at the Wayne."

The manager of a filling station in Chattanooga declares: "The gauge on my Wayne Pump is absolutely accurate and it stays so."

Up North

The Deadwood Motor Co., of Deadwood, S. D., reports: "We are surely pleased with our Wayne Pump. It has nearly doubled our gas trade.* * *"

"Our Wayne Pump has added several new customers to our list and is directly responsible for sales of other merchandise." is the statement of the Klausman Tire & Auto Co., Wadena, Minn.

And Out West

Martel Brothers, Burlingame, Cal., find that their Wayne Pump "never gets out of order and today is in as perfect condition as it was the day it was installed."

The proprietor of the Thousand Pines Garage, San Bernardino, Cal., does not think that "there is any better pump made, even at higher prices."

Wouldn't you like to know more about the pump which satisfies those who buy it as the Wayne does? Write and ask for Bulletin 276-AJ.

Wayne Tank & Pump Co., 702 Canal Street, Fort Wayne, Ind.

San Francisco Office: 631-633 Howard Street
Canadian Tank and Pump Co., Ltd., Toronto, Ont.
An International Organization With Sales and Service Offices Everywhere

REG U S
Wayne
TRADE MARK

HONEST MEASURE PUMPS

Measuring Pumps	Storage Tanks From 20 to 20,000 gals.	Air Compressors	Oil Burning Systems, Furnaces and Forges	Oil Filtration Systems
	Wayne Rapid-Rate Water Softening Systems. (Borrowman Patents)			

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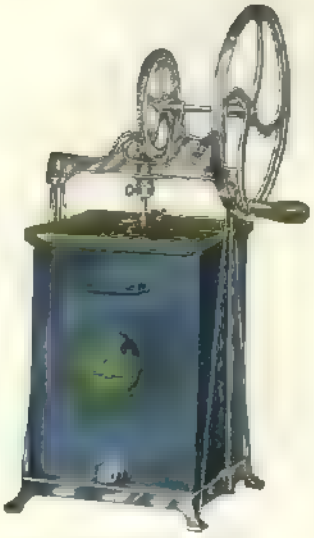
DAZEY CHURNS



Nos. N100-N200-N300.

Nos. N400-N600-N1000-F1600

THE DAZEY PRINCIPLE AND WHY IT IS BETTER

The principal butter-making property of cream is butter fat, which is an oil contained in a tiny delicate tissue and best compared to a soft-shell egg. The principle of ordinary churns is to break these tiny butter fat tissues, allowing the fat to gather in a mass at the top of the cream; but with the DAZEY, it is different and better.

As the cream is rolled along under the wings of the patented DAZEY Dasher, the whole fat globules are **rolled-up** in their natural condtion, in uniform sized grains.

Cream contains other valuable butter-making properties which are usually lost with ordinary churns, but by the DAZEY System are **rolled-up** with the fat globules. This is the reason the DAZEY produces more and better butter.

Just sufficient working to salt evenly is all that is necessary, because the rolling-up of the whole globules has squeezed out all milk from inside of grains. This means saving of labor.

The powerful dasher produces a scientific agitation that results in the production of butter in from five to twenty minutes.

The receptacles are non-absorbent; no cracks to harbor the cream and become rancid. The receptacle lifts out of frame and can be cleaned, as easily as an ordinary pail. There are no complicated parts in the DAZEY.

MATERIAL AND FINISH

Frame strong, and rigidly constructed of steel and iron, and finished with double coat of pure aluminum bronze; receptacle of triple-plated charcoal dairy plate, enameled outside covers and dasher of hard, white maple

NUMBERS	N100	N200	N300	N400	N600	N1000	F1600
Capacity, gallons	1	2	3	4	6	10	16
Churning capacity, gallons	1	1	1	2	3	5	10
Height over all, inches	17	21	25	27	31	39	47
Weight, each pounds	5	8	13	16	27	40	70
Weight, each, crated	10	13	21	26	37	58	100
Each	$4 60	5 50	7 00	8.50	10 50	17 20	35.00★

★ Items Marked Thus ★ Are Shipped From Factory Only.

DAZEY CHURNS

Patent Applied For

Patent Applied For

NUMBERS	20	30	40
Capacity, pints	4	6	8
Churning capacity, pints	2	4	5
Weight, each	5	6	7
Weight, per dozen, boxed	75	106	120
Per dozen	$12.70	15.95	21.00

EXTRA GLASS JARS FOR DAZEY CHURNS

NUMBERS	20-J	30-J	40-J
Weight, per dozen, boxed	52	75	80
Per dozen	$4.45	6.25	7.45

MATERIAL AND FINISH

Heavy, clear glass jars with smooth finished neck; heavily plated screw cap top; hard, white maple dasher; cast frame and gears finished with double coat of aluminum bronze; perforated, removable strainer in cap.

DAZEY ELECTRIC CHURNS

The same principle of butter-making which has made DAZEY Hand Churns so universally popular, has been combined with every essential feature of a practical and efficient Electric Churn.

A clutch for starting and stopping Churn without shutting off motor is provided; the high base provides safe mounting for motor, and raises the receptacle so a vessel can be placed under faucet; the gears are fully enclosed ad protected; the extension cord is protected by carrying same thru hollow side rod. Years of faithful service is assured thru use of highest grade motors, best of materials and careful workmanship.

★ MOTORS—The following motors are furnished as standard equipment:
Single phase alternating current 60 cycle motors of 110 and 220 volts
32 110 and 220 volt, direct current, compound wound.
Motors of special cycles, phase etc., can be furnished at an extra charge.

★ IMPORTANT—When ordering Electric Churns it is necessary to specify voltage, cycle and phase on alternating current; specify voltage on direct current.

NUMBERS	F450-M	F650-M	F1050-M
Gross capacity, gallons	4	6	10
Churning capacity, gallons	2	3	5
Motor, horse power	1-8	1-6	1-4
Height over all, inches	31	34	36
Weight, each, crated	70	80	100
Each, with Motor, Belting and Cord	$67.50★	75.00★	90.05★
NUMBERS	F450-W	F650-W	F1050-W
Each, without Motor, Belting and Cord	$22.50★	25.00★	32.50★

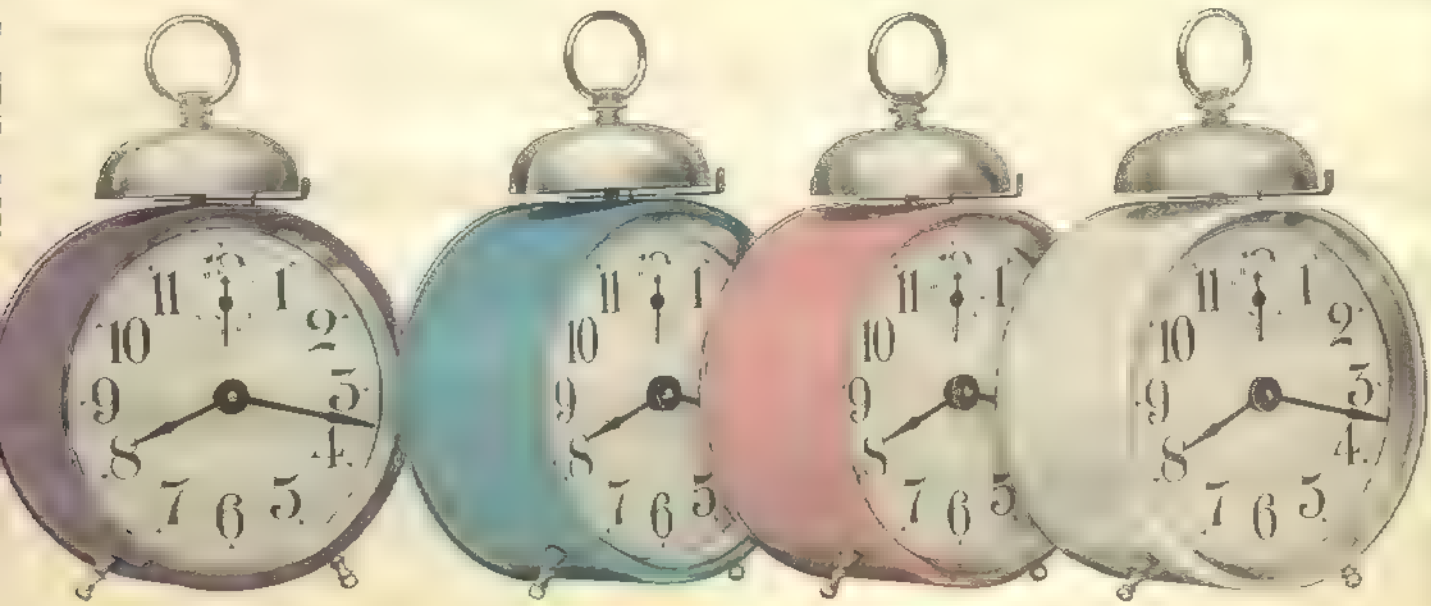
★ Items Marked Thus ★ Are Shipped From Factory Only.

NEW HAVEN ENAMELED ALARM CLOCKS

DURABLY ENAMELED in White, Blue, Pink and Lavender. Can be kept CLEAN AND BRIGHT by wiping with a damp cloth. Trimmings Heavily Nickeled. Seamless Cases of Solid Brass

No. 802, per doz. $42.00 — No. 803, per doz. $42.00 — No. 804, per doz. $42.00 — No. 805, per doz. $42.00

Height, 5¾ inches; dial 3½ inches, convex glass—**SLUMBER STOPPER**. One-day alarm. Has silent switch on top.



No. 806, per doz. $28.80 — No. 807, per doz. $28.80 — No. 808, per doz. $28.80 — No. 809, per doz. $28.80

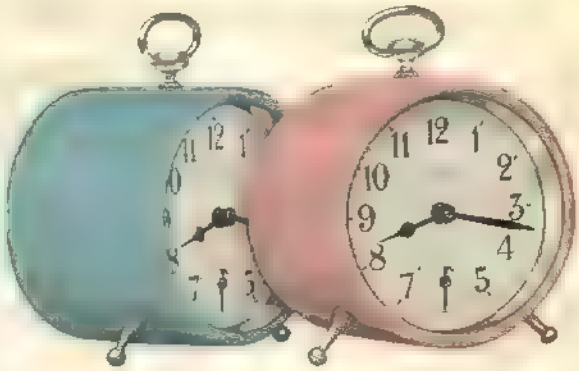
Height, 6½ inches; dia., 4 inches. **JUMP**—One-day alarm, with shut-off switch.

NEW HAVEN ENAMELED ALARM CLOCKS

DURABLY ENAMELED in White, Blue Pink and Lavender Can be kept CLEAN AND BRIGHT by wiping with a damp cloth Trimmings Heavily Nickeled. Seamless Cases of Solid Brass

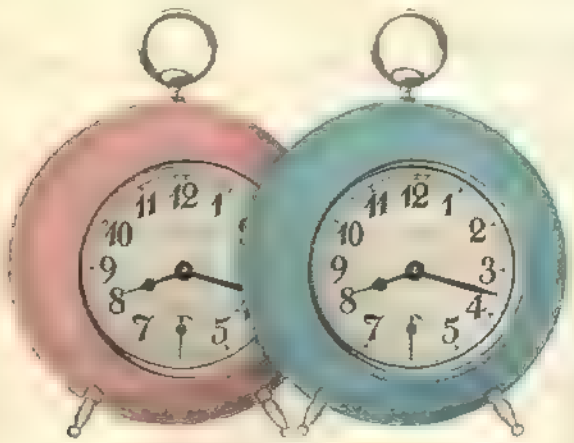
One day, alarming intermittently for five minutes in 20-seconds intervals. Have silent switch.

No. 810, per doz. $57.60 No. 811, per doz. $57.60



No. 812, per doz. $57.60 No. 813, per doz. $57.60

Height, 3¼ inches, dial, 2 inches—**JUNIOR TATTOO**—The smallest practical alarm clock made

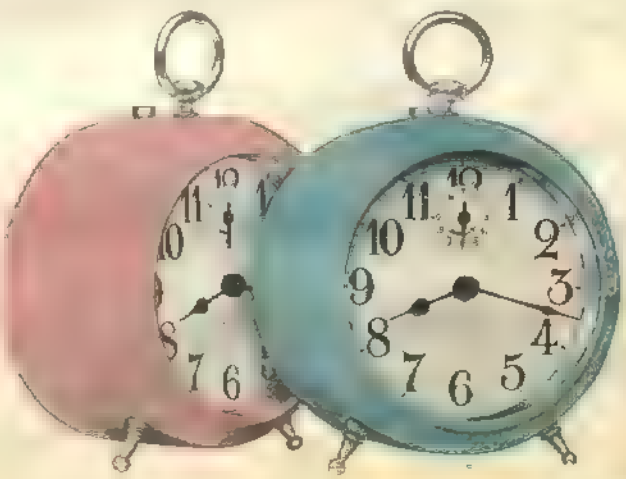


No. 814, per doz. $57.60 No. 815, per doz. $57.60

No. 816, per doz. $57.60 No. 817, per doz. $57.60

Height, 4¼ inches, dial, 2 inches **CIRCLE**—A unique, globe shaped design

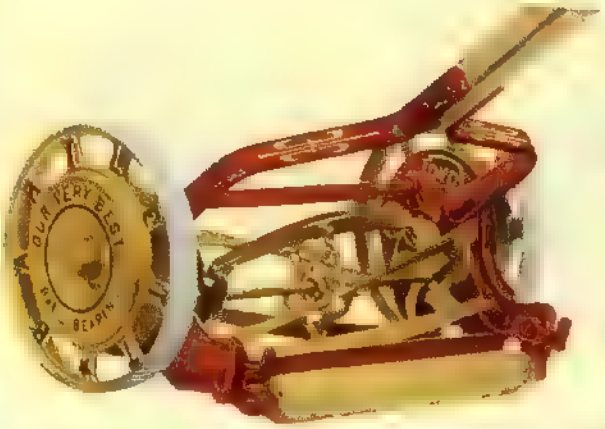
No. 818, per doz. $58.80 No. 819, per doz. $58.80



No. 820 per doz. $58.80 No. 821, per doz. $58.80

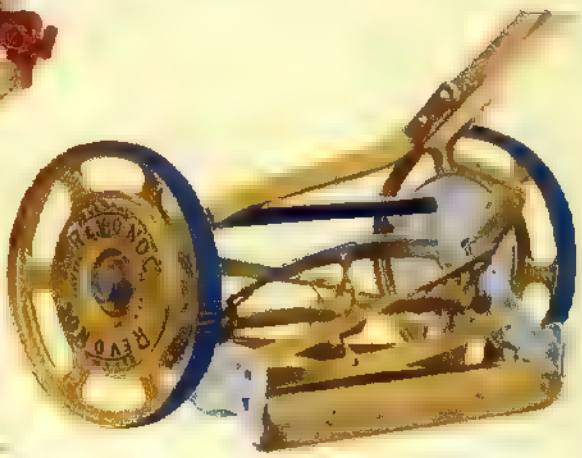
Height, 4 inches dial 2 inches **BROWNIE**—A little alarm clock of special design

LAWN MOWERS



OLD VERY BEST Bartlett
Ball Bearing

No. E115
No. E117
No. E119
No. E121

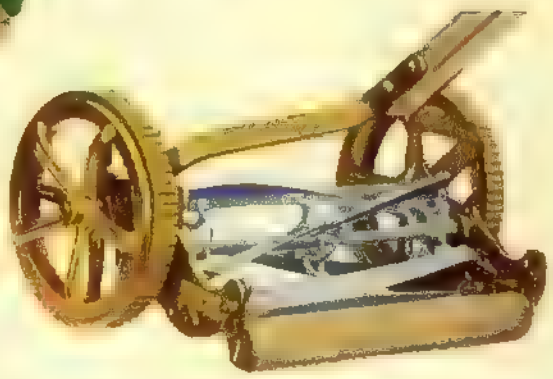


REVO-NOC
Ball Bearing

No. E214
No. E216
No. E218
No. E220

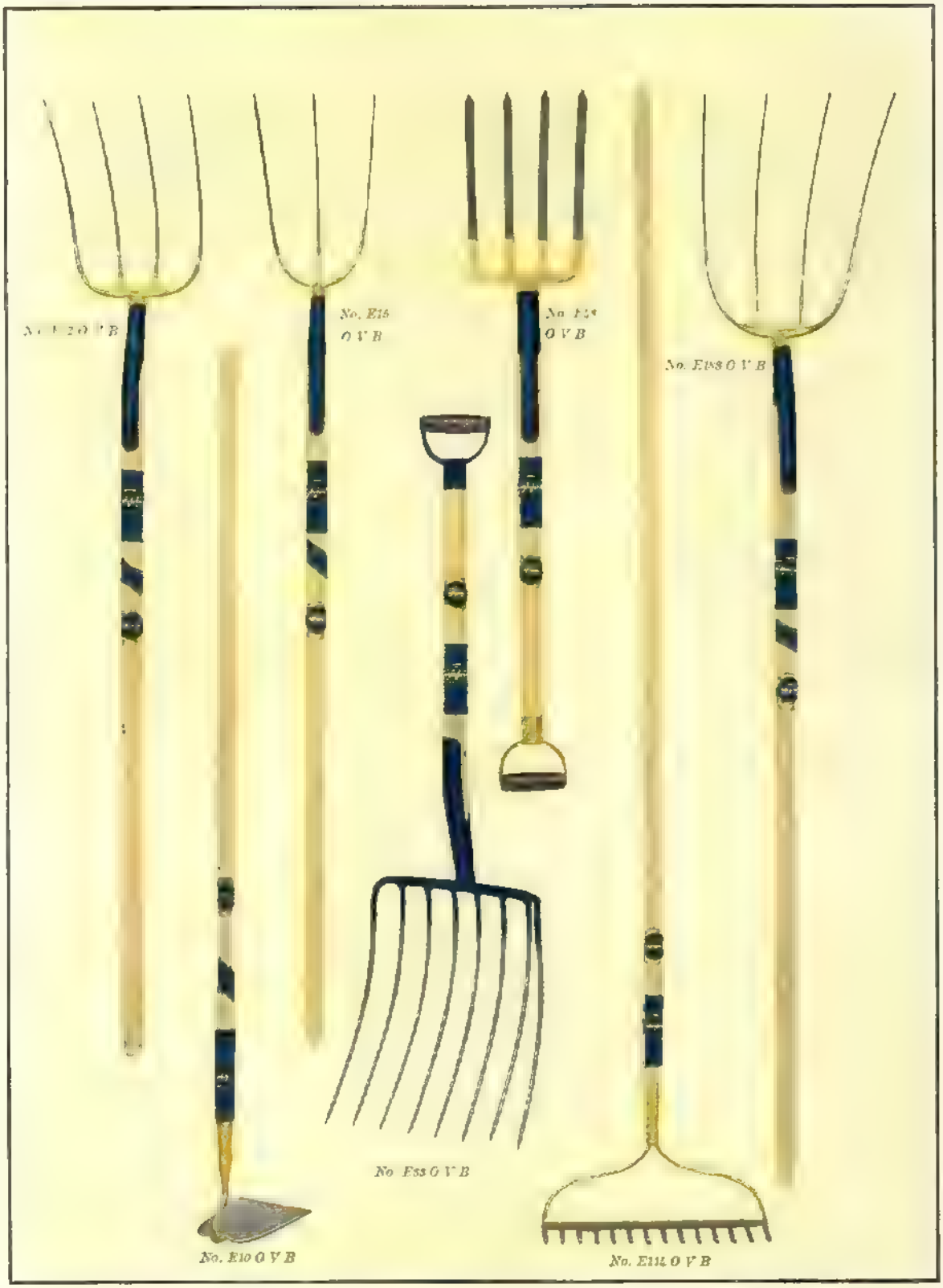
Il-a-noy
Ball Bearing

No. E214
No. E216
No. E218
No. E220



Cruso
Ball Bearing

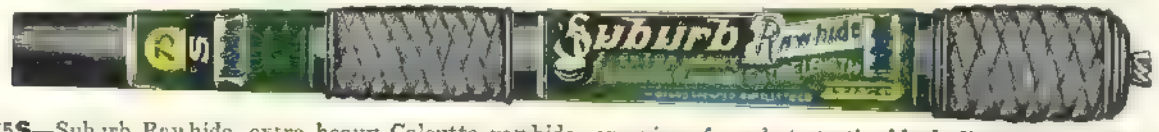
No. E214
No. E216
No. E218


No. E15
O V B
No. E10 O V B
No. E33 O V B
No. E114 O V B

HIB-SPE-BAR CALCUTTA RAWHIDE WHIPS

No. R25WB—Won Back Rattan, black thread covered, black duck lined, spar finish, two long patent ring buttons, Boston snap, 6 feet . . . . . per dozen $5.50

No. R50BB—Blue Bell Rawhide, made from Calcutta rawhide, black linen lined, satin finish, stocked, loaded, three large patent ring buttons, Japan cap, Philadelphia snap, 6 feet . . . . . per dozen $9.00



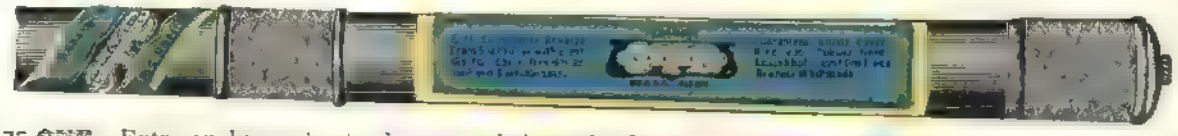
No. R75S—Suburb Rawhide, extra heavy Calcutta rawhide, one piece from butt to tip, black, linen lined, oiled waterproof finish, loaded, two extra long, six stitch hand-worked black linen buttons, japanned cap, braided Philadelphia snap, 6 feet . . . . . per dozen $14.50

No. R100I—Illanoy Rawhide, Dolly Varden center, one solid piece rawhide entire length, black, linen and wire woven under cover, improved waterproof oil finish, loaded vellum tanned reinforced loop, two extra long double 8-stitch hand made linen buttons, braided Philadelphia snap, 6 feet . . . . . per dozen $18.00

No. R125I—Illanoy Rawhide, Dolly Varden, one solid piece rawhide entire length, black, linen and wire woven under cover, improved waterproof oil finish, loaded vellum tanned reinforced loop, two extra long double 8-stitch hand made linen buttons, braided Philadelphia snap, 6½ feet . . . . . per dozen $27.00

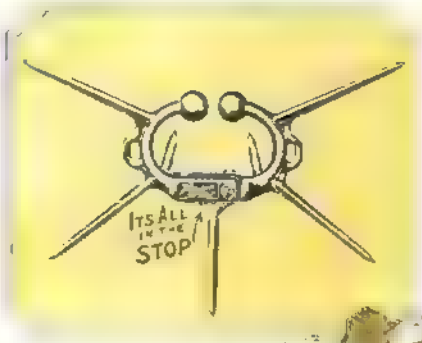
No. R150 REV-O-NOC—Extra quality, rawhide center full length of whip, extra finish double cover and woven wire under cover, two combination buttons, cat-gut loop, Philadelphia snap.

Lengths, ft.	6	6½	7
Per dozen	$24.00	27.00	30.00



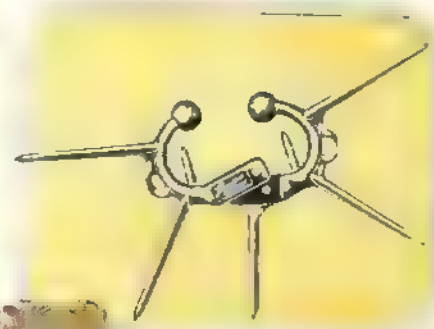
No. R175 CYCLE—Extra quality and extra heavy rawhide, entire length of whip extending through rubber cap, extra fine finish 6 plait black thread covered, wire thread lined and extra rubber lining, 2 six-stitch hand made braided buttons, cat-gut loop, reinforced with braided buckskin snap.

Lengths, ft.	6	6½	7
Per dozen	$33.00	36.00	39.00



Porcupine WEANER

REG. U.S. PAT. OFF.



Effective—It causes the cow to resist attempts at sucking; other types don't.

Humane—Prevents constant annoyance to cow during weaning period.

Safe—Spacing of ball tips controlled by the Stop prevents ulceration from pinching.

Sanitary—Permits calf to graze without entanglement of dirt or trash.

Non-rusting, adjustable ball-tipped nose ring, with seven smooth prongs. Fastened by steel cotter

FOR CALVES

No. 131—With closed [illegible] in. nose ring [illegible] in., w't per doz. 2 lbs., per dozen $6.00

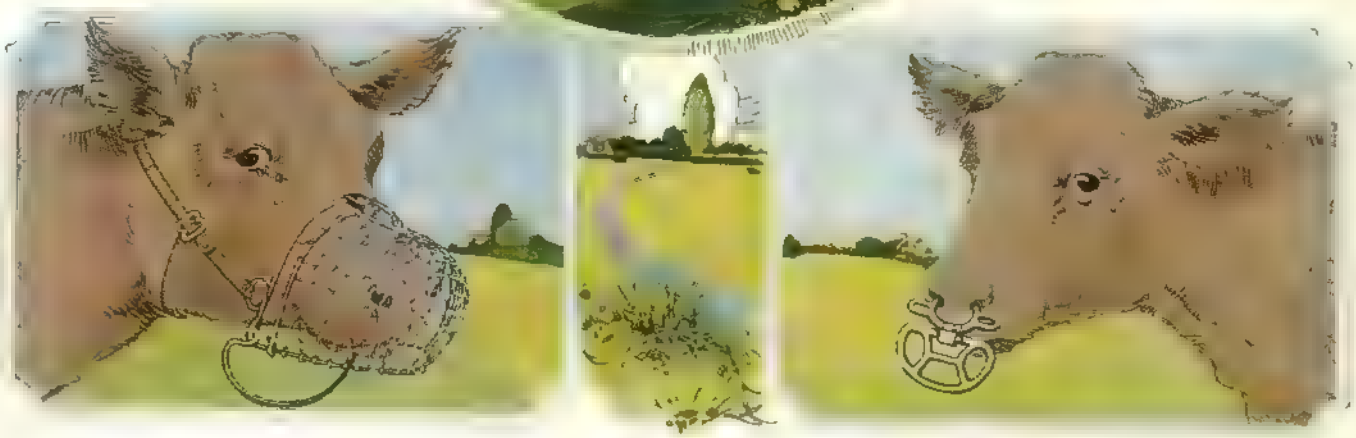
FOR YEARLINGS

No. 132—With closed [illegible] in., nose ring [illegible] in., w't per doz. 2¾ lbs. per dozen $8.00

FOR COWS

No. 133—With closed [illegible] in., nose ring [illegible] in., w't per doz. 4 lbs., per doze[illegible] $9.60

ONE DOZ. IN A BOX



SHAW'S Patent, Carroll, Tinned Wire Muzzle, Web Halter.

No. 1—For calves, w't per doz. 9 lbs. ....per dozen $7.20

No. 2—For yearlings, w't per dozen 11 lbs., per dozen $8.40

No. 3—For cows and horses, w't per doz. 16 lbs., per dozen $9.60

NOS. 1 AND 2, ONE DOZEN, NO. 3, HALF DOZEN IN A CARTON

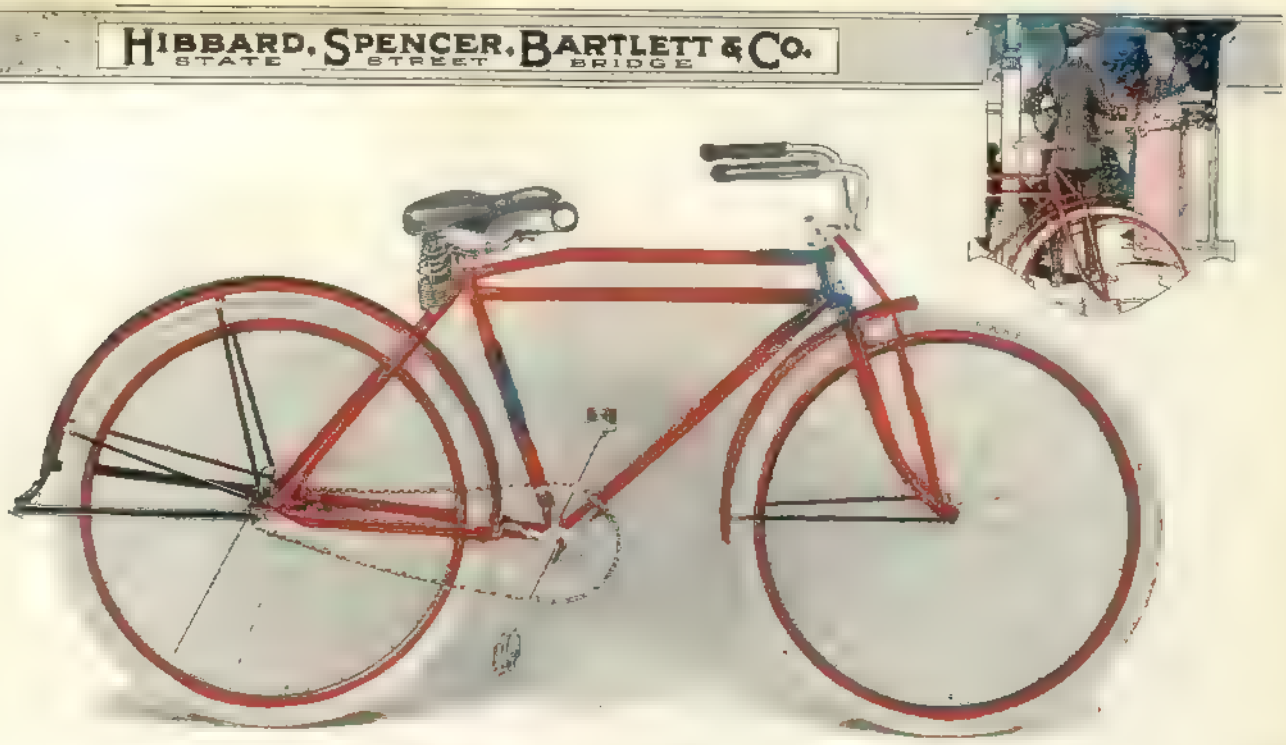
KANT SUK, Tinned Malleable Iron.

"Kant Suk" Calf Weaners are absolutely safe, cannot injure cow or do injury to calf. Permits calf to graze, eat or drink, still effectually prevents sucking of cow. Can be used for tying or leading calves, also cows.

No. 111—For calves, w't per doz. 3½ lbs., dozen $7.20

No. 112—For cows, w't per doz. 5 lbs., dozen 7.20

ONE DOZEN IN A BOX



REVONOC ROOKIE BICYCLES

Frame—19 gauge 1 in. steel tubing, double bar, re-inforced at all joints.
Fork—Oval Crown, moto-like truss pattern.
Hanger—One piece, drop forge Diamond pattern 7 in. crank.
Sprocket—26 tooth, Diamond design, rear 9 tooth.
Front Hub—New Departure, turned from solid bar of steel.
Chain—1 in. pitch, twin roller pattern.
Mudguards—Front and rear enameled to match frame.
Rims—No. 1043 one piece, Rock Elm, enameled to match frame.
Handle Bars—No. 1100.
Saddle—No. 200 HIBBARD top notch.
Grips—No. 1409 leather Bull Dog pattern.
Pedals—Torrington Improved rubber, No. 1501.
Stand—No. 1009 furnished, enameled in black.
Tires—No. T110 HIBBARD Rookie, size 28×1½.
Finish—Carmine, Dark Blue, sun-burst head and seat post mast.

No. F300—20-22 in. frame **stripped model**, with N. D. brake, guards and stand★ ..... each **$47.40**

No. T310—20-22 in. frame, equipped with saddle, handle bars, pedals, brake, guards and stand, **without tires**, each **$54.40**

No. T320—30-22 in. frame, equipped complete with saddle, handle bars, pedals, No. T100 HIBBARD Rookie Tires, brake, guard and stand ..... each **$60.50**

No. T350—20-22 in. frame, equipped complete with saddle, handle bars, pedals, No. 113 Il a-noy single clincher tires, brake, guards and stand ..... each **$64.00**

Tool Bag or Tools not Included with Above Models

Extra for steel lined clincher rims on models No. F300 and No. T310 ..... each **$0 80**

Extra for tool bag and tools ..... each **2.10**

Weight, packed for shipment, 65 lbs.

★ **Items Marked Thus ★ are Shipped from Factory Only.**

"MOTTO" Holiday Ribbonette

The new Christmas Tie that has taken the country by storm . . . . .

Retails 6 yds. for 10 cents

"Motto" Holiday Ribbonette is made of the highest grade mercerized yarns and imported French gilt threads. It is printed with appropriate sentiments that have an undeniably strong appeal, particularly to women.

"Motto" Holiday Ribbonette is strong enough for tying up even heavy packages, yet so dainty that women give it preference to silk ribbons retailing for 5c and 10c a yard.

You will easily double your sales on Christmas tying Material, for a great many shoppers will take a full selection of designs or "mottos" where they would ordinarily buy only one bolt of other material.

Three Attractive Designs — Three Assorted Mottos

"Motto" Holiday Ribbonette

Comes on regular 6 yard ribbon blocks that retail for 10c each, offering your customers an unusually attractive tying material at a very moderate price. A big turnover is assured you on this item with a very liberal margin of profit.

$8.75 Per Half Gross Box

Subject to regular Trade Discount

Place your order early

N-24744 "Motto" Holiday Ribbonette, packed in handsome display box containing ¼ gross 6 yard bolts. Per ½ gross box . . . $8.75.

THIS beautiful display carton makes "Motto" Holiday Ribbonette a self-selling proposition. It is the most attractive display that has ever been designed for an article of this kind.

Display Card Free

Below is shown a Reproduction of the Display Card which is supplied Free with each carton of "Motto" Holiday Ribbonette.

Increase Your Holiday Business

WITH

"Motto" Holiday Ribbonette

See Preceding Page for Price.

CADILLAC

ELECTRIC VACUUM CLEANER

Four 1922 Models retailing as low as $39.50

Cadillac Nap Insurance

When you sell a Cadillac Electric Vacuum Cleaner, you automatically insure the rugs and carpets of your customers against wasteful destruction and removal of nap.

All vacuum cleaners clean, but the Cadillac—with oversize 1/5 H.P. Motor and friction driven brush—cleans without doing violence to the nap.

A Cadillac sale is, therefore, a form of service to your trade for the wise buyer can be impressed now as never before with the economical side of vacuum cleaning.

Cash in on this very important nap-saving feature of Cadillac operation. Your demonstrations to prove your claim to skeptical customers can be made very spectacular. We will show you how. Nap Insurance will be talked about more tomorrow than it is today and the Cadillac is leading the way.

Our sales co-operative plan is worth your inquiry.

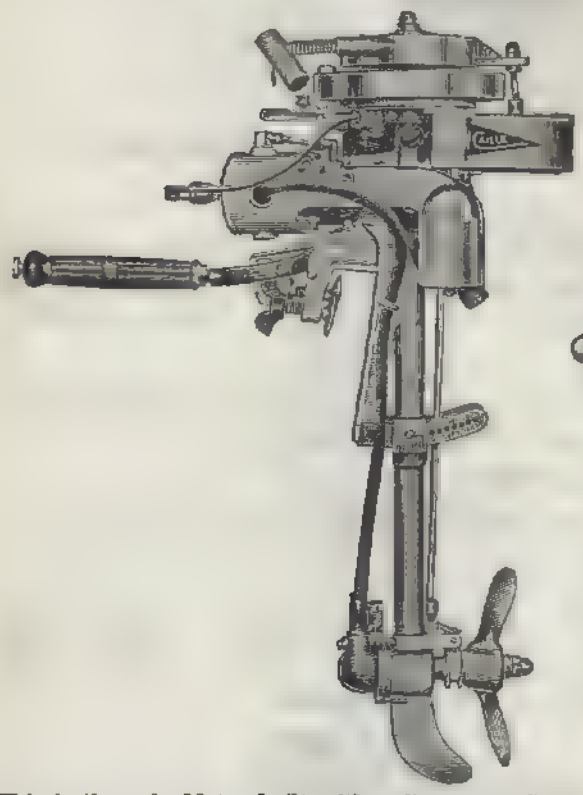
CLEMENTS MFG. CO.

610 Fulton Street, CHICAGO

CANADIAN OFFICE: 78 Duchess St., Toronto, Ont.

ROWBOAT MOTORS

CAILLE FIVE-SPEED



This is the only Motor built with a five speed Control; 2 speeds ahead; a trolling speed and a full speed at which the ordinary rowboat will be driven at about 8 miles per hour. A slow reverse is furnished together with full reverse. In neutral position, the motor runs idle while the boat lies still. This is the only motor equipped with neutral position. Can be reversed immediately without first going into a speed ahead. Equipped with mechanical starter. The starting device is furnished only with the 5 Speed Models. The extension shaft and adjustable horn permits adapting the motor to a high stern boat or to a boat with the stern cut at an acute angle.

Can be used in either fresh or salt water without any change in equipment. Parts are machined to measurements or limitations of thousandths of an inch according to S. A. E. Standard. A Cord is attached to each motor, requesting the ultimate purchaser to return the cord to the factory to register the motor so that they have on file the name and address of the owner of every motor, each motor being identified by the serial number. Each motor is fully guaranteed by the manufacturers.

SPECIFICATIONS

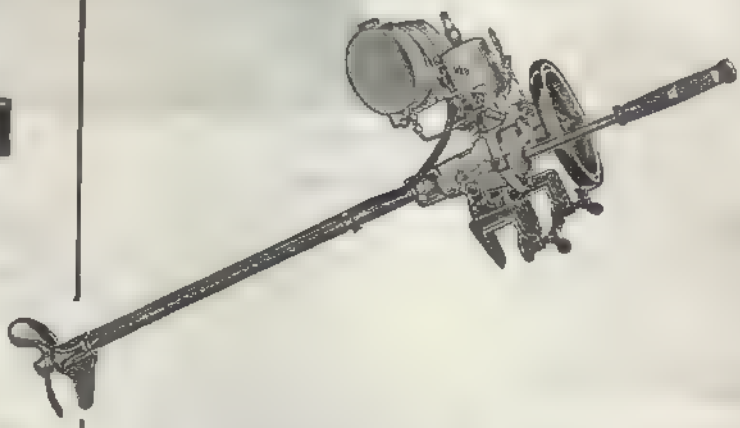
Bore 2⅛ in., Stroke 2½ in., 750 R. P. M., 2 H. P.
Propeller 9½ in. diamter, 12 in. pitch.
Built-in Flywheel Magneto.
Weight each 85 lbs.
Weight packed for shipment 105 lbs.

No. T7640—No starter with Magneto Ignition, each $198.00

No. T7641—White starter Magneto Ignition only, each $234 00

ONE IN A CASE

CAILLE LIBERTY DRIVE



This is the only genuine tilting motor on the market. Will tilt automatically when passing over shoals, shallows or sunken obstructions. A strut or skeg protects the propeller from damage. The motor may be tilted by pressing down on the steering handle or tiller. Equipped with a weedless propeller. Weeds may wrap around propeller or shaft and can be quickly thrown off by tilting the motor and allow the propeller to revolve free of water for a few seconds. Equipped with knapsack form of fuel tank which is practically indestructible. Machined as carefully as the 5 Speed model. Not equipped with starting device. These motors will drive a boat faster than others due to direct drive from Crank shaft to propeller without passing power thru the medium of gears. Will give a speed of 2 to 9 miles per hour in a 16 ft. rowboat in quiet water. Furnished with battery or magneto ignition. Equipped with conventional type of Berling Magneto. This motor is fitted with bracket for square stern, adjustable bracket for pointed stern may be had on special order at an additional charge.

The Liberty Drive Motor develops about 2 H. P. The motor, complete, weighs 72 lbs. It can be taken apart and carried in two sections, if desired. It comes to you carefully crated and ready to run. It is fully guaranteed.

Weight each 75 lbs.
Weight Packed for shipment 105 lbs.

No. F7642—With Battery Ignition★ ....each $135.00

No. F7643—With Magneto Ignition★ ....each 171.00

Salt Water Fittings, extra★ .....each 11.70

ONE IN A CASE

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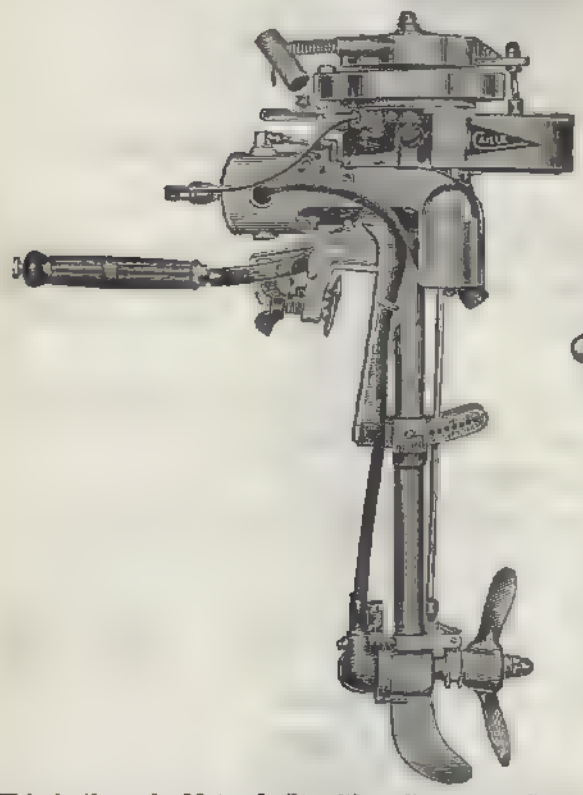
ROWBOAT MOTORS

CAILLE FIVE-SPEED



This is the only Motor built with a five speed Control; 2 speeds ahead; a trolling speed and a full speed at which the ordinary rowboat will be driven at about 8 miles per hour. A slow reverse is furnished together with full reverse. In neutral position, the motor runs idle while the boat lies still. This is the only motor equipped with neutral position. Can be reversed immediately without first going into a speed ahead. Equipped with mechanical starter. The starting device is furnished only with the 5 Speed Models. The extension shaft and adjustable horn permits adapting the motor to a high stern boat or to a boat with the stern cut at an acute angle.

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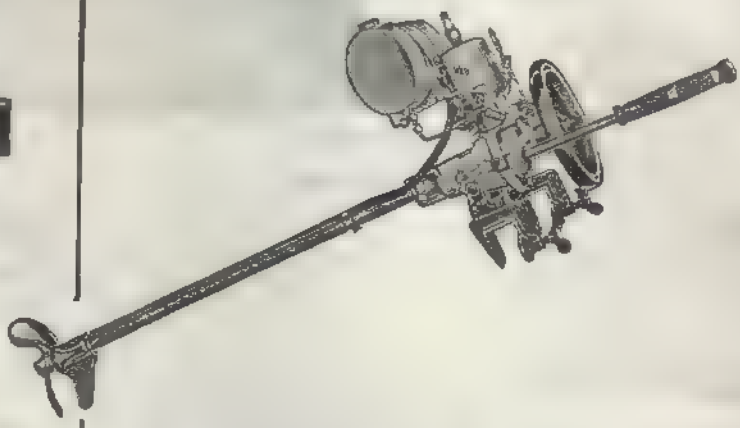

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ROWBOAT MOTORS

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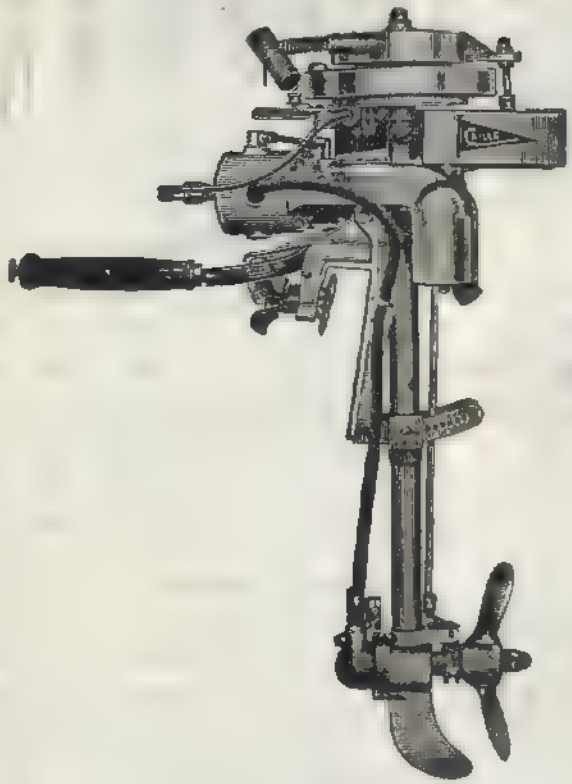

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Built-in Flywheel Magneto.
Weight each 85 lbs.
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No. T7640—No starter with Magneto Ignition, each $198.00

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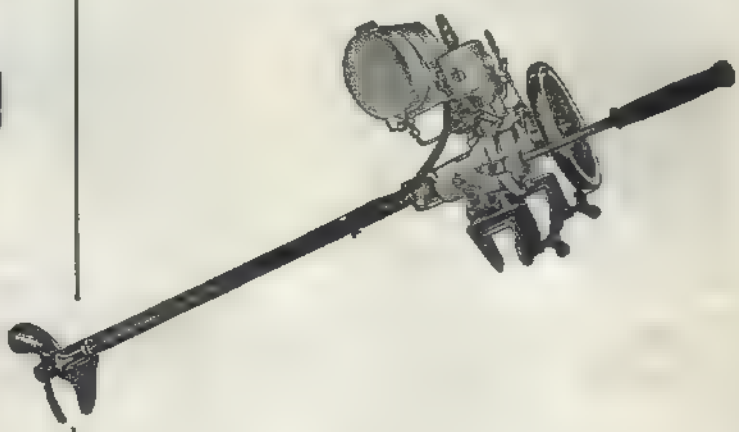

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No. F7643—With Magneto Ignition★ ....each 171.00

Salt Water Fittings, extra★ .....each 11.70

ONE IN A CASE

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ROWBOAT MOTORS

CAILLE NEPTUNE

A substantially built rowboat motor of standard design to meet the ideas of the conservative buyer.

Heavy Frame with two thumb screws clamps motor to rowboat in a minute and is adjusted to most any height, thickness or pitch of stern.

Motor is Reversible and will run either forward or backward. A turn to right starts motor; to reverse, turn to left, with a little practice can be reversed on spark.

Motor Speeds—From 150 to 800 R. P. M. controlled by timer lever extending under fly wheel. Press button on timer instantly stops motor.

Solid Bronze Propeller of semi-weedless type protected by strut.

All Under Parts of Bronze. The Only Metal Which is Impervious to Salt Water Corrosion.

Plunger Pump equipped with strainer, located on gear housing keeps motor cool in hottest weather.

Water cooled aluminum muffler and exhaust manifold cast in one unit.

Gasoline Tank of heavy tern plate, reinforced, with seams well soldered. Shut-off cock between gas tank and carburetor.

All Bearings of Phosphor Bronze, same formula as specifed by government.

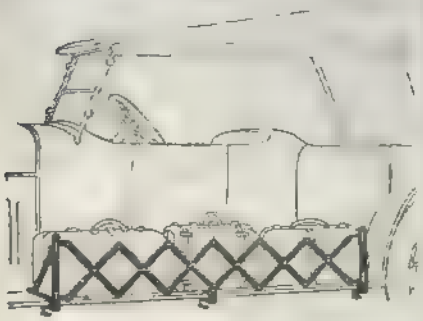
Chrome Nickel Steel Gears contained in water tight housing, packed with grease, shipping w't 100 lbs.

No. F7644—Battery ignition, with waterproof battery and coil box complete, each★ ..... each **$170.00**

No. F7645—Magneto built in fly wheel★ ..... each **190.00**

ONE IN A CRATE

LUGGAGE CARRIERS

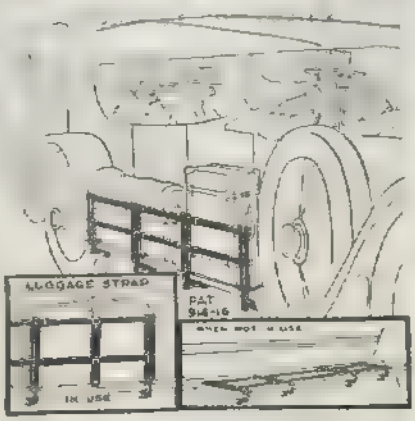


Made of heavy steel, 1 in. wide, ⅛ in. thick. Does not rattle and cannot break under heaviest loads. Adjustable to any length of running board. Finished in black, heat baked enamel which is proof against rust. Will fit very compact in tool box or under seat when not in use.

No. 5896—W't each 17 lbs., each **$3.90**

ONE IN A CARTON

LUGGAGE CARRIERS



MARQUETTE

Fits any car. Can be adjusted to any length running board. Folds down neatly when not in use. Well made from the best grade of steel, black japanned. Nothing to break or get out of order.

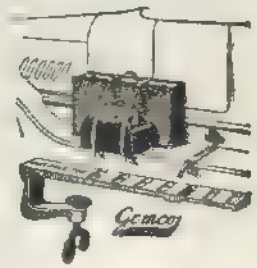
No. 5897—5 ft., size adjustable from 36 in. to 60 in., w't each 6 lbs., each **$5.60**

No. 5898—5 ft., size furnished complete with 3 straps, w't each 9 lbs., each **$7.00**

No. 5899—4 ft., size adjustable from 27 in. to 36 in., w't each 6 lbs., each **$5.00**

ONE DOZEN IN A CRATE

GEMCO LUGGAGE CARRIER



No. 5900—Fastens securely to the running board of any automobile by means of two thumb screws. Suit cases, bags or packages of any size are quickly strapped into place or removed as desired. They do not touch body of the car, scratch or rattle, w't per pair, 4 lbs., per set, complete with straps **$4.90**

ONE SET OF TWO IN A BOX

★ Items Marked Thus ★ Are Shipped From Factory Only.

ROWBOAT MOTORS

CAILLE NEPTUNE

A substantially built rowboat motor of standard design to meet the ideas of the conservative buyer.

Heavy Frame with two thumb screws clamps motor to rowboat in a minute and is adjusted to most any height, thickness or pitch of stern.

Motor is Reversible and will run either forward or backward. A turn to right starts motor; to reverse, turn to left, with a little practice can be reversed on spark.

Motor Speeds—From 150 to 800 R. P. M. controlled by timer lever extending under fly wheel. Press button on timer instantly stops motor.

Solid Bronze Propeller of semi-weedless type protected by strut.

All Under Parts of Bronze. The Only Metal Which is Impervious to Salt Water Corrosion.

Plunger Pump equipped with strainer, located on gear housing keeps motor cool in hottest weather.

Water cooled aluminum muffler and exhaust manifold cast in one unit.

Gasoline Tank of heavy tern plate, reinforced, with seams well soldered. Shut-off cock between gas tank and carburetor.

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Chrome Nickel Steel Gears contained in water tight housing, packed with grease, shipping w't 100 lbs.

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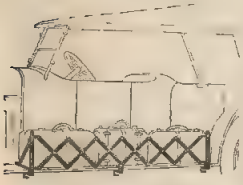
ONE IN A CRATE

LUGGAGE CARRIERS

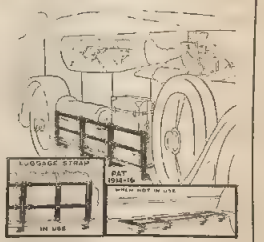


Made of heavy steel, 1 in. wide, ⅛ in. thick. Does not rattle and cannot break under heaviest loads. Adjustable to any length of running board. Finished in black, heat baked enamel which is proof against rust. Will fit very compact in tool box or under seat when not in use.

No. 5896—W't each 17 lbs., each $3.90

ONE IN A CARTON

LUGGAGE CARRIERS



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Gasoline Tank of heavy tern plate, reinforced, with seams well soldered. Shut-off cock between gas tank and carburetor.

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Chrome Nickel Steel Gears contained in water tight housing, packed with grease, shipping w't 100 lbs.

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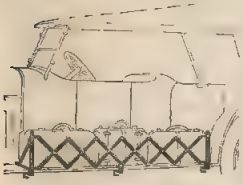

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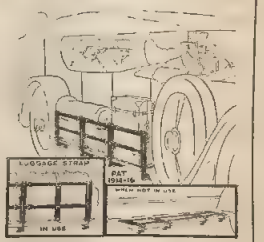
ONE IN A CARTON

LUGGAGE CARRIERS



MARQUETTE

Fits any car. Can be adjusted to any length running board. Folds down neatly when not in use. Well made from the best grade of steel, black japanned. Nothing to break or get out of order.

No. 5897—5 ft., size adjustable from 36 in. to 60 in., w't each 6 lbs., each $5.60

No. 5898—5 ft., size furnished complete with 3 straps, w't each 9 lbs., each $7.00

No. 5899—4 ft., size adjustable from 27 in to 36 in., w't each 6 lbs., each $5.00

ONE DOZEN IN A CRATE

GEMCO LUGGAGE CARRIER

No. 5900—Fastens securely to the running board of any automobile by means of two thumb screws. Suit cases, bags or packages of any size are quickly strapped into place or removed as desired. They do not touch body of the car, scratch or rattle, w't per pair, 4 lbs., per set, complete with straps **$4.80**

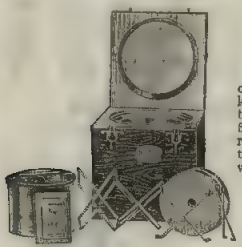
ONE SET OF TWO IN A BOX

★ Items Marked Thus ★ Are Shipped From Factory Only.

FIRELESS COOKERS

CALORIC

Oak, cabinet frame, lined with heavy 18 gauge seamless aluminum; will not discolor from the effects of steam; heavy steel cover equipped with self stopping hinges and patented wire locks which hold cover down so tightly that there are no cracks or crevices through which the steam can escape. Equipped with a ventilating valve which automatically lets out all of the excess steam, but retains the necessary heat. Compartments and utensils are made of heavy 18 gauge seamless aluminum. Extra quality soapstone radiators which possess superior heat retaining qualities. All vessels are fitted with wire cover clamps; handles riveted on covers with aluminum rivets. Insulation is absolutely fireproof and will retain the cooking heat, which it takes only a few minutes to generate.



Equipped with one 8 qt. seamless aluminum kettle; two large radiators; one 2 inch and one 5 inch baking rack; one radiator rack; one pair tongs. Height 15 in.; width 15 in.; length 15 in.

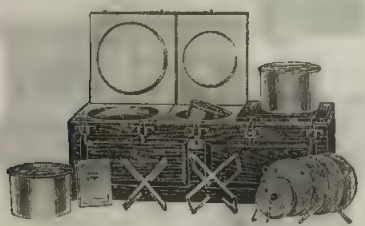
	Each
No. 51—Without metal legs	$45 45
No. 51A—With metal legs	53 55

One in a crate; weight each 60 lbs.

Equipped with one 12 qt. seamless aluminum kettle; two large radiators; one 2 inch and one 5 inch baking rack; one radiator rack; one pair tongs. Height 16¼ in.; width 16¼ in.; length 15 in.

	Each
No. 56—Without metal legs	$51 00
No. 56A—With metal legs	57 75

One in a crate; weight each 68 lbs.



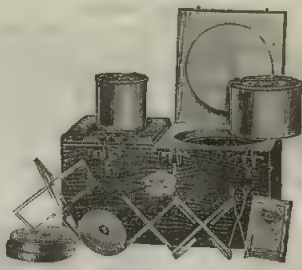
Equipped with one 8 qt. double boiler; one 12 qt. kettle; one set triple, all pure seamless aluminum; six large radiators; one 2 in., and one 5 in. baking rack, two radiator hooks, two radiator racks. Heigh. 17 inches; width 17 inches; length 46 inches.

	Each
No. 59—Without metal legs	$129 00
No. 59A—With metal legs	135 75

One in a crate; weight each 140 lbs.

FIRELESS COOKERS

CALORIC



Equipped with one 8 qt. seamless aluminum double boiler; one 8 qt. seamless aluminum kettle; one 2 in., and one 5 in., baking rack; one pair tongs; four large radiators; two radiator racks. Height 15 inches; width 15 inches; length 29 inches.

	Each
No. 61—Without metal legs	$83 25
No. 61A—With metal legs	90 45

One in a crate; weight each 105 lbs.

Equipped with one 8 qt. seamless aluminum double boiler; one 12 qt. seamless aluminum kettle; one 2 inch and one 5 in., baking rack; one pair tongs; four large radiators; two radiator racks. Height 16¼ inches; width 16¼ inches; length 32 inches.

	Each
No. 62—Without metal legs	$87 75
No. 62A—With metal legs	95 40

One in a crate; weight each 120 lbs.

METAL LEGS

FOR CALORIC FIRELESS COOKERS

Made in sizes to fit the one and two compartment cookers. By the use of these legs the cooker is raised to the proper height for operating.

	Per Set
No. ML Weight per set about 8 lbs.	$7 95

One set in a carton.

EXTRA RADIATORS

FOR FIRELESS COOKERS

	Soapstone.			Cast Iron.	
Nos.	R7	R8	R9	CR17	CR18
Diameter, ins.	7	8	9	7	8
Weight each, lbs.	5	7	7	6	8
Each	$1 65	1 65	1 74	1 95	2 40

Packed loose.

D 6

FIRELESS COOKER ACCESSORIES

These insets are made from heavy sheets of pure aluminum, seamless, and have self-locking covers.

TRIPLE INSETS

Set consists of three pails that fit together in one compartment of a fireless cooker. Can be used in any make having 10 inch hole or larger. Can also be used for cooking several things at one time over one burner of a gas or oil stove. Capacity of each pail 2 quarts; diameter of three together 9½ inches; height 6¾ ins.

Per Set

No. 3—Set of three pieces; weight per set 1¾ lbs..... $7 65

Packed loose.

DOUBLE INSETS, ROUND

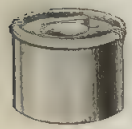
Set consist of two pots that fit together in one compartment of a fireless cooker. Can be used in any make having 10 inch hole or larger. Can also be used for cooking different things at one time over one burner of a gas or oil stove. Capacity of each pot 4 quarts; diameter of each, at top 9¼ ins., at bottom 9 ins., depth of each 8¾ inches.

Per Set

No. 2—Set of two pieces; weight per set 1¾ lbs..... $5 25

Packed loose.

ROUND INSETS



Fits in compartment of a fireless cooker or can be used on top of any kind of stove.

No.	8
Capacity, qts	8
Diameter, in	9
Height, in	7¼
Weight each, lbs	1¾
Each	$4 50

Packed loose.

FIRELESS COOKER POTS

Aluminum covers with steel handle securely riveted on, cover held in place with brass clips.

Nos.	WE802	WE804	WE362	WE364
Cap., qts	2	4	4	8
Dia. top, ins	7¼	9¼	7⅝	9¼
Dia. bottom, ins	7¼	8⅜	7¼	8⅜
Depth, ins	2¾	3⅛	5⅝	7⅛
Wt. per doz., lbs	9½	11½	13	15
Per Dozen	For Prices see page 1393.			

Packed loose.

FIRELESS COOKER THERMOMETERS

For Fireless Cookers.

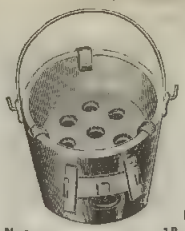
A tested mercury instrument for accurately gauging the correct cooking heat of radiators, soapstone or metal, used in fireless cookers. Black oxidized metal scale. Length 6½ inches; width 2 inches.

Each

No. 150—Weight each 4 ozs..... $4 35

One in a cardboard box.

CLAY FURNACES



Made of fire brick, covered with sheet steel on outside. Perforated loose bottom sliding draft door in front. Heavy ears and wire bail. For outside use with charcoal.

BLACK

Nos.	1B	2B	3B	4B	5B
Height, in	11½	11	10½	9½	9
Diam. top, in	13½	13½	12½	11½	10½
Wt. each, lbs	45	37	26	21½	19
	$1 15	*95*	*85*	*75*	*65*
Each	+4 05	+3 45	+3 15	+2 85	+2 70

Crated.

CHARCOAL FURNACES

Made of cast iron; black japanned finished; portable type. Has draught stop and loose grate; burns only charcoal. Especially adapted for heating, smoothing irons and for broiling purposes.

Nos.	1	2	3
Height, inches	9½	8½	8
Dia. top, inches	12½	11½	10
Wt. each, lbs	24	20	16
Each	+$5 85	+4 80	+3 75

One in a crate.

OIL LAMP STOVES

SUNLIGHT

Black japanned cast iron oil fount and top grate; bright tin chimney with mica windows. Furnished with 4-inch flat wicks.

One Burner.

Per Dozen

No. 11—Height 8½ inches; top grate 3½x6 inches..... $37 05

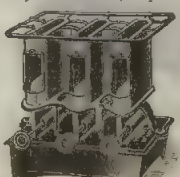
Half dozen in a crate; wt. per doz. 46 lbs.

Two Burner.

Per Dozen

No. 12—Height 8½ inches; top grate 5¾x6 inches..... $71 25

Half doz. in a crate; wt. per doz. 74 lbs.



Three Burner.

Per Dozen

No. 13—Height 9 inches; top grate 6x8½ inches..... $90 00

Third dozen in a crate; weight per dozen 112 lbs.

+Clay Furnaces—F.O.B. Louisiana Factory Only.
+Charcoal Furnaces—F. O. B. Alabama Factory Only.

COLLINS' HONEY SCOTCH

2Y2214 — Delicious butterscotch chewing candy. Contains honey and best quality ingredients. 10 pieces in box. 30 boxes in counter display carton. Carton **$1.06**

POP CORN BALL

Assrd. pink and white, each with fancy color ribbon.

2Y2211—Ribbon pop corn ball, each ball tinted with fancy color ribbon. Assrd. pink and white. 200 balls in case.
CASE (200 balls) To come

"CRACKER JACK" PRIZE PACKAGE

2Y726—The best known, widest advertised popcorn confection. Prize in each package. 50 in case. Case, **$1.88**

"CAMPFIRE" MARSHMALLOWS

Soft and fluffy, made from powdered sugar, vanilla flavored, bright white and clean. Each pkg. wrapped in glassine making it airtight.

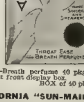
3 Oz. Pkg—

	Doz.
2Y1899—1 doz. in box	**$0.90**
2Y19—2 doz. in case	**.87½**

6 Oz. Pkg—

2Y1903—1 doz. in box	1.70
2Y1906—2 doz. in case	1.67½

"SEN-SEN" BREATH PERFUME



2Y5434—Sen-Sen perfume 60 pkgs. in transparent front display box.
BOX of 60 pkgs. **$1.45**

CALIFORNIA "SUN-MAID" SEEDLESS RAISINS

2Y1902—5c pkgs., 24 pkgs. in counter display carton. 6 cartons in case.
Case **$4.50**
Less than case lots . . . . . Carton, **80c**

CANDY FILLED GLASS NOVELTIES

Bowpees 6½ in., clear glass filled with candy pellets.
2Y454—2 doz. in shipping case. Doz. **87c**

Locomotive—3 in., clear glass, exact copy of real locomotive, filled with assrd. candy imperials.
2Y439—2 doz. in shipping case Doz. **89c**

2Y440 2Y441

Telephone—4½ in. assrd. pink and painted glass bodies filled with candy pellets.
2Y446—2 doz. in box Doz. **89c**

Lantern—4½ in. assrd colored glass lanterns filled with candy pellets.
2Y448—Assrd. 2 doz. in box Doz. **89c**

GLASS NOVELTY ASSORTMENT Candy Filled

Big variety—small investment

2Y461—Assortment consists of Fire Engine, Coupe, Locomotive, Lantern, Telephone. 3 doz. in pkg. Doz. **89c**

COUGH DROPS

Luden's Menthol Cough Drops
2Y7495—60 boxes to carton.
Carton, **$1.40**

Smith Brothers' Cough Drops The genuine
2Y1903—40 boxes to carton. 4 strop
$1.45

"Red Cross" Cough Drops—
2Y1918—40 pkgs. in display carton.
Carton, **$1.45**

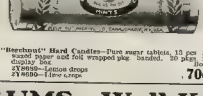
"Y & S" LICORICE STICK

2Y2310—Genuine pure licorice stick. 30 cartons in box. . . . . Box **$1.90**

"BEECHNUT" SPECIALTIES

Made from the purest and best materials obtainable. Fine quality merchandise. The largest selling specialties on the market

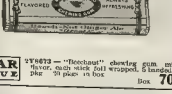
"BEECHNUT" COMPRESSED TABLETS AND HARD CANDIES



"Beechnut" Compressed Tablets—Absolutely pure, made from best quality ingredients, highly flavored, 12 wafers in foil wrapped pkg., bundled, 20 pkgs. in display box. Box
2Y6687 Peppermint
2Y6688—Wintergreen
} **60c**

"Beechnut" Hard Candies—Pure sugar tablets, 15 pcs. in waxed paper and foil wrapped pkg. bundled, 10 pkgs. in display box. Box
2Y6689—Lemon drops
2Y6690—Lime drops
70c

"BEECHNUT" CHEWING GUM



STAR VALUE

2Y6672 — "Beechnut" chewing gum mint flavor, each stick foil wrapped, 5 bundled in pkg. 20 pkgs. in box. Box **70c**

CHEWING GUMS—Well Known Brands

"HEATHER MINT" GUM—Peppermint Flavor

2Y6876—Quality chicle, pure lasting peppermint flavor, each piece wax paper wrapped and banded, 5 pieces in plaid wrapper. 20 pkgs. in Scotch plaid display box. Box. **42c**

AMERICAN CHICLE CO'S GUMS

Adams' "California Fruit"—5 sticks in pkg.
2Y8619—20 pkgs. in box. . . Box. **64c**

Adams' "Black Jack"—5 sticks in pkg.
2Y8649—20 pkgs. in box . . . Box. **64c**

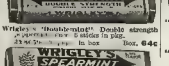
Beeman's "Pepsin" 5 sticks in pkg.
2Y8617 20 pkgs. in box Box **64c**

Chiclets—A delicious coated chewing gum pellets
2Y8655—Peppermint
2Y8656—Wintergreen
2Y8658—Assorted
2Y8659—Cinnamon
} Box **64c**

"Sen-Sen"—Sen-Sen flavor, 5 sticks in pkg.
2Y8697 20 pkgs. in box. . . . Box. **64c**

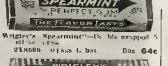
Never be satisfied until EVERY SINGLE ARTICLE in your store carries a plainly marked, plain figure price ticket.

WRIGLEY'S CHEWING GUMS



United Profit Sharing Coupon with each pkg. of 2Y6501, 2Y6502 and 2Y6503

Wrigley's "Doublemint"—Double strength peppermint flavor—5 sticks in pkg.
2Y6501—20 pkgs. in box Box. **64c**

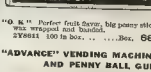


Wrigley's Spearmint—5 sticks wrapped 5 to a pkg.
2Y6508—20 pkgs. in box Box **64c**

Wrigley's Juicy Fruit—5 sticks in pkg.
2Y6503—20 pkgs. in box Box **64c**

Wrigley's P-K's—Sugar coated gum, 10 P-K's in each pkg.
2Y6504—20 pkgs. in box. . . Box. **64c**

PENNY GUM



"O K" Perfect fruit flavor, big penny stick, wax wrapped and banded.
2Y6514 100 to box. . . . . Box. **68c**

"ADVANCE" VENDING MACHINE AND PENNY BALL GUM

"Advance" Ball Gum Machine. 38 in. base finished in dark oxidized, heavy glass globe holding about 37 lbs. of gum total ball, 13½ inches.
2Y9979—1 in box
Each, **$7.25**

2Y9680—"Advance" Ball Gum machine in a 1 lb. box of gum assrd. Complete **$10.25**

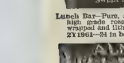
2Y9681—Wall bracket, incl. padlock for above machine. Each, **80c**

Penny Ball Gum — For vending machine, 6 flavors, assrd. 100 balls in box.
2Y9682A Lots of 10 boxes. Box, **$0.33**
2Y9682—Less than 10 box lots. Box, **$0.35**

BAR & PACKAGE CANDIES

KLEIN'S CHOCOLATE BARS

Lunch Bar—Pure, sweet milk chocolate and fresh grade roasted peanuts, parchment wrapped and litho banded.
2Y1962—24 in box..... Box, 60c



Almond Bar—Hig. grade milk chocolate with whole roasted almonds, foil wrapped, litho banded.
2Y1964—24 in box . . . . . Box, 75c

BORDEN'S CHOCOLATE BARS

Plain Sweet Milk Chocolate—Scored bar.
2Y1965—Small size. 24 in box. Box, 60c

Almond Bar—Standard size, sweet milk chocolate, whole almonds; each bar wrapped and sealed.
2Y1645—24 in box . . . . . Box, 80c

"HERSHEY'S" CHOCOLATE BARS

Milk Chocolate Bar—Plain milk chocolate, foil wrapped.
2Y1797—5c size, 24 in box . Box, 85c
2Y1798—10c " 12 " " . " 85c

Almond Bar—Milk chocolate with toasted almonds, foil wrapped.
2Y1799—5c size, 24 in box . . Box, 85c
2Y1800—5c size, 24 " " . . " 85c

BAKER'S YEAST CHOCOLATE

2Y4997—Cake chocolate combined with yeast, delicious and nutritious health tablet, each cake wax paper and foil wrapped. 24 in box . . . . . Box, 85c

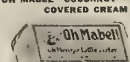
BUNTE'S TANGO BAR

2Y1481—Maple cream bottom, marshmallow center covered with pecans, chocolate dipped, foil wrapped. 24 in box. Box, 85c

COCOANUT FUDGE BAR

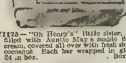
2Y1842—3½c oz. full cream vanilla fudge bar, fresh cocoanut, cooked in cream, unwrapped. 24 pcs in box . . . . . Box, 80c

"OH MABEL!" COCOANUT COVERED CREAM BAR



2Y1123—"Oh Henry's" Hallo sister, center filled with Auntie May's maple flavored cream, covered all over with fresh shredded cocoanut. Each bar wrapped in glassine. 24 in box. . . . . Box, 85c

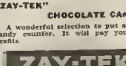
"OH HENRY" MILK NUT BAR



2Y1124—4 oz. bar, Auntie May's pudding savory, rolled in maple chewing caramel and peanuts, covered with milk chocolate and nuts. Each bar wrapped in glassine . . 4 in box . . . . . Box $1.60

"ZAY-TEK" CHOCOLATE CANDIES

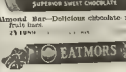
A wonderful selection to put on your candy counter. It will pay you good profits.



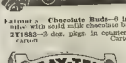
Milk Chocolate Bar—Full cream milk chocolate. Hit extra large size
2Y1801—24 bars in box . . . . . Box 80c

Almond Bar—Delicious chocolate nut and fruit bars.
2Y1802— 80c

Eatmors Chocolate Buds—6 in tube, each with scroll of chocolate text.
2Y1583—3 doz. pkgs. in counter display carton. . . . . Box, 85c



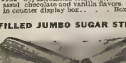
"Silent Salesman"—Counter display stand free with 6 boxes chocolate bar goods, as follows:
3 boxes Almond Bars.
1 box Full Cream Milk Chocolate Bars
1 box Hazelnut Bars.
1 box Fun and Fruit Bars.
2Y1464—24 bars in box. 6 boxes in case with display stand. . . . Box, $4.50



"BILL BONUS" CREAM BAR

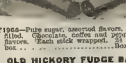
2Y1959—3½ oz., Hallo cream bar, cocoanut, sand chocolate and vanilla flavors. 24 pcs in counter display box. . . Box, 85c

FILLED JUMBO SUGAR STICK



2Y1966—Pure sugar, assorted flavors, center filled. Chocolate, coffee and peppermint flavors. Each stick wrapped. 24 in box. . . . . Box, 24c

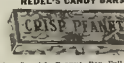
OLD HICKORY FUDGE BAR



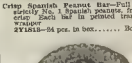
2Y1947—"Old Hickory" 3 oz. fudge bar, chocolate and vanilla flavor, foil wrapped. 24 pcs in counter display box. . Box, 80c

REDEL'S CANDY BARS

Crisp Spanish Peanut Bar—Full 2 oz. family No. 1 Spanish peanuts, fresh and crisp. Each bar in printed transparent wrapper.
2Y1818—24 pcs. in box. . . . . Box, 80c



Large Lunch Bar—Marshmallow covered with cherry flavored cream, all over covered with fresh shredded cocoanut, candy cherry in center of each cake. Each wrapped in transparent tissue.
2Y1815—24 pcs in box. . . . . Box, 80c



Sweet Patootie—2 oz. patties cake, maple cream and marshmallow layers, topped with peanuts, all over covered with light milk chocolate. Fancy foil wrapped.
2Y1811—2 pcs in box. . . . Box, 8c

STAR VALUE

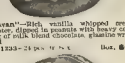
Cherry Bar—1¼ oz., whole cherries in extra fine soft cream vanilla flavored, heavily coated with light milk chocolate, assorted wax paper wrapped.
2Y1213—24 in box . . . . . Box, 84c

CURTISS' TREASURE CHEST

2Y28—Five kinds, 1¼ to 2¼ oz. Chocolate Bars, assd. Kandy Kake, Nickolas!, Baby Ruth, Nougat Bar, and Oh-so-Doz, all wrapped except Pickaloo! Box 11x8½ in., printed in two colors to resemble the old time Pirate Treasure Chest. Assd 100 bars in box. . . . . Box, $3.50

CAROTHERS' BAR CANDIES

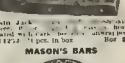
"Caravan"—Rich vanilla whipped cream center, dipped in peanuts with delicate wrapping of milk blend chocolate, glassine wrapped.
2Y1333—24 pcs in box. . . . Box, 60c



Malma Nut Bar—Soft mellow maple cream centers with [illegible] dipped in pecans, set to harden, [illegible] of dark sweet chocolate, wrapped.
2Y1211—[illegible] Box, 80c

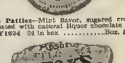
Raisin Bar—[illegible] marshmallow cream centers, [illegible] covered with dark chocolate, wrapped.
2Y1272—[illegible] pcs. in box . . . Box 80c

MASON'S BARS



Mint Patties—Mint flavor, sugared cream, coated with natural liquor chocolate.
2Y1624—24 in box . . . . . Box, 80c

"Peaks"—Strictly fresh cut cocoanut, coated with a heavy natural liquor chocolate coating.
2Y1623—24 in box . . . . . Box, 80c



"Tramps"—Quality marshmallow with apricot jelly, coated with select milk chocolate.
2Y1625—24 in box . . . . . Box, 80c

Life Savers—pure, highly flavored, 14 wafers in a [illegible] pkg., bundled 20 pkgs. in Bags.
2Y1350—Peppermint, [illegible] Mint.
2Y1351—Wintergreen, [illegible] Wintergreen.
2Y1352—Cinnamon, [illegible] Cinnamon.
2Y1353—Lemon, [illegible] Lemon.
2Y1870—Assd. [illegible] Box, 85c

"NUT TOOTSIE" ROLL

2Y1966—Delicious chocolate nut chewing candy, 5c size, wax paper, foil wrapped and banded. 24 rolls in box . . . . Box, 85c

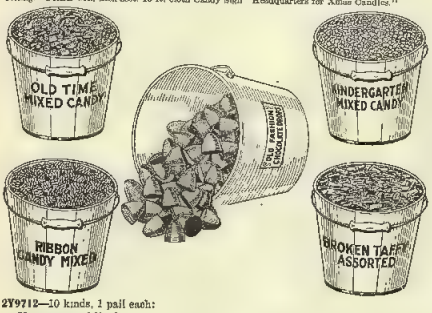
"RAINBOW" WAFERS

2Y4806—3 oz. roll, pure sugar wafers, assd. flavors and colors, 2 color wax wrappers. 24 rolls in box. . . . . Box, 80c

Favorite Sellers XMAS CONFECTIONS

SPECIAL CHRISTMAS CANDY ASSORTMENT

Guaranteed fresh stock, high quality candies. Asst. consists of 10 kinds, all favorites for Holiday selling. FREE with each asst. 10 ft. cloth Candy Sign "Headquarters for Xmas Candies."



2Y9712—10 kinds, 1 pail each:

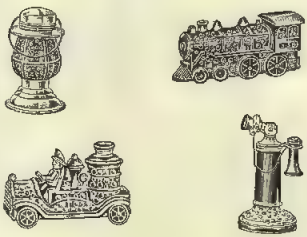
Kindergarten Mixed	Parisian Creams	Molasses Kisses
Ribbon Candy	Old Time Mixed	Clear Toys, etc.
Honeycombed Taffy		

Total weight about 280 lbs

Lb. **15½c**

CANDY FILLED GLASS NOVELTY ASSORTMENT

Demand for these novelties is growing all the time. And there's a nice profit in them, too.



2Y461—Assortment consists of glass Fire Engine, Coupe, Locomotive, Lantern, Telephone, etc. Each filled with pure candy pellets. Asstd. 3 doz. in pkg

Box. **92c**
(Total $2.76)

GOLDEN TIP HARD CANDY MIXTURE

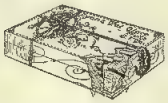
Highest grade candy made. Priced very low

2Y710—20% filled with nuts, creams, etc., satin finished hard candy mixture, 30 lbs. in container.

Lb. **19⅞c**

LYON'S GLACE FRUITS

Very desirable and popular Christmas gift package.



Asstd. California fruits, choice variety including candied apricots, pineapple, plums, cherries, etc., asstd. in decorated burnt wood boxes, ribbon tied and parchment wrapped

2Y1806—1 lb. box	Box.	**$0.95**
2Y1807—2 "	"	**1.80**
2Y1808—3 "	"	**2.65**

RIBBON POP CORN BALL

The Christmas season always brings a large demand for these pop corn balls.

2Y9211 Ribbon pop corn ball, each ball filled with fancy color ribbon. Asstd. pink and white. 200 balls in case.

CASE (200 balls) **$3.00**

"CAMEL" DATES

10 Oz. Package

Delicious and nourishing. A wonderful seller during the Holidays.

2Y711—Full 10 oz. package, selected dates, layer packing, wax paper lined package, 36 pkgs. in case.

Case. **$4.95**

CANDY CHRISTMAS TREE DECORATIONS

Candy novelties that are big sellers around the Holidays. Our prices are exceptionally low, supply is limited

Santa Claus Marshmallow—White decorated in colors, litho cut-out mounted head, cardboard hangers.
2Y2009—120 pcs. in box. Box. **84c**
10 box lots, Box. **82c**

Strawberry Marshmallow — White, decorated in colors, cardboard hanger
2Y2001—120 pcs. in box. Box. **84c**
10 box lots, Box. **82c**

Heart Marshmallow—White, decorated with colored candy, cardboard hangers
2Y2002—120 pcs. in box. Box. **84c**
10 box lots, Box. **82c**

Baby Doll Marshmallow—White, decorated with colored candy and mounted cut-out face, cardboard hangers.
2Y2006—120 pcs. in box. Box. **84c**
10 box lots, Box. **82c**

Strawberry Cluster Marshmallow — White, decorated with colored candy, cardboard hanger.
2Y2003—120 pcs. in box. Box. **84c**
10 box lots, Box. **82c**

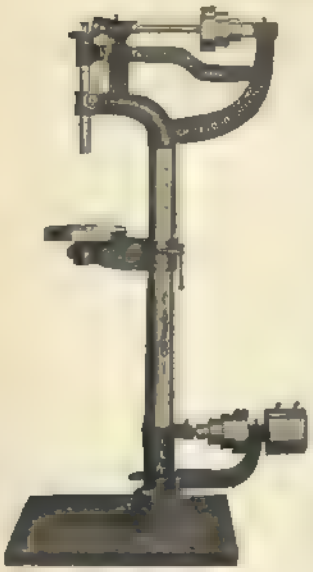
Peach Design Marshmallow — Pink, decorated in several colors, cardboard hangers.
2Y2004—120 pcs. in box. Box. **84c**
10 box lots, Box. **82c**

Strawberry Cluster Marshmallow — White mounted with litho cut-outs, cardboard hangers.
2Y2005—120 pcs. in box. Box. **84c**
10 box lots, Box. **82c**

Paffle Marshmallow—White decorated with candy in several colors, cardboard hanger.
2Y2007—120 pcs. in box. Box. **84c**
10 box lots, Box. **82c**

SENSITIVE FLOOR DRILLS

CANEDY OTTO



A high grade powerful machine for light and rapid drilling. Was designed for service and durability. The upper cone pulley is between two large bearings, thus equalizing the strain and making the drill more powerful. Particularly adapted for garage, machine shops, patternmakers, etc.

Height of drill, 66 inches over all. Capacity, drills 0 to ½ inch. Drills to a center of 16 inch circle. Vertical traverse of spindle, 4 inches. Vertical traverse of table, 2 feet 8½ inches. Diameter of column, 3¼ inches. Hole in spindle, Morse taper No. 2. Size of tight and loose pulley, 6x2½ inches. Size of large cone pulley 4¾x1¾ inches; size of second cone pulley 4½x2¾ inches; size of third cone pulley 3¼x2¾ inches. Size of small cone pulley 2x2¾ inches. Floor space required 15½x20 inches.

*No. 27. Sensitive floor drill, weight each, crated, 320 pounds ..... each, $132.50

SENSITIVE BENCH DRILLS

CANEDY OTTO

An accurately made sensitive bench drill for light and rapid drilling, and in its design and workmanship every detail for completeness is taken into consideration. The upper cone pulley is between two large bearings, thus equalizing the strain and making drill more powerful.

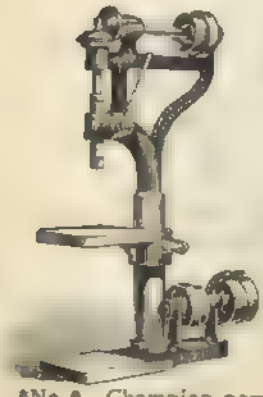
Especially adapted for garages, machine shops, patternmakers, etc.

Drills to center of 9 inch circle. Bores holes up to ½ inch in diameter. Up and down run of spindle, 3¼ inches. Spindle bored to take No. 1 Morse taper. Up and down run of table, 8 inches. Diameter of column, 2½ inches. Size of tight and loose pulleys 4x1½ inch; size of large cone pulley 4¾x1½ inches; size of small cone pulley 3x1½ inches. Height 32 inches.

*No. 28. Sensitive drill ..... each, $62.50
*No. 28. 110 volts, 60 cycles, or 110 volts, D. C.... each, 212.50
Weight each, crated, 114 pounds

CHAMPION POWER BENCH DRILLS

Ball Bearing

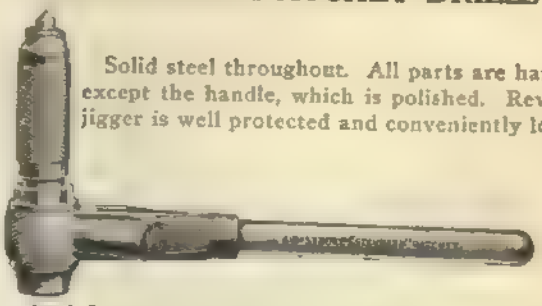


Adapted for light and rapid drilling. Countershaft supplied with belt shift on tight and loose pulleys. Feed lever automatically held in place by a powerful spring. Drills to center of 9 inch circle. Bores holes up to ⅝ inch in diameter. Up and down run of spindle 3¼ inches. Up and down run of table 9 inches. Distance from table to spindle 10 inches. Distance from planed base to spindle 16 inches. Diameter of column 2½ inches. Size of tight and loose pulleys 4x1¾ inches; size of large cone pulley 4½x1½ inches; size of small cone pulley 3x1½ inches. Spindle bored to take No. 1 Morse taper.

*No. 6. Champion power bench drill, weight each, 115 pounds $50.00

*Not carried in stock; will ship from factory

REVERSIBLE RATCHET DRILLS

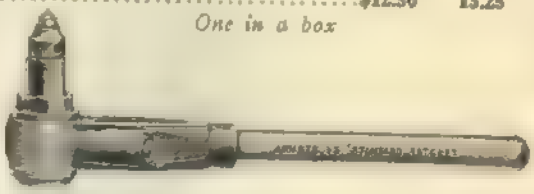


Solid steel throughout. All parts are hardened except the handle, which is polished. Reversing jigger is well protected and conveniently located.

Standard Sleeve Ratchet for Morse Taper Shank Drills

Nos.	9M	12M	15M
Length, inches	9	12	15
Head length, inches	5	6	6¾
Feed, inches	2	2¼	2½
Weight each, pounds	1¾	4	6¼
Each	$12.50	13.25	15.50

One in a box



Standard Boiler Ratchet for Square Shank Taper Drills

Nos.	9B	12B
Length, inches	9	12
Head length, inches	3¾	4⅝
Feed, inches	1⅜	1½
Weight each, pounds	1½	3½
Each	$12.00	13.25

One in a box

*DRILL CHUCKS

STAR

Three jaws carefully adjusted in the socket and closed by pressure of the spindle.

No. 7. Capacity 0 to ½ inch drills, outside diameter 1⅝ inches; size of shank ⅜x2½ inches; weight each, 17 ounces ..... each, $3.85

STANDARD IMPROVED

This chuck has no projecting jaws. The face plate prevents use of work larger than the chuck is designed for. It holds round or square work. Hole in the hub is bored to fit taper shank arbor.

Nos.	00	0	1	2	3
Diameter, inches	1⅝	1⅞	2⅛	2⅝	3⅛
Length, inches	2⅛	2⅜	2⅝	3⅛	4¼
Capacity inches	0 to ⅜	0 to ⅜	0 to ½	0 to ¾	0 to 1
Weight each, pounds	1	4	6	8	10½
Each	$6.00	6.50	7.00	8.00	10.00

JACOBS

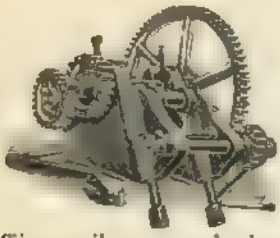
A short pattern chuck with flat back. Especially adapted for use on electric and pneumatic drills.

Nos.	1A	2A	3A
Capacity, inches	0 to ¼	0 to ⅜	0 to ½
Weight each, ounces	4½	13	32½
Each	$5.50	5.50	9.00

*Not carried in stock; will ship from factory

TIRE BENDERS

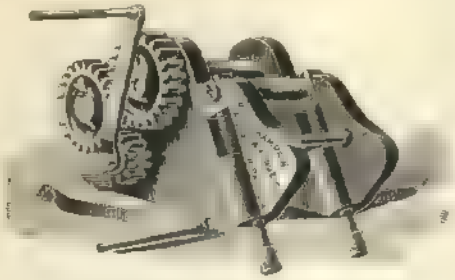
CHAMPION NEW EUREKA



Heavy cast frame with double back gear. Worked with two cranks and two speeds, one for light and fast work, the second for heavy work. Adjusting screws at end of each adjusting roll, with graduated indicator on each side showing exact size of tire being bent. End rolls with collars to prevent tires twisting while being formed. Tire easily removed when formed

No. 1E. Bends 1x4 inch tires; weight each 200 pounds ..... each, **$48.00**

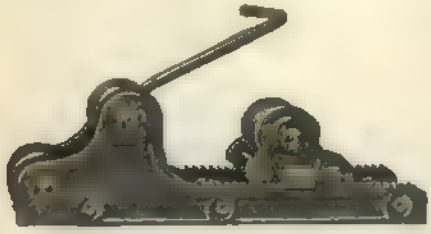
No. 2E. Bends 1x6 inch tires; weight each 300 pounds ..... each, **66.00**



CHAMPION NEW PATENT

The frame is cast strong and substantial with double back gear and worked with two cranks and two speeds, one for light and fast work and the other for heavy work. The center roll pulls out to take the tire out.

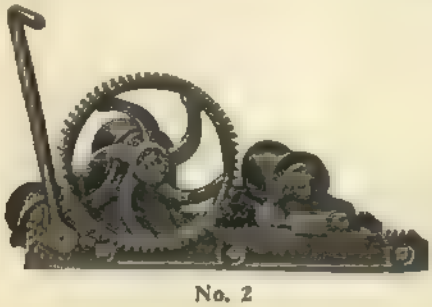
Champion New Patent Tire Bender. Will bend any size tire up to 3x¾ inches, weight each 120 pounds each, **$30.00**



No. 1

Heavy cast frame, made with turned rollers and bearings, complete with crank. Will bend 3¼ inch tire or smaller to a 24 inch circle or larger

No. 1. Weight each 82 pounds..... each, **$18.00**



No. 2

Heavy cast frame, made with large gear and pinion. Has turned rollers and bearings. Complete with crank. Will bend 3¼ inch tire or smaller to a 24 inch circle or larger.

No. 2. Weight each 90 pounds..... each, **$21.50**

TIRE SHRINKERS

CHAMPION

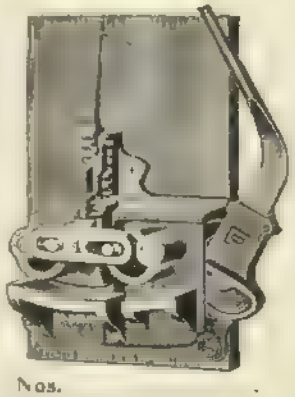
Heavily constructed and will work equally as well on the lightest steel tire as on 1x4 inch wagon tires. Will shrink up to and including 1x4 wagon tires and 1¼ inch axles.

Champion. Weight each 155 pounds..... each, **$40.00**

MOLE'S IMPROVED

Can be adjusted for different thickness of tire by moving pin in connecting link into different holes. Power is so applied that the twisting of tires is avoided. Complete with lever and anti-kinker device.

Nos.	2	3
Size bed, inches	3	4
Size tires	1½x3	3½x4
Weight, pounds	230	260
Each	$39.00	49.00



IMPROVED STODDARD

This machine takes the tire on the flat side and has an anti-kinker attachment which prevents light tires from kinking. Fastens to side of wall or post. An iron lever stub is furnished with each machine.

Nos. 3 and 5 are special machines equipped to shrink axles in addition to tires

Nos.	1	2	*3	*4	*5
For tires up to, inches	2	4	4	6	6
For axles up to, inches			1¼		2
Weight each, pounds	115	250	290	425	445
Each	$25.00	45.00	50.50	70.00	90.00

RUBBER TIRES

Selected high grade rubber with internal wires. For use on light vehicle wheels.

Diameter, inches	¾	⅞	1	1⅛	1¼
Size wire used, Nos	12	12	11	10	10
Weight per 100 feet, pounds	32½	37½	45	62½	80
Per foot, $	....	....	....	....	....
Diameter, inches	1¾	1½	1⅝	1¾	
Size wire used, Nos	9	8	7	7	
Weight per 100 feet, pounds	87½	102½	120	130	
Per foot, $	....	....	....	....	

RUBBER TIRE WIRE

Rubber tire wire..... per pound, $.....

*Not carried in stock; will ship from factory

JUSTRITE GAS LIGHTERS

The trigger is controlled by a steel spring which also holds the flint against a rough steel wheel. Each flint will make over 2500 sparks, and when worn out, can be replaced at a cost of 3 for 10c. Ignites gas only. Will light gas jets, gas stoves, automobiles gas lamps and is especially adapted for miners' carbide lamps.

Per Dozen

No. J25—Polished brass $6 75

One dozen on a display card; weight per dozen about 2½ lbs.

EXTRA FLINTS FOR GAS LIGHTERS

Per Carton

No. J30—Carton contains 12 packages, each holding 3 flints ..... ✚$3 00

CARBIDE

From Louisville Magazine Only.

Union Carbide is carefully screened and packed; contains about 400 to 450 cubic feet of acetylene gas to 100 pounds.

Cameo Carbide is carefully screened and packed; contains about 300 to 350 cubic feet of acetylene has to 100 pounds.

Prices on application.

UNION GENERATOR CARBIDE

In 100 pound sheet steel drums.

Per 100 Lbs.

No. 1—Lump, size 8 1/16x2 inches
No. 2—Egg, size 2x½ inches
No. 3—Nut, size 1¼x⅝ inches
No. 4—Quarter size, ¼x 1/16 inches

UNION MINERS' LAMP CARBIDE

No. 5—In 100 lb. drums ..... Per 100 Lbs.
No. 5A—In 25 lb. cans. In lots of **not** less than 4 cans ..... Per Can
No. 7—In 2 pound cans ..... Per Case
No. 8—In 10 pound cans ..... Per Case

UNION AUTOMOBILE AND BICYCLE LAMP CARBIDE

No. 6—Automobile, size 1 in., in 100 lb. drums Per 100 Lbs.
No. 9—Bicycle lamp, size ½ in., in 2 lb. cans Per Case
No. 10—Bicycle lamp, size ½ in., in 10 lb. cans Per Case
No. 11—Automobile, size 1 in., in 10 lb. cans Per Case

CAMEO GENERATOR CARBIDE

In 100 pound sheet steel drums.

Per 100 Lbs.

No. 12—Size 8 1/16x2 inches
No. 13—Size 2x½ inches
No. 14—Size 1¼x⅝ inches
No. 15—Size ¼x 1/16 inches

CAMEO MINERS' LAMP CARBIDE

No. 16—In 100 lb. drums ..... Per 100 Lbs.

CAMEO AUTOMOBILE CARBIDE

No. 17—In 100 lb. drums ..... Per 100 Lbs.

UNION MINERS' LAMP CARBIDE

In less than case lots.

Per Can

No. 7—In 2 pound cans
No. 8—In 10 pound cans

UNION AUTOMOBILE AND BICYCLE LAMP CARBIDE

In less than case lots. Per Can

No. 9—Bicycle Lamp, size ½ inch, in 2 pound cans
No. 10—Bicycle Lamp, size ½ inch, in 10 pound cans
No. 11—Automobile, size 1 in., in 10 lb. cans

2 lb. cans packed 24, 10 lb. cans packed 6 in a case.

✚F. O. B. Illinois Factory Only.

CONTRACTORS' FLARE LIGHTS

No. 3CFL

CARBIC

Designed for the use of contractors, railways, mines, street work, docks, foundries, dredges, stem shovels, ditching and threshing outfits, lumber camps, etc.

Constructed of heavy galvanized steel and brass. Equipped with special aluminum light reflectors. The different styles and sizes are substantially constructed throughout and designed to fulfill different practical requirements, varying with respect to capacity and size. All are built along the same general lines. Gives a clear white light of great range and radius and are equipped with storm, wind and weather proof burners, and the flame from these lights is smokeless, sootless, free from sparks and does not vitiate the atmosphere.

No. 2CFL No. 1CFL No. 12CFL No. BCFL

Nos.	1CFL	2CFL	3CFL	12CFL	BCFL
Burns, hours	8	12	12	5	8
Full charge, cakes	2	4	8	4	2
Height over all, ft	6¼	6 7/12	6 7/12	4¾	1½
Diameter base, in	12¾	14	14	8½	8¼
Size reflector, in	13	13	13	10	8
Weight empty, lbs	35	44	79	18	7
Weight charged, lbs	75	120	200	32	13½
Each	✚$141 75	✚157 50	✚207 00	✚111 00	✚57 00

One in a crate.

CARBIC CAKES

For Contractors' Flare Lamps.

Made from the highest grade calcium carbide compressed into patented cylindrical cakes. Diameter of cake 4 inches.

For Nos. 1CFL, 2CFL and 3CFL Lights.

Per Drum

No. 20C—In 100 lb. drums ..... ✚$27 75

For Nos. 12CFL and 3CFL Lights.

Per Drum

No. 5C—In 75 lb. drums ..... ✚$27 75
No. 5CA—In 40 lb. drums ..... ✚ 18 00

✚F. O. B. Minnesota Factory Only.

CARBOLITE

A Superior Quality of Calcium Carbide, in Orange Colored Drums and Packages

Carbolite is of an unvarying quality, an important point with consumers, for they can feel assured that in purchasing Carbolite they will always secure the highest Gas Yield Carbolite generates a pure, clean Gas of the very best illuminating power, which produces the White Light known as Acetylene

In appearance it is a grayish, rock-like substance which will not burn, cannot explode, is not affected by heat or cold, and in fact remains absolutely inactive until brought in contact with water.

Cans are Sealed with Air-Tight Metal Covers, preventing any deterioration by exposure to air. Each Size of Carbolite is best adapted for use in some particular kind of Generator, and, in ordering, the size required should be plainly stated, the consumer should request the Generator manufacturer to furnish him with information as to the proper size of carbolite to use; **The Miners Special Carbide** is now being extensively used by all the large Iron, Coal, Gold and Silver Mines.

FOR GENERATORS AND WELDING OUTFITS

100 Lb. Drums

Nos.	Per 100 Lbs.
P2649A—Quarter; ¼x¼in.	$10.30
P2649B—Nut; 1¼x⅜ in..	10.30
P2649C—Egg; 3x½ in ..	10 30
P2649D—Lump; 3½x2 in	10.30

MINERS SPECIAL

25 and 100 Lb. Drums

Size ⅜ to ½ in.

	Per 100 Lbs.
No. P2649E—100 Lb. Drums; Gross Wt. 107 Lbs. .	$11 50
No. P2649F 25 Lb. Drums 13.30	

Note—See Special Description above on Miners Special Carbide

10 LB. CANS; Size Can 10x5x5 In. Miners Special, Bicycle, and Small Auto Lamp Size ⅜x½ in.

	Per Case
No. P2649H—In Full Cases of 6 Cans.; Weight 85 Lbs. Case ..	$10.60
No. 2649H—Less than Full Cases .	10 60

2 LB. CANS; Size Can 5x3½ In.

Every Dealer in Bicycle Supplies, also Garages, Repair Shops and General Hardware Stores should carry this size Package in stock, as the demand for it is large

Miners Special, Bicycle, and Small Auto Lamp Size ⅜x½ in.

	Per Case
No. P2649M—In Full Cases of 24 Cans, Wt 63 Lbs.	$10.80
No. 2649M—Less than Full Cases	10.60

CARBIC FLARE LIGHTS

For Use Wherever a Powerful, Clear, Clean, Portable Light is required; Especially adapted for Railways, Docks, Foundries, Contractors, Street Work, Dredges, Steam Shovels, Ditching and Threshing Outfits, Miners, Lumber Camps, Summer Resorts, etc. Approximately 2,000 Candle Power Light at a Cost of less than 5 Cents per Hour. Burners are Storm, Wind and Weather Proof.

As soon as the Valve is turned off, the generation of Gas ceases, and all unused Carbic may be removed and used at a later date. The Carbic Lights are made from specially selected Heavy Gauge Galvanized sheet steel, with all seams strongly riveted and soldered, with high grade brass and malleable iron fittings.

The Swivel Joints work smoothly, and are accurately ground to prevent leakage of Gas.

NOTE—No. F2649R is the Standard and Best Selling Light

No. F2649P Raised

No. F2649P Lowered

No. F2649-C Lowered

No. F2649T

No. F2649X Lowered

No. F2649Y

Each

✚**No. F2649P**—Height raised up 6 ft. 3 in., down 3 ft. 5 in.; 18-in. Aluminum lined Steel Reflectory Diameter at base 12¾ in.; Burns 6 Hours Continuously on a Charge of two No. F2649V Carbic Cakes $86.00

Shipping Weight, 60 Lbs. Each

✚**No. F2649R**—Height raised up 6 ft. 7 in. down 3 ft. 9 in.; Diameter at Base 14 in.; 18-in. Aluminum Lined Steel Reflector; Burns 12 Hours Continuously on a Charge of four No. F2649V Carbic Cakes..... 96.00

Shipping Weight, 73 Lbs Each

✚**No. F2649T—Two-Burner Model**; Has two independently adjustable Reflectors which may be swung in any direction without moving the Light itself; Height 6 ft. 7 in.; a Full Charge in eight No. F2649V Carbic Cakes, which will operate both Burners continuously for 12 hours, or one Burner for 24 hours.....120 00

Shipping Weight, 120 Lbs. Each

CARBIC CAKES

Made from the Highest Grade Gas Producing Material, pressed into Briquet Forms by a Special Process, and are the safest and most economical means of supplying Gas to Portable Lamps and Torches. The Gas is exceptionally pure, insuring a clear, white, smokeless flame of great power, eliminating the clogging of burner tips and scoting of reflectors.

	Per Drum
No. F2649V—Diam. 4 in., Weight 2½ Lbs. per Cake; for use in Nos. F2649P, F2649R, and F2649T Flare Lights; 40 to a drum.....	$14.50
Weight 108 Lbs. per Drum	
No. F2649W—Diam. 2 in., Weight ¾ Lbs., each for No. F2649X Cadet Flare Light and No. F2649Y Hand Lamp; 110 to a Drum.....	14.50
Weight 90 Lbs. Drum	

CADET

Originally designed for Fire Department and Salvage Work but on account of its adaptability it is now used extensively by railroads, water works departments, contractors, engineers and others requiring a Light, Reliable Outfit. Burns 5 hours on a Full Charge of four No. F2649W Carbic Cakes.

Each

✚**No. F2649X**—Height raised up 4 ft. 7 in., down 2 ft.; Weight Fully Charged, 32 lbs.; has an Aluminum Lined Steel Reflector, 10 in. in diam., adjustable to throw light in any direction....$86.00

Shipping Weight 39 Lbs.

CARBIC HAND LIGHT

This Small Light, embodying all the Excellent Features of the Larger Lights, is the Ideal Size for Night Watchmen, Janitors, Farmers, etc. The use of Carbic Cakes makes this Light very economical, a full charge (two No F2649W Cakes), giving a Powerful White Light continuously for eight hours

Each

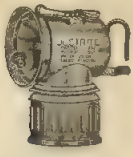
✚**No. F2649Y**—Height 15¾ in., diam. at base 8¼ in.; Aluminum Lined Steel Reflector, 8 in. in diam. can be elevated to any height.....$36.00

Weight 14 Lbs. Each

✚**Carbic Flare Lights and Cakes, for Factory Shipment, only; F. O. B. Chicago, Ill.**

JUSTRITE MINERS CARBIDE LAMPS

Made in two parts, Water Reservoir and Carbide can Container; Drawn from Seamless Brass, Attached parts Riveted and soldered inside; Reflector is part of Lamp; Equipped with Self-lighter Attachment



WIRE FEED

Round Hook; 16.7 Candle Power; Concaved Reflector; Polished Brass

Each

No. 2650-407—Lamp Only.....$1.54

No. 2650-85R—Lamp with Extra No. 2652-77 Carbide Can..... 1.71

WIRE FEED

Flat Hook; 16.7 Candle Power; 2¼ in. Concaved Reflector; Polished Brass Each

No. 2650-417—Lamp Only.....$1.54

No. 2650-414—Lamp with Extra No. 2652 77 Carbide Can..... 1.71

No. 2650-477—Lamp Only, with 3 in. Saucer Shape Reflector..... 1.67

WIRE FEED

Flat Hook; 16 7 Candle Power; 2⅝ in. Extra Deep Reflector and Flame Protector; Especially adapted for wet mines.

Each

No. 2650-697—Lamp Only.....$1.67

WIRE FEED

For Mine Superintendents, Sportsmen, Inspectors, etc.; Nickel Plated; With Hook and Folding Handle; Concaved Reflector; Uses Special Miners Carbide

Each

No. 2650-100C—16 Candle Power, burns 2½ hours; Height 3¾ in., Diam of Reflector 2⅝ in.; With No. 2652-76 Carbide Can.....$2.25

Each

No. 2650-95—Lamp Only; 18 Candle Power; Burns 4 hours; Height 5 in., Diam. of Reflector 3 in.....$3.00

Each

No. 2650-302—Lamp Only; 18 Candle Power; Burns 5 hours; Height 5¾ in., Diam. of Reflector 2¾ in.....$4.50

16.7 Candle Power; Solid Rim ⅛ in. Thick; With Reinforced Bottoms

POLYGON FEED

Round Hook; With 2¼ in. Concaved Reflector Each

No. 2650-707—Lamp Only; Polished Brass $1.54

No. 2650-709—Lamp Only, Nickel Plated 1.79

No. 2650-767—Lamp Only; Polished Brass, with 3 in. Saucer Shaped Reflector 1.67

POLYGON FEED

Flat Hook; With 2¼ in. Concaved Reflector

Each

No. 2650-717—Lamp Only; Polished Brass $1.54

No. 2650-719—Lamp Only; Nickel Plated 1.79

POLYGON FEED

Flat Hook; With 3 in. Saucer Shaped Reflector

Each

No. 2650-777—Lamp Only; Polished Brass $1.67

No. 2650-779—Lamp Only; Nickel Plated 1.88

16.7 Candle Power; Solid Rim ⅛ In. Thick; With Reinforced Bottoms; Charge 2 Ounces, ¼ In. Carbide.

POLYGON FEED

Flat Hook; With 2¼ in. Concaved Reflector; Polished Brass Each

No. 2650-917—Lamp Only.....$1.54

POLYGON FEED; NEW LIGHTER ATTACHMENT

Flat Hook; With 2⅝ in. Concaved Reflector; Polished Brass Each

No. 2650-937—Lamp Only.....$1.83

POLYGON FEED; NEW LIGHTER ATTACHMENT

Flat Hook; With 3 in. Saucer Shaped Reflector; Polished Brass Each

No. 2650-977—Lamp Only.....$1.88

All Above, Twelve in Carton; Approximate Weight 5 to 6 Lbs. Carton

AUTO CLOCKS

Keyless Auto Clocks are the most practical auto clocks made. This unique way of winding and setting by the rim, thus eliminating the use of a key or a projecting stem, has made them very popular with the trade. They run eight days with one winding, are fully guaranteed, and are, without doubt, the handsomest auto clock on the market. They are built especially for automobiles and will stand the hardest vibration, and keep time under the most trying conditions. Dust and moisture proof.

COWL BOARD TYPE
KEYLESS

For Cadillac, Hudson, White, Buick, Overland, Cole, Studebaker, Austin, etc.

No. 5944—2⅝ in. dial, cowl ring 3⅛ in., length of clock behind ring 1⅛ in., 8 day, rim wind and set, finish black enamel with nickel rim, w't each 2 lbs. .....each $16.60

ONE IN A BOX

LUMINOUS DIAL COWL BOARD TYPE
KEYLESS

No. 5947—2⅝ in. dial, 8 day movement, rim wind and set, black enamel finish with nickel rim, genuine radium dial on black of highest quality, can be read at a glance either day or night, w't each 2 lbs., each $19.20

ONE IN A BOX

COWL BOARD TYPE
KEYLESS

For Reo, Chandler, Paige, Hudson, Hupmobile, Overland, Buick, Dodge, Mercer, etc.

No. 5945—2½ in. dial, cowl ring 3⅜ in., length of clock behind ring 1⅛ in., 8 day movement, rim wind and set, finish black enamel with nickel rim, w't each 2 lbs., each $15.40

ONE IN A BOX

DENVER COWL BOARD TYPE
KEY WIND

Eight-day key wind, 2½ in. dial second hand, sets flush with dash, w't each 1 lb.

No. 5941—Black enamel, each $10.00

No. 5941A—Nickel plated, each $10.00

ONE IN A BOX COMPLETE WITH FITTINGS

OFFSET TYPE
KEYLESS

No. 5946—2½ in. dial, base 3⅛ in. length of clock 2⅞ in., rim wind and set, 8 day movement, thief proof, attached to dash from inside, black enamel finish with nickel rim, w't each 2 lbs. .....each $14.70

ONE IN A BOX

DASH OFFSET TYPE
KEY WIND

No. 5940—Black enamel, 8 day, key wind, 2½ in. dial, second hand, w't each 1 lb. .....each $10.00

No. 5949—Frisco, 1 day, offset, 2½ in. dial, stem wind and set, w't each ½ lb. .....each $7.00

No. 5948—Frisco, 1 day for cowl board Fords, complete with a handsome 2½ in., dial, concealed winding stem, w't each 1 lb, each $7.30

No. 5931—Duane, one day, case heavy brass with offset, 1½ in. dial, diam. 2½ in., w't each 12 oz., each $6.50

ONE IN A BOX

HEAT INDICATORS

BORG AND BECK

The Borg & Beck Heat Indicator accurately inricates on the dash motor temperature of the motor at all times.

Purely mechanical in operation—no electrical connections, nothing to break or get out of order.

Indicating hand on the dial is actuated through flexible, dental type shaft by a small but very efficient thermostat of novel design mounted against motor block by special clamping device. Each instrument is simply, quickly and permanently adjusted for running temperature of the individual motor at time of installation.

A precison instrument made of best possible materials, fully guaranteed by the manufactures and should be on the instrument board of every car.

Can be installed in one hour or less. One model for all cars.

It shows you how hot or how cold your motor is-not the temperature of your radiator.

You adjust this instrument to your motor. Whether the normal running point of the motor is low or high, you always know its exact condition.

By being attached to the motor it is not exposed to rain, snow or weather conditions.

The gauge is placed on the instrument board-and is easily read day or night. The large white pointer and novel dial makes it readable at a glance.

It is theft proof. Its location is such that it is not liable to breakage.

The design is simple and the best workmanship and materials available are used in its construction.

The universal clamp for attaching the unit to the motor makes the installation easy. Full instructions accompany each instrument.

No further attention is necessary after the instrument is once installed and adjusted.

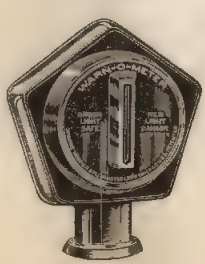
No. 5985—W't each 1 lb., each **$12.70**
ONE IN A BOX

STEWART WARN-O-METERS

The Stewart Warn-O-Meter prevents engine troubles resulting from overheating. It is an electrically operated instrument and may be installed on the radiator, fender, or on the hood of cars that are air cooled. It is wired to a thermostat installed on the engine. When the engine is cold, no light shows in the Warn-O-Meter. As soon as the engine reaches a normal and efficient operating heat, a green light appears. The red light, or danger signal, flashes on when the motor is becoming overheated, because the temperature is taken where the heat is generated, the motor cylinder.

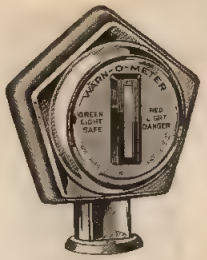
The Warn-O-Meter is not affected by the water or air of the radiator. It is electrically operated direct from the engine, assuring the driver of an accurate indication of the motor's heat.

The design in the Warn-O-Meter that faces oncoming cars is illuminated from within the instrument, and may be replaced by a car name-plate, lodge emblem, owner's initials, or some special design.

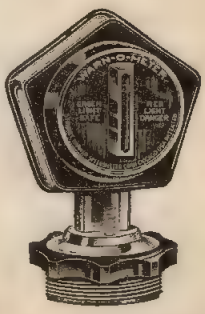


No. F5615—Standard Model 173A—Nickel plated finish, highly polished. Complete with all fittings, w't each 2½ lbs.★ .....each **$13.34**
ONE IN A BOX

STEWART WARN-O-METERS



No. F5616—DeLuxe Model 172A—nickel plated finish, highly polished, silver etched dial. Complete with all fittings, w't each 2½ lbs., each★ **$16.68**
ONE IN A BOX



No. F5617—173B for Ford Cars. Finished in black and nickel and complete with Stewart Radiator Cap. Operates the same as the DeLuxe and standard models. Complete with all fittings, w't each 2 lbs., each★ **$13.34**
ONE IN A BOX

JEFFERSON AUTOMOBILE IGNITION COILS

Interchangeable with Any of the Standard Battery Ignition Systems.

This line of Coils is 100% complete, consisting of only a few standard types sufficiently flexible to displace Coils used as standard Ignition equipment.

Under starting conditions, the battery is at lowest ebb and requires a Coil that will produce a hot, intense spark to overcome this drop in voltage. Jefferson Coils are designed to take care of this extreme condition.

Each Coil is furnished with a Wiring Diagram giving detailed instructions for installing.

COILS

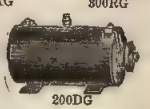
500CG

403AG

300RG

700WG.

202DG


200DG

201DG

BRACKETS

218DG

210DG

REPLACEMENT UNITS

350RG

240DG

330RG

310RG

320RG

255DG

REPLACEMENT FOR DELCO SYSTEMS

No. 200DG—Battery Ignition Coil, 6 or 12 volt ..... each $9.40
No. 201DG—Battery Ignition Coil ..... each 9.40
No. 202DG—Battery Ignition Coil ..... each 9.40
No. 210DG—Bracket for use with 200DG Coil ..... each .60
No. 212DG—Bracket for use with 200DG 12-volt Dodge Coil ..... each .50
No. 218DG—Bracket for use with 200DG Coil ..... each .50
No. 240DG—6-volt Resistance Unit for use on 200DG Coils ..... each .50
No. 245DG—6-volt Resistance Unit for use on 202DG Coils ..... each .50
No. 250DG—12-volt Resistance Unit for use on 200DG, 12 volt Dodge Coils, ... each .50
No. 225DG—6-volt Resistance Unit for use on 201DG Coil ..... each .50

REPLACEMENT FOR REMY SYSTEMS

No. 300RG—Battery Ignition Coil, 6 or 12 volt ..... each $9.40
No. 310RG—Bracket for use with 300RG Coil ..... each .30
No. 320RG—Bracket for use with 300RG Coil ..... each .40
No. 330RG—Bracket for use with 300RG Coil ..... each .30
No. 350RG—6 and 12 volt Resistance Units for use on 300RG or 403AG Coil ..... each .50
NOTE—300RG Coil furnished with either two or three binding posts, with or without Resistance Unit.

REPLACEMENT FOR ATWATER-KENT SYSTEMS

No. 403AG—Tubular Coil with Resistance, 6 or 12 volt ..... each $7.20

REPLACEMENT FOR CONNECTICUT SYSTEMS

No. 500CG—Battery Ignition Coil, 6 or 12 volt ..... each $9.40

REPLACEMENT FOR NORTH-EAST SYSTEMS

No. 600NG—Battery Ignition Coil, 12 volt ..... each $7.20

REPLACEMENT FOR WAGNER SYSTEMS

No. 700WG—Battery Ignition Coil, 6 or 12 volt ..... each $7.20
No. 701WG—Battery Ignition Coil, 6 or 12 volt ..... each 7.20
When ordering, give name, model and year of car or type number of Coil to be replaced and whether for six or twelve volt system.

ONE IN A CARTON

Jefferson Automobile Ignition Coils

Interchangeable With Any of the Standard Battery Ignition Systems

Name	Year	Model	Jefferson Coils and Fittings
Allen	1917-20	41-43	C-500 Coil
Allen	1921		C 501 Coil
American Beauty	1918-20	B	A-403 Coil
American	1920		C-500 Coil
Anderson	1918-19	20-400-A	C-500 Coil
Anderson	1920-21	30	R-300 Coil with R-310 Bracket ★
Apperson	1916-21	6-16-8-16-6-17 8-17-8-18-25	R-300 Coil with R-310 Bracket ★
Auburn	1916-20	6-38-6-39-4 -38-39	R-300 Coil with R-320 Bracket
Auburn	1917-18	6-40-B-6-44	D-200 Coil with D-210 Bracket
Auburn	1921		R-300 Coil with R-310 Bracket ★
Briscoe	1916	8-4-38	R 300 Coil with R-310 Bracket
Briscoe	1917-18-19	BA-24-4-24	C-500 Coil
Briscoe	1920-21	4-34	C-501 Coil
Buick	1914-15	All Models	D-201 Coil
Buick	1916-20	All Models	D-200 Coil
Buick	1921		D 202 Coil
Cadillac	1911 to 21	All Models	D-201 Coil
Case	1917	T-17	C-500 Coil
Case	1919-21	V	D-202 Coil
Chalmers	1914-15-16	36-36-6-30	A-401 Coil
Chalmers	1917-21	6-30-7	R-300 Coil with R-310 Bracket ★
Chevrolet	1915 to 17	All Models	C-500 Coil
Chevrolet	1918-21	490-F-A-D	R-300 Coil with R-330 Bracket ★
Chevrolet Truck	1918-21		R-300 Coil with R-330 Bracket ★
Cleveland	1921		C 501 Coil
Cole	1917	850	D-200 Coil
Cole	1917	880	D 200 Coil with D-218 Bracket
Cole	1918-19	870	D-202 Coil
Cole	1920-21	All Models	D 201 Coil
Columbia	1917-21	6-C-D	A-403 Coil
Crow-Elkhart	1916-20	All Models	C-500 Coil
Crow-Elkhart	1921		C-501 Coil
Cunningham	1919		D-202 Coil
Daniels	1920	D-19	D-201 Coil
Davis	1917-20	All Models	D-100 Coil with D-218 Bracket
Davis	1921		D-202 Coil
Dodge	1918		D-200 Coil with 212 Brack (12v)
Dodge	1919-21		N-500 Coil (12v)
Dodge Truck	1918		D-200 Coil with 212 Brack (12v)
Dodge Truck	1919-21		N-500 Coil (12v)
Dort	1916-20	5-A-9	C-500 Coil
Dort	1921		C-501 Coil
Elcar	1918-19	D-4 D-6	A-403 Coil
Elcar	1921		D 202 Coil
Elgin	1917-18		R-300 Coil with R-310 Bracket ★
Elgin Late	1919-21	K	W-700 Coil
Essex	1918-21	A	D-201 Coil
Franklin	1916-21	Series 9-9B	A-401 Coil (12-v)
Gardner	1921		A-403 Coil
Gramm-Bernst'n	1920-21	2 Ton	N-500 Coil (6-v.)
Grant	1917-18	K-G	R-300 Coil with R-310 Bracket
Grant	1919-21	H	A-403 Coil
Haynes	1915-16-17-18-19 -20-21	30-36-37-34-35- 38-39-44-45	R-300 Coil with R-310 Bracket
H C S Special	1920-21		D-201 Coil
Hudson	1919-21	54 to Super 6	D-201 Coil
Hupmobile	1916	Four	A-401 Coil (6-v.)
Hupmobile	1917	Four	A-403 Coil (6-v.)
Hupmobile	1918-21	R-3	A-403 Coil
Jordon	1918-21	60-17	D-202 Coil
Kissel	1917-18-19	100 Pt. 6	R-300 Coil with R-320 Bracket
Kissel	1920-21		R-300 Coil with R-310 Bracket ★
Lafayette	1920-21		D-201 Coil
Lexington	1916-19	6-0-17-60, 6-R	C-500 Coil
Lexington	1920-21		C-501 Coil
Liberty	1917-18 Early 1919	10-B	D-200 Coil with 218 Bracket
Liberty	Late 1919		A-403 Coil
Liberty	1920 21	10C	W-701 Coil
Lincoln	1921		D-202 Coil
Maxwell	1917-Early	Model 25	A-403 Coil
Maxwell	1917-18-19	4-25	A-403 Coil (12-v)
Maxwell	1920-21	25	A-403 Coil
Maxwell Truck	1917-18-19	4-25	A-403 Coil (12-v)
Maxwell Truck	1919-21		A-403 Coil
Mitchell	1917 18	D-40-C-42	C-500 Coil
Mitchell	1918-21	D-40-C-42- E-40-42	R-300 Coil with R-310 Bracket★
Moline Knight	1915-19	All Models	C-500 Coil
Monroe	1915-19	M-3-M-3-M-6	C-500 Coil
Monroe	1920 21	S 9	C-501 Coil

Name	Year	Model	Jefferson Coils and Fittings
Moon	1917-18	6-43-6-60-65	D-200 Coil with D-218 Bracket
Moon	1918-19	6-35	D-200 Coil with D 202 Bracket
Moon	1919-20	Victory 6-68	W-700 Coil
Moon	1921		D 202 Coil
Nash	1917		D-200 Coil
Nash	1918-19	681-671-682-683	D-202 Coil
Nash Late	1919-21	All Models	W-700 Coil
Nash Truck	1919	2017	C-500 Coil
National	1917-18-19	A-K-12-6-12	2-D-200 Coils
National	1920-21	Sextet	D-202 Coil
Oakland	1913-14-15	All Models	D-201 Coil
Oakland	1916	38-50-S	D-200 Coil
Oakland	1917	32-B-36	D-200 Coil with D-222 Bracket
Oakland	1918-21	34-B-32-B-34-C	R-300 Coil with R-320 Bracket ★
Oldsmobile	1913-14-15	54-53-42-55	D-201 Coil
Oldsmobile	1916	4-cylinder	D-200 Coil with D-210 Bracket
Oldsmobile	1916	8-cylinder	D-200 Coil
Oldsmobile	1917-18	44-45-8 cyl.	D 200 Coil with D-218 Bracket
Oldsmobile	1917-20	37-6 cyl. 37-A	D-202 Coil with D-222 Bracket
Oldsmobile	1918-21	37-4 & 6 cyl	R-300 Coil with R-320 Bracket ★
Oldsmobile	1918-19	45-8 cyl	D 202 Coil
Oldsmobile	1920-21	45-8 cyl.	D-201 Coil
Oldsmobile Truck	1920-21		R-300 Coil with R-330 Bracket
Olympian	1918-21	45	C-500 Coil
Overland	1916 21	All Models	C-500 Coil
Overland	1920 Early	"8"	C-501 Coil
Overland Truck		Panel Exp.	C-500 Coil
Parkard	1919-21	6 & 12 cyl	D-201 Coil
Paige	1916-19	6-36-46-38-46 6-39-55	R-300 Coil with R-310 Bracket
Paige	1920-21	6-42, 6-55	A-403 Coil
Patterson	1916-19	All Models	D-200 Coil with D-218 Bracket
Patterson	1920-21	6-47	D-202 Coil
Peerless	1915-16-17	4-6-8-4 cyl	A-401 Coil
Peerless Late	1917-21	56-8 cyl.	A-403 Coil
Premier	1916-20	6-C, 6-D	D-200 Coil with D-222 Bracket
Premier	1921		D-202 Coil
Reo	1914-18-19	All Models	R-300 Coil
Reo	1920-21	All Models	N-600 Coil
Reo Truck	1918-20		R-300 Coil with R-310 Bracket
R. & V. Knight	1920-21	J	W-701 Coil
Saxon	1917	Four	A-402 Coil
Saxon	1917 18-Early-19	S-4-6 cyl.	R-300 Coil (R-310 Bracket for 1919)
Saxon	1919-21	Y 18	W-701 Coil
Scripps Booth	1916-17	G-D	R-300 Coil with R-310 Bracket
Scripps Booth	1918-21	D-C-H-D-G-36-6-60 B-39	R-300 Coil with R-320 Bracket ★
Sheridan	1921	4-Cyl.	R-300 Coil, R-310 Bracket ★
Sheridan	1921	8-Cyl.	D-201 Coil
Standard	1920-21		A-403 Coil
Stearns	1920-21		A-403 Coil (12-v)
Stearns Knight	1916-19	4-8 All Models	R-300 Coil with R-310 Bracket
Stephens	1917	60-65	C-500 Coil
Stephens	Late-1917-18-19	70-74	D-200 Coil with D-222 Bracket
Stephens	1921		C-500 Coil
Studebaker	1914-15	4-cylinder	C-501 Coil
Studebaker	1914-15	6-cylinder 6-50	R-300 Coil with R-310 Bracket
Studebaker	1916-17-18 -19	All Models	R-300 Coil with R-310 Bracket ★
Studebaker	1920-21	All Models	W-701 Coil
Stutz	1918 21	H	D-202 Coil
Sun	1916-17-18		R-300 Coil with R-320 Bracket
Templar	1917-18-19	445-645	R-300 Coil with R-320 Bracket
Velie Biltwell	1916-19	22-27-28-38-38-39	R-300 Coil with R-320 Bracket
Velie Late	1919-21	48	A-403 Coil
Velie Truck	1919	24	R-300 Coil with R-310 Bracket
Westcott	1916	41-51	D-200 Coil with D-210 Bracket
Westcott	1917-18	17	D-200 Coil with D-218 Bracket
Westcott	1919-21	C-38-C-48	D-202 Coil
Willys Knight	1918	88-8	R-300 Coil with R-330 Bracket
Willys Knight	1918-21	88-4-88-6	C-500 Coil
Willys Six	1918-19	89	C-500 Coil

The above is a list of popular cars. We can supply coils for all Standard Battery Ignition and low tension Magneto Systems. Write us giving name, year and model of car.

★R-300, 2 Post Coil. *NOTE:—When voltage is not specified it is understood that 6-volt coils are required.*

AUTO CLOCKS

Keyless Auto Clocks are the most practical auto clocks made. This unique way of winding and setting by the rim, thus eliminating the use of a key or a projecting stem, has made them very popular with the trade. They run eight days with one winding, are fully guaranteed, and are, without doubt, the handsomest auto clock on the market. They are built especially for automobiles and will stand the hardest vibration, and keep time under the most trying conditions. Dust and moisture proof.

COWL BOARD TYPE

KEYLESS

For Cadillac, Hudson, White, Buick, Overland, Cole, Studebaker, Austin, etc.

No. 5944—2¼ in. dial, cowl ring 3⅜ in., length of clock behind ring 1⅛ in., 8 day, rim wind and set, finish black enamel with nickel rim, w't each 2 lbs. .....each $16.60

ONE IN A BOX

LUMINOUS DIAL COWL BOARD TYPE

KEYLESS

No. 5947—2¾ in. dial, 8 day movement, rim wind and set, black enamel finish with nickel rim, genuine radium dial on black of highest quality, can be read at a glance either day or night, w't each 2 lbs.,
each $19.20

ONE IN A BOX

COWL BOARD TYPE

KEYLESS

For Reo, Chandler, Paige, Hudson, Hupmobile, Overland, Buick, Dodge, Mercer, etc.

No. 5945—2¼ in. dial, cowl ring 3⅜ in., length of clock behind ring 1⅛ in., 8 day movement, rim wind and set, finish black enamel with nickel rim, w't each 2 lbs.,
each $15.40

ONE IN A BOX

DENVER COWL BOARD TYPE

KEY WIND

Eight-day key wind, 2¼ in. dial second hand, sets flush with dash, w't each 1 lb.

No. 5941—Black enamel,
each $10.00

No. 5941A—Nickel plated,
each $10.00

ONE IN A BOX COMPLETE WITH FITTINGS

OFFSET TYPE

KEYLESS

No. 5946—2¼ in. dial, base 3⅛ in. length of clock 2⅜ in., rim wind and set, 8 day movement, thief proof, attached to dash from inside, black enamel finish with nickel rim, w't each 2 lbs. .....each $14.70

ONE IN A BOX

DASH OFFSET TYPE

KEY WIND

No. 5940—Black enamel, 8 day, key wind, 2¼ in. dial, second hand, w't each 1 lb. .....each $10.00

No. 5949—Frisco, 1 day, offset, 2¼ in. dial, stem wind and set, w't each ¾ lb. .....each $7.00

No. 5948—Frisco, 1 day for cowl board Fords, complete with a handsome 2¼ in., dial, concealed winding stem, w't each ¾ lb.,
each $7.30

No. 5931—Duane, one day, case heavy brass with offset, 1¼ in. dial, diam. 2⅞ in., w't each 12 oz.,
each $6.50

ONE IN A BOX

HEAT INDICATORS

BORG AND BECK

The Borg & Beck Heat Indicator accurately inricates on the dash motor temperature of the motor at all times.

Purely mechanical in operation—no electrical connections, nothing to break or get out of order.

Indicating hand on the dial is actuated through flexible, dental type shaft by a small but very efficient thermostat of novel design mounted against motor block by special clamping device. Each instrument is simply, quickly and permanently adjusted for running temperature of the individual motor at time of installation.

A precison instrument made of best possible materials, fully guaranteed by the manufactures and should be on the instrument board of every car.

Can be installed in one hour or less. One model for all cars.

It shows you how hot or how cold your motor is-not the temperature of your radiator.

You adjust this instrument to your motor. Whether the normal running point of the motor is low or high, you always know its exact condition.

By being attached to the motor it is not exposed to rain, snow or weather conditions.

The gauge is placed on the instrument board-and is easily read day or night. The large white pointer and novel dial makes it readable at a glance.

It is theft proof. Its location is such that it is not liable to breakage.

The design is simple and the best workmanship and materials available are used in its construction.

The universal clamp for attaching the unit to the motor makes the installation easy. Full instructions accompany each instrument.

No further attention is necessary after the instrument is once installed and adjusted.

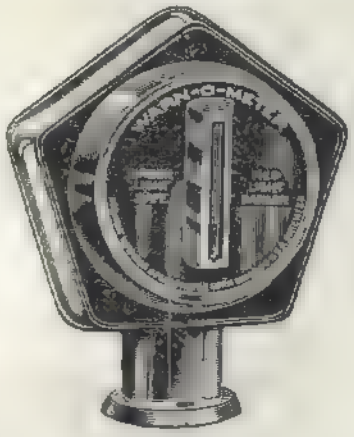
No. 5965—W't each 1 lb., each $12.70
ONE IN A BOX

STEWART WARN-O-METERS

The Stewart Warn-O-Meter prevents engine troubles resulting from overheating. It is an electrically operated instrument and may be installed on the radiator, fender, or on the hood of cars that are air cooled. It is wired to a thermostat installed on the engine. When the engine is cold, no light shows in the Warn-O-Meter. As soon as the engine reaches a normal and efficient operating heat, a green light appears. The red light, or danger signal, flashes on when the motor is becoming overheated, because the temperature is taken where the heat is generated, the motor cylinder.

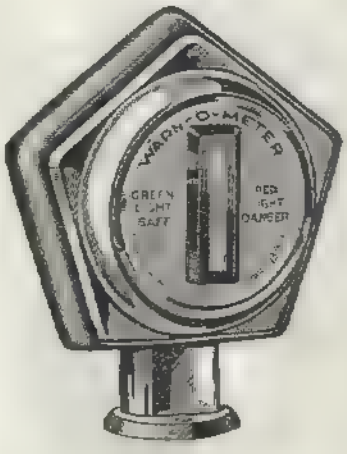
The Warn-O-Meter is not affected by the water or air of the radiator. It is electrically operated direct from the engine, assuring the driver of an accurate indication of the motor's heat.

The design in the Warn-O-Meter that faces oncoming cars is illuminated from within the instrument, and may be replaced by a car name-plate, lodge emblem, owner's initials, or some special design.

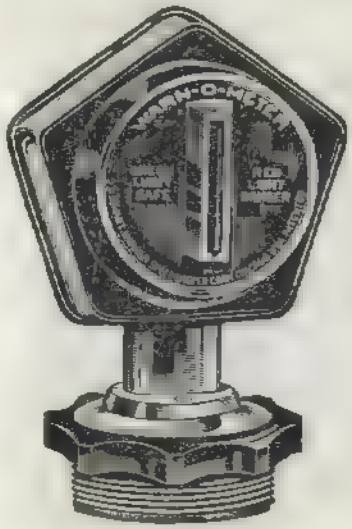


No. F5615—Standard Model 173A—Nickel plated finish, highly polished. Complete with all fittings, w't each 2½ lbs.★ .....each $13.34
ONE IN A BOX

STEWART WARN-O-METERS



No. F5616—DeLuxe Model 172A—nickel plated finish, highly polished, silver etched dial. Complete with all fittings, w't each 2½ lbs., each★ $16.68
ONE IN A BOX



No. F5617—173B for Ford Cars. Finished in black and nickel and complete with Stewart Radiator Cap. Operates the same as the DeLuxe and standard models. Complete with all fittings, w't each 2 lbs., each★ $13.34
ONE IN A BOX

FRICTION TOYS

Auto Truck—10.5x4 in. red enameled body, gilt wheels and stripings
F8326—¼ doz. in pkg Doz. **$3.85**

Locomotive and Tender—12x4 in. red enameled body, gilt wheels and stripings
F8327—¼ doz. in pkg . . Doz. **$3.85**

Coaster Boy—6x3½x4½ in., green sled, gilt disc wheels, boy with brown sweater cap and stockings, yellow trousers and shoes
F8309—½ doz. in box . . . .Doz. **$7.60**

Trolley Car—11½x4½x8 in., orange enameled body, green top, yellow wheels.
F8324—½ doz. in box . . Doz. **$7.50**

Tricky Duck—7½x3½x8 in., gilt bill and wheels, green and yellow enameled body, orange wings, red head, runs straight or in circle.
F8305—½ doz. in box . . .Doz. **$7.50**

Roadster—10x5x4½x3½ in., red body, gilt running board and wheels, gilt trim hood and radiator, green seat and back, blue chauffeur
F8329—½ doz. in box Doz. **$7.60**

Auto Truck—15x5x5½ in., blue body, yellow wheels, mud guards, running board and trim, red and blue chauffeur, loaded with miniature grocery packages
F8307—½ doz. in box . . . . Doz. **$9.10**

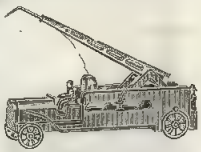
Locomotive and Tender—18x6½ in., red enameled body, gilt wheels and trim
F8308—½ doz. in box . . . . Doz. **$8.00**

Hatterstip—15x3½x7½ in., white enameled body and hull, green water line, 4 orange cabins, 2 orange smokestacks, gilt wheels
F8306—½ doz. in crate . . Doz. **$9.10**

Touring Car—15x5x6¼ in., green body and top, gilt running board wheels and trim, green seat, red chauffeur
F8327—½ doz. in box . . . .Dos. **$9.10**

Aeroplane 17x12½x5 in yellow body and disc wheels, red propeller tail and wings, aileron control, red white and blue insignia, red and blue aviator
F8328—½ Doz. in box . . . Doz. **$9.00**

Auto Fire Engine—14x7x8½ in. yellow enameled body, gilt wheels, striping and bell, two 7 in. red ladders, red bolter, painted chauffeur and firemen.
F8329—½ doz. in box . . .Doz. **$13.50**



Water Tower—10½x5x7½ in., yellow body and wheels, green running board, mud guards and 3 firemen, green and red trim
F8316—½ doz. in box Doz. **$13.50**

Hook and Ladder—14x5x5½ in., orange body, green running board mud guards and trim, two 7 in. yellow ladders and wheels, green and red chauffeur
F8317—½ doz. in box Doz **$8.85**

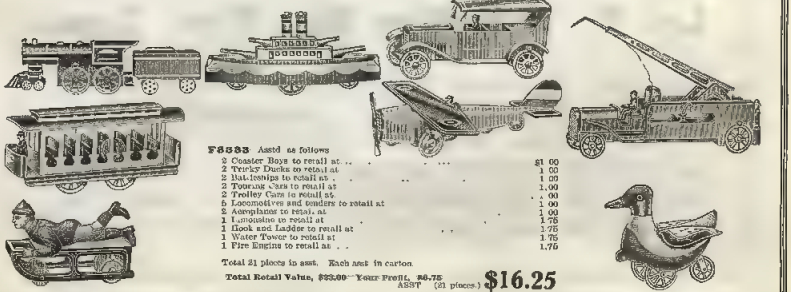
Limousine—12x5½x6 in red body, green running board, mud guards door and roof, chauffeur gilt wheels and trim
F8331—½ doz. in box . . Doz. **$12.60**

"OUTS"

are beginning to appear even in our immense stocks, due to the avalanche of orders we are getting in each day's mail. You will help us and help yourself if you tell us in case any item is out to send the nearest like it.

"High Power" Friction Toy Assortment

A specially selected assortment of the very best numbers in our regular line. Proportioned to sell out evenly. You can get higher prices on some of these items than noted below.



F8333 Assd as follows

2	Coaster Boys to retail at	$1 00
2	Tricky Ducks to retail at	1 00
2	Hatterstips to retail at	1 00
2	Touring Cars to retail at	1.00
2	Trolley Cars to retail at	1 00
2	Locomotives and tenders to retail at	1 00
2	Aeroplanes to retail at	1 00
1	Limousine to retail at	1.75
1	Hook and Ladder to retail at	1.75
1	Water Tower to retail at	1.75
1	Fire Engine to retail at	1.75

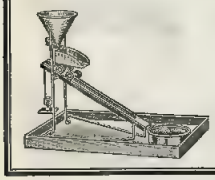
Total 21 pieces in asst. Each asst in carton

Total Retail Value, $33.00 Your Profit, **$6.75**

ASST (21 pieces.) **$16.25**

AUTOMATIC TOYS

Famous "Sandy Andy Jr."



Our exclusive property, you cannot duplicate this value elsewhere.

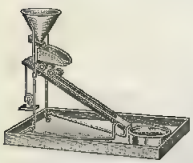
F2901 Ht. 11 in., heavy wire frame, steel incline, hopper and car, bright enameled, 3½ in red and green hopper, 10 in. green incline 3½ in. blue and white car, with can of sand each in box. ½ doz. in carton.
Doz. **$3.95**

SAND OPERATED AUTOMATIC TOYS

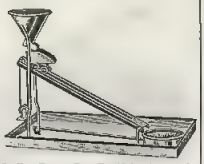
All sand toys in cardboard boxes that can be used as trays.

"Dumping Sandy"—Ht. 13 in., heavy steel frame, hopper and car, footed base, 5½ in red and green enameled hopper, 4 in blue and white enameled car Complete with scoop and can of sand.
F2899—¼ doz. in box..... Doz. **$5.20**

Dumping Crane—Ht 13½ in., heavy wire frame, heavy steel hopper bucket rear and base, 5½ in. green and red enameled hopper yellow and blue enameled bucket, blue enameled sand, 6x8 in. red and green enameled base Complete with box of sand.
F2894—½ doz. in box.... Doz. **$10.25**



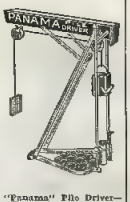
"Sandy Andy"—Ht 13½ in heavy wire frame, steel incline, hopper and car, 5½ in. red and green enameled hopper, 13¾ in. green enameled incline, 4 in yellow, blue and green enameled car Complete with can of sand.
F2884—¼ doz. in box .. Doz. **$7.20**



Incline Dump Car—Ht. 18 in., heavy wire frame, steel incline, hopper, and car 6½ in red and green enameled hopper, 19½ in. green enameled pressed incline, 5½ in yellow blue and green enameled car Complete with large can of sand.
F2897—½ doz in box. . Doz. **$10.25**

MARBLE OPERATED AUTOMATIC TOYS

"Bizzy Andy Jr." Trip Hammer—7 in high, green enameled and brassed steel throughout, 4½ in chute, 7 in trip hammer, 6x2½ in trip, very lively action. Complete with marbles
F2900—½ doz. in box Doz. **$1.90**



"Panama" Pile Driver—Ht 17 in., heavy steel frame, chute, trip, pile driver and marble receiver, bright, enameled 12 in green and red chute with yellow lettering, black and yellow imitation pile driver green marble receiver, easy running pulleys, iron weight. Complete with marbles.
F2674—½ doz. in box. Doz. **$8.25**

"Rowter Andy" Mill—Ht. 18¼ in. heavy steel chute, shaft, wind mill, elevator and base, bright enameled, 10½ in green & red chute with yellow lettering, blue & green easy running gear Windmill, green elevator, iron weight. Complete with marbles.
F2898—½ doz. in box. Doz. **$12.00**

SAND MOTOR PAILS AND SHOVELS

Strictly quality workmanship, exceptionally fine enamel finish ½ in riveted turned edge enamel handles. Assted red, blue and green.

F2888—Ht. set up 7¼ in., 4 x 4 pail with slop sluice, lacquered inside, 7½ in handle, 4 x2½ base stand with chute and 6 cup sand motor 8 in colored shovel Assted ½ doz in box.
Doz **$2.10**

LITHO SAND PAILS AND SHOVELS

Exceptionally fine workmanship, bright enamel finish inside, 7 assted. juvenile designs, heavy galvanized 1 piece shovels.

F2861—5¼x5 in., 2½ in wire bail handle, 8¼ in. shovel Assted. 1 doz. in box, . . Doz. **92c**

F2835—6¼x6½ in., 11½ in. riveted handle ½ in wide with turned edges, 11½ in. shovel Assted ½ doz. in box
Doz. **$2.10**

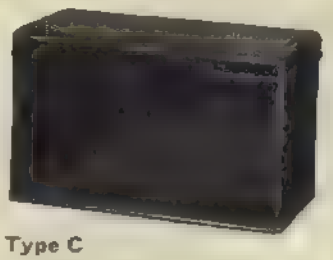
Let Us Help You Buy Your Toys

Save time and money in buying your Holiday lines by having our expert buyers make up an assortment of goods for you. Just state the amount ($100, $250, $500, $750, $1,000, etc.) you wish to invest and the general lines you wish to embrace. We will make up a well balanced assortment of goods that will move quickly and profitably for you.

BATTERY BOXES, TOOL BOXES, AND KITS

BATTERY BOXES

Of sturdy construction; finished in baked black enamel; Corners rounded on ⅜-in. radius, equipped with Yale lock



Type C

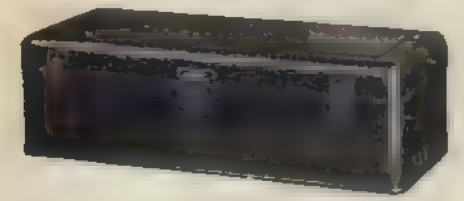
No. C-119—Length 11 7/16-in., Width 8⅝-in., Height 10¾-in. ..... Each $4 25
No. C-168—Length 16-in., Width 8⅝-in., Height 9⅞-in ..... Each 5 00

BATTERY BOXES

This box was designed to meet the demand for protection of the battery in Ford cars without changing location as originally installed. The present unprotected location of the battery permits water, mud and slush to be splashed on it continually thus corroding the lid and connections of the battery

For Fords
No. 811—Battery Box Each $2 75

TOOL BOXES



No. 2296

This tool box is designed for Ford cars. It measures 22 inches long, 9 inches wide and 6¼ inches high. Will accomodate all Ford tools, including the tire pump with Yale lock
No. 2296—Tool Box ..... Each $4 50

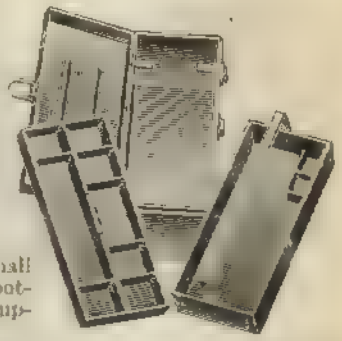
PEERLESS TOOL BOX

No. 30

A light weight, reasonable priced tool box, designed especially for Fords; Size 22x9x7 inches deep; furnished with two adjustable bolts and nuts. Box has reinforcing corrugations throughout, giving it the strength of boxes made of much heavier material
No. 30—Peerless Tool Box Each $3 00

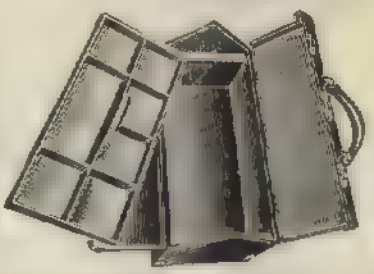
KENNEDY TOOL KIT

This Combination Case is designed for use both in the shop and for outside work. It is equipped with two trays. The upper tray is three inches deep and has a handle which turns down into tray so that the tray may be easily removed from the Case and carried. The lower tray is divided into compartments for bits, drills and small parts. Plenty of room in bottom of Case for other equipment.



No. 716—Size 16x7x9 inches ..... Each $6 50

KENNEDY TOOL KITS



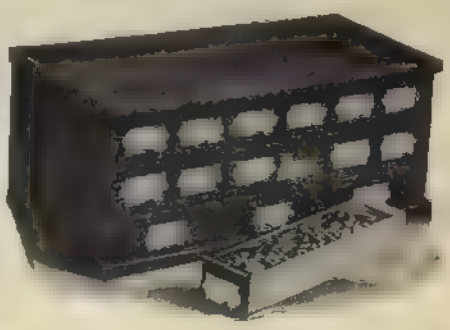
The Kennedy Kit, an all steel grip that will not wear out. For carrying tools, clothing or equipment. Looks like a traveling bag and is no heavier with tray divided into small partitions for carrying drills, bits, small parts, etc. Tray is made of light-weight steel 1¾ inches deep and rests on ledges at top of case. Contents cannot spill out if bag is loaded, as flat bottom will prevent overturning.
No. 116—16x9x11-inch high .. Each $5 50
No. 118—18x10x13-inch, high Each 5 75

KENNEDY MACHINISTS KIT

The material and construction of this case is such that it will not swell, warp, crack, split or go to pieces. Reinforced at all points of strain. Drawers run on separate tracking and are right and left so as to go easily into place. Front drops and slides under lower drawer when open. Fastens at bottom and secured locks to upper lid when closed. Electric welding and inner corrugation in lid. Will carry heaviest equipment
No. 518—Size 18x8x12½ inches Each $17 50

HANDY SERVICE CABINET

Built of well-finished fumed oak; 12 drawers, 3"x3"x12" 3 drawers 6"x 3"x 12" drawers sides and bottom, of galvanized sheet steel to prevent sticking. Each drawer is fitted with a combination pull and card holder



No. 3000—Handy Service Cabinet Each $16.00

RED SEAL DRY BATTERIES

Square.

Extended Carbon. Spring Binding. Flush Top.

Round.

In stock flush top batteries, supplied in either round or square cartons. Can furnish with extended carbons or spring binding post connectors by shipping direct from factory.

Have proven themselves to be the most serviceable battery for automobile, motorboat or any system of gas engine **ignition purposes;** are also a superior cell for telephone, telegraph, door bell, signal service or in fact any work requiring a high grade dry battery.

Fitted with 1⅛-inch carbon, which gives much more contact surface and the mixture is made from the purest quality black oxide of manganese. The zinc case is tested thoroughly for air holes before being filled, insuring them against loss of strength from leakage.

Red Seal batteries are extensively advertised and well known as a standard battery.

GUARANTEE: We agree to credit account, replace batteries, or refund amount paid for any Red Seal Batteries which do not prove satisfactory.

SQUARE PATTERN

	Width	Height	Amp.	Volt	No. in Bbl.	Wgt. Bbl	Each
Size A	2½ in.	6¾ in.	Over 20	Over 1.50	125	290 lbs	$0.70

ROUND PATTERN

	Diam.	Height	Amp.	Volt	No. in Bbl.	Wgt. Bbl	Each
Size A	2½ in.	6¾ in.	Over 20	Over 1.50	125	290 lbs	$0.50
Size B	3 in.	7½ in.	Over 20	Over 1.50	50	205 lbs	1.00
Size C	3¼ in.	8½ in.	Over 20	Over 1.50	50	315 lbs	1.40

Note Unless otherwise specified Square Pattern will be shipped.

Combination Barrel Assortment; consisting of 50—Size A Square Red Seal Batteries in 12 No. A141 Red Seal Sparkers; weight 250 pounds. ..... Each $

RED SEAL SPARKER DRY BATTERIES

No. A141.

No. A162.

A solid dependable battery unit connected either in series or multiple series, ready to use immediately by making necessary connections to two terminal binding posts; positive and negative posts are indicated by the proper symbol stamped on sealing compound along side binding posts, cells are perfectly insulated from one another and hermetically sealed in container, so that only two terminal binding posts and carrying strap protrude through sealing compound, terminal nuts on binding posts are imbedded in a square shaped mold of insulating material so that a wrench or strap of metal accidently may come in contact with both binding posts will not cause a short circuit; size and shape of the insulated terminal nut permits sufficient pressure to be exerted to insure a perfect and permanent contact without using pliers, carrying handles of strong webbing having ends securely anchored in interior of battery.

Cat. No.	No. of sets	No. Cells in Ser's	No. Rows	Voltage	Length Inches	Width Inches	Height Inches	No. per Bbl.	Wt. Lbs per Bbl.	Each
A121	1	2	1	3	5	2¾	7½	50	280	$1.75
A141	1	4	1	6	10⅜	2¾	7½	25	290	2.70
A142	1	4	2	6	5⅛	5⅛	7½	25	290	2.70
A162	1	6	2	9	7⅝	5⅛	7½	17	290	3.90

Packed in barrels. Third class freight.

HOG RINGERS AND RINGS

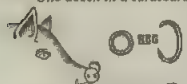
WOLVERINE RINGERS

Japanned cast iron, wrought iron rivet at joint. For Wolverine rings Nos. W1 and W2.

Per Dozen

No. 10—Length 7¾ inches $5 25

One dozen in a cardboard box; weight per dozen 9 lbs.



WOLVERINE RINGS

Stamped from sheet steel, coppered.

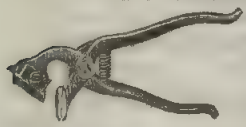
Per Dozen Boxes

No. W1—For pigs $6 30

No. W2—For hogs 6 30

One hundred in a cardboard box, one doz. boxes in a package.

ANTI-ROOTERS



NEW IDEAL

Blades are of oil tempered steel, with copper base or anvil to cut on; aluminum finish.

Does not injure the nerves of the snout or rooter. Per Dozen

No. 1—Length 12 inches $33 00

One in a cardboard box; weight per dozen 2½ lbs.

HOG TONGS

HILL'S PATTERN

Malleable iron, japanned and painted; suitable for all size hogs.

Per Dozen

No. 2—Length 14 inches; width between jaws 3 in $14 40

Half dozen in a cardboard box; weight per dozen 16 lbs.

PIG FORCEPS

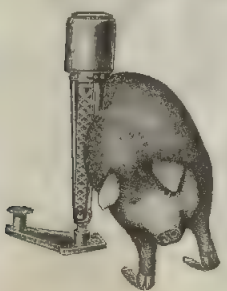
PRATT'S

Made of best quality steel, nickel plated and polished. Simple in construction and perfect in operation; will not slip or injure the sow.

Per Dozen

No. 10—Length 14 inches $38 25

One in a cardboard box; weight per dozen 8 lbs.



HOG OILERS

NATIONAL AUTOMATIC

Answers the purpose of a dipping tank. Distributes the oil on the belly and in the armpits as well as on the backs of large and small hogs.

Built entirely of solid cast iron.

Each

No. N5 Oil capacity 1½ gallon; height over all 35 inches ..... +$29 25

Crated; shipping weight each 50 lbs.

+F. O. B only.

BULL RINGS

THE NEW IDEAL

Polished copper, *self* piercing; it is not necessary to make or pierce a hole in the animal's nose before inserting the ring, but is only necessary to hack small screw out until it is clear of the lower half of the ring, open the ring up and insert in the animal's nose.

Per Dozen

No. 10—Diameter of bowl 2½ inches $9 60

One dozen in a cardboard box; weight per dozen 2¾ lbs.

STANDARD

Polished copper; 5/16 inch metal, with set screw joint, fastener and steel wire screw driver.

Nos.	4	5	6
Diameter, inches	2	2½	3
Weight per dozen, lbs	1¾	2¼	2½
Per Dozen	$6 00	7 05	7 80

One dozen in a cardboard box.

ALUMINUM

Light and strong; 5/16 inch metal, with set screw joint, fastener and wire screw driver.

Per Dozen

No. 51—Diameter 2½ inches $7 05

One dozen in a cardboard box; weight per dozen 1 lb.

SELF-PIERCING

Polished copper; complete with set screw and wire screw driver.

Per Dozen

No. 50SP—Standard Pattern, 5/16 inch metal; diameter 2½ inches $9 45

No. 60SP Extra heavy pattern, 3/8 inch metal; diameter 3 inches 13 80

One dozen in a cardboard box; weight per dozen about 1½ lbs.

CATTLE LEADERS

Plain malleable iron, rivet joint; wire spring; ball tipped bowl.

Nos.	1	2
Diam. bowl, in.	2	3
Wt. per doz., lbs	3	4
Per Dozen	$4 20	4 50

One dozen in a cardboard box.

OX BALLS

Solid cast brass; to screw on horns of cattle to prevent injury to each other.

Per Gross

No. 10—Medium; length ¾ inch; diameter outside ¾ inch, 5/16x1/2 inch threaded hole. $22 05

Sixth gross in a cardboard box; wt. per gross 6 lbs.

Per Gross

No. 2—Heavy, length ¾ inch; diameter outside 7/8 inch, 5/16x1/2 inch threaded hole $26 25

Sixth gross in a cardboard box; wt. per gross 8 lbs.

OX BOW PINS

Solid cast steel, natural finish; single spring.

Per Dozen

No. 2 -Opening 2 inches wide; 5/16 inch pin; length over all 4½ in. $4 65

One dozen in a cardboard box, weight per dozen 2 lbs.

We do not break packages

Per doz.
N26907—COFFEE MILL—5½ inches square, 3 inches high, decorated in appropriate colors. Packed 1 dozen in paper box, not broken.. 3.60

Per doz.
N26689—DAISY CHOPPER—Length, 5½ inches. 1 dozen in box, not broken 3.50

Per doz.
N26687—SCALE, FOUR WEIGHTS —Length, not including scoop, 5 inches. Width 2½ inches, height 3 inches. ½ dozen in package, not broken 3.92

Per doz.
N26690—PUMP, WITH BUCKET — Height, 8 inches Each in box.. 8.00

Per doz.
N26910—TOY HATCHET—Polished blade, gold bronze head, hard wood handle, 8¾ inches long, weight 4½ ounces each. Size of head 3x2 inches. Packed 1 dozen in paper box, not broken..... 1.36

Per doz.
N26911—TOY HAMMER — Plain white nickeled, natural hard wood handle. 11 inches long, weight 6 ounces. Packed 1 dozen in paper box, not broken. .80

N26912—TOY HAMMER — Nickel plated, black enameled handle. Length 11 inches, weight 6 ounces. Packed 1 dozen in box, not broken 3.84

LAWN MOWERS

Per doz.
N26692—LAWN MOWER—Length 20¼ inches. Iron wheels, with revolving cutter. Wooden handle. 1 dozen in box, not broken 3.84

N26692

N26699—LAWN MOWER—Length 25 inches. 6 inches wide; iron wheels with revolving cutter. ½ dozen in box, not broken.. 7.68

N26700—LAWN MOWER—Length 31½ inches. 8½ inches wide. ½ dozen in box, not broken..... 11.76

Iron Stoves

Per doz.
N26691—IRON RANGE — Nickel plated; size 3¼x2¾ inches, with utensils; ½ dozen in package, not broken 3.92

Per doz.
N26692—IRON STOVE—Nickel plated; size 4½x3¾ inches, with utensils, ¼ dozen in box, not broken 7.84

Per doz.
N26698—IRON STOVE—Nickel plated; size 5½x4 inches, with 3 utensils 11.62

IRON STOVES

Per doz.
N26694—IRON STOVE—Nickel plated; size 7x4 inches, with 3 utensils 15.00

Per doz.
N26695—IRON STOVE Nickel plated, size 8½x5½ inches, with 3 utensils 23.50

Per doz.
N27044—TOY STOVE—Polished in black enamel, has doors that open; a real rocking grate and utensils, length 3 inches, height 4½ inches; each in box..... 16.00

Each
N26696—NICKELPLATED STOVE —Length 12 inches, height 10 inches, width 5½ inches. Complete with utensils in carton.... 3.00

Iron Stoves

Each
N26697—NICKEL-PLATED STOVE —Length 12⅞ inches, height 11½ inches, width 6 inches Complete with utensils in carton 3.80

Tin Stoves

Per doz.
N26699—TIN STOVE—Length 5½ inches, height 7½ inches width 4 inches. 3 utensils..... 4.50

N26900—TIN STOVE—Length 6⅛ inches, height 8¼ inches, width 4¼ inches 10 utensils... 8.80

N26901—TIN STOVE—Length 9¼ inches, height 10½ inches, width 5½ inches 13 utensils.... 13.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Moving Picture Machines, Air Rifles

MOVING PICTURE MACHINES

N26821

N26822

N26823

N26824

N26825

Each

N26821—F. ASHLIGHT MOVIES. Equipped with flashlight case without batteries and three feet of new Safety Film, standard gauge. Size of machine 13x4½x8½ inches. Made of steel, baked crystalized enamel finish. Nickeled lens rim and trimmings. Wooden base. Size of picture 3x4½ inches at about 10 feet from the wall. Equipment consists of one compartment slide, one "I Drive-Em" slide, two colored slides showing supply of tickets, bill posters, officer's operator's, chief taker's badges, soldier's arm bands and a sheet of simple instructions. Weight, packed in strong box, 5 pounds. ——— 7.50

N26822—MOVING PICTURE MACHINE—Electric, with 20 feet of used theater film, standard wide gauge. Equipped with 75 feet of used theater film, standard wide gauge. Adjustable for electric bulb. Mechanism, rewind. Furnished with same general equipment as that of N26821. Size of machine 6½x14½x13 inches. Size of picture 4x5½ inches. Arc type bulb may be used up to 200 Watts. Two larger the bulb, the larger picture obtained. Made of steel, baked crystallized enamel finish. Brass trimmings. Wooden base with rubber tabs on bottom to protect furniture being scratched. Packed in strong box, complete, 15 pounds. ——— 12.40

N26823—MOVING PICTURE MACHINE—Electric, equipped with 200 feet of used theater film, standard wide gauge. This machine will unwind and rewind up to 1000 feet of film. The rewind attachments are easy to assemble. Adjustable to any size electric bulbs. General equipment consists of extra large lens tube, with lens adjusting mechanism, and three powerful lenses, including condensing lens. Heavily nickeled reflector. One compartment slide, 11 extra colored slides, 100 theater tickets, generous supply of bill posters, officer's, ticket taker's, slides, 100 theater tickets, generous supply of bill posters, officer's, ticket taker's, slides and operator's badges, taker's arm bands and complete instruction. Made of steel, leather pattern, baked crystallized enamel finish. Brass trimmings. Adjustable reel arms. Sprocket teeth with rubber to prevent film from coming off or tearing. Size of machine 6¾x14½x13 inches. Packed complete in strong box. ——— 19.60

N26824—MOVING PICTURE MACHINE—Electric equipped with 75 feet of used theater film, standard wide gauge. Adjustable for electric bulb. Mechanism, rewind. Furnished with same general equipment as that of N26821. Size of machine 6¾x14½x13 inches. Size of picture 4x5½ inches. Arc type bulb may be used up to 200 Watts. The larger the bulb, the larger picture obtained. Made of steel, baked crystallized enamel finish. Brass trimmings. Wooden base with rubber tabs on bottom to protect furniture being scratched. Packed in strong box, complete, 15 pounds. ——— 12.40

N26825—MOVING PICTURE MACHINE—Electric, equipped with 200 feet of used theater film, standard wide gauge. This machine will unwind and rewind up to 1000 feet of film. The rewind attachments are easy to assemble. Adjustable to any size electric bulbs. General equipment consists of extra large lens tube, with lens adjusting mechanism, and three powerful lenses, including condensing lens. Heavily nickeled reflector. One compartment slide, 11 extra colored slides, 100 theater tickets, generous supply of bill posters, officer's, ticket taker's, slides, 100 theater tickets, generous supply of bill posters, officer's, ticket taker's, slides and operator's badges, taker's arm bands and complete instruction. Made of steel, leather pattern, baked crystallized enamel finish. Brass trimmings. Adjustable reel arms. Sprocket teeth with rubber to prevent film from coming off or tearing. Size of machine 6¾x14½x13 inches. Packed complete in strong box. ——— 19.60

Magic Lanterns

N26404

Per doz.

N26404—MAGIC LANTERN—Black Japan metal, with six slides. 6¼ inches long, 6¼ inches high. Packed each in box. ——— 13.80

Ronson Repeaters

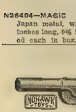
N26309

Per doz.

N26309—RONSON REPEATER—A toy replica of the famous Ronson revolver, which operates automatically without caps, smoke powder or flame, works on the old flint and steel principle. Has a knurled wheel, fruited on the automatic, with each pull of the trigger against the marking disk producing a brilliant red flash through the small windows at the side of the muzzle. Made of pressed steel, length 6¾ inches when in closed position. ——— 4.00

N26301—RELOADS FOR RONSON REPEATER—Each package contains one piece equal to 5,000 shots. ——— 0.40

Liquid Pistols

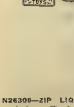

N26838

Per doz.

N26838—DAISY LIQUID PISTOL—Blue, blue finish, designed after the latest automatic pistol, simple to operate, no rubber bands or parts to get out of order, and throws the stream of water a distance of about 25 feet, length 7¾ inches. ——— 4.84

N26837—DAISY LIQUID PISTOL—Blue steel finish, automatic design, simple to load and discharge, throws a fine stream of water about 25 feet, length 7¾ inches. ——— 7.68

Toy Guns


N26709

Per doz.

N26709—BIG CHIEF GUN—Stained wooden stock, blued barrel. Length 31 inches. Supplied with lever device to replace popping cork, 24 doses in carton, not broken. ——— 4.20

N26781—LARGE AUTOMATIC—Stained wooden stock, blued metal barrel. Length 18 inches. Pump lever mechanism. Loads 12 inches at a dozen in box, not broken. ——— 4.20

N26466—"EXCELSIOR" GUN AND TARGET—19 inches in length. Shoots rubber tipped arrow, which adheres to flat surface by suction. ½ dozen in box, not broken. ——— 4.00

N26467—Same as N26466. 28 inches in length. With two arrows. Each in box, four boxes in package. ——— 9.00

N26833

N26833—LITTLE DAISY POP GUN—Made entirely from steel, handsomely blued and fitted with walnut stock, shoots a cork and makes a loud noise with shoulder to discharge, each 10 inch. ——— 9.24

N26834—LITTLE DAISY POP GUN—Made of steel, nickel plated, black walnut stock, extra large barrel; shoots a cork or rubber ball; full length 20 inches. ——— 13.72

N26835

N26835—DAISY POP GUN—Pump action; automatic loading; has rubber tipped bayonet; length including bayonet, 31 inches. ——— 14.40

Air Rifles

N26938

Per doz.

N26938—LITTLE DAISY—Shoots BB shot, length, 29 inches. ——— 14.10

N26939

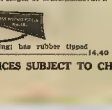
N26939—DAISY SINGLE SHOT—With new lever action; shooting barrel is removable and allows the use of either air rifle shots or darts, a durable gun that shoots strong and accurately, length 34½ inches. ——— 23.04

N26940

N26940—DAISY 250 SHOT—With lever action, working parts made of steel and brass, all parts interchangeable, black walnut stock, barrel finely nickeled, length 39½ inches. ——— 31.36

N26941

N26941—DAISY AUTOMATIC REPEATER—With lever action, magazine holds 500 shots, working parts made of steel and brass, all parts interchangeable, black walnut stock, barrel finely nickel plated, length 43 inches; weight 5 pounds 10 ounces. ——— 39.20


N26942

N26942—DAISY MAGAZINE REPEATER—Lever action; magazine holds 1,000 air rifle shots and loads by operating the lever, shooting barrel, provided with patented shot retainer that enables the user to shoot downward without losing shot; an exclusive Daisy idea, turned stock of genuine black walnut, highly polished, fitted with blued steel butt plate, shoots with great force and precision, length 36 inches. ——— 47.04

N26943

N26943—DAISY PUMP ACTION REPEATER—Operation by pulling the slide toward the stock; fires rapidly from the shoulder, the magazine having a forced feed; nickel parts in non-reflecting gun blue, stock genuine black walnut; hand polished, adjustable sights, front and rear, length 35 inches, weight 7¼ pounds. ——— 18.40

Steam Boats

N26846

Each

N26846—STEAMBOAT Torpedo type, decorated in colors, polished brass bother, steam chest mounted on an inclined frame, balance wheel connected to cylinder and propeller shaft, 2 bladed propeller, lamp securely soldered in bottom of boat, length 18½ inches. ——— 3.50

N26845—Same as N26846. Length 15 inches, 4-inch boiler. ——— 4.50

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

CELLULOID DOLLS

Heavy celluloid bodies, some flesh finished others nicely painted in bright, attractive colors always in demand the year 'round. Liberally.

STATIONARY ARMS

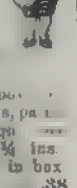
T1136—Assorted flesh tint celluloid dolls, painted features and [illegible] ins. length 1¾ ins. 1 gross in box. Gross .85

T1151 Standing celluloid doll; pink tint, military cap left and sword in colors; height 3½ ins., 1 doz. in box. Dozen .75

T1134 Assorted colors, flesh tint dolls nicely modeled, beautifully colored; will stand; length 2¾ ins.; 6 doz. in box. Dozen .40

T1171—Girl dolls, flesh tinted; nicely modeled, painted features, bright color fluted dress and skirt; hat to match; length 4¾ ins.; ½ doz. in box. Dozen .72

T1143 Assorted dressed celluloid dolls, in bright colors, with musical instruments, violins, accordions, etc.; height 3 ins., 3 dozen in pkge. Dozen 40



T1103—Flesh tinted soldier boy; fez cap, gilt tassel, breast strap, belt and sword, fancy silver and gilt necklace; length 4 ins; 1 dozen in box. Dozen .08

T1137 Assorted boy and girl celluloid dolls, painted features, bright costumes length 2¾ ins. 6 dozen assorted in box. Dozen .38

T1152—"Bobby," standing; embossed hair, painted features, assorted bright color, coat, trousers, and tie; black shoes; length 3¾ ins. 1 dozen in box. Dozen 79

T1137½ Assorted 6 kinds [illegible] various equipments, belts, swords, [illegible] etc., bright colors; length 2¾ ins.; 3 dozen in box. Dozen .38

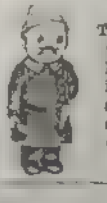
T1107 — Girl doll with violin; embossed hair, painted features; green dress, red cloak; painted shoes and stockings bright colors; height 4¼ ins.; 1 dozen in box. Dozen 75

T1154 Assorted 3 kinds, boy and girl dolls assorted bright color suits and dresses, embossed hair, nicely painted features, length 4 ins.; 1 dozen in box. Doz. 45

T1142—Flesh tinted soldier boy with cap, belt and sword; painted features; length 3½ ins. 3 dozen in box. Dozen 45

T1207 — Dutch boy, finely modeled and finished in bright colors height 5 ins.; 1 dozen in box. Dozen 1.38

T1147—3½ in. celluloid doll; red coat, blue trousers, yellow and green cap, with sled on back; nicely modeled and painted; 2 dozen in box. Dozen .72



T1208 — Policeman, a typical corner cop; nicely modeled and finished in assorted bright colors and gold; good expression; height 5½ ins.; 1 doz. in box. Doz. 1.38

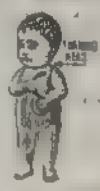
T1150—Finely modeled dressed celluloid doll; green coat, red trousers, black shoes with basket of fruit; will stand, assorted boy and girl; length 3¾ ins., 1 dozen in box. Dozen 69

T1202—Finely modeled girl doll; with umbrella, yellow skirt, red coat, green hood, painted features and shoes, length 5 ins.; ½ doz. in box. Dozen 1.35

T1149—Embossed hair 4 in. doll, green sweater, red trousers, black shoes, holding small kewpie doll; good features, bright colors; 3 doz. in box. Dozen 72

T1222—Extra fine standing boy doll; flesh tint, embossed hair, good features green costume, red trousers, black slippers, gilt trim; holding camera; height 7 ins.; 1 doz. in box. Doz. 3.75

STATIONARY ARMS MOVING HEAD



T1161 — Baby doll, flesh tint; embossed hair, painted features, [illegible] ing bottle; jointed turning head length 4 ins., 1 dozen in box. Dozen 72

CELLULOID KEWPIE DOLLS JOINTED ARMS

T1105 — Flesh tinted, painted features and hair, stationary arms, height 1¾ ins.; 1 gross in box. Dozen .39

T1107—Same, jointed arms, height 2 ins., 1 dozen in box. Dozen .86

T1108—Same, height 3½ ins., 1 doz. in box. Dozen 1.10

T1110—Same, height 4¾ ins.; ½ dozen in box. Dozen 2.00

T1111—Same, height 5½ ins.; 1 in box. Dozen 2.25

T1112—Same, height 7½ ins.; 1 in box. Dozen 4.50

T1113—Same, height 9 ins.; 1 in box. Dozen 9.50

T1114—Same, height 10 ins.; 1 in box. Each .90

CELLULOID NOVELTIES

T1173 — Set consists of five 2½ in. celluloid soldier, an [illegible] plume [illegible] tain mounted on iron stand, [illegible] and horse 4x4 inches; nicely colored [illegible] all with military equipment; on card 1 box 6½x9¼ ins. Dozen sets 2.00

PADDY AND PIG

T2374— Celluloid jointed leg pig, with jointed head rider; finished in bright colors; can be placed in numerous, amusing positions; length 4 ins.; 4½ in. high 1 dozen in box. Dozen .95

ROLY POLIES

T2577—Assorted 12 kinds, assorted subjects, nicely painted; height 1¾ ins.; 1 dozen in box. Dozen .45

SEND US YOUR ORDERS

COMPOSITION NOVELTY DOLLS

KEWPIE DOLLS

T1296—Full composition, jointed arms, good feature; height 8½ ins.; each in box. Each .72

T1297-Same, with round base, height 12½ ins.; each in box. Each 1.28

TISS ME

Embossed hair

T1279 — Composition wood fibre, flesh tint embossed hair painted features, jointed arms; height 8½ ins. each in box. Dozen 4.00

SWEETIE KID

T1268—Full wood fibre composition, painted features, height 3¾ ins.; ½ dozen in box. Dozen .80

TISS ME

Natural hair

T1280—Full composition, bisque finished body, shoulder joint, fine expression, natural hair wig with net; height 3½ ins., each in box. Each .72

SPLASH ME

T1271—Composition wood fibre; flesh tint; red bathing suit and slippers; fancy cap; height 4¾ ins.; ½ dozen in box. Dozen 2.00

With natural hair

T1274—Same, with natural hair wig and net, height 4¾ ins.; ½ doz in box. Dozen 4.50

KEWPIE GIRL

Natural hair

T1299—Full composition, natural flesh tint; jointed arms; painted goo, goo eyes; full natural hair wig with net; on round blue base; height 12½ ins.; 1/6 doz. in box. Each 1.68

DRESSED CELLULOID DOLLS

T1761—Assorted boy and girl; embossed hair, painted features; checked gingham rompers and dresses; shoulder and hip jointed; height 7½ ins., 1 dozen assorted in box. Dozen 2.00

T1762—Same, larger; height 9½ ins., 1 dozen in box. Dozen 4.25

KIDOLYNE AND KID BODY DOLLS

The very best values in both domestic and imported kidolyne and kid body dolls on the market; all nicely modeled and well sewed with extra quality mohair wigs.

WHITE KIDOLYNE DOLLS

MOVING EYES, BISQUE HEAD AND HANDS, SHOULDER AND HIP JOINTED, CUT KNEE

White kidolyne body, well stuffed and sewed; shoulder bisque head and hands; moving eyes, side parted wig; open mouth showing teeth; shoulder and hip jointed, cut knee, stockings and slippers; each in box

		Doz.
GT232	Length 13 ins	4 50
GT235	Length 15½ ins	6 50
		Ea.
GT240	Length 20½ ins	79

FULL JOINTED WITH EYE LASHES

GT242 Same as above, but shoulder, elbow, hip and knee jointed, moving eyes, with natural eye lashes; length 14½ ins.; each in box. Each..... .82

WHITE KIDOLYNE DOLLS

MOVING EYES WITH LASHES, BISQUE HEAD AND HANDS FULL JOINTED

Bisque head and arms, moving eyes with lashes; open mouth showing teeth; side parted wig with 2 ribbon bows; shoulder, elbow, hip and knee jointed; removable shoes and stockings each in box.

GT262	Length 14 ins.	Each 1 28
GT264	Length 16 ins.	Each 1 68
GT266	Length 18 ins.	Each 2 25
GT268	Length 20 ins.	Each 2 85

WHITE KIDOLYNE DOLLS

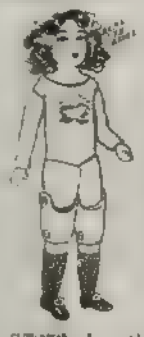
MOVING EYES, WITH LASHES SHOULDER, ELBOW, HIP AND KNEE JOINTED, LONG CURL WIG

Bisque head, moving eyes with lashes; open mouth, showing teeth sewed wig, long curls, ribbon bows, Kidolyne body, cork stuffed bisque hands, shoulder, elbow, hip and knee jointed, movable stockings and slippers each in box

		Each
T1246	Height 12 ins	1 25
T1247	Height 14½ ins	1 68

WHITE KIDOLYNE DOLLS

MOVING EYES WITH LASHES, CELLULOID HEAD, HANDS AND ARMS, FULL JOINTED.



Natural color celluloid head, arms, hands and limbs, moving eyes with eyelashes; open mouth showing teeth, side parted sewed wig, 2 ribbon bows; shoulder, elbow, hip and knee jointed, removable stockings and slippers, each in box.

GT252	Length 13 ins.	Each 1 68
GT253	Length 14½ ins.	Each 2 15
GT254	Length 16 ins.	Each 2 85
GT255	Length 19 ins.	Each 3 75
GT257	Length 21 ins.	Each 4 90

PINK KIDOLYNE DOLLS

MOVING EYES, BISQUE HEAD, COMPOSITION HANDS, FULL JOINTED

Pink kidolyne body, well sewed and stuffed; shoulder bisque head, composition arms; shoulder, elbow, hip and knee jointed, sewed, parted curly wig; sleeping eyes, removable slippers and stockings; each in box

GT201	Length 11 ins.	Doz. 9 50
GT204	Length 17½ ins.	Each 1 25
GT209	Length 20½ ins.	Each 1 72
GT211	Length 23 ins.	Each 2 25

WHITE KID BODY DOLLS

MOVING EYES, WITH EYE LASHES, BISQUE HEAD, FULL JOINTED

Extra good quality, white kid, carefully sewed and stuffed; bisque head and hands; moving eyes with eye lashes, open mouth showing teeth, curly mohair wig, ribbon bows; shoulder, elbow, hip and knee jointed; stockings and slippers; each in box

		Each
GT293	Length 15½ ins.	1.48
GT294	Length 16 ins.	1.78
GT296	Length 17 ins.	2.00
GT296	Length 18½ ins.	2.25
GT297	Length 20 ins.	2.75
GT298	Length 21 ins.	3.25
GT299	Length 22 ins.	4.75

EXTRA FINE KID BODY DOLLS

MOVING EYES WITH LASHES, BISQUE HEAD AND HANDS, SHOULDER, ELBOW, HIP AND KNEE JOINTED.

Selected white kid, carefully sewed and well stuffed, bisque heads and hands, open mouth, showing teeth, extra fine parted wig with ribbon bows; moving eyes, lashes, shoulder, elbow, hip and knee jointed; removable stockings and slippers; each in box.

GT303	Length 17 ins.	Each 3.25
GT304	Length 19 ins.	Each 4.00
GT305	Length 21 ins.	Each 5.25

IMPORTED FULL JOINTED DOLLS

The most realistic faces yet produced; natural flesh tinted, full jointed; fine show numbers.

BISQUE HEAD, MOVING EYES, EYE LASHES, MOHAIR WIG, SHOULDER, ELBOW, WRIST HIP AND KNEE JOINTED

Bisque turning head, moving eyes, open mouth showing teeth, side parted wig, ribbon bow, composition body, wood arms and limbs; shoulder, elbow, hip and knee jointed wire spring struts white lace trim chemise

GT341	Length 12 ins.	Doz. 4 50
GT342	Length 13 ins.	Doz. 6 00

With Jointed Wrist

GT343	Length 13½ ins.	Doz. 9 25
GT344	Length 15 ins.	Each 1.10

BISQUE HEAD, MOVING EYES EYELASHES, MOHAIR WIG, WALTER HAUSER BODY, SHOULDER, ELBOW, WRIST, HIP, KNEE JOINTS.

Bisque turning head, moving eyes with lashes; open mouth showing teeth, side parted curl wig, Walter Hauser body, with wood arms and limbs, shoulder, elbow, wrist, hip and knee jointed; lace trim white chemise; removable socks and slippers, each in box

		Each
GT357	Length 14½ ins.	1 15
GT359	Length 16½ ins.	1 28
GT360	Length 17 ins.	1 45
GT362	Length 19½ ins.	1 78
GT363	Length 22 ins.	2.25
GT364	Length 24 ins.	2 50
GT365	Length 27 ins.	2 75

BISQUE HEAD, MOVING EYES EYELASHES, MOHAIR WIG, SHOULDER, ELBOW, WRIST, HIP AND KNEE JOINTED

Bisque head, moving eyes with lashes, open mouth showing teeth, side parted wig, ribbon bow, flesh tinted full over position arms; ball socket shoulder, elbow, wrist and hip joints, white lawn slip removable socks and slippers; each in box

		Each
GT367	Length 24½ ins.	3.10
GT368	Length 26½ ins.	3.50
GT369	Length 27½ ins.	3.75
GT370	Length 29½ ins.	4.25

"HANDWERK" DOLLS EXTRA FINE

Bisque head, moving eyes, with lashes open mouth showing teeth; parted, sewed natural hair wig, double ringlet curls; composition body, wood arms and limbs extra quality mat finish; shoulder, elbow, wrist, hip and knee jointed; embroidered wool chemise; each in box

		Each
GT376	Length 18 ins.	2.75
GT379	Length 21 ins.	3.25
GT381	Length 23½ ins.	3.75
GT384	Length 25¾ ins.	5.00
GT385	Length 27½ ins.	6 00
GT386	Length 30 ins.	7.50
GT389	Length 34½ ins.	9 00
GT390	Length 39 ins.	12 50
GT391	Length 41½ ins.	16.50

Celluloid Kewpie

N18311

N18311—CELLULOID KEWPIE— Per doz.
With stuff legs and rubber jointed arms. Height 4½ inches. ½ dozen in box 3.84

Bisque Kewpies

N18281-82

BISQUE KEWPIES—Rubber jointed arms, stuff legs, painted hair and features.
Per doz.
N18281—Length 5¾ in. Each in a box 3.84
N18282—Length 6½ in. Each in a box 8.00

Rubber Dolls

N25912 N25913

N25912—ASSORTED GRAY RUBBER DOLLS—6 styles in a box, average length 3½ inches. 1 dozen in a box, not broken..... Per doz. 1.50

N25913—SIX ASSORTED GRAY RUBBER TOYS—With rubber string attached, average length 3 inches. 1 dozen in a box, not broken 1.70

N25915 N25919

N25914 ASSORTED GRAY RUBBER DOLL—Height 4 inches. 1 dozen in box ..... Per doz. 1.70

N25915—Height 4½ inches; 1 dozen in box 2.20

N25919—ASSORTED BOY DOLLS—Height 6½ inches..... 3.84

N25916—GRAY RUBBER BABY IN TUB—½ dozen in a box..... 2.80

DOLL HEADS

China Doll Heads for Dolls

We Do Not Break Packages

N26723

All head measurements are from bust to back and from shoulder to shoulder.

N26720—GLAZED CHINA HEAD. With painted hair and features. Measures from bust to back 1⅛ in. and from shoulder to shoulder 2⅛ in., packed one dozen in box..... Per doz. 2.40

N26721—GLAZED CHINA HEAD With painted hair and features. Measures 1⅞ in. by 2½ in., packed one dozen in box..... 2.80

N26722—GLAZED CHINA HEAD.—With painted hair and features. Measures 1 3/4 in. by 2⅞ in., packed one dozen in box..... 4.00

Bisque Heads

N25724

N26723—BISQUE HEAD With moving eyes, open mouth showing teeth. Curly mohair wig with bangs. Measures 2¾ in. by 3 in., packed ½ dozen in box. Per doz. 9.60

N26724—BISQUE HEAD—With moving eyes, open mouth showing tooth, and real hair eyebrows, curly mohair wig with side part and bow for hair decoration. Measures 3¼ in. by 3¾ in., packed ½ dozen in box..... 15.00

N26726—Same as N26724, but measures 2¾ in. by 3¾ in., packed ½ dozen in box..... 21.00

N26725—Same as N26724, but measures 2¾ in. by 4¾ in., packed ½ dozen in box..... Each 2.80

N26727—Same as N26724, but measures 3¾ in. by 4¾ in., packed ½ dozen in box..... 3.60

N26728—Same as N26724 but measures 3¾ in. by 5¾ in., packed ½ dozen in box..... 5.60

Mervina Metal Heads

Metal Heads—Painted Hair and Eyes

N26729—METAL HEAD—With painted hair and features. Measures 1¾ in. by 2½ in., packed ½ dozen in a box..... Per doz. 4.00

N26730—Same as N26729, measures 2¼ in. by 2⅞ in., packed ½ dozen in box..... 7.20

N26731—Same thing, measures 2¾ in. by 3¼ in., packed ½ dozen in box. 9.00

N26732—Same thing, measures 2¾ in. by 3⅞ in., packed ½ dozen in box. 12.00

N26733—Same thing, measures 3¾ in. by 3⅝ in., packed ½ dozen in box. 18.00

N26734—Same thing, measures 3¾ in. by 4⅜ in., packed ½ dozen in box. 17.00

Metal Heads—Mohair Wigs—Moving Eyes

N26735—METAL HEAD—With moving eyes, open mouth showing teeth. Curly mohair wig with side part and bow for decoration. Measures 1¾ in. by 2⅜ in., packed ½ dozen in box..... Per doz. 15.60

N26736—Same thing, measures 2¼ in. by 3 in., packed ½ dozen in box. 19.00

N26737—Same thing, measures 2¾ in. by 3¾ in. packed ½ dozen in box. 2.00

N26738—Same thing, measures 3½ in. by 3⅞ in., packed ½ dozen in box. 2.80

N26739—Same thing, measures 2¾ in. by 4⅝ in., packed ½ dozen in box. 3.40

RUBBER DOLLS

N26917

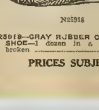
N26917—GRAY RUBBER CAT IN BASKET—1 dozen in a box. not broken ..... Per doz. 2.80

N26920 N26921

N26920—GRAY RUBBER DOLL—With knit suit, height 6½ inches; ½ dozen in box..... Per doz. 3.02

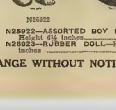
N26921—ASSORTED RUBBER DOLLS—4 styles, including girl and clown dolls, average length 6 inches. ½ dozen in a box, not broken 3.92

N26926—RUBBER DOLL—With knitted suit and cap, height 8½ inches 7.84



N25916

N25918—GRAY RUBBER CHILD IN SHOE—1 dozen in a box, not broken ..... Per doz. 2.80



N26922 N26923

N26922—ASSORTED BOY DOLLS—Height 6¼ inches..... Per doz. 3.92

N26923—RUBBER DOLL—Height 8 inches..... 3.92

Rubber Animals

B

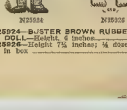
N25927—ASSORTED GRAY RUBBER ANIMALS—6 styles, average length 3½ inches. 3 dozen in a box, not broken ..... Per doz. 1.70

N25928—ASSORTMENT OF 6 STYLES GRAY RUBBER ANIMALS—Average length 4 inches. ½ dozen in a box, not broken..... Per doz. 2.80

N25929—ASSORTMENT OF 6 STYLES GRAY RUBBER ANIMALS Average length 5½ inches, average height 3½ inches. ½ dozen in a box, not broken..... Per doz. 3.92

N25930—ASSORTMENT OF 6 STYLES GRAY RUBBER ANIMALS—Average length 5¼ inches, average height 3½ inches. ½ dozen in a box, not broken..... Per doz. 3.92

N25931—GRAY RUBBER HORSE—Average length 5¼ inches. Each in a box ..... Per doz. 7.84



N25934 N25935

N25924—BUSTER BROWN RUBBER DOLL—Height 6 inches..... Per doz. 5.32

N25926—Height 7½ inches; ¼ dozen in box 7.84

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

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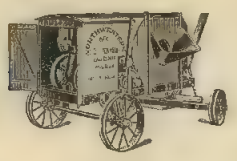
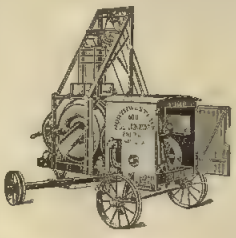
CONCRETE BATCH MIXING MACHINES

NORTHWESTERN

Designed to meet the demand for compact and reliable Concrete Batch Mixers of ample capacity for Contractors and Builders in mixing concrete or mortar. The Manufacturers Guarantee, as well as that of Marshall-Wells Company, goes with every Machine, which is guaranteed from defect in workmanship and material for a period of one year.



Outfit No. F450-4



Outfit No. F450-6

Combine well established principles in Quick Mixing and Rapid Discharging Drum Mixers; The Drum Shell is heavy 10 gauge Steel, fitted into Semi-Steel Drum Ends, equipped with Chilled Drum Tracks; The Mixing Drum is balanced on four Trunnion Rollers with Chilled Faces and fitted to Cold Rolled Steel Shafts which revolve in Babbitted Boxes; All parts fitted to the Drum are bolted and bolts protected with Lock Washers; The Drum Heads are held in place by six Steel Rods and the mixing is done with six Steel Blades and six Semi-Steel Buckets; The Drum will make 20 revolutions a minute which will give complete mixing in 60 seconds.

The Under-Frames of these Mixers are Steel throughout, of ample strength for hard and rough usage; Steel Wheels are set at standard Wagon Track Gauge which is a great advantage to contractors using Mixers in country districts.

Northwestern Engines supply adequate power and are the simplest Engines which the contractor can use, being equipped with water-cooled Hopper and frost-proof Cylinder; The Gears are enclosed in dustless Crank Cases and perfect carburetion is secured by Auxiliary Air Compensating Carburetor made only by the manufacturers of these Engines; Gasoline Tank holds sufficient fuel for a day's run and is fed by gravity through the Cylinder of the Engine so that there is no danger of explosion by gasoline leaking from a poor pump.

There is ample power in Northwestern Engines for these Mixers to be operated at any altitude and these models have been successfully used by contractors all over the United States.

MODEL 605

Capacity 6 Cubic Feet; 3½ H. P. Engine

	Each
+No. F450-4—On Steel Truck with Wheelbarrow Hopper, Gasoline Engine, Steel Housing and Team Pole	$945.00
Weight 2270 Lbs.	
+No. F450-6—On Steel Truck with Side Loader, Hoist and Frame, necessary Cable, Automatic Water Tank, Gasoline Engine, Steel Housing and Team Pole, no Wheelbarrow Hopper.	$1287.00
Weight 2940 Lbs.	

EXTRAS FOR MODEL 605

	Each
+No. F450D—Wheelbarrow Hopper; Weight 10 Lbs. Each	$
+No. F450E—Automatic Water Tank; With Float and Supporting Frame; Weight 70 Lbs. Each	
+No. F450F—Measuring Gate Batch Hopper; Weight 75 Lbs. Each	
+No. F450H—Steel Truck, Axles, Wheels and Poles; Weight 400 Lbs. Each	
+No. F450J—Northwestern Vertical Gasoline Engine; Weight 440 Lbs. Each	

+All Above for shipment only from Factory, F. O. B. Eau Claire, Wis.

Cross References

For	See Page
Concrete Drills	13
Sidewalk Tools	114, 117
Concrete Rubbing Bricks	239
Sand Driers	415

For	See Page
Concrete Wheelbarrows	440
Moulders Shovels	458
Road Builders Shovels	458

MARSWELLS FEATHERWEIGHT

THE STANDARDIZED HIGHWAY BUILDERS SHOVEL

The Ideal Dirt Shovel for all general Contract and Farm Work.

Blade is Free Scouring, saving Hours per Day in Gumbo or Wet Clay,

Our Testing Laboratory, after years of research, after wearing out hundreds of Shovels by various violent Grinding and Smashing Tests, closely approximately every-day use, know the correct specifications and treatment necessary for the Finest Shovel Steel.

THE MARSWELLS FEATHERWEIGHT IS THE RESULT

The New Split Dee Handle gives the finishing touch of perfection; Reinforces the Grip, prevents splitting, and adds a Spring and Life that means More Work with Less Effort.

Century BICYCLES GUARANTEED ONE YEAR

The "Century" line has become firmly established as a sturdy attractive high class line of bicycles. All of our models are perfectly balanced and are finished in the most desirable colors. Please note that this line of bicycles is equipped with the newest accessories and mechanical improvements.

Each "Century" bicycle has the following desirable features and equipment:

FRAMES—20 gauge seamless tubing, flush reinforced fishtail joints.

FINISH—3 coats "Anti-rust" baked-on enamel

CHAIN—½ in. pitch roller, makes easier riding.

CONES—Turned from solid bar, full polished.

CRANK HANGER — 1 piece drop forged.

HUBS AND COASTER BRAKES—"New Departure."

SADDLES—"Troxel" easy riding

TIRES—U. S. chain tread single tube tires, fully guaranteed.

PEDALS—"Torrington," ball-bearing rubber tread, motorcycle type.

"NEW DEPARTURE" COASTER BRAKE

"CENTURY" ROADSTERS

For Boys and Girls

FRAME—Boys', drop bar; girls', standard loop

COLOR—Medium blue with white band

MUD GUARDS—Medium blue with white panel

RIMS—Aluminum finish wood.

SADDLE—Troxel's "Scout," coil spring padded top

HANDLE BARS—"Schauer" 3 in. extension

GRIPS—Non-slip reinforced rubber

BOYS'—1" in. x 3 seat post 20 in. handle bars 3 in. extension, 20 in. rims, 3 in. motor, bumper
1K1468—1 in crate 48 lbs. Ea. **$28.50**

YOUTHS'—19 in. x 1" seat post 22 in. handle bars, 20 in. rims, 2 in. crank hanger
1K1469—1 in crate 48 lbs. Ea. **$29.50**

GIRLS'—17 in. loop frame, 20 in. handle bars 20 in. rims, 2½ in. crank hanger
1K1467—1 in crate, 48 lbs. Ea. **$29.50**

NOTE: The 17 in. Juvenile frame will be shipped with 20 in. wheels unless 16 in. wheels (frame size 15 in. seat tube) are specified. Adjustable seat posts permit us to extend handle bars and saddle.

"CENTURY" Motor-Bike Type BICYCLES

Light Weight Model For Men

With "New Departure" Coaster Brake

FRAME—Drop top bar 21 in. at seat post
COLOR—Bright green with white band
MUD GUARDS—Enameled to match frame
RIMS—26 in. aluminum finished wood
TIRES—26 in. U. S. chain tread
SADDLE—Troxel's Top Notch," padded top, motorcycle type coil springs.
HANDLE BARS—28 in. wide, 5 in. rise, 3 in extension
GRIPS—Motorcycle type, reinforced rubber
STAND—Clamped iron enameled to match frame

1K1470—1 in crate Each ***31.50**

Standard Model For Men

With "New Departure" Coaster Brake

FRAME—Double curve bar 21 in. at seat post
COLOR—Army green with white band a beautiful bright effect
MUD GUARDS—Drop side motorcycle type, enameled to finish
RIMS—Aluminum finished wood
SADDLE—Troxel No. 2, motor-bike padded top, coil springs.
HANDLE BARS—22 in. wide, 5 in. rise, 3 in. extension
GRIPS—Motorcycle type, reinforced rubber
STAND—Clamped iron enameled to match frame
TIRES—28 in. U. S. chain tread, single tube

1K1472—1 in crate Each. **$36.75**

GUARANTEE *Every part is guaranteed, except tires, for 12 months from date of purchase against defects in workmanship or materials. Tires are guaranteed for the season in which they are purchased. Tires are not guaranteed against punctures or blowouts. Any parts will be replaced without charge when sent direct to us transportation charges prepaid. Returns must come through the merchant, not the rider. We make no allowance for repairs made locally*

WELL KNOWN SPARK PLUGS

"CHAMPION" DEPENDABLE SPARK PLUGS

Quantity price applies solid or assorted See list below showing cars on which you can use these plugs

4K8110 — (Mfrs A-151, X-spec-ial) ⅜ in. Each 45c
Lots of 100, 41c

4K8129—(Mfrs A8-44, 7/8 in. long: Each 53c
Lots of 100, 50c

4K8142 — (Mfrs JC-48) ⅝-18. Each
Lots of 100, Out

4K8114 — (Mfrs Jm-43), "Acme" ⅝ in. regular Each 53c
Lots of 100, 50c

4K8116 — (Mfrs A-14), "O," ⅝ in., special: Each 53c
Lots of 100, 50c

4K8113 — (Mfrs A-26), ⅝ in. long: Each 53c
Lots of 100, 50c

4K8117 — (Mfrs A26) "Long" ⅝ in. Each 53c
Lots of 100, 50c

4K8112 — (Mfrs ⅛ x 18 A 43 standard Each 53c
Lots of 100, 50c

4K8119 — (Mfrs A A 15) Con-ical ⅝ in Each 53c
Lots of 100, 50c

4K8118 — (Mfrs J-33) ⅝-18, heavy duty: Each 53c
Lots of 100, 50c

4K8120 — (Mfrs AA-53) ⅝-18, long, shell conical porcelain Each 53c
Lots of 100, 50c

4K8121 — (Mfrs A-53) ⅝-18, long shell conical porcelain Each 53c
Lots of 100, 50c

"CHAMPION" PORCELAINS

4K8126 — (Mfrs A 105) For Champion X plugs Guaranteed against heat breaking. Gaskets included with each porce-lain. Each
Lots of 10, 22c
" 100, 21c

4K8127 — (Mfrs A 124) Suitable for all Champion plugs with ex-ception of "Champion X." Each 27c
Lots of 100 25c

A "CHAMPION" PLUG FOR EVERY CAR

Passenger Cars	Plug No	Each
ANDERSON	4K8116	53c
AUBURN	4K8112	53c
BRISCOE	4K8114	53c
BUICK (to 1922)	4K8120	53c
CADILLAC	4K8114	53c
CHALMERS	4K8114	53c
CHEVROLET	4K8121	53c
COLE	4K8114	53c
DODGE	4K8120	53c
ELCAR	4K8117	53c
FORD (Champion X)	4K8110	45c
REO	4K8113	45c
HAYNES	4K8114	53c
HOLMES	4K8118	53c
JACKSON	4K8114	53c
JORDAN	4K8121	53c
KING	4K8114	53c
KISSEL	4K8121	53c
LEXINGTON	4K8112	53c
LINCOLN	4K8114	53c
LOCOMOBILE	4K8118	53c
MARMON	4K8118	53c
MERCER	4K8118	53c
METZ from 1921	4K8113	53c
MIDLAND	4K8114	53c
OAKLAND	4K8121	53c
OLDSMOBILE SIX	4K8121	53c
OLDSMOBILE EIGHT	4K8114	53c
OVERLAND FOUR	4K8113	53c
PACKARD	4K8114	53c
PEERLESS	4K8114	53c
PIERCE-ARROW	4K8114	53c
REO	4K8121	53c
REMAIER	4K8114	53c
SAXON (to 1921)	4K8113	53c
SCRIPPS-BOOTH	4K8121	53c
SPERIDAN	4K8114	53c
STANDARD	4K8118	53c
STEARNS-KNIGHT	4K8114	53c
STUDEBAKER 1919 and earlier	4K8118	53c
STUTZ	4K8118	53c
TEMPLAR	4K8118	53c
Commercial Cars	**Plug No.**	**Each**
FORD (Champion X)	4K8110	45c
GRAHAM	4K8114	53c
PACKARD	4K8114	53c
REPUBLIC	4K8118	53c
STEWART	4K8112	53c
Tractors	**Plug No**	**Each**
FORDSON	4K8113	45c

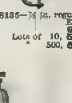
"A C" TITAN QUALITY SPARK PLUGS

Quantity price applies solid or assorted See list below showing cars on which you can use these plugs

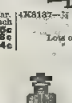
SPECIAL "AC" PLUG FOR FORD CARS

4K8145—(Mfrs. 1079) Designed and built specially for Ford Motor ⅞ in. thread, patented carbon proof construction 1 in. bore. Each 49c
Lots of 10 " 44c
" 100, " 42c
" 500, " 41c

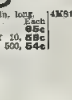
4K8148 Porcelain for 4K8145 plug, special carbon proof porcelain.
Each, 22c
Lots of 100, " 21c



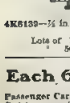
4K8135—⅝ in. regular. Each 65c
Lots of 10, 58c
" 500, 54c



4K8137—¾ in. long. Each 65c
Lots of 10, 58c
" 500, 54c



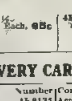
4K8138—Long 8 A. E. Each 65c
Lots of 10, 58c
" 500, 54c



4K8139—⅞ in. long body Each, 65c
Lots of 10, " 58c
" 500, " 54c

4K8141—S. A. E., extra long. Each, 65c

4K8142—Long ⅝. Each, 65c



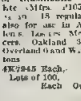
4K8143 — Factory equipment on all Dodge cars. Each, 65c

"SPLITDORF" GREEN JACKET SPARK PLUGS

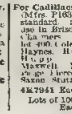
Special core construction of wrapped India mica insulator, covered with green porcelain jacket, plug will still fire if porcelain is broken, will not break down under high tension current, leak-proof, easily cleaned guaranteed trouble proof

Ford Special Fit (Mfrs P170, ⅝ in long also for use in Fordson Tractors, Overland 4, Reo cars & trucks prior to 1917. 4K7946 Each, 50c
Lots of 100, " 48c

For Buick 1918 and Later, Etc—(Mfrs. P784). ½ in 18 heavy type, also for use in Chevrolet 8 and Scripps-Booth. 4K7944— Each, 58c
Lots of 100, " 56c



For Oldsmobile 8, Six (Mfrs. P165), ⅝ in 18 regular, also for use in Allens, Lexis, Mercer, Oakland 34, Overland 4 and Willys 4K7945 Each, Each Out



For Overland Four, Six (Mfrs. P144 ⅝ in standard, also for use in any automobile taking 3 standard ½ in. plug 4K7943 Each, 58c
Lots of 100 " 56c

For Cadillacs, Etc—(Mfrs P165), ⅝ in, standard size, also for use in Brisco, Case, Chalmers, Chevrolet 6, Cole, Dodge, Haynes, Hudson 6 and 8, Jordan, Maxwell, Packard Single Eleven-Arrow Saxon Stutz 4K7941 Each, 58c
Lots of 100, Each, 56c

Each 65c "A C" TITAN PLUGS FOR EVERY CAR Each 65c

Passenger Cars	Number	Passenger Cars	Number	Passenger Cars	Number	Commercial Cars	Number
Buick—except 35	4K8137	Jackson	4K8135	Paige	4K8135	Acme	4K8135
Buick, Model 35	4K8148	Jewett	4K8135	Premier—1916-1	4K8138	Ajax	4K8135
Cadillac	4K8135	Kissel	4K8135	Premier—1 p to 1916	4K8135	Available	4K8135
Case	4K8135	Lafayette	4K8135		4K8142	Chevrolet	4K8137
Chalmers	4K8135	Liberty	4K8135	Reo	4K8135	Lycoming	4K8135
Chandler—1918 to 1921	4K8139	Maxwell	4K8135	R. & V. Knight	4K8135	Diamond T	4K8135
Chevrolet	4K8137	McFarland	4K8141	Saxon	4K8138	Federal	4K8135
Cleveland	4K8135	Nash To 1920	4K8138	Scripps-Booth—6 cyl	4K8138	Grant-Bernstein	4K8138
Cole	4K8135	Nash—1920-21	4K8141	Scripps-Booth Four	4K8137	Hall	4K8138
Davis	4K8135	National	4K8135	Standard Eight	4K8138	Monotonemy	4K8135
Dodge	4K8149	Oakland 36-50	4K8135	Sheridan	4K8137	Old Reliable	4K8135
Hudson—Up to 1921	4K8135	Oakland 6	4K8136	Studebaker		Oldsmobile	4K8137
Hupmobile	4K8135	Oldsmobile—To 1918 and all 8 cyl	4K8131	Stearns-Knight—To 1917	4K8137	Packard	4K8135
		Oldsmobile—6 cyl	4K8138	Westcott	4K8135	Reo	4K8142
		Packard	4K8135	Willys Knight	4K8139	Republic	4K8135
						Sandow	4K8133
						Ylin	4K8135

Also we can furnish "A-C" spark plugs for any car not listed above

Put A Price Ticket On Every Item

PORTABLE FORGES

CHAMPION STEEL BLACKSMITHS'

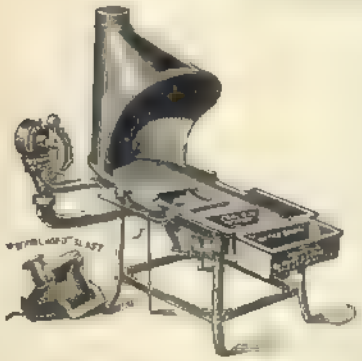
Adjustable ball bearings and half hood.

Especially designed and built for heavy as well as light work; well braced with angle steel. Crank turns either way to make a blast; each turn of the crank produces 46 complete revolutions of the blast wheel. Fan 12 inches in diameter, high speed, produces white heat blast.

No. 408. Hearth 30x36 inches, height 30 inches, complete with No. 400 Champion Whirlwind blast anti-clinker heavy nest tuyere iron; weight each 305 pounds .....each, **$130.00**

Extra. For water tank.....each, **10.00**

CHAMPION CAST IRON HEARTH BLACKSMITHS'

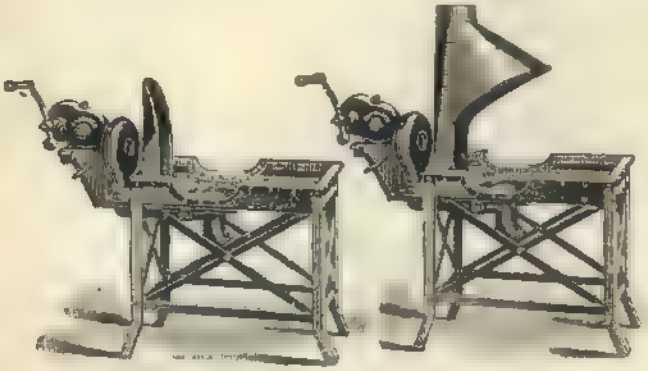


Adjustable ball bearings and half hood.

Recommended for the heaviest as well as the lightest work, and for use in blacksmith shops, garages, machine shops, etc., and any special work. Crank turns either way to make a blast; each turn of the crank produces 46 complete revolutions of the blast wheel. Fan 12 inches in diameter, high speed; produces white heat blast.

No. 433. Cast iron hearth 32x45 inches, complete with No. 400 Champion Whirlwind blast anti-clinker heavy nest tuyere iron; weight each 410 pounds.. each, **$110.00**

Extra. For water tank.. each, **10.00**



No. 404 with Shield **No. 405 with Half Hood**

CHAMPION STEEL RIVET AND TOOLMAKERS'

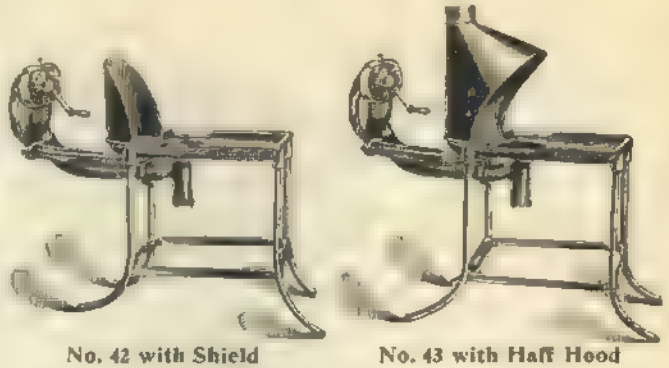
Adjustable Ball Bearings

A very light, stiff and practical forge for garages, horseshoers, tool makers, tank and bridge builders, boiler work, oil field work, or any inside or outside work. The blower and all machinery can be taken off for transportation.

No. 404. Champion steel rivet forge, with shield; hearth 24x24 inches, height 30 inches; fan 9 inches in diameter; weight each 180 pounds.....each, **$90.00**

No. 405. Champion toolmakers' forge, with half hood; hearth 24x24 inches, height 30 inches; fan 9 inches in diameter; weight each 185 pounds.....each, **98.00**

PORTABLE FORGES



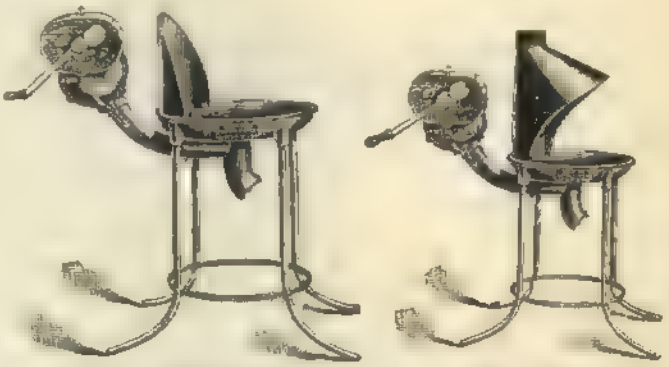
No. 42 with Shield **No. 43 with Half Hood**

LANCASTER GEARED AGRICULTURAL

A well built, low priced, direct drive forge; gives a good blast and is recommended for farmers' use. Well finished in every respect, with large hearth and fan. Blower equipped with extra large gears, accurately cut, running in a constant oil bath. High speed spindle with case hardened end, thrust ball bearing. Smooth running, with crank turning in either direction to produce the blast.

No. 42. With shield; hearth 23x35 inches, height 30 inches; fan 12 inches in diameter; heavy nest ball tuyere iron and shield; weight each 210 pounds.. each, **$72.00**

No. 43. With half hood; hearth 23x35 inches, height 30 inches, fan 12 inches in diameter, heavy nest ball tuyere iron and half hood; weight each 215 pounds .....each, **80.00**



No. 45 with Shield **No. 46 with Half Hood**

LANCASTER GEARED AGRICULTURAL

Recommended for farmers, garages and for general use where a well built, cut-geared, low priced, good blast producer is desired; suitable for all kinds of portable work; easily carried about, and makes a good rivet forge. Blower made with cut gears, noiseless and running in an oil bath; crank running in either direction to produce the blast.

No. 45. With shield; hearth 22 inches in diameter, height 30 inches; fan 10 inches in diameter; heavy tuyere iron and shield; weight each 140 pounds.. each, **$54.00**

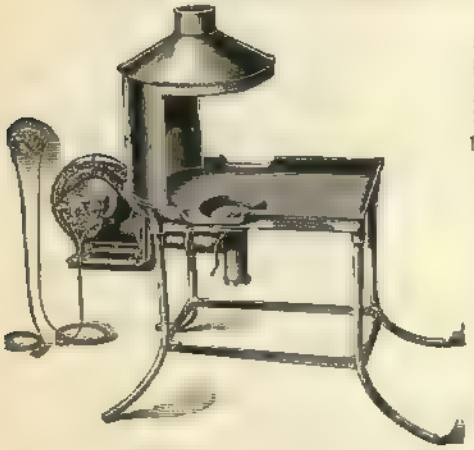
No. 46. With half hood; hearth 22 inches in diameter, height 30 inches; fan 10 inches in diameter; heavy tuyere iron and half hood; weight each 145 pounds .....each, **60.00**

PORTABLE FORGES

*Electric Driven

These electric driven forges are designed to meet the demands for all blacksmiths' heating purposes, from the smallest up to 4 inch square material, and the variations of the blast are governed by the six different changes in speed, as selected or desired, by movement of the lever on the detached rheostat; equipped with universal motor, for both direct and alternating current, either 110 or 220 volts, with detached rheostat for six speeds. Attachment plug to fit any electric light socket, and can be installed without any added expense.

CHAMPION MACHINISTS' CAST IRON



A particularly good forge for garage use in heating and tempering; all parts well finished and braced.

No. 443. With hood; complete with one fire, variable speed, electric blower and ball tuyere iron; hearth 23x35 inches, height 30 inches; weight each 215 lbs.. ....each, **$135.00**

CHAMPION BLACKSMITHS' CAST IRON

A very complete and practical outfit; large and roomy cast iron forge.

No. 441. With hood; complete with one fire, variable speed electric blower, whirlwind blast anti-clinker tuyere iron; hearth 32x45 inches, height 30 inches. weight each 400 pounds... ....each, **$160.00**

Extra. For water tank .. .. each, **10.00**

CHAMPION STEEL RIVET

Adjustable ball bearings, designed for use of railroads, bridge builders, boiler and structural iron workers. Equipped with a specially designed blower, which gives a strong positive blast, suitable to weld 3½ to 4 inch iron in 10 minutes. Gearing is the Champion No. 400, high speed, spiral construction; noiseless in operation and very efficient.

No. 401. With shield; round hearth 18 inches in diameter; height 30 inches; fan 9 inches in diameter; weight each 135 pounds ... .each, **$70.00**

No. 401½. With shield; round hearth 22 inches in diameter; height 30 inches; fan 9 inches in diameter; weight each 140 pounds.....each, **80.00**

*Not carried in stock; will ship from factory

PORTABLE FORGES

No. 152 with Shield

No. 153 with Half Hood

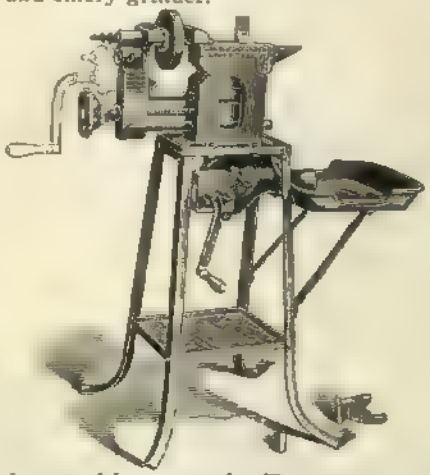
CHAMPION AGRICULTURAL CRANK

Especially adapted for farmers' use and very light repair work of all kinds; size of hearth is 18 inches in diameter, 4 inches deep; fan 8 inches in diameter with taper turned bearings; height 30 inches.

No. 152. With shield; weight each 75 pounds....each, **$28.00**
No. 153. With half hood; weight each 80 pounds.each, **32.00**

CHAMPION COMBINATION OUTFITS

Six tools in one; forge, vise, anvil, pipe vise, drill press and emery grinder.



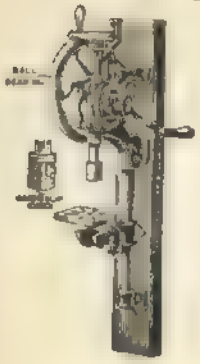
A very high grade combination tool, built for hard service. Blower has silent running cut gears, and speeded high enough to produce a white pressure heat, so that welding can be done on any size work. Forge pan made large enough to heat a plow share. Blower gearing is detachable from the forge, and can be mounted on the front of the vise to form the drill press and grinder gearing. Gives three speeds for light, medium and heavy work. Emery wheel is screwed on the stud between the vise jaws and attached to the high speed gear, with a rigid support on each side of the wheel. Unscrewing emery wheel from its shaft and attaching drill chuck forms the drill press. Chuck uses ½ inch round shank, blacksmiths' drills. Vise has chilled faces and is supported by two heavy shafts, so that jaws meet perfectly, with no lost motion. Pipe jaws are chilled and easily attached. Anvil forms the rear part of the vise, and has true face, with horn and space for Hardie legs, made of angle steel, well riveted to the top plate and tool tray. Forge pan supported by two steel rods.

Height over all.....41 in.	Face of anvil..... 3x5¾ in.
Height to top of forge hearth .....26 in.	Size of Hardie.....⅝ in.
Width of vise jaws.....4 in.	Size of forge hearth.12x14 in.
Opening of vise jaws. 4½ in.	Depth of forge hearth...2 in.
Capacity of pipe vise.....2 in.	Speeds obtained by gearing.....1 to 1, 1 to 4, 1 to 14
Capacity of drill press..½ in.	Size emery wheel.....6x1 in.
Distance spindle to table .....11 in.	Floor space.....12x16 in.
Spindle bored to take...⅝ in.	

No. 30. Combination repair outfit complete; weight each, crated, 135 pounds.....each, **$70.00**

CHAMPION POST DRILLS

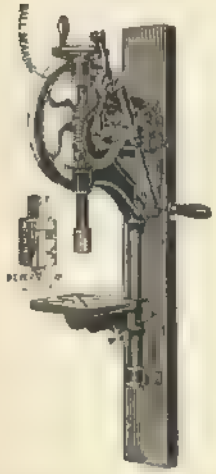
Self Feed, Ball Bearing



All bearings are ground out of solid metal. Automatic self feed, lathe turned and slotted table. Spindle bored like Neverslip chuck to take ½ inch straight shank drills.

Nos.	102	90
Drills to center of circle, inches	12	14½
Drills holes, inches	0 to ¾	0 to 1
Spindle diameter, inches	⅞	1¼
Spindle run, inches	3	3½
Table to spindle, inches	8¾	10
Height over all, inches	34	43
Weight each, pounds	75	105
Each	$26.00	36.00

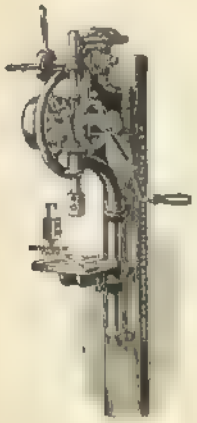
Original Ball Bearing, Self Feed Post Drills



Built with three gears with double journal bearings to each gear in order to give on the second speed the same turning direction of the crank as the first speed. All bearings ground out of solid metal. Drills to the center of a 16 inch circle; drills from 0 to 1¼ inch hole. Automatic self feed, lathe turned and slotted table. Spindle 1⅛ inches, up and down run 3 inches. Spindle bored like Neverslip chuck to take ½ inch straight shank drills. Distance from table to spindle 9½ inches; height of drill 46 inches.

No. BB. Champion original ball bearing self feed post drills, weight each 130 pounds.....each, **$49.00**

Hand Feed and Quick Return Self Feed Post Drills, Ball Bearing



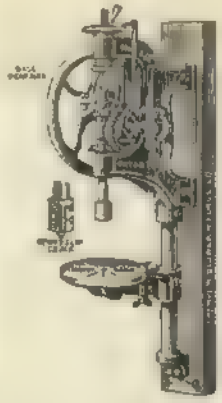
The propeller wheel hand feed and self feed are independent of each other, and for quick work the hand feed is unsurpassed and acts as the quick return for the drill bit. All bearings are ground out of solid metal. Drills to the center of a 16½ inch circle. Drills holes from 0 to 1¼ inches. Spindle 1⅛ inches in diameter. Up and down run of 5½ inches. Spindle bored like Neverslip chuck to take ½ inch straight shank drills. Distance from table to spindle 12⅜ inches, height of drill 50 inches

No. 97. Champion self feed and propeller hand feed, quick return post drills, weight each 175 pounds .....each, **$65.00**

No. 97P. Same as above, with tight and loose pulleys, 6 inches in diameter and 2 inch face for power. Speed 250 r.p.m., weight each 180 pounds....each, **75.00**

CHAMPION POST DRILLS

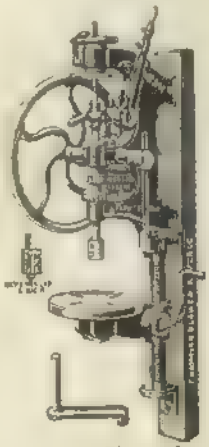
Combination Automatic Self Feed and Double Compound Lever Feed Post Drills, Ball Bearing



Automatic self feed and double compound link and rack lever feed are both independent of each other and are changed from one to the other instantly. With either feed, the drill spindle has instantaneous return of the drill bit out of the hole drilled and again instantaneous return on the material for the next hole. Drills to the center of a 16 inch circle. Spindle 1¼ inches in diameter, up and down run of 4 inches. Spindle bored like Neverslip chuck to take ½ inch straight shank drills. Distance from table to spindle 11 inches, height of drill 51 inches.

No. 200. Champion combination automatic self feed and double compound lever feed post drill, weight each 200 pounds.....each, **$90.00**

No. 200P. Same as above with tight and loose pulleys, 6 inches in diameter, 2 inch face, for power. Speed 250 r.p.m., weight each 205 pounds.....each, **100.00**

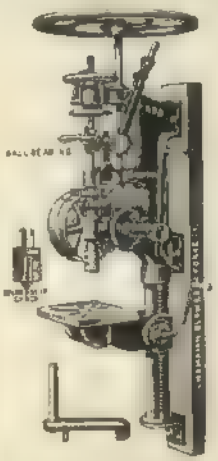


Compound Lever Feed and Automatic Self Feed Post Drills with Cut Gears and Ball Bearings

Drill spindle and bit is positively always raised up or down while using either feed, by the use of the quick acting lever, double geared for quick and slow work; quick action rack for raising or lowering the table. Drills to the center of 21 inch circle. Spindle 1¼ inches in diameter, up and down run of 5½ inches. Spindle bored like Neverslip chuck to take ½ inch straight shank drills. Drills holes up to 1½ inches. Distance from table to spindle 17 inches, height of drill 68 inches.

No. 201. Champion automatic self feed and compound lever post drill, weight each 415 pounds....each, **$144.00**

No. 201P. Same as above, with tight and loose pulleys, 11 inches in diameter, 2½ inch face, for power. Speed 100 r.p.m., weight each 440 pounds....each, **160.00**



Compound Lever Feed, with Cut Gears and Ball Bearings

Has a quick return, hand feed wheel, rack for raising or lowering the table, very quick in action and easy to work. Wheel holder attachment. Double gear for quick and slow speed, for light and heavy work. Drills to center of 21 inch circle. Spindle bored like Neverslip chuck to take ⅜ or ½ inch straight shank drill bits. Drills holes up to 1½ inch in diameter. Spindle 1¼ inch; up and down run of 5½ inches. Distance from table to spindle is 19 inches, height of drill 72 inches.

No. 203. Champion compound lever feed post drills, weight each 470 pounds.....each, **$180.00**

No. 203P. Same as above, with tight and loose pulleys, 11 inches in diameter, 2½ inch face, for power. Speed 80 r.p.m., weight each 495 pounds.....each **196.00**

CHAMPION POWER DRILLS

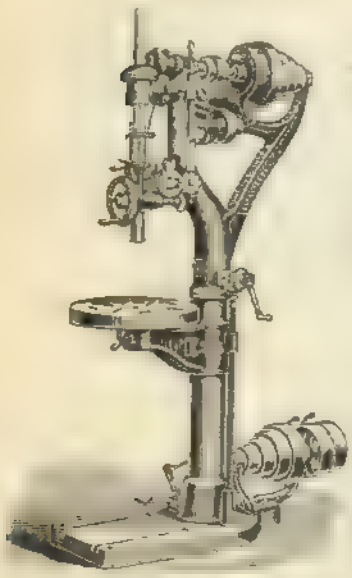
14-INCH UPRIGHT

A gear driven drill of the best and most improved construction. All beveled gears are planed which insures a perfect and smooth running drill. Bearings are large and powerful, upper bearing being split to take up wear when necessary. Spindle made of high carbon steel, graduated, ground and fitted throughout with ball bearings. Counterbalanced by a weight in the hollow column. Table is tilting and can be clamped at any angle. Quick acting screw for raising or lowering the table. All gears are carefully guarded. Hole in spindle bored to fit No. 2 Morse taper. Height of drill 69 inches, distance between table and spindle 34 inches, distance between spindle and base 45 inches from column to spindle center 7½ inches, diameter of column 4 inches, traverse of table on column 27 inches, size of table 11x11 inches, diameter of spindle ⅜ inch, traverse of spindle 6½ inches, size of tight and loose pulleys 7x2½ inches, size of four step cone pulleys 7⅛, 6⅜, 5⅝, 3⅛x2½ face; speed of driving pulleys 225 r.p.m.; floor space 16x18 inches; capacity ¾ inch; 1 horsepower required.

*Champion 14 inch upright power drill, complete, weight crated 490 pounds. each **$280.00**

20-INCH BACK GEARED UPRIGHT

Lever Wheel, Power Feed and Automatic Stop



An exclusive machine shop drill. All gears are machine cut, bevel gears are all planed, large and powerful bearings. Upper shaft has split bearings to take up the wear. Change from plain to back geared drill is made by simply sliding the gears. Has eight speeds with three distinct and complete feeds. Sleeve and spindle are ground and counterbalanced by weight in the hollow column, quick action screw for raising or lowering table. All parts carefully fitted and is one of the most accurate power drills made. Spindle takes No. 4 taper. Height of drill 75 inches; distance between table and spindle 27 inches; distance between spindle and base 42¼ inches, from column to spindle center 10¼ inches; diameter of crown gear 5¼ inches; diameter of pinion gear 3¼ inches; diameter of column 5¼ inches; traverse of table on column 18½ inches; diameter of table 16 inches; diameter of spindle 1¼ inches; traverse of spindle 8 inches; size of tight and loose pulleys 8x2¼ inches, size of four step cone pulleys 4, 5¾, 7½, 9x2 inch face; speed of driving pulleys 300 r.p.m.; floor space 16x46 inches; 1 horsepower required.

*Champion, 20 inch back geared drill, weight crated 825 pounds ..... each, **$560.00**

*Not carried in stock; will ship from factory

CANEDY OTTO POWER DRILLS

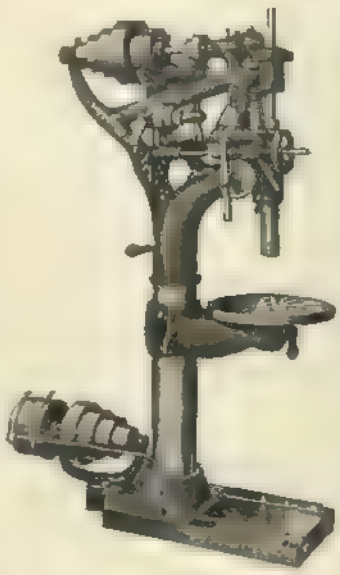
*20-INCH UPRIGHT

Equipped for hand lever feed or wheel and lever feed only. All gears are machine cut to insure smooth operation. Bearings are of the split type on the upper shaft with hydraulic pressed graphite cones. Spindle is accurately ground and counterbalanced by a weight in the hollow column. Bored to take Nos. 3 or 4 Morse taper. Spindle thrust is taken up by high grade ball bearings and graduated into ☆ inch divisions on the spindle sleeve. Height of drill 75 inches; drills 0 to 1½ inches; drills to center of 21 inch circle; diameter of spindle 1⅞ inches; vertical travel 9½ inches; diameter of crown gear 5⅞ inches; diameter of bevel pinion 3 inches; diameter of table 16 inches; vertical travel on column 19 inches; diameter of column 5⅝ inches; distance between table and spindle 27 inches; distance between spindle and base 39 inches; size of tight and loose pulleys 8x2½ inch face; size of four step cone pulleys 8⅝, 7¼, 5⅝, 4x2½ inch face; countershaft speed about 380 r.p.m.; floor space 15x41 inches

No. 35.	Plain lever feed	each,	**$242.50**
No. 35.	Wheel, lever feed	each,	**250.00**
*No. 35.	Wheel, lever and power feed	each,	**312.50**
*No. 35.	Wheel and lever feed, back gear	each,	**325.00**

Weight each, crated, 835 pounds

*20-INCH BACK GEARED UPRIGHT



Equipped with back gears. Three distinct complete feeds, power, wheel and lever. Eight speeds with use of back gears. Carries the same general description as the No. 35 above, except as noted. Height of drill 75 inches; drills 0 to 1½ inches; drills to center of 21 inch circle; diameter of spindle 1⅞ inches; vertical travel 9½ inches; spindle bored to take Nos. 3 or 4 Morse taper; diameter of crown gear 5⅞ inches; diameter of bevel pinion 3 inches; diameter of table 16 inches; vertical travel on column 19 inches; diameter of column 5⅝ inches; distance between table and spindle 27 inches; distance between spindle and base 39 inches; diameter of tight and loose pulleys 8x2½ inch face; four step cone pulleys 8⅝, 7¼, 5⅝, 4x2¼ inch face; floor space 15x41 inches

No. 36.	Back gear, power feed	each	**$350 00**
No. 36.	Less back gear, with power feed	each	**312.50**
*No. 36.	With back gear, less power feed	each	**325.00**
*No. 36.	With tapping attachment	each,	**387.50**
No. 36.	Motor, 110 or 220 volts, direct current,	each.	**712.50**
*No. 36.	Motor, 110 or 220 volts, 60 cycle, three phase,	each,	**647.50**
No. 36.	Motor 110 or 220 volts 60 cycle, single phase,	each	**775.00**

Weight each crated, 835 pounds

*Not carried in stock; will ship from factory

WELL KNOWN SPARK PLUGS

"CHAMPION" DEPENDABLE SPARK PLUGS

Quantity price applies solid or assorted. See list below showing cars on which you can use these plugs

4K8140—(Mfrs. A16) "X," special ¼ in. Lots of 10, Each. 45c " 200, " 41c

4K8165—(Mfrs. A-28). Lots of 10, Each. 45c " 100, " 41c

4K8117 (Mfrs. A-61). Lots of 10, Each. 53c " 100, " 60c

4K8150—(Mfrs. AA50). Lots of 10, Each. 53c " 100, " 60c

4K9119 (Mfrs. A-42). Heavy duty Hercules and other models. "Cannical" type in porcelain. Lots of 10, Each. 53c " 100, " 60c

4K8118—(Mfrs. J-41). "Heavy Duty" 18-18. Lots of 10, Each. 63c " 100, " 60c

4K8120—(Mfrs. A-51). Lots of 10, Each. 53c " 100, " 60c

4K8131 (Mfrs. A-56) Motor Truck. Each. 53c Lots of 100, " 50c

3 No. heavy stamp, specially made for use of high power and compressor. 4K8134—(Mfrs. B-43) 7/8 in. A. M. Each. 60c Lots of 100, " 55c

4K8125—(Mfrs. AA-58). Lots of 10, Each. 53c " 100, " 60c

4K8126—(Mfrs. A-103). Lots of 10, Each. 22c " 100, " 21c

"CHAMPION" PORCELAIN

Guaranteed against heat breakage. Gaskets included with each porcelain.

4K8128—(Mfrs. A 103), for Champion "X" plugs. Lots of 10, Each. 22c Lots of 100, " 21c

PUT A PRICE TICKET ON EVERY ITEM

A "CHAMPION" PLUG FOR EVERY CAR

PASSENGER CARS	Plug No.	Each
APPERSON	4K8118	53c
BUICK (to 1925)	4K8120	53c
CHANDLER	4K8122	53c
CUNNINGHAM	4K8124	53c
DAVIS	4K8119	53c
DORT	4K8120	53c
FORD	4K8120	25c
GARDNER	4K8117	53c
HAYNES	4K8118	53c
JORDAN	4K8118	53c
LOCOMOBILE	4K8118	53c
MARMON	4K8118	53c
MAXWELL	4K8119	53c
MERCER	4K8118	53c
NATIONAL (to 1921)	4K8118	53c
OVERLAND SIX	4K8124	53c
PAIGE	4K8118	53c
STARLING KNIGHT	4K8118	53c
STUDEBAKER (1918 and earlier)	4K8118	53c
STUDEBAKER (from 1919)	4K8117	53c
STUTZ	4K8118	53c
WILLIAMS	4K8118	53c
WILLYS KNIGHT	4K8118	53c
WILLYS SIX	4K8117	53c
REO	4K8123	53c

COMMERCIAL CARS	Plug No.	Each
ACME	4K8124	60c
BESSEMER	4K8124	53c
DIAMOND T	4K8124	60c
DIXIE	4K8124	60c
DORT	4K8118	53c
DAYSLDER	4K8118	53c
FORD	4K8120	25c
GARFORD	4K8124	60c
GRANT-BERNSTEIN	4K8124	60c
KELLY SPRINGFIELD	4K8124	60c
INDIANA	4K8117	53c
MACK	4K8124	60c
PIERCE ARROW	4K8124	60c
REPUBLIC	4K8110	53c
TRAFFICAR	4K8117	53c
THOMAS	4K8117	53c
UNIVERSAL	4K8124	60c
WHITE	4K8124	60c

TRACTORS	Plug No.	Each
FORDSON	4K8117	45c

"A-C" TITAN QUALITY SPARK PLUGS

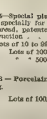
Quantity price applies solid or assorted. See list below showing cars on which you can use these plugs.

FORD SPECIAL SPARK PLUG

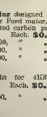
4K8146—Special plug designed and built specially for Ford motor, ½ in. thread, patented carbon proof construction . . Each. $0.49
Lots of 10 to 99, " .44
Lots of 100, " .42
" 500, " .41

4K8146 — Porcelain for 4K8146 plug. Each. $0.23
Lots of 100, " .21

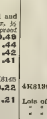
4K8198—½ in. regular. Each. $0.62
Lots of 10, " .58
" 100, " .59
" 200, " .54



4K8137—½ in. long. Each. $0.65
Lots of 10, " .58
" 100, " .54
" 500, " .54



4K8135—½ in. regular. Each. $0.65
Lots of 10, " .58
" 100, " .61
" 500, " .64



4K8138—Long. A. E. Each. $0.65
Lots of 10, " .58
" 100, " .56
" 500, " .54

4K8139 ½ in., long. Each. $0.65
Lots of 10, " .58
" 100, " .56
" 500, " .54

65c EACH — "A-C" PLUGS FOR EVERY CAR — 65c EACH

Passenger Cars	Number	Passenger Cars	Number	Passenger Cars	Number	Passenger Cars	Number
Buick—engine 22	4K8142	Ford	4K8136	Hudson 1920	4K8136	Peerless—1916-23	4K8136
Buick—model 35	4K8136	Ford	4K8136	National	4K8136	Pierce-Arrow to 1916	4K8136
Cadillac	4K8136	Hudson—up to 1921	4K8136	Oakland 26-27	4K8136	Pierce-Arrow	4K8136
Case	4K8135	Hupmobile	4K8135	Oakland	4K8136	Willys-Knight	4K8136
Chandler	4K8136	Jordan	4K8136	O'Klamond	4K8136	B. & W. Knight	4K8136
Chandler—1915 to 1921	4K8136	Lozier	4K8136	Overland to 1918	4K8136	Saxon	4K8136
Chevrolet	4K8137	Lafayette	4K8136	& all 8 cyl.	4K8135	Scripps-Booth—6 cyl	4K8136
Cleveland	4K8136	Liberty	4K8136	Overland—4 cyl.	4K8136	Scripps-Booth Four	4K8136
Cole	4K8135	Maxwell	4K8136	Overland	4K8136	Standard Eight	4K8135
Davis	4K8136	Mitchell—to 1917	4K8136	Packard	4K8135	Sheridan	4K8137
				Paige	4K8135	Simms-Bulkley—6	4K8136
							4K8137

Commercial Cars	Number	Commercial Cars	Number
Autocar	4K8135	Gramm-Bernstein	4K8136
Atterbury	4K8135	Hall	4K8135
Acme	4K8135	Monomoy	4K8135
Ahlberg	4K8135	Nelson	4K8135
Alco	4K8135	Oldsmobile	4K8137
Ambulance	4K8135	Packard	4K8135
Brockway	4K8135	Republic	4K8135
Dependable	4K8135	Sandow	4K8136
Diamond T	4K8135	Vim	4K8135
Federal	4K8135		

"SPLITDORF" GREEN JACKET SPARK PLUGS

Ruby Insulation and exclusively an new insulation, covered with porcelain. "Green Jacket," plug will still fire if porcelain is broken, extra heavy sparking point, leak proof, two piece and can be easily taken apart and cleaned, fully guaranteed. Quantity price applies solid or assorted.

4K7940

4K7941

4K7942

4K7943

4K7944

4K7945

4K7940—(Mfrs. P-144). For Overland 4, also models 83B and 90. ¾ in. standard for use in any automobile using standard ¾ in. p-sg. . . . Each. $0.58
Lots of 100, " .56

4K7942—(Mfrs. P-179.) Ford Special, etc. ½ in. long, also for use in Ferdson Tractors. Overland Model 79, 80, 81 and 85, and Studebaker Models prior to 1920.
Lots of 100, Each. $0.50
" .48

4K7941—(Mfrs. P-183.) For Dodge, etc. ¾ in. standard, also for use in Briggs Chilton Colo Dort Hudson Moods Jewett Hupmobile Jordan Lozier Marmon Maxwell Mitchell Moline Monroe Nelson Overland Paige Peerless Pierce-Arrow Studebaker Models after 1919 Willys-Knight Stutz Velie Wisconsin Lafayette Lexington
Lots of 100, Each. $0.58
" 25, " .56

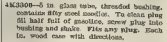
4K7943—(Mfrs. P-148) Hudson (1921 and 1922 ¾ in. Motor), also used in Jewett Willys 6, Case, Reid, Reo, Republic and White Trucks.
Lots of 100, Each. $0.56

4K7944—(Mfrs. P-185.) For Oakland, etc. ¾ 18 long, also used in Lozier, Mollerhall, and Nash after 1918. Each. $0.58
Lots of 100, " .56

4K7947—(Mfrs. P-181) For Chandler, etc. ¾-18 long body special, also used in Cleveland, Six and Brewster, Oldsmobile 8 and Stephens Duryea.
Lots of 100, Each. $0.56

4K7945—(Mfrs. P-184.) For Buick, etc. ¾ 18 long, also used in Cadillac and Chevrolet models after 1918.
Lots of 100, Each. $0.58
" .56

CHAMPION "MINUTE" PLUG CLEANER



4K3300—5 in glass tube, threaded bushing, contains fifty steel needles. To clean plug fill half full of needles, screw plug into bushing and shake. Fits any plug. Each in wood case with directions.
Each $0.56
Lots of 10, " .49

"ANCO" IGNITION GAUGE

4K9021 Gauge made of fine hollow fibre rubber shell. Gauge is packed in attractive glass tube of ⅞ inch, which is the thickness of spark plug points. When brought in contact with electric current, dependable service is guaranteed. Each tube is packed in attractive counter display carton.
Doz. $0.60
Singly Each .76

AUTO SUPPLIES

"BEACON" STOP SIGNAL For All Cars

4K8200—Height 5½ in. over all, width 4 in., body black enameled bronzed with brass frame inserts and nickel plated. Guaranteed for one year. Genuine ox hide automatically lights 21 c.p. Silvercris National Mazda bulb, hard rubber plug and cap, switch knob, wire, screwdriver and attaching screws. Each, **$2.00**

Lots of 6 or more. Each, **$1.83**

"BEACON" STOP LIGHT

4K8213—Height 5½ in. over all, width 4½ in., body black enameled bronzed with brass frame inserts nickel plated with additional brass nickel plated silvered reflector. Switch automatically lights 21 c.p. Sylvania National Mazda bulb, hard rubber plug and cap, switch knob, wire, screwdriver and screws, wire for attaching, with full directions. Flat price $4.50. 1 out in box, 2 x. **$2.25**

Lots of 6, **$2.13**

"BEACON" STOP AND PARKING LIGHT

4K8210—Ht. of stop light 6¾ in. over all, width 4½ in. with parking light with 1½ in. face tinted. Body baked black enamel. Screw frame and reflector nickel plated, silvered reflector. Switch automatically lights stop light when brake is applied and parking light when switch is turned to right. Complete with full directions. Flat price $4.50. 1 out in box, 2 x. **$2.25**

Lots of 6, **$3.75**

ELECTRIC TAIL LAMP

4K8215—Height 5 in., width 3 in., body black enameled bronzed with brass frame inserts nickel plated. Switch automatically lights tail lamp when switch is turned to right. Complete with full directions. Flat price $4.50. 1 out in box, 2 x. **$2.25**

Lots of 6, **$3.33**

"DELTA" SPOTLIGHT AND TROUBLE LAMP

4K8100 Light body of lamp black enamel with nickel trim rings, nickel plated reflector and lens. Adjustable to any desired angle by means of ball and socket joint. Equipped with 6 volt, 10 c.p. miniature bulb. Complete with universal bracket which will fit all doors car windshields and 6 ft. cord. Packed in carton ..... Each, **$3.25**

ANDERSON'S "AUTO-REKLITE"

4K8725—Model B, with mirror in rear of handle, nickel plated, with 6 in. bevel plate mirror, finished black enamel sheet steel body, heavy nickel trim, non-rusting 6 in face, 12 ft. cord, spirals on rod. Complete with 2 troublelproof batteries and 2 extra bulbs packed in each carton. Each, **$8.75**

Lots of 6, **$8.00**

PARKING LAMP

4K8110 Light body of lamp black enamel with nickel trim rings, nickel plated reflector and lens. Adjustable to any desired angle by means of ball and socket joint. Equipped with 6 volt, 10 c.p. miniature bulb. Complete with 10 foot cord and 6 V 21 c.p. double contact bulb. 1 in box. Each, **$1.80**

TROUBLE LAMP

4K8110 Light body of lamp black enamel with nickel trim rings, nickel plated reflector and lens. Adjustable to any desired angle by means of ball and socket joint. Equipped with 6 volt, 10 c.p. miniature bulb. Complete with 10 foot cord and 6 V 21 c.p. double contact bulb. 1 in box. Each, **$1.80**

DASH AND TROUBLE LAMP

4K8315—Nickel plated, 2 c.p. 6 v. tungsten bulb, polished, with extra sockets and 10 feet of wire, complete with bracket for dash lamp and extra sockets for panel mounting of 15ml visible lamp. 1 set in box. Each, **$1.70**

"VICTOR" NO. 40 WINDSHIELD SPOTLIGHT

4K8448 Chromium plated with nickel silver reflector, open or closed and adjustable for any angle of vision. Equipped with 6 volt, 10 c.p. miniature bulb and cord. Complete with 6 to 8 volt, 30 c.p. silvered headlight bulb, box of cord 6 ft. loose wire for lead. Each, **$2.95**

"BULL PUP" DASH LAMP

4K8315—Nickel plated, depth from back to lens 2½ inches, built with concealed cable mount, opening type hinge socket. 3 in box. Each, **75c**

"VIOLET RAY" LENSES

Blue glass, absorb all glare from headlights giving illumination equivalent of clear glass, black view prevents dangerous back and shafty, smart design and rear protection. Distinctive appearance to fit all cars.

4k9000—5 in.		
4k9001—6 in.		**$2.25**
4k9002—7 in.		
4k9003—8 in.		12 pr. lots
4k9004—9 in.		**$2.00**
4k9005—10 in.		6 pr. lots
4k9006—11 in.		**$1.80**
4k9007—12 in.		
4k9008—13 in.		

"NATIONAL" LENSES

White glass, scientifically diamond lens, deflective type mounting, lens requires mention of all states, throws concentrated beam on road 300 ft. ahead. Guaranteed not flashing. 3 pr. in carton.

4k9100—5 in.		
4k9101—6 in.		1926-27
model 3 axle.		
4k9102—6½ in.		
4k9103—7 in.		
4k9104—7½ in.		
4k9105—8 in.		
4k9106—8½ in.		
4k9107—9 in.		
4k9108—9½ in.		
4k9109—10 in.		Pr. **$1.75**
15 pr. lots		**$1.65**
30 pr. lots		**$1.55**

"SCHLAICH" MOTO-METER LOCKS

The only lock endorsed by the State Motor Company. This good device for preventing moto-meter. Allows the driver to use the moto-meter, but prevents thieves or others from drilling or mechanical work required. 1 in box.

4K8618—Ford	
Standard set, 1 door and set, 2 doors. Each	**$1.25**
4K8618—Ford	
Coupe. Each	**$1.25**
4K8618 — Dodge, 5	
Passenger Sedan. Each	**$1.25**
4K8618 — Buick	
Standard set. Each	**$1.25**

Be Sure to State Make of Car and Model Motor Number When Placing Order for Special Models

MIROSCOPES

Windshield—Steel rod and back, black enameled, nickel trim, assured mirror, clamps on windshield and adjusts to any position. 4 in.

4K8238—3 in. mirror	**$0.48**
4K8237	**.70**

Mud Guard Type—3 in. mirror, steel frame, black enamel, nickel trim, ball head, adjustable to any position

4K8236—3½ in. mirror	
Each, **$1.15**	
4K8239—Windshield type	
Each, **$1.50**	

"STANDARD" AMMETER

4K8365—Steel body, black enamel, flush type, nickelplated bezel, 2 in. diameter, one easy type of system for 6 volt, 10 c.p. bulb. Complete with bolts and nuts to attach ..... Each, **90c**

ADJUSTABLE EXPLOSION WHISTLE

4K9039—For passenger cars and trucks. Can be adjusted to any tone. Installed in place of any standard cap nut on horn for which adapter is not required. Polished. Complete, nickel plated, with adapter. Each, **$1.25**

Lots of 6, **$1.20**

"PARAMOUNT" AUTO HORNS

4K8628—"Spurial" 9½ in. aluminum steel, black enamel, adjustable contact points, vanadium cut, loud sweet tone. 6 in.

Each,	**$2.88**
Lots of 10,	**2.68**

Motor Drive—8½ in. vanadium steel, black enamel, nickel plated dome, brass bound, heavy tone mounted horn, has self contained motor and also contact points. The motor is 6 volt, complete for connecting to battery. 2 in box.

4K8627—Each,	**$3.75**
4K8627—12 volt, Each,	**4.50**

"PARAMOUNT" MOTOR DRIVEN AUTO HORNS

4K8903—10½ in., vanadium steel, baked black enamel finish, nickel finish, 10 in. patented lever bar with extended weight, prevents diaphragm buckling. 1 in box.

Each,	**$4.60**

4K8628—11¾ in. vanadium steel, black enamel, nickel finish, 11 in. patented lever bar with extended weight, prevents diaphragm buckling. Furnished with bracket for button or wire installation. 1 in box.

Each,	**$6.75**
Lots of 12, Each,	**6.37**

"BOYCE" MOTO-METERS

Attach to rod size rear. Accurately register condition of engine. Read 1 hour, marked in 5 minutes. Highest grade instrument made. Fitting 1 in box.

4K8419—Midget, 4 in. for small cars, Maxwell, Chevrolet, Hudson, etc. ..... Each, **$1.48**

Lots of 10, **1.38**

4K8425—Special Ford Model, 4 in., nickel, black rubber cap of highest grade. ..... Each, **$2.02**

Lots of 10, **1.92**

4K8472 Junior, 5 in. for cowl lamps or dash. Each, **$3.50**

Lots of 10, **3.40**

4K8417 Universal, 5 in. for heavy construction. Each, **$5.50**

Lots of 10, **5.26**

4K8476 Standard dash, high glass, nickel case. Each, **$7.50**

for dash, overall cap. Each, **7.00**

4K8417 Super-silver, 6 in. for heavy construction. Each, **$11.38**

Lots of 10, **10.00**

"MAZDA" AUTO LIGHT BULBS For all types of lights. The above numbers both vacuum and nitrogen filled in the

G-6 DIAM. ½" G-8 DIAM. 1" G-12" DIAM. 1½" 4K8704

Note: Be sure to give correct voltage and style of base. Be sure to specify 6, 8 or 12 amperage double contact. If you do not know what bulbs you need SPECIFY MAKES OF CARS, MODELS AND YEARS

VACUUM STYLE—Bayonet Base

Headlight and Spotlight—

Mazda number	Volts	C.P.	Type bulb	Lots of 6 Each
4K8700—D. C.	6	15	G-6	.24c
4K8701 D. C.	12	15-16	G-12	.24c

Side and Auxiliary Headlight—

Mazda number	Volts	C.P.	Type bulb	Lots of 6 Each
4K8703—D. C.	32	2-3	G-6	.24c

NITROGEN FILLED—Bayonet Base

Headlight and Spotlight—

Mazda number	Volts	C.P.	Type bulb	Lots of 6 Each
4K8702	6	21	G-8	24c
4K8705	12	21	G-12	24c

Rear and Speedometer Light—

Mazda number	Volts	C.P.	Type bulb	Lots of 6 Each
4K8707—S. C.	6	3	G-6	24c
4K8708—D. C.	6	6	G-6	24c
4K8709—S. C.	6	3	G-6	24c
4K8710—D. C.	6	6-3	G-6	24c

HEADLIGHT BULBS FOR FORD CARS

4K8713—Mazda No. 185, Nitrogen filled, 32 C. P., G15 type. Magneto lighting system, 9 volt, 2 in series, double row bayonet base ..... Lots of 10, Each, **32c**

4K8724—(Wire 1158) 6-8 volt, 21 C. P. height, 3 C. P. dim. The type of bulb for Ford headlights on cars equipped with storage battery. Double filament for bright and dim lights, necessitating 1 instead of 2 bulbs. Each, **33c**

CHARACTER DOLLS

Dolls of the better class; dolls that are different; the finest finished dolls ever produced anywhere; guaranteed unbreakable and washable; dolls that will stand up under the hard knocks of rough usage; fast sellers.

EMBOSSED HAIR
STATIONARY PAINTED EYES
SHAPED HANDS AND FEET

T1487—Assorted boy and girl dolls extra large, finely modeled composition heads, painted features, well stuffed cloth bodies; shaped hands and feet, jointed arms and legs, asst. trimmed lawn dresses and rompers; height 11 inches; 1 dozen assorted in box. Dozen ..1.75

T1499—Assorted 4 styles, girl dolls; finely modeled composition unbreakable turning head, composition arms and hands, painted features; pink cloth stuffed body; assorted fancy costumes; removable stockings; height 13 ins.; ½ dozen in box. Dozen 4.50

T1513—Assorted 4 styles; girl dolls; fine unbreakable composition painted features, turning head, composition arms and hands, pink cloth body; hip and shoulder jointed, extra fine costumes, with hoods to match; removable stockings and slippers; height 14 ins.; each in box. Dozen .6.50

EMBOSSED HAIR
STATIONARY PAINTED EYES
COMPOSITION ARMS & HANDS

T1495—Assorted 6 kinds, boy and girl dolls; composition heads, cloth stuffed bodies; assorted fancy dresses and rompers, height 12 ins., 1 doz. asst. in box. Dozen. 2.10

T1498—Assorted boy and girl dolls, 4 kinds, shapely composition heads; painted features; well stuffed bodies; pink stockings; black shoes; assorted dresses and rompers; height 13½ ins.; ½ doz. asst. in box. Dozen..... 2.25

T1500—Assorted boy and girl dolls composition turning head, composition arms and hands, fine features; pink cloth stuffed body, assorted dresses and rompers, black shoes; height 15 in., ½ dozen in box. Dozen 4.25

EMBOSSED HAIR
MOVING EYES

T1548—Assorted two styles girls, composition unbreakable head, and hands; laughing expression; embossed hair; shoulder and hip joint, pink stuffed body assorted costumes with bonnets stockings, slippers and white muslin undergarments; height 14 ins. each in box Each 1.00

T1550—Assorted girls, heavily embossed curly hair composition heads, and hands, hip and shoulder joints; pink cloth stuffed body, assorted costumes, removable stockings, with slippers; muslin undergarments, height 15 ins. each in box. Each 1.25

JOINTED BISQUE DOLLS

GT28—Full bisque, shoulder and hip jointed; moving eyes, curly wig; painted shoes and stockings; height 4½ ins. 1 dozen in box. Dozen.....2.00

GT29—Same as GT28, larger, height 6 ins. ½ dozen in box Dozen. 3.75

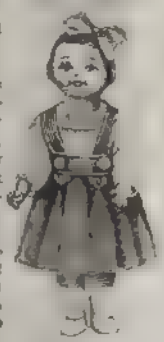
GT30—Same as GT29, larger; height 6½ ins. ½ dozen in box Dozen 4.25

MOHAIR WIG
STATIONARY PAINTED EYES
COMPOSITION ARMS AND HANDS

T1521—Girl doll, unbreakable composition head and hands; excellent features, good wig; pink cloth body, shoulder and hip jointed white lawn dress and undergarments, removable shoes; height 18½ ins.; each in box. Dozen.....4.50

T1539—Four styles girl and boy dolls; extra fine unbreakable head with hands good expression, light and dark wigs, shoulder and hip jointed pink body; fine lawn lace trimdresses and undergarments rompers; hoods to match; removable slippers and stockings; height 13 ins.; each in box. Each 0.75

T1543—Three style girl dolls, unbreakable composition head, extra select wig, flowing curls, pink cloth stuffed body, shoulder and hip joints, assorted costumes to match, removable stockings and slippers; height 17 ins., each in box Each 78



T1544—Assorted 6 styles girl dolls unbreakable head hands and arms, fine features; curly wig, ribbon bow, jointed shoulder and hip pink cloth body; assorted costumes muslin undergarments; removable stockings and slippers; height 18½ ins.; each in box. Each 1.00

MOVING EYES
COMPOSITION HANDS, ARMS SHOES, MOVING EYES

T1559—Composition unbreakable head and hands; curly mohair wig; fine features; open mouth showing teeth, flesh tint cloth stuffed body, hip and shoulder jointed, assorted dresses with hood to match; removable stockings and slippers; height 16½ inches; each in box. Each 1.80

BISQUETTE
MOHAIR WIG MOVING EYES

T1564—Finely modeled bisquette head, and hands; beautiful features, natural colorings; moving eyes, open mouth showing teeth; shoulder and hip jointed pink cloth body, fine figured lawn teeth; mohair wig, shoulder dress, hat to match; removable shoes and stockings; height 14½ ins.; each in box. Each..1.88

T1568-B—Bisquette head, open mouth showing tongue and teeth; composition hands, sewed long curl wig, ribbon bows; jointed shoulder and hip, fine figured lawn dress lace and ribbon trimmed bonnet to match, lace trimmed skirt and under garments, removable stockings and buckled slippers; height 18½ ins.; each in box Each 3.00

T1573—Bisquette head open mouth showing teeth; extra fine mohair bobbed wig, composition arms and hands; pink cloth jointed hip and shoulder; lace trim crepe dress, lace trim skirt and undergarments, removable stockings and slippers, length 25 ins.; each in box. Each 5.00

COMPOSITION JOINTED
EMBOSSED HAIR
STATIONARY PAINTED EYES

T1388—Full composition; shoulder and hip jointed, heavily embossed hair fine features, knitted suit with cap, length 10⅝ ins., each in box Dozen 4.35

MOHAIR WIG

T1393—Same, mohair wig; length 13 ins.; each in box. Each... .72

T1728—Full composition bent, body, arms and limbs; shoulder and hip jointed; mohair wig, painted eyes; romper costumes, bonnet to match; height 10 ins.; each in box. Each..... .75

T1729—Same, height 12 ins Each 1.00

FULL COMPOSITION

EMBOSSED HAIR
STATIONARY PAINTED EYES

Finely modeled, full composition embossed hair, shoulder and hip jointed; white lawn slip, ribbon tied; each in box

T1374—Height 12 inches, turning head. Dozen. 4.25

CHINA HEAD

T1331—Shoulder and hip jointed composition body, turning china head, painted features; length 4½ ins. Dozen..... .39

T1346—Same, larger, length 5½ ins. Dozen..... .72

BISQUE HEAD

T1347—Composition body, shoulder and hip jointed, turning bisque head; length 6 ins. Dozen 90

Full composition doll; finely modeled head, excellent features; mohair wig; shoulder and hip jointed; white lawn dress; each in box.

T1385—Height 18 inches; turning head. Each. 1.25

WITH MOVING EYES

T1386 — As T1385; moving eyes, height 14 ins.; each in box Each 1.15

MOHAIR WIG, STATIONARY PAINTED EYES

Extra quality full composition doll, jointed arms and limbs; turning head; flesh tint, fine mohair bobbed wig; white lawn slip, ribbon tied each in box

T1398—Height 14 inches, turning head. Each..... .89

MOHAIR WIG, STATIONARY GLASS EYES

Finest quality composition doll made; extra well modeled, natural expression; turning head; bobbed natural hair wigs jointed shoulder, and hip; lace trim chemise; each in box

T1419—Height 13½ ins. Each. .98

FINE BISQUE

STATIONARY PAINTED EYES

Extra quality bisque, finely modeled, good features; open mouth; shoulder and hip jointed, turning heads, white lawn slip, each in box

T1333—Length 8½ ins. Doz. 2.00
T1334—Length 8 ins. Doz. 2.25
T1335—Length 9 ins. Doz. 4.25
T1338—Length 10 ins. Doz. 4.50

STATIONARY GLASS EYES

T1338—Length 8½ ins. Doz..4.35

Extra fine quality bisque jointed arms and limbs turning head, open mouth, showing teeth; fine bobbed mohair wig sleeping eyes white slip each in box

T1357—Length 8½ ins. Doz 4.35
T1358—Length 9½ ins. Doz 5.25
T1359—Length 11 ins. Doz 6.75
T1360—Length 12 ins. Doz. 8.25
T1361—Length 12¾ ins. Each. .75
T1362—Length 14 ins. Each 1.00
T1363—Length 15½ ins. Each 1.75
T1364—Length 16½ ins. Each 2.50

FULL JOINTED

SHOULDER, HIP AND KNEE JOINTED, NATURAL HAIR WIGS

T1462—Bisque head, sleeping eyes with lashes, open mouth showing teeth; long curly sewed wig, composition body, jointed shoulder, hip and knee; white lawn lace trim dress height 9 inches; each in box Dozen . 4.85

SHOULDER, ELBOW, WRIST, HIP AND KNEE JOINTED, EYE LASHES

T1403—As above, sleeping eyes with eye lashes, shoulder, elbow, wrist, hip and knee jointed; height 10 ins.; each in box. Doz... 6.50

T1464—Same, height 12½ ins. Each ..... .75

T1465—Height 14½ ins. Each 1.10

T1466—Height 16½ ins. Each 1.45

T1467—Height 18½ ins. Each 1.85

T1468—Height 20½ ins. Each 2.25

There is always a big demand for Baby Dolls; our line embraces exceptionally good values both in dressed and ready for dressing numbers.

SHORT AND LONG DRESS BABIES

EMBOSSED HAIR
STATIONARY PAINTED EYES

T1632 Unbreakable composition head and hands; embossed hair, painted features, shoulder and hip jointed lawn dresses, hoods to match; with knitted booties; height 21 ins.; each in box. Each 3.25

EMBOSSED HAIR
STATIONARY PAINTED EYES

T1597 — Excellently featured composition embossed hair head; composition hands, cloth stuffed body, shoulder and hip joints; lace trim net dress, ribbon bows, lace edging, bonnet to match; removable booties; height 14 ins.; each in box Each...1.12

T1598—Same, height 18 inches. Each 1.75

T1599—Same, height 20 inches. Each 2.25

T1600 Same, height 22 inches. Each 2.75

The curly mohair wigs, the dainty costumes, and the real life like expressions of our dolls will at once appeal to your customers.

MOHAIR WIG, MOVING EYES

T1681—Extra fine bisquette shoulder head; excellent expression, composition hands, mohair wig, sleeping eyes, open mouth showing teeth, pink cloth body, shoulder and hip jointed; extra white lawn dress, elaborately lace and ribbon trimmed, undergarments and hood to match, removable knitted booties height 13 ins.; each in box. Each 2.00

T1682—Same, height 15 inches. Each 3.75

T1683—Same, height 17 inches Each 4.50

EMBOSSED HAIR
STATIONARY PAINTED EYES

T1625 — Unbreakable, finely modeled head and hands, cloth stuffed body, jointed arms and limbs, full white long lawn dress, lace trimmed, lace bonnet, length 24 ins.; 32 ins. length over all Each 3.00

ALL METAL AND METAL HEAD AND ARM DOLLS

METAL HEADS
STATIONARY PAINTED EYES

T1711 Metal turning head, boy and girl; metal arms; pink cloth stuffed body, shoulder and hip jointed, assorted dresses with hats to match; removable slippers [illegible] .95

T1713—As T1711, but with mohair wig; stationary painted eyes; boy and girl; height 13 ins. Each.1.15

METAL HEAD MOHAIR WIG
MOVING EYES

T1716 — Extra fine feature metal head, painted features, moving eyes, shoulder and hip jointed, pink cloth stuffed body; assorted costumes and hats, removable stockings and slippers; height 16 ins.; each in box Each..... ..1.90

FULL METAL, EMBOSSED HAIR
STATIONARY PAINTED EYES

Stamped metal throughout; finely modeled, and exceptionally life like; painted features; shoulder and hip jointed white lawn slip [illegible] in box.

T1706—Embossed hair, height 11½ ins. Each..... .90

T1699 — Same as T1706, larger, height 15 ins. Each... ...1.78

MOVING EYES

T1707 Same moving eyes; height 11½ ins. Each.....1.20

FULL METAL MOHAIR WIG
STATIONARY PAINTED EYES

T1701 — Full metal throughout; shoulder and hip jointed fine mohair wig, [illegible] net, silk knit bathing costume, length 12 ins.; each in box [illegible] 1.12

MOVING EYES, MOHAIR WIG

T1702—Same as T1701, but with mohair wig and moving eyes. Each 1.68

CHARLES ROBERTS & Co. Ltd.

RAILWAY WAGON & WHEEL WORKS,

Constructeurs de Wagons pour Chemins de Fer Constructores de todas clases de Vagones para Ferrocarriles.

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Builders of
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Railway Tank Wagons.

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with wrought iron and cast steel centres.

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RAILWAY TANK WAGONS A SPECIALITY

LES WAGONS-CITERNE
sont une de nos Spécialités.

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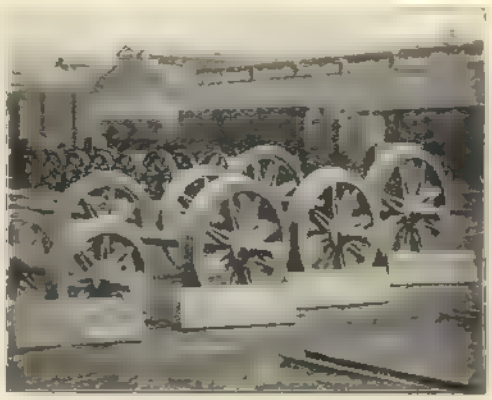

Wagons-Citerne.
Essieux et Roues avec centres en Fer Forgé ou en Acier Coulé
Pièces de Fonte en Fer et en Laiton

Vagones-Tanques
Ejes y Ruedas con Centros de Hierro Forjado y Acero Fundido
Piezas Fundidas de Hierro y Laton

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Proveedores del Ministerio de la Guerra, de Municiones, de la Marina, y de los Agentes oficiales de las Colonias, así como también de las Vías Ferroviarias de la Gran Bretaña y de Francia.

PIPES

COB

No. 2. Assorted shapes, three dozen in a box per box, **$1.80**

COB

No. 142. Regular size bowls, with bone bit per dozen, **$1.25**

Three dozen in a box

COB

No. 68B. Bell shape, well seasoned selected burnished cob bowl, bevel top, removable Weichsel stem, clear celluloid bit, polished nickel plated or brass ferrule .....per dozen, **$1.80**

One dozen in a box

CHEROKEE AMAZON ASSORTMENT

Assortment consists of one dozen hard rosewood pipes, one half bent stem, and one half straight stem, on display card, including one dozen pipe cleaners.

Per assortment **$4.80**

DANBURY

No. 164. Large size rosewood bulldog shape, square shanks, straight clear celluloid bit.....per dozen, **$4.80**

One dozen in a box

PIPES

DANBURY

No. 165. Regular size, rosewood, egg shape, square shanks, nickel ferrule, bent screw, celluloid bit . per dozen, **$4.80**

One dozen in a box

DANBURY

No. 169. Regular size, rosewood, bulldog shape, square shanks, nickel ferrule, bent celluloid bit, per dozen **$4.80**

One dozen in a box

WELLINGTON PATTERN

No. 127. Rosewood .... per dozen, **$4.80**

One dozen in a box

WELLINGTON PATTERN

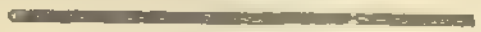
No. 129. Rosewood ..... per dozen, **$6.00**

One dozen in a box

PICTURE CORD

No. 1

No. 2



Braided tinned wire

No.	Strands	Length, Feet	Pounds Per Dozen	Per Dozen
1	8	25	2	$1.20
2	12	25	3	1.50

One coil (25 feet) in a carton, one dozen in a box

PICTURE MOULDING HOOKS

Brass plated steel

No.	123
Length, inches	1½
Weight per gross, pounds	2
Per gross	$2.50

One gross in a box

PICTURE NAILS

Screw head, with white porcelain center and brass rim

No. 9. 2½ inch nail, weight per gross 4 pounds.....per gross, **$6.00**

One quarter gross in a box

CAN OPENERS

Steel blade, nickel plated handle

No. 17. 5½ inches long, weight per dozen 1½ pounds per dozen, **$1.75**

One dozen in a display box

With Cork Screw

Vaughan. Can and bottle opener, five tools in one. For opening cans, lifting crown caps, lifting milk bottle caps, lifting shallow mustard bottle corks, pulling corks, etc. Blades are of crucible steel, oil tempered. Is hand buffed, finely finished and highly nickel plated .....per dozen, **$2.25**

One dozen in a fancy rack display box

No. 200 Perfection. Can and bottle opener, is a rotary adjustable can and bottle opener, opens round or square cans, and lifts crown caps off bottles, etc. The blades are made of the best quality crucible steel, metal parts are nickel plated and highly polished, closed in nickeled ferrule, black rubberized handle. Length over all 10½ inches....per dozen, **$4.00**

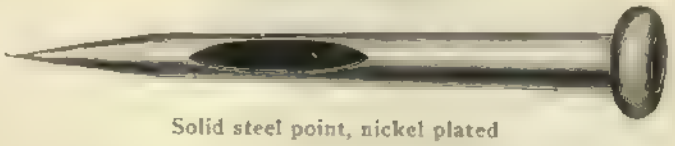
One dozen in a fancy display box

STEAK HAMMERS

No. 8. Tinned, malleable iron head, steak hammer on one side, ice hatchet on the other, 10 inch hardwood handle, weight per dozen 9 pounds, per dozen, **$4.00**

One dozen in a box

GRAIN TRIERS



Solid steel point, nickel plated

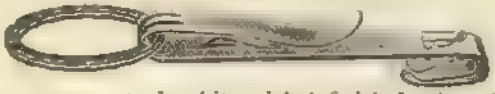
No. 12. 9 inches long, weight per dozen 6 pounds....per dozen, **$42.00**

KEY RING HOOKS

Steel, white nickel finish

No. 68. Weight per dozen 8 ounces.....per dozen, **$0.85**

One dozen on a card, one gross in a box



Heavy gauge steel, white nickel finish hooks with polished steel French key rings

No. 069. Weight per dozen 8 ounces.....per dozen, **$1.50**

One dozen on a card, one gross in a box

TAYLOR THERMOMETERS

SUNRISE ASSORTMENT

No. 5152S. Sunrise thermometers are 8 inches long, have a lithograph tin scale, mounted on green stained hardwood backs, magnifying spirit filled tubes; each dozen packed in a maroon colored imitation leather display box for counter use. Scale range 10° to 60° below zero to 120° F. above; size of package 8x8¾x2¾ inches thick, weight per dozen 4 pounds .....per dozen, **$8.00**

CHICAGO HONEYCOMB RADIATORS

These radiators are made of brass, top and bottom tanks being drawn from one piece. Core is made of 36 gauge brass. As the radiator is assembled, it is dipped in molten solder which insures a leak-proof construction. Every tube is a water tube, giving the radiator greater cooling capacity than most radiators now offer. Due to this honeycomb construction, it will withstand frequent freezing without serious damage.

As additional features to eliminate leaks, the side brackets are soldered to the radiator instead of being riveted. They are of double hinge construction which permits flexibility and allows for vibration without damage.

Each Chicago radiator is fully guaranteed against defective material or workmanship and is thoroughly tested with air pressure under water before being shipped.

A stamped steel shell richly enameled in black is furnished with each radiator.

FOR DODGE

When ordering give year of car.

No. F7437—W't each 47 lbs.★ .....each $72.80

ONE IN A CASE

FOR MAXWELL

When ordering give year of car.

No. F7438—W't each 43 lbs.★ .....each $69.40

ONE IN A CASE

FOR CHEVROLET

When ordering give year of car and specify whether pump or syphon system.

No. F7439—W't each 47 lbs.★ .....each $64.00

ONE IN A CASE

FOR FORDS

For 1917 to 1921 models.

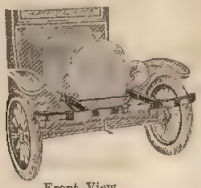
No. T7451—W't each 47 lbs.★ .....each $27.00

ONE IN A WOODEN BOX

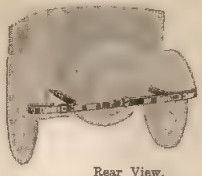
★ Items Marked Thus ★ Are Shipped From Factory Only.

STEWART AUTO GUARDS

This is a very substantial bumper made of high grade materials. Very attractive. When properly installed it is secure and will not rattle or loosen. This auto-guard is fastened to the car with bolts. W't each 60 lbs.



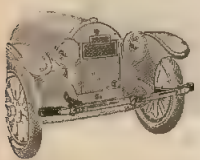
Front View.



Rear View.

No. F7840—158F —Front Black Enameled guard rail, will fit Chevrolet 490—1920-21★ ..... each **$14.68**
No. F7841—158L —Rear Black Enameled guard rail, will fit Chevrolet 490—All Models★ ..... each **14.68**
No. F7842—158FN—Front Nickel Plated guard rail, will fit Chevrolet 490 -1920-21★ ..... each **17.34**
No. F7843—158LN—Rear Nickel Plated guard rail, will fit Chevrolet 490—All Models★ ..... each **17.34**
No. F7844—158H —Front Black Enameled guard rail, will fit Overland 4★ ..... each **14.68**
No. F7845—158R —Rear Black Enameled guard rail, will fit Overland 4★ ..... each **14.68**
No. F7846—158HN—Front Nickel Plated guard rail, will fit Overland 4★ ..... each **17.34**
No. F7847—158RN—Rear Nickel Plated guard rail will fit Overland 4★ ..... each **17.34**

ONE IN A CRATE

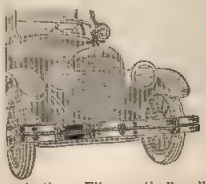


UNIVERSAL MODEL, has a nickel plated reinforcing leaf. This extra leaf adds to the resiliency of the bumper. Steel construction and is very substantial. Will fit practically all cars, front and rear in front of the black enameled spring guard rail.

No. F7835—W't each 55 lbs.★ ..... each **$24 00**

ONE IN A CRATE

Specify Make, Year, Model of Car When Ordering and Advise if Front or Rear Bumper is Wanted.

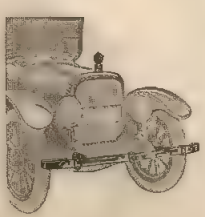


DE LUXE MODEL has double bar autoguard and is very attractive. It is made from highest grade of materials and is substantial. Gives protection to the entire front of the car. Both guard rails are highly nickel plated. Prevents other bumpers from slipping over or under, giving double protection. Fits practically all cars.

No. F7838—175—W't each 60 lbs.★ ..... each **$29.34**

ONE IN A CRATE

Specify Make, Year, Model of Car When Ordering and Advise if Front or Rear Bumper is Wanted.



UNIVERSAL MODEL, steel construction and is very substantial. Will fit practically all cars, front and rear, in front of the spring guard rail, w't each 45 lbs.

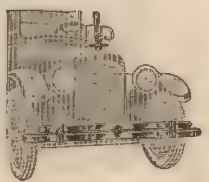
No. F7836—Black Enameled guard rail★ ...each **$18.00**

No. F7837—Nickel Plated guard rail★ .....each **20.00**

ONE IN A CRATE

Specify Make, Year, Model of Car When Ordering and Advise if Front or Rear Bumper is Wanted.

ARISTOCRAT MODEL, double bar autoguard, one guard rail is shorter than the other. This rail can be placed above or below the main guard rail as desired. The double bars prevent other bumpers from slipping over or under, thereby giving double protection. Both rails are highly nickel plated. Will fit practically all cars.



No. F7839—181—W't each 60 lbs.★ ..... each **$28.00**

ONE IN A CRATE

Specify Make, Year, Model of Car When Ordering and Advise if Front or Rear Bumper is Wanted.

★ Items Marked Thus ★ Are Shipped From Factory Only.

CHIME TOYS

Big values in popular priced chime toys; fast selling numbers every one; finished in colors or full nickel plated.

FLOOR CHIMES

T4061 — Full nickel plated, 1¼ inch steel gongs, 1¾ in cast wheels; 1 dozen in box. Dozen ..... .75

T4062—Same, with 1½ in. gongs and 2¼ in. pressed steel wheels, 1 dozen in box. Dozen..... .90

T4064—Same, 2¼ in. gongs, 2¾ in. cast wheels; 1 dozen in box. Dozen 2.00

T4117 Revolving floor chime, nickel plated, 1¾ in. polished nickel plated gongs; 1½ in. wheels, length 4 ins.; 1 doz. in box. Dozen 1.25

T4121—3 in. pressed steel wheels, 1¾ in. polished nickeled gongs length 7 ins.; 1 dozen in box. Dozen 2.00

T4123—Horse and jockey; full nickel plated; 2 inch bells; length 7 ins.; ½ dozen in box. Dozen 2.00

T4127—Assorted 3 kinds, sailor, soldier and Charlie Chaplin, finished in silver and gold bronze; 1¾ in. pressed steel gongs, 1¾ in. pressed steel nickeled wheels; 6½ in. long, 2¾ in. wide, 5½ in. high, ¼ doz. in box assorted. Dozen 3.75

T4134 — Two figures of Charlie Chaplin dancing when in motion, 1¾ in. pressed steel nickeled wheels, 3 1¾ in. nickeled gongs, on pressed steel platform; length 9½ ins.; 3¾ in. wide, 7 in. high; ¼ dozen in box. Dozen 4.50

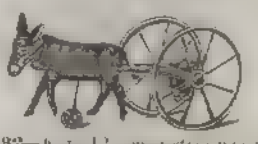
T4136—Double see saw, Buster, Tige and Tommy, and Buster, Ted and Tessie; bright colors green enameled frame, 1¾ in. stamped steel nickeled wheels, 1¾ in. nickeled bell; see saw action when in motion; 9½ in. long, 3½ in. wide, 6 in. high; each in carton. Dozen 6.75

ANIMAL CHIMES

T4125—Assorted 2 kinds, horse and sheep; animals finely colored, sitting on modeled and finished; 3½ inch stamped wheels, red enameled, 1½ in. nickeled gong; length 7 in.; 1 dozen in box. Dozen 2.25

T4128—4 in., 8 spoke red steel wheels and shafts, white and spotted, 1½ in. nickeled bell; length 9 ins., 4 in. high; ½ dozen in box. Dozen 3.75

T4138 Lithographed stamped steel duck; natural colors, 5 in. long, 1½ in. nickeled steel gongs; 3½ in., 8 spoke, stamped enameled wheels length 3½ ins., 3 in. wide, each in box. Dozen 4.50

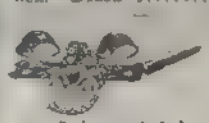


T4182—6 in. 12 spoke steel wheel steel shafts, gray cotton papier mache donkey; 2¼ in. nickeled bells; length 12 ins., 6 ins. high; 1/6 dozen in box. Dozen ..... 9.50 Each ..... .85

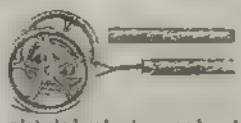
PUSH CHIMES

T4102 Nickeled frame, 1¾ in. gong, 2½ inch wheel; 18 in. stained handle, with ferrule; length over all 22 ins.; 1 dozen in carton. Dozen 1.15

T4103 Push Chimes with nickeled steel frame; stained wood handle with metal ferrule, 2¼ in. wheels, 1¾ in. gongs finely nickel plated; length 24 ins.; 1 dozen in box. Dozen 1.25



T4106—Nickeled frame; nickeled wheels and two 2 in. nickeled gongs; 18 in. stained handle with ferrule; length 24 ins.; 1 doz. in box. Doz. 2.15



T4082—Five spoke stamped steel 3 inch nickeled wheels, wood axle, 1¾ in. nickeled gong; 16 in. natural wood handle; length over all 21 ins.; ½ dozen in box. Dozen 3.00

T4086—Same, larger; 4½ inch wheels, 3 in. gong; 16 in. natural wood handle; length over all 22 ins. ¼ dozen in box. Dozen 4.00

T4085 2¼ steel gong, 4 inch steel wheels, 18 in. bamboo, natural finished bamboo with ferrule; length over all 22 ins.; 1 dozen in box. Dozen. 3.75

T4108 — Nickeled frame, embossed 5 inch galloping horse with lion rider; 18 in. stained handle with ferrule; two 1¾ in. gongs; 2 in. wheels; length over all 24 ins., 3 in. wide, 5½ in. high, ½ dozen in carton. Dozen 4.00

T4109 Full nickel plated frame, 2½ inch wheels; four 1½ inch gongs, operated by ratchet; two figures, one each side telephoning; gongs resemble telephone bell ringing, 18 in. stained handle, size 4½x4½x4½ ins., length over all 24 ins., 1/3 dozen in box. Dozen.... 4.15

T4110 ... nickel plated frame; 4 gongs differing in tone, producing delightful harmony; sizes 2¼, 2⅜, 2½, 2⅝ ins.; 18 in. stained handle, length over all 24 ins.; 1/3 doz. in box. Dozen 4.85

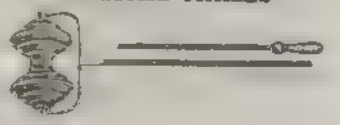
WHEEL FLOOR CHIMES
CHENILLE COVERED

T4074— 3½ inch nickeled wheels chenille covered; 2¼ in. polished nickel gongs; ½ doz. in box. Dozen 4.00

WHEEL PUSH CHIMES
CHENILLE COVERED

T4095— 3 in. nickeled gongs, 5 in. chenille covered wheels 16 inch stained wood handle with ferrule; ½ doz in box. Dozen 6.00

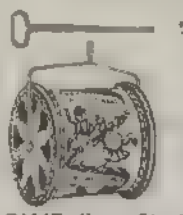
MUSICAL CHIMES



T4083 3x4½ in. double chime roller; 19 in. round stained handle; length over all 22 ins.; 1 dozen in box. Dozen 2.10

T4084—Same as T4083, 3½x5½ in. double chime; length over all 22 ins.; ½ dozen in box. Dozen 3.75

ROLLER CHIMES



T4146— Drum 4½x5 inches, lithographed picture covered; stained ends; 18 inch wire handle; ½ dozen in box. Dozen 2.15

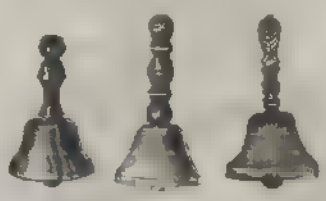
T4147 —Same, 5½x5½ in. drum; dozen in box. Dozen. 3.75

T4148—Same, 6½x6¾ in. drum; 20 in. handle; 1/3 dozen in box. Dozen..... 4.50

T4149—Same as T4148, 6⅞x7⅝ in. drum; 24 in. handle; 1/3 dozen in box. Dozen..... 6.75

TEA AND CALL BELLS

Staple merchandise in every store; perfect in finish and tone.



T4041 T4043 T4046

T4041—Tea Bell; made from sheet steel, finely nickel plated with black enameled handle; diameter 1¾ ins., height 3 ins. 1 doz. in box. Doz. .84

T4043—Tea Bell; sheet steel, finely nickel plated, black enameled wood handle; diameter 2½ in., height 4½ in., 1 dozen in box. Dozen ..... .72

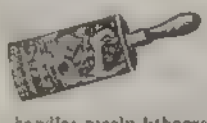
T4046—Tea Bell; sheet steel, nickeled 1⅞ in. bell, embossed metal handle; height 3½ ins.; 1 dozen in box. Dozen ..... .75

CALL BELLS

T4051 — Nickeled steel bell, bronze base, 1¾ in. in diameter; 1 dozen in box. Dozen 1.10

T4054—3⅜ in. bronze finished embossed base, 2¾ in. full nickeled polished bell; 1 doz in box. Doz. 4.00

CHIME RATTLE

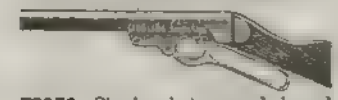


T4385— 2⅝x4¼ in. ... closed tube; wood end and handle; nicely lithographed nursery subjects in bright colors; 1 doz. in box. Dozen ..... .72

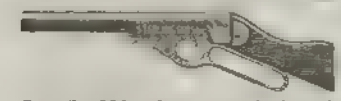
AIR RIFLES

The strongest, best constructed and most accurated shooting air rifles made walnut stocks; gun metal finished barrels.

T2974—Single shot; round barrel, blued steel; break action, walnut stock, length 29 in. Each. .62

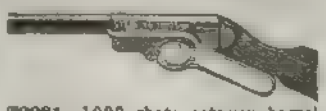


T2976—Single shot; round barrel, blued steel; lever action, walnut stock; length 31½ in. Each..1.00

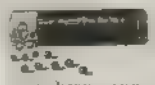


T2977—350 shot; round barrel, blued steel, lever action; walnut stock; length 31½ in. Each..1.42

T2980—500 shot; octagon barrel, blued steel; lever action; walnut stock; length 33 in. Each...1.79



T2981—1000 shot; octagon barrel, blued steel; lever action; walnut stock; length 35 in. Each....2.10



T2987 - Black finished shot gun shell container, revolving brass cap, contains 4 ounces of BB air rifle shot; length 2¾ ins.; 1 doz. in pkge. Dozen.... .68
Case of 100 tubes.....5.00

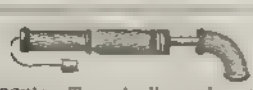
DARTS FOR AIR RIFLES

T2988 -Darts; assorted colors excellent for indoor or target shooting; can be used over and over again; one dozen in an envelope. Dozen..... .20

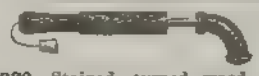
An attractive display of air rifles and pop guns, will make them ready sellers.

POP GUNS

Well made and finished, good sellers all the time. Be sure you have a good supply on hand.



T2930½—Turned all wood, natural finish, red and blue banded; length 8 ins.; 1 dozen in pkge. Doz. .85

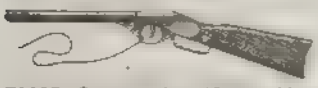


T2930—Stained, turned wood pop gun; extra loud; length 10 ins. 1 dozen in bundle. Dozen . .95

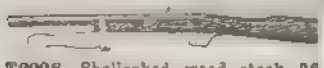
T2948—Six in. blued steel barrel, natural stock; cork attached; length 13 in., 1 dozen in pkge. Dozen 1.10

T2950—Heavy metal, black enameled; stained stock, with cork attached; length 19½ ins.; each in carton. Dozen 1.35

T2951—Cork shot; round, blued steel barrel; break action; walnut stock; length 16 in. Dozen...2.15

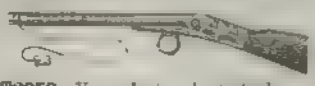


T2955—Lever action; blue steel barrel, walnut stained stock; length 17 ins.; each in carton. Doz .2.15



T2928—Shallocked wood stock 22 in. long; tin barrel; cork shot; slide lever action; total length 28 ins.; 1 dozen in box. Dozen 2.25

T2954—Cork shot, round, blued steel barrel, lever action, walnut stock; length 17 in.; each in carton. Dozen.....2.25



T2952—Varnished walnut stock; extra heavy tin barrel, nickel plated and polished; cork shot, lever action; length 16 ins.; each in box. Dozen 4.00

T2957 -Extra large, break action, strong spring, blue steel barrel; varnished walnut stock; length 30 ins.; each in carton. Dozen 6.75

REPEATING PISTOL
AUTOMATIC

T2945 — Made of heavy steel; concealed cork; automatically loads and shoots as often as trigger is pulled; length 6¼ in ; each in carton. Doz. 2.25

THE RONSON REPEATER

H693—Feeds and shoots automatically; comes loaded for 5000 shots; gun metal finish; size 4½x3½ ins. each in carton Dozen. 2.00

H694—Reloads; 1 in envelope (5000 shots) Dozen envelopes.... .38

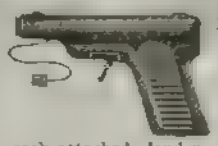
TARGET GUNS
VACUUM

T2911—5 in. black finished pistol, with 4¾ in. vacuum tipped arrow; on target card 4¼x6 ins.; 1 dozen in package. Doz. .85

T2912 — Outfit consists of 8 in. black finished metal target pistol with 7 in. vacuum tipped arrow, and colored target on heavy cardboard; size 8¾ x12¾ ins.; arrow adhers by suction to target when shot from pistol, 1 doz. in box. Dozen.....2.10

T2913—Same as T2912, but 23 in. gun, and 7 in. vacuum tipped arrow; on card target 6½x23 ins.; 1 dozen in package. Dozen...4.35

POP PISTOL



T2940—Stamped blue steel, automatic pattern; easy to load; with cork attached; loud report; size 5x 3½ ins.; 1 dozen in pkge. Dozen ..... .95

SWORDS

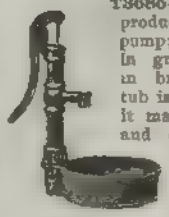
T2886—Bright metal 8 inch blade fancy gilt and green bound, grip, 10 in. bright metal seabard; length over all 13 ins.; 1 dozen in pkge. Dozen 30

T2887—Same, 9¾ in. blade; 13 in seabard; length over all 16 ins.; 1 dozen in pkge. Dozen..... .39

T2888—Same but with 18 in. belt and buckle; 1 dozen in pkge Dozen ..... .72

MISCELLANEOUS TOYS

CONTINUOUS FLOW TOY PUMP



T3685--An excellent reproduction of a force pump; pump finished in green enamel, tub in bright red; when tub is filled with water it may be pumped up and discharged again into the tub, making a continuous flow, height pump 8 inches; tub 4½ inches in diameter. ½ dozen in carton. Dozen 4.25

TOY SCALES

T3691-Iron frame, tin scoop, finished in bright colors; complete with weights, size pan 1¾x3 ins., 3 in. long; 1 dozen in box. Dozen.. .85

T3693—Same as T3691, larger, 3x 4¾ in. pan, 4½ in. long; ⅓ dozen in box. Dozen.....2.15

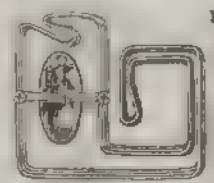
T3695—Same as T3691, larger; 3x 5 in. pan, 5½ in. long; each in box. Dozen 3.75

DRIVING REINS

Durably made from selected oil cloth; nickeled bells.

T4153 — Flat white oil cloth rein, turned edges, red sewed; single breast strap with two ¾ in. nickeled bells; 1 dozen in box. Doz... .82

T4154 — Flat white oil cloth rein: blue stripe; turned edges, red sewed; single breast strap with three 1 in nickeled bells 1 dozen in box Dozen ..1.35



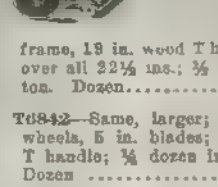
T4155— Flat white oil cloth rein, blue stripe, red sewed turned edges; single breast strap, with three 1 inch nickeled bells, and litho oval picture juvenile on galloping horse; 1 dozen in box. Dozen..... 2.00

T3688--Turned wood mahogany finished stand 2⅛ in. base, metal balance, brass chains, 2 in. brass polished pans; 6¾ in high; 1 dozen in box. Dozen. .88

T3689—Same as T3688, larger, 2½ in. base, 2½ in. pans, 8 in. high. 1 dozen in box. Dozen...[illegible] 1.25

T3690—Same as T3689, larger, 3 in. base, 3 in. pans, 9¾ in. high. ½ dozen in box. Dozen.....1.85

LAWN MOWERS



T6841 Bicycle the regular lawn mower; 2½ in. green enameled side wheels 3 in. revolving blades red enameled metal frame, 18 in. wood T handle; length over all 22½ ins.; ½ dozen in carton. Dozen.....1.95

T6842—Same, larger; 3¼ in. side wheels, 5 in. blades; 24 in. wood T handle; ½ dozen in carton. Dozen 3.75

T6843—Same, larger; width 8½ in., 31½ in. long; ⅓ dozen in carton Dozen 6.00

Toy Tea Sets, Silverware, Etc.

CHINA TOY TEA SETS

N26010

Per doz. sets

N26010—CHINA TEA SET—Decorated with flower decoration. Two cups and saucers, teapot, sugar and creamer. Size 5¾x4¾ inches. Packed each set in box 5.60

Each

N26022—CHINA TEA SET 5 Pieces, floral decoration. 3 cups, 3 saucers, size 4¾ inches, teapot and creamer. Size of box, 8x6 inches 3.84

Per doz

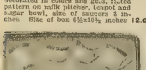
N26023—CHINA TEA SET—15 Pieces. Height of teapot with cover 5 inches. Size of plates 7¾ inches, includes milk pitcher and sugar bowl. Decorated in colors and packed in box, size 6¾x8¾ inches 4.80

N26024 CHINA TEA SET—3 Pieces China, decorated with bright floral design, size of saucers 3 inches, height of teapot with cover, 3 inches. Each in box, 6½x10½ inches 6.00

N26025—CHINA TEA SET 5 Pieces decorated with floral design, teapot 7½ inches high, plates 5 inches in diameter; packed in box, 6½x10½ inches 9.00

N26026—CHINA TEA SET 8 Pieces, decorated in gold and colors, teapot has fluted bottom design and stands 8¾ inches high, saucers 5 inches in diameter, size of box, 7x10½ inches 9.00

N26027—CHINA TEA SET—9 Pieces, decorated in colors and gold, floral pattern on milk pitcher, teapot and sugar bowl, size of saucers 5 inches. Size of box 6½x10½ inches 12.00



Per doz. sets

N26011 TEA SET Blue and white China border decoration. Two large cups and saucers, teapot, sugar and creamer. Size 10¾ inches. Packed each set in box .. 10.00

Per doz.

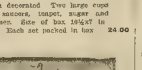
N26028—CHINA TEA SET—13 Pieces, prettily decorated with floral design in colors. Height of teapot with cover, 5 inches. Saucers 5¾ inches in diameter. Size of box is 11¾ inches 16.00

N26029—CHINA TEA SET 18 Pieces decorated in gold and colors. Teapot 4½ inches in height, oval type cover. Saucers 5 inches in diameter. Size of box 13x11½ inches 18.00

N26003—CHINA TEA SET—17 Pieces, decorated in gold and colors. Teapot 4 inches high with cover. Size of saucers 5 inches in diameter. Size of box, 16x11 inches 21.00

Per doz. sets

N26012—TEA SET Blue and white China decorated. Two large cups and saucers, teapot, sugar and creamer. Size of box, 10¼x8 inches. Each set packed in box 24.00



Per doz. sets

N26013—CHINA TEA SET Floral decoration. Four cups and saucers, teapot, sugar and creamer Size of box 11¾x7¾ inches. Each set packed in box 24.00

All Our Toys are new this year. There are no old items in our stock. A most attract ive and fast selling line representing exceptional values

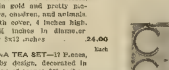
N26014

Per doz.

N26014—CHINA TEA SET—9 Pieces, decorated in gold and pretty pictures of toys, reindeer, and animals. Teapot, with cover, 4 inches high. Saucers 5¾ inches in diameter. Size of box 9x12 inches 24.00

Each

N26004—CHINA TEA SET—12 Pieces, novel chubby design, decorated in colors; helgnt of teapot 5½ inches, with cover. Saucers 7¾ inches. Size of box, 16x13 inches 15.00



N26015

Each

N26015 -CHINA TEA SET Floral decoration, two large cups and saucers, sugar, teapot and creamer Size of box 10¾x7¾ inches. Each set packed in red box 2.80

N26026—CHINA TEA SET 16 Pieces, wide blue stripes with floral design. Extra large teapot, 5¾ inches in height, 4 inches in diameter. Saucers 5¾ inches Size of box 14½x11½ inches 3.00

Each

N26016—CHINA TEA SET—Floral decoration. Two large cups and saucers, sugar teapot and creamer Size of box 12¾x8¾ inches Each set packed in red box 4.00

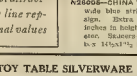
Each

N26017—CHINA TEA SET—With blue decoration with gold stars. Six cups and saucers, sugar, teapot and creamer Each set packed in red box 7.00

Each

N26018—CHINA TEA SET Children decoration Six cups and saucers, sugar, teapot and creamer. Packed 1 set in package 5.00

TOY TABLE SILVERWARE



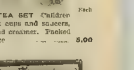
N26834

Per doz. sets

N26834—TOY TABLE SILVER Miniature imitation silver. 2 each, knives forks, spoons, napkin rings, and napkin balls. Length of knives 2¾ inches Each set on a card. 12 cards in box, not broken 1 60

N26835—TOY TABLE SILVER Nickeled tin, with white wooden handles to resemble ivory, 5 each, knives, forks, spoons, two napkin rings and miniature holder for silver made of black mesh wire. Length of knives 2 inches Each set placed on card in display box 2 50

N26836—TOY TABLE SET 16 Piece imitation silverware. Fruit dish 2 inches in diameter. Knives 2 inches long. Plates 2¼ inches in diameter Each set in display box, 8¼x11¼ inches 5.00



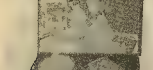
Per doz.

N26030 CHINA TEA SET—17 Piece, decorated in gold and colors. Teapot 4½ inches high, with cover, saucers 4 inches in diameter Size of box 10¾x8½ inches ... 21 60

Each

N26031—CHINA TEA SET 17 Pieces. Blue purple borders with gold decorations. Teapot 4¾ inches high with cover Saucers 3 inches in diameter Size of box, 11¾x13½ inches 2 50

Toy Overwave



Each

N26047—LITTLE MOTHER'S KID-BAKE—6 Pieces, Famous "Toy Baking Glassware," one 4-inch cas serole, one 6-inch casserole cover, two 3-inch round ramekins Guaranteed to withstand heat of kitchen stove. Complete with recipe book, that will exactly fit each dish, furnished with every set Put up in strong display box, size 11x15 inches 3 00

ARTIFICIAL FOOD ON PLATES

N2565

Per doz. sets

N25616—ASSORTED EATABLES—4 dozen in box, each on paper plate, consisting of fruit, fish, butter cheese, meat and bread Plate measures 2¾ inches in diameter Packed 1 dozen in box 4 50

N25617—ASSORTED EATABLES—1 dozen in box, each on paper plate, consisting of fruit, fish, butter, cheese, meat and bread Plate measures 2 inches in diameter. Packed 1 dozen in box 7.50

N25468—MEATS AND FRUITS—Made of China and glass, in real colors Fish steak, roast and oranges on plates 2¾ inches in diameter 12 plates in box, not broken 4.80

N25469—MEATS AND VEGETABLES—A larger assortment than N25468. Making a very appetizing display 18 plates in box, not broken 9.00

Per set

N27059—STOVER JUNIOR WAFFLE IRON—Will actually make small waffles or cookies. A toy vapordust on of the regular iron. Heavy cast metal. Diameter of irons 4½ inches Each in box.. 7.84

Toy Waffle Iron

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Codes: *Codes:* Codigos
WESTERN UNION,
MARCONI, and
A.B.C. (7th & 8th Editions).

CHRISTOPHER COLLINS LTD
BIRMINGHAM CRISCOL MARK ENGLAND

MANUFACTURERS OF MINERS' LAMPS.

Fabricants de Lampes de Mineurs. Constructores de Lámparas para Mineros.

WE INVITE ENQUIRIES FOR
MINERS' LAMPS.

The high standard of Quality represented by these and our other leading specialities

Motor Car Lighting Sets,
Blow Lamps, Spirit Stoves,
Ship Lamps, Hurricane
Lamps & Railway Lamps,

is maintained in all our other supplies whatever the illuminant Gas, Electric, Oil, Acetylene.

Nous sollicitons les demandes de renseignements pour les
LAMPES DE MINEURS.

Nous attirons l'attention sur la haute valeur de ces lampes et des autres articles de notre maison tels que—

Installations d'éclairage pour automobiles
lampes à soudures, poêles à alcool
lampes de navires et de chemins de fer,

qui maintiennent leurs hautes qualités quel [illegible] d'éclairage employé—gaz, [illegible] e huile, ou électricité.

Solicitamos consultas para
LAMPARAS DE MINEROS

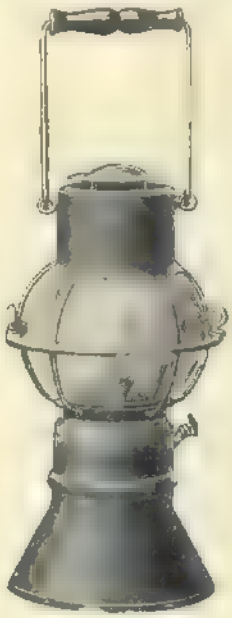
El alto grado de calidad representado por éstas y otras de nuestras especialidades, tales como—

Grupos de alumbrado para automóviles,
lam[illegible]as de soplo, lámparas para navíos,
lámparas de tempestad y lámparas para ferrocarriles,

se mantiene en todos nuestros suministros cualquiera que sea el elemento de alumbrado gas, electricidad, aceite, acetileno.

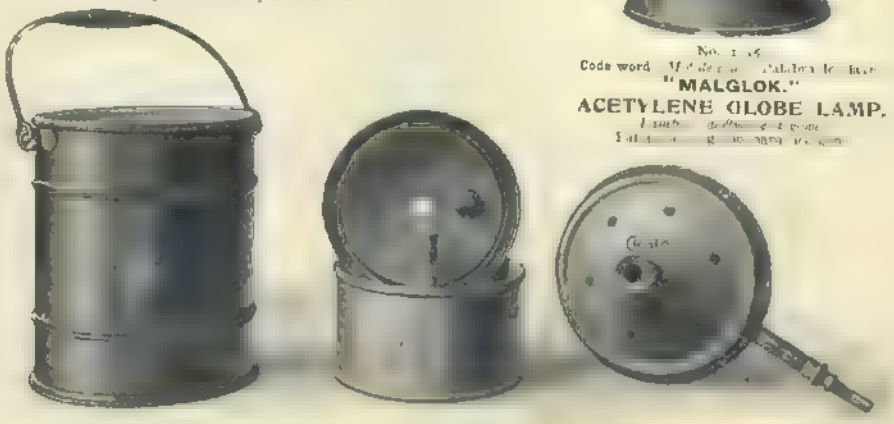
No. 598
Code word: *Mot de code:* Palabra de clave:
"SLAXIE."
BUNKER LAMP.
Lampe pour soute à charbon
Lámpara para pañoles.

No. 1200
Code word: *Mot de code:* Palabra de code:
"MALTOFE."
MINERS' HAND LAMP.
Lampe à main de mineur
Lámpara de mano para mineros.



No. 1205
Code word: *Mot de code:* Palabra de clave:
"MALGLOK."
ACETYLENE GLOBE LAMP.
[illegible]

No. 1206.
Code word: *Mot de code:* Palabra de clave:
"MALBUCS."
MINERS' ACETYLENE BUCKET LAMP.
Lampe réservoir à acétylène pour mineurs.
Lámpara de cubo á acetileno, para mineros.



No. 1200. SHOWING COMPONENT PARTS OF LAMP
Détailles de la lampe précédente. Partes componentes de la lámpara.

CHRISTOPHER COLLINS Ltd
BIRMINGHAM — CRISCOL — ENGLAND

Codes: *Codes:* Códigos:
WESTERN UNION,
MARCONI and
A.B.C (7th & 8th EDITIONS).

MANUFACTURERS OF SHIPS' LAMPS.

Fabricants de lampes pour navires. Fabricantes de lámparas para buques.

No. 613
MASTHEAD LAMP.
Code word *Mot de code*
Palabra de clave
SLEBTO

No. 611
SIDE LAMP.
Code word *Mot de code*
Palabra de clave
SLEBAN.

No. 610
Code word *Mot de code*
Palabra de clave
SLEXOA.

All Lamps made to pass Board of Trade Regulations.

Toutes les Lampes sont fabriquées selon les règlements du Ministère de Commerce.

Todas las Lámparas son fabricadas conforme al reglamento del "Board of Trade" (Ministerio de Comercio).

No. 616
ENGINE-ROOM LAMP.
Lampe pour chambre des machines
Lámpara para el cuarto de máquinas.
Code word *Mot de code*
Palabra de clave:
SLOBAG.

No. 589.
HURRICANE LAMP.
Lampe pour tempêtes, ouragans, etc.
Lámpara de tempestad.
Code word *Mot de code*
Palabra de clave:
SLAXCO.

The CRISCOL SHIP LAMPS have a world-wide reputation, and with their other **LIGHTING REQUISITES** enjoy an unimpeachable reputation for

Scientific Accuracy, Constructional Superiority and Perfection of Finish.

Export Orders a speciality.

LES LAMPES DE MARINE "CRISCOL" ont une réputation mondiale, et de même que toutes les autres spécialités pour éclairage, elles sont surtout connues pour leur précision scientifique, leur supériorité de construction, et la perfection de leur fini.

Nous nous spécialisons dans les articles pour exportation.

LAS LAMPARAS "CRISCOL" para navíos, tienen una reputación mundial y con los otros accesorios para alumbrado, disfrutan de una fama sin igual por su precisión científica, superioridad de construccion y perfección de su acabado.

Especialidad: Los pedidos para la exportación

WE ARE

MANUFACTURERS OF

HOSE PIPES

For ALL SERVICES.

NOUS SOMMES FABRICANTS DE TUYAUX D'ARROSAGE ET POUR USAGES DIVERS EN TOUS GENRES.

SOMOS FABRICANTES DE TUBOS Y MANGUERAS PARA TODO SERVICIO.

Fire Extinguishing, (AC)	*Pour pompes à incendie,*	Extinción de incendios,
Steam Conveying, (EF)	*Pour alimentation de vapeur*	Conducción de vapor,
Tank Filling, (IB)	*Remplissage de réservoirs*	Llenar tanques
Tank Discharging, (OD	*Vidage de réservoirs,*	Descargar tanques,
Oil Pumping, (UX	*Pompages d'huiles,*	Bombear petroleo
Pneumatic Work, (SA)	*Pour travaux pneumatiques,*	Trabajos neumáticos,
Salvage Work, (PE)	*Renflouement de navires*	Trabajos de salvamento
Dredging Work. (TI)	*Dragages*	Trabajos de dragado.

IN LEATHER, INDIA-RUBBER, CANVAS, FLEXIBLE BRONZE AND STEEL.

En cuir, caoutchouc, toile de voile, bronze et acier flexibles.

De cuero, cauchó, lona, bronce y acero flexible

JOHN TAYLOR, DUNFORD & CO., LTD.

Dean Street, NEWCASTLE-ON-TYNE.

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FIRE EXTINGUISHING APPLIANCES.

ANIMAL TOYS AND POPULAR PERFORMING TOYS

IMPORTED FLANNEL COVERED ANIMALS

Fine models pressed paper bodies, all on metal wheels.

F6767—Bull dog and terrier, aver 15 in., white flannel covered with natural spotting, painted features, glass eyes, each w.th morocco collar and leash. Assrd. ½ doz. in box..... Doz. **$9.50**

VELVET PUPPY AND KITTY GRUMPY— With Voices

The moving head and tail make this a distinctive novelty

Fine quality white velvet bodies, case with gray, dogs with brown head and back, glass eyes, stitched nose and mouth, leatherette collars with buckle, stuffed bodies, with velvet, head and tail moves simultaneously

F5898—8x6¾ in. Assrd ¼ doz. in box. . . Doz **$9.00**

F5898—7x8 in. Assrd. ½ doz. in box . . . . . Doz **$13.75**

F5890—8x9¼ in. Assrd ¼ doz. in box.....Doz. **$18.00**

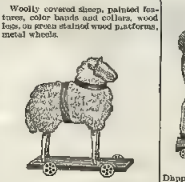
PLUSH ANIMAL ASSORTMENT

Fine quality plush, well stuffed bodies, excellent workmanship

F5041—3 styles, 9x8 in., white mohair plush cat with long tail and felt ears, dog with brown plush tail and ears glass eyes stitched nose and mouth, leatherette or ribbon collars, voice when pressed. Assrd. ½ doz. in box Doz. **$6.75**

IMPORTED WOOLLY SHEEP

Woolly covered sheep, painted features, color bands and collars, wood legs, on cross stained wood platforms, metal wheels.



F6821 7x9½ in. 1 doz. in box Doz **70c**

F6824—8x9¼ in. sheep and 2 lambs with artificial true. ½ doz. in box. . . . . Doz. **$1.15**

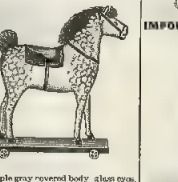
IMPORTED HORSE AND WAGON TOY

F6478—8½ in. over all, 3 in composition natural finish horse 5½ in bright color cart, two 3 in. open spoke wheels. ½ doz. in box . . . . . Doz. **42c** (Total $1.26)

IMPORTED DANCING FUR MONKEY

F6005—11 in., fur body with 5½ in. fur tail composition head, painted face, wire arms and legs, wood feet and hands, coil springs and string permits monkey to jump around 1 doz. in box Doz. **$1.75**

IMPORTED FELT FINISH HORSES

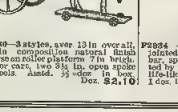


Dapple gray covered body, glass eyes, fur mane and tail, gold trimmed felt blanket, gray saddle, leatherette bridle, 4 wheel red stained wood platform.

F6750—61x6 7½x7½ in. 1 doz. in box.....Doz. **$2.10**

F6752—14x13 in. ½ doz. in box Doz. **$9.25**

IMPORTED TOY HORSE AND WAGON ASST.



F6480—3 styles, aver 13 in. over all, 7 in composition natural finish horse on roller platform 7 in. bright color cart, two 3½ in. open spoke wheels. Assrd. ½ doz. in box. Doz. **$2.10**

IMPORTED PERFORMING FIGURES

Monkey on Stick—13 in long, 4½ in stained wood monkey. Pssst. 2 dz in box Doz **32c** (Total 64c)

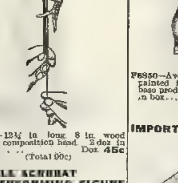
Jumping Jack—8 in. ladder with 5½ in stained wood figure jointed limbs performs when bottom of ladder is pressed together. Pssst.

F6960—2 doz in box Doz. **39c** (Total 78c)

Airship Carousset—5½ in. wood color lithe airplanes on strong frame with hook handle, good spring airship revolves when pressed down and released.

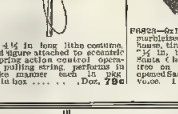
F6974—3 doz in box Doz. **57c** (Total $1.14)

IMPORTED JUMPING JACK



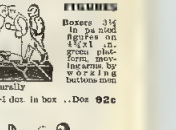
F6978—12½ in long, 8 in. wood body composition head, 2 doz in box. . . . (Total 90c) Doz **45c**

NIMBLE ACROBAT PERFORMING FIGURE



P2034 4½ in long lithe costume, jointed figure attached to eccentric bar, spring action control operated by pulling string, performs in life-like manner each in pkg. 1 doz. in box . . . . . Doz. **70c**

WOOD PERFORMING FIGURES



Boxers 3½ in. painted figures on 4x1 in. green platform, movable arms by working buttons naturally

F3678—1 doz. in box ..Doz **92c**

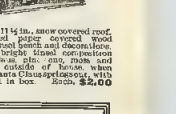
Punching Bag Toy—4¾ in painted athlete on 9½x1½ green wood platform, movable arms, brown wood bar suspended on wire upright, which punches bag when button is pressed.

F3679—1 doz. in box. Doz. **92c**

IMPORTED BELLOWS TOYS

F6850—Aver 5¼ in., assrd. animals, painted in bright colors, bellows tone produces noise. Assrd. 2 doz. in box. . . . . Doz. **78c** (Total $1 56)

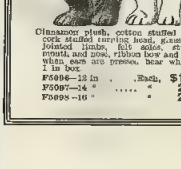
IMPORTED PERFORMING SANTA CLAUS



F6823—9x11½ in., snow covered roof, marbleized paper covered wood house, tinsel beach and decorations. 7½ in. bright tinsel composition Santa Claus, pipe, coat, mask and trim on inside of house, when opened Santa Claus appears out, with voice. 1 in box Each. **$2.00**

"FLUFFY DUPLEX WHISTLER" CINNAMON PLUSH BEARS

When ears are pressed bear whistles



Cinnamon plush, cotton stuffed body, cork stuffed turning head, glass eyes, jointed limbs, felt soles, stitched mouth and nose, ribbon bow and band, when ears are pressed, bear whistles 1 in box

F5096—12 in . . . .Each, **$1.85**
F5097—14 " ..... " **2.10**
F5098—16 " " **2.60**

CINNAMON PLUSH TEDDY BEARS

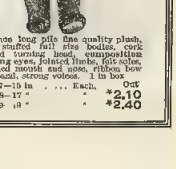
As popular as ever These soft cuddly playthings have stood the test of time and are in large demand wherever toys are sold.

Well stuffed, good quality brown plush, turning head, glass eyes, jointed limbs, felt soles, stitched mouth and nose, all with voices. ½ doz. in box, wrapped

F5071 14 in Doz. **$7.90**
F5072—16 in Doz. **$9.50**
F5073—18 in. Doz. **$10,90**
F5074—20 in Doz. **$12,50**
F5075—22 in Doz. **$15,50**

PLUSH TEDDY BEARS— Sleeping Eyes

An innovation in this very popular toy. Fine quality plush, realistic brown muzzle eyes.



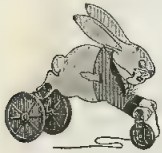
Cinnamon long pile fine quality plush, well stuffed full size bodies, cork stuffed turning head, composition moving eyes, jointed limbs, felt soles, stitched mouth and nose, ribbon bow and band, strong voices. 1 in box

F5167—15 in . . . . Each, Doz
F5168—17 " " **$2.10**
F5169—19 " " **$2.40**

ANIMATED CRAWLING TOYS
With Litho Counter Display Card

F2565–4 styles, comprises 5 bugs 3 moths, 2 turtles, 2 snails, lithographed in natural colors, move along as a natural pace. Assid. 1 doz. in box . . . . . Doz **$2.10**

"QUADDY" LEAPING RABBITS



White painted corrug.-board bunny, black outlined, coral or green painted solid steel wheels, rabbit leaps naturally when pulled along.

F2930–11x7¼ in. ½ doz. in pkg. Doz **$4.25**

F2938–15x9½ in. ¼ doz. in pkg. Doz **$8.25**

IMPORTED PERFORMING FARM YARD TOY

F6892–13x9 in. wood coop on metal wheels, supports (4) affect roof hinges, gate with spring when opened rooster springs out and opened rooster crows, vari-color rooster feather tail, hen on nest. ¼ doz. in box. Doz. **$8.00**

IMPORTED CUP AND BALL TOY

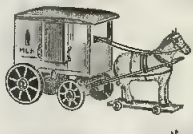
F6734–5¼ in., 2 in. bright metal cup, 3½ in. fancy bright natural wood handle with wheels, 1½ in. bright metal ball with concealed rattle, attached to string. 1 doz. in box. . . . . Doz. **80c**

IMPORTED WOOD ROCKING TOY
With Moving Eyes

F6788–4 styles, over 10½ in., hand painted figure, tinsel trim, 10½ in. green stained wood rocker with rocked eyes move. ½ doz. in box. Doz. **$6.40**

WOOD HORSE AND WAGON ASST.

Extra heavy construction, finished in attractive colors.



F2486–3 styles, contractor's bakery and milk wagons, over 8x5½ in., yellow & black, brown & black and drab & black varnished finishes, each with two 2½ and two 3 in. disc wheels painted spoked, horses 7x3½ in., leatherette harness, each in box. 3 in pkg. Total $3.90 Each **$1.10**

RED PAINTED WOOD WAGONS
With Horses

Litho red painted wagons and harness with dapple horses, steel wheel under front legs, well varnished open spoke wheels with tube.

Cart with Horse—2 styles, over 12½ in. gravel and coal carts, stenciled in black, 3 in. wheels.

F2143–1 doz. in box Doz. **$2.10**

Loaded Truck and Milk Wagon with Team—Over 15½ in., 3 and 3½ in. wheels, large horses with steel wheels, high open side truck loaded with grocery packages, milk wagon with 2 miniature milk cans with covers.

F3145–½ doz. in box . . . . . Doz **$4.25**

3 PIECE WOOD TRAIN

F3805–3 pieces, engine, tender and caboose, length 41 in., over all, highly finished in red with black and gold stripings, with easy turning wood wheels. 1 set in carton . . . . . Set (3 pcs.) **$1.00**

Send for our new book entitled
SELF-SERVICE ADVERTISING

MASKS

The pick of the foreign and domestic markets including the very latest novelty styles. There is a better-than-usual profit for you in these goods.

AMERICAN GAUZE MASK ASSORTMENTS

Natural tinted features, finished edges

F2157–12 styles, various comic, public characters, wrinkled, comics and natives. Assid. 1 doz. in box . . . . . Doz **39c**
(Total 78c)

F2181–12 styles, ¾ size, real hair, natural tinted features, finished edges, assid. men and women, either wig or mustache. Assid. 2 doz. in box . . . . . Doz. **42c**
(Total 84c)

IMPORTED PAPER MASK

F5301–Unvarnished Chinamen, negro types, Hooligan wig. Assid. 5 doz. in pkg. . . . . Doz **40c**
(Total $1.20)

SANTA CLAUS GAUZE MASKS

F2188 F2189

F2188–Light weight gauze, good forehead, painted features, flax beard and mustache, 1 doz. in box . . . . . Doz. **79c**

F2189–Gauze, painted features and eyebrows, red cotton hood, flax beard. ½ doz. in box. Doz **$2.10**

F2195 F2192

F2195–Waxed gauze, well tinted cheeks, painted features, white wool eyebrows and mustache extra long full white wool beard, white flannel round red sateen hood. ½ doz. in box Doz **$4.25**

F2192–Waxed gauze, well tinted cheeks painted eyes and mouth, white wool eyebrows, hair, mustache, extra long full beard, white round red sateen hood. 1 doz. in box. . . . . Doz **$8.00**

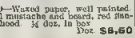
IMPORTED SANTA CLAUS PAPER MASKS

F7914–Varnished paper, painted features, wool beard, and mustache. 1 doz. in box. Doz. **$1.25**

F8915–Waxed paper, painted features, wool cotton beard and mustache, red linen hood. ½ doz. in box . . . . . Doz. **$4.50**

F5800–Waxed paper, well painted wool mustache and beard, red sateen hood. ¼ doz. in box Doz **$8.50**

MASK FASTENER



F2206–Patent elastic. 100 in box. Per 100, **55c**

SATEEN CURTAIN MASKS

Square curtain, scalloped edges. 1 doz. tied in cellophane.

F2173 White
F2174 Red
F2176 Assid colors
F2177 Black
} Doz. **77c**

CAMBRIC CURTAIN MASKS

Cambric with pinked edges. 1 doz. tied in env.

F2207–Black
F2208–White
F3209–Pink
F2215–Green
F2218–Assid colors.
} Doz. **39c**

DOMINO MASKS

Mercerized—1 doz. in pkg

F2193–Black
F2194–White
F2195–Red
F2223–Assid colors
} Doz. **37c**

Satin—1 doz. in pkg

F2224–Assid colors Doz. **80c**

CARNIVAL HAT ASSTS.

F3774–5 styles, full sizes, assid. red, white & blue crepe paper striped, bows and rosettes, fields burst. Assid. 2 doz. in pkg. Gro. **$4.20** Doz. **37c**

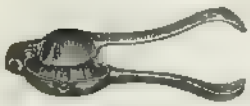
F3775–6 styles, full sizes, assid color crepe paper rosettes, all with heavy assid color horns outside. 5 doz. in box . . . . . Grs. **$4.50** Doz. **40c**

Do you know how to put pressure on profit payers? See page 431.

LEMON SQUEEZERS

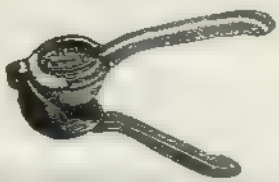
No. 5—Boss, malleable iron, white nickeled lipped cup, length 8 in., w't per doz. 10 lbs. ....per dozen $3.00

HALF DOZEN IN A BOX



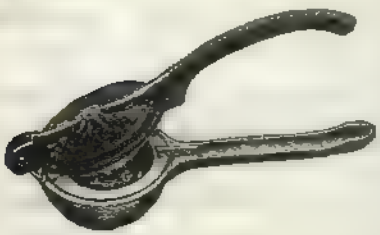
No. 15—Improved Boss, malleable iron, white nickeled, ribbed bowl and cone, lipped cup, length 9 in., w't per doz. 12 lbs., per dozen $3.50

HALF DOZEN IN A BOX



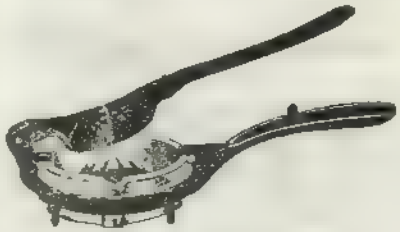
No. 50—Malleable iron, nickel plated, hardwood ball plunger, lipped cup length 8 in., w't per doz. 12½ lbs., per dozen $4.50

HALF DOZEN IN A BOX



No. 100—Japanned iron frame, porcelain bowl resting on rubber ring, hardwood ball plunger, length 9 in., w't per doz. 18 lbs., per dozen $7.00

LEMON SQUEEZERS



Japanned iron frame large lipped cup with ribbed cone, length 9¼ in.

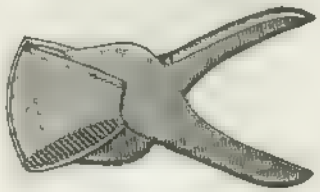
No. 14—Glass cup..per dozen $7.00

No. 140—Aluminum cup, per dozen $7.50

Cup is easily removed and can be used separately as a juice extractor.

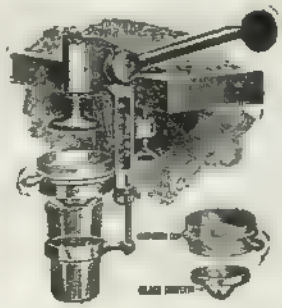
W'T PER DOZEN 20 LBS.

LIME SQUEEZERS



No. 16—Solid cast aluminum, highly polished, the strainer is cast solid with one of the jaws, length 7 in., opening of jaw 2½ in., w't per doz. 10 lbs. .....per dozen $24.00

ABOVE ONE IN A BOX



No. 43—Rotary, Nickel plated, highly polished, cast aluminum crusher head and cup, glass juice conveyor, adjustable glass support, w't per doz. 103 lbs. ....per dozen $114.00

ONE IN A BOX

LEMON JUICERS

Extracts all juice and separates seeds and pulp.

No. 3—Glass, saucer pattern, diameter 4¾ in., w't per doz. 7 lbs., per dozen $2.00

ONE DOZEN IN A BOX

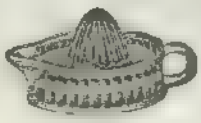
No. 1—Clear glass, ribbed cone, strainer base, diam. 3¾ in., for use on tumbler, w't per doz. 4 lbs. per dozen $1.70

ONE DOZEN IN A BOX

No. 2—Clear glass, ribbed cone, deep saucer, diam. 5½ in., w't per doz. 10 lbs. .....per dozen $3.00

HALF DOZEN IN A BOX

ORANGE JUICE EXTRACTORS



The best way to make orange juice, and the best way to eat the orange.

No. 4—6 in. wide base, heavy glass, large lip, deep basin, w't per doz. 18 lbs. .....per dozen $3.30

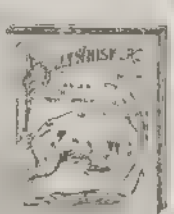
THREE DOZEN IN A CARTON

JUVENILE CLASSICS

PETER RABBIT SERIES

T8253 — Assorted 6 kinds. Peter Rabbit and his Pa, Peter Rabbit and his Ma, Peter Rabbit goes to School, etc.; 60 pages and cover; nicely illustrated 12 pages in colors; cover in colors; size 6½x7¾ in. 1 dozen in package. Each .32

BILLY WHISKERS



T8250 — A popular edition of this well known story by Frances Trego Montgomery, depicting the mischievous antics of a billy goat, large type good paper nicely illustrated bound in boards cover in colors, 158 pages, size 6¼x7½ ins. Each .30

PETER RABBIT SERIES

T8252—An extra fine edition, printed from clear, large type, and bound in cloth; 64 pages, 24 of which are illustrations in full colors; multi-color front cover inlay; color jacket; size 6x7¼ ins. Each. .33

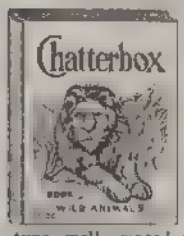
TITLES

1 Peter Rabbit.
2 Little Black Sambo.
3 Little Small Red Hen
4 Cinderella
5 Three Little Pigs
6 Chicken Little
7 The Selfish Fox
8 The Three Bears

MOTHER GOOSE RHYMES

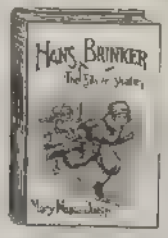
T8244 — The book contains 160 pages, finely illustrated and all the Mother Goose Rhymes, cloth covers stamped in colors; size 7x9 ins.; ¼ doz. in pkg. Each .... .37

CHATTERBOX SERIES



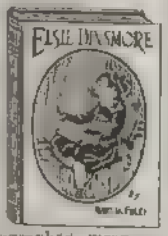
T8218 — Assorted 4 kinds, Chatterbox Circus, Wild West, Wild Animals and Soldiers and Sailors; 300 pages, half of which are full page illustrations, good type, well printed and bound, picture cover in full colors; size 7¾x9¾ in.; 1/3 dozen asst. in pkge. Each .38

HANS BRINKER



T8320—A story dealing with Dutch localities, their general characters, customs, etc., by Mary Mapes Dodge; cloth bound, 12 mo., with frontespiece and colored jacket; 472 pages. 42

ELSIE DINSMORE



T8309—A beautiful edition of this popular [illegible] titles, [illegible] at Home, Elsie's Vacation, and Elsie Dinsmore; printed on good stock, from clear new plates; stamped cover with lithographed wrapper; 12 mo, 296 pages. Each... 42

STANDARD LIBRARY

T8247—Assorted 12 kinds Little Lame Prince, Boys of Dickens, Robinson Crusoe, Aesop's Fables, Swiss Family Robinson, Alice in Wonderland etc.; containing on an average of 164 pages with numerous full page illustrations; covers lithographed in full colors; size 7x9½ inches. Each 35

FAVORITE NURSERY STORIES

T8248—Assorted 4 kinds, My Favorite Nursery Stories, My Favorite Circus Book, My Favorite Fairy Book, etc.; 36 pages, 12 pages in full colors, others nicely illustrated in colors; good stock, lithographed board cover, with lithographed wrapper; size 10x12½ ins Each 60

MOTHER GOOSE (Complete)

T8215 — 320 pages four of which are in full colors, others in black and white with three hundred and thirty illustrations; clear type, well printed on good quality paper; size 7x9½ in. Each ..... .75

We are showing a very attractive and artistic line of Holiday Post Cards, seals, stickers, etc., in printed, engraved and embossed designs to sell at popular prices

THE FUN BOOK

T8135—Miniature blackboards bound in book form; lithographed slate design cover and 20 7¾x9¼ in. blackboard sides, each with various objects for the child to draw with white chalk and colored crayons; ½ dozen in pkge. Each..... 43

GRIMM'S FAIRY TALES

T8256—A complete collection of Grimm Stories including Tom Thumb, The Sleeping Beauty, Snow White and Rose Red, etc., more than 40 tales in all; beautifully illustrated in colors and black and white; 320 pages; cloth bound; size 6½x8¾ ins. Each.....1.10

FAVORITE FAIRY TALES

T8257 — Fairy Tales that children love best, Puss in Boots, Jack and the Bean Stalk, Beauty and the Beast, Blue Beard, etc.; 264 pages, 150 illustrations; 4 colored pages; bound in cloth; size 6½x8⅝ ins Each 1.10

COMIC STORY BOOKS

T8267—Assorted 4 kinds, Hawkshaw, the Detective, Lady Bountiful, Hans and Fritz, and Nippy's Pop, 24 pages and cover; cover in full colors; size 10x14 ins.; 1 doz. in pkg. Dozen.....1.15

T8269 — Very popular; comic cartoons in colors by Bunny; board covers with colored designs, cloth backs; 24 sheets, album style, 15½x9½ ins.; 4 titles

Foxy Grandpa's Latest Larks
Foxy Grandpa's Latest Adventures
Foxy Grandpa's Flip Flaps.
Foxy Grandpa's Merry Pranks.

Each .....

T8268—Charlie Chaplin's Funny Stunts; 20 pages with cover all in full colors, showing many of the best antics of this comical star; size 12½x16¾ ins.; 1 dozen in pkge. Each..... .22

SHAPED BOOKS

T8258—Assorted 4 kinds, Mother Goose Rhymes, Three Bears, Night Before Christmas, and Little Bo Peep; 16 pages with cover; cover in full colors; size 3½x5½ ins., 1 dozen in pkge. Dozen .... .42

PUZZLE PICTURE BOOKS

T8274—Young Folks Puzzle Picture series, each page contains picture, with verse applying to same, and suggesting some hidden object, which when found solves the puzzle, 80 pages; bound in full cloth; size 6½x8½ ins. Each..... 80

TITLES

1. Mother Goose Puzzle Pictures
2. The Tale of Peter Rabbit
3. Animal Tales.
4. Night Before Christmas.
5. Dog, Cat and Other Tales

T8121-A series of comical pictures with numbered dots, by starting at 1 and following the numbers with pencil, a figure is developed, complete to the rhyme at the bottom of each picture; 36 leaves; full cloth; size 6⅛x8½ ins. Each..... .30

TITLES

1. Puffle's Picture Puzzles
2. Piffle's Dot Puzzles
3. Puffle's Funny Puzzles
4. Willie Winkle's Picture Puzzles
5. Billy Spot's Puzzle Dots
6. Little Dots for Little Tots

LINEN TOY BOOKS

Printed in clear, distinct bright colors on good flexible stock; front and back full color designs

MERRY ALPHABET SERIES

T8103 — Assorted 4 kinds, Little Mother Goose, Little Tots Hour, Baby Tune Rhymes and Nursery Jingles; 8 pages with cover, 4 in full colors; size 4¼x5½ ins., 1 dozen in pkg. Doz. .95

PICTURE A B C SERIES

T8199 Assorted 3 kinds, Picture A B C, Animal A B C, and Mother Goose A B C; 8 pages with cover, 4 in. full covers; size 5¾x8¾ ins.; 1 dozen in pkge. Doz. .85

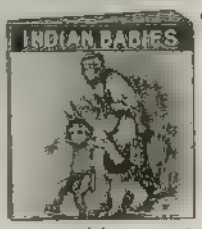
POPULAR SERIES

T8197 — Assorted 8 kinds, Toy Store A B C, Dolly's A B C, This Little Pig, Owl and Pussy Cat, Railroad, Four Footed Friends, etc.; 8 pages with cover 2 in full colors, with colored cover; size 5x8 ins.; 1 dozen in pkge. Dozen.... .88

LITTLE KITTEN SERIES

T8204 — Assorted 4 kinds, Little Lame Squirrel, Christmas A B C, Ten Little Tin Soldiers, Three Little Kittens 8 pages with cover; 4 in full colors; size 6¾x 13¼ ins.; 1 dozen in package Dozen 2.00

BIG PICTURE SERIES



T8205 — Assorted 6 kinds, Railroad Fire Engine Big Animal Picture, Indian Babies, Faithful Friends and Animal Cutes; 12 pages with cover, 4 full pages in colors, with lithographed colored cover, size 10¾x11 ins.; 1 dozen in package. Dozen.....4.25

RAG TOY BOOKS

Printed in full colors on double page cloth, sewed.

T8206 — Assorted 4 kinds, Home Objects, Object Lessons, Baby's Book, and Object Primer; 6 double pages, sewed; all printed in full colors; size 2¾ x4 ins.; 1 dozen in package Dozen .83

T8207 — Assorted 4 kinds, Pets and Toys, Little Tots Rhymes, Tiny Pets, and Tiny Mother Goose; 8 double pages, sewed; all in full colors; size 4x5¾ in.; 1 dozen in pkge. Doz .72

T8209 — Assorted 4 kinds, Old Time Jingles, Simple Simon Rhymes or Baby, and Good Pets sewed 8 double pages all in full colors size 4x7 ins. 1 dozen in package. Dozen 1.25

BOARD COVERED JUVENILES

Lithographed, colored, varnished, stiff board covers.

HAPPY HOUR SERIES

T8216 Assorted 9 kinds, Happy Hours, Jolly Friends, Red Riding Hood, Three Bears, Three Little Pigs, Apple Pie A B C, etc., 32 pages and cover, nicely illustrated with full color cover; size 6⅞x9¾ ins.; 1 dozen in pkge. Doz . .80

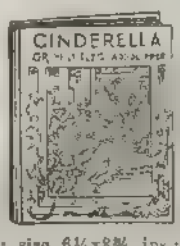
JOLLY STORY SERIES

T8222 — Assorted 12 kinds, Children's A, B, C, Benny Brown, Bedtime Book, Mother Goose Melodies, Tale of Peter Rabbit, Three Bears, Night Before Christmas, Little Brown Squirrel, etc.; 32 pages and cover; nicely illustrated; 6 pages in colors; size 6⅞x7¾ ins.; 1 dozen in package. Dozen. 1.10

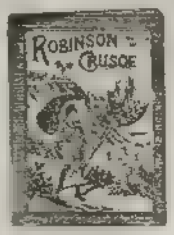
FAIRY LAND SERIES

T8221 Assorted 12 kinds, Jolly Santa Claus, Easter Tales, Fairy Land, Jolly Comrades, Hoofs and Claws, Furry Friends, Bed Time Stories, etc., 38 pages and cover; profusely illustrated; full color lithographed varnished cover; cloth bound; size 7⅛ x9¼ ins.; 1 dozen in package Dozen. 2.15

T8225 Assorted, 5 kinds, Three Bears, Cinderella, Little Red Riding Hood, Three Kittens and Robinson Crusoe; 48 pages and cover, nicely illustrated; full color litho graphed cover; size 6¼x8¾ ins.; 1 dozen in pkge. Dozen.... 2.15

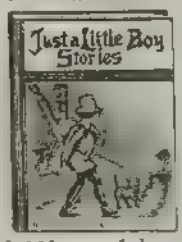


LITTLE FOLK'S SERIES



T8224 Assorted 4 kinds, Robinson Crusoe, Anderson's Fairy Tales, Arabian Nights and Grimm's Fairy Tales; 12 pages and cover, 4 full page color illustrations lithographed full color cover size 7¾x 10¾ ins., 1 dozen in package. Doz 2.15

BOY AND GIRL SERIES



T8240 Assorted 4 kinds, Once Upon a Time Fairy Tales, Children's Animal Story Book, Just a Little Boy Stories, and Just a Little Girl Stories, 48 pages and cover; size 8x10⅝ ins.; 1 dozen in package Dozen.....2.15

MAMMOTH SERIES

T8232 Assorted 6 kinds, Mammoth Story Book, Christmas Cheer, Winter Tales, Golden Heart, Children's Treasures and Children's Delights, 96 pages, nicely printed and illustrated; size 7½x9¾ ins.; ½ doz. in pkge. Dozen . 2.15

POPULAR MOTHER GOOSE

T8237 — One of the best editions of Mother Goose Stories ever compiled; 128 pages, printed from good clear type, profusely illustrated, many being full page pictures; well bound with picture cover in bright colors; size 7½x9¾ in.; 1 dozen in pkge. Dozen 2.15

CHATTERBOX SERIES

T8233 — Assorted 4 kinds, Chatterbox Book of Stories, Picture Book, Cats and Dogs, Book of Birds; 96 pages, many full page illustrations; nicely printed in good type with fine illustrations; picture cover in colors; size 7¾x9¾ ins.; 1 dozen asst. in pkge. Dozen . 2.15

POPULAR MOTHER GOOSE

T8235 A collection of Nursery Tales, Rhymes and Jingles of Mother Goose, Little Boy Blue, Jack Spratt, Jack Be Nimble, Ten Little Niggers, Little Tom Tucker, etc.; good paper, well printed; 128 pages with 220 illustrations; lithographed cover in full colors; size 7½x9¾ ins.; 1 dozen in package. Dozen.....2.15

CHIMNEY CORNER SERIES

T8223 — Assorted 7 kinds, Nursery Songs, Tale that Kitty Told, My Dobbin, Mother Goose Nursery Rhymes, When I Grow Up, etc.; 32 pages and cover; 4 full page color pictures; lithographed colored cover size 8⅝x10¼ ins; 1 dozen in package. Dozen. 2.25

COZY HOUR SERIES

T8236— Assorted 5 kinds, Cinderella, Pied Piper of Hamelin Grimm's Fairy Tales, Anderson's Fairy Tales, and Little Red Riding Hood; 80 pages and cover; 5 full page color illustrations; cloth backs, full color cover and jacket; size 5x6¼ ins., 1 dozen in package. Dozen.. 2.25

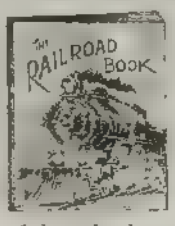
XMAS STOCKING SERIES

T8231 Assorted 3 kinds, Sunshine Stories, Christmas Holiday Stories, and Our Little Darling's Story Book; 48 pages, nicely illustrated with many full page pictures; size 8½ x10¼ ins.; 1 doz in pkge. Dozen . . 2.25

BEAUTY SERIES

T8238 — Assorted 6 kinds, Little Lame Prince, Alice in Wonderland, Black Beauty, Treasure Island Stories from Grimm and Robinson Crusoe; 160 page, profusely illustrated, cover in colors; size 7x 9½ ins.; ½ dozen in pkge. Dozen 4.00

RAILROAD TOY BOOKS



T8228 — New Railroad book, showing types of engines used in all parts of the world; with 12 pages of stations, yards, bridges etc.; 12 full colors; size 9¾x12¼ ins.; 1 dozen in pkge Dozen.....3.90

SELECT SERIES

T8227 —Assorted 6 kinds; Nursery Rhymes, Kindergarten First Book; Four Footed Friends, Night Before Christmas and Big Animal Book; 12 pages and cover, all full lithographin colors; picture cover in bright colors; size 9¾x12¼ in.; 1 doz. asst. in pkge. Dozen.....4.00

COAL OIL LAMPS AND FOUNTS

CENTER DRAUGHT

No. 14M

No. 1169B

Brass, Nickel Plated, with adjustable Tripod, No. 2 Screw Thread Burner; complete with Chimney, Wick and 10-inch Plain Opal Shade. Burns 6 hours one filling, large white light. Oil capacity 1½ quarts.

NO.	Wt. Doz.	DOZEN
14M	48 lb.	$75.00
Extra	Shades	12.00
Extra	Chimneys	5 00
Extra	Wicks	Gross 9 00

Embossed Brass Fount, One Gallon capacity, No. 3 Rochester Wick and Chimney, 20-inch Tin Reflector.

NO.	Finish	Wt. Each	EACH
1169B	Brass	7 lb.	$7 00
1167N	Nickel Plated	7 lb.	8.00

WALL

No. 30

SWINGING BRACKET

No. 15

Wall Lamps

Lacquered Tin Fount, Outside Filler, Bright Tin Hood Reflector, No. 2 Burner, Wick and Chimney.

NO.	Wt. Doz.	DOZEN
30	30 lb.	$6.00

Swinging Bracket Lamps

Cast Iron Bracket, French Bronze Finish, Glass Fount with Outside Filler, 8-inch Silvered Glass Reflector, No. 2 Burner and Chimney.

NO.	Wick	Wt. Doz	DOZEN
15	1 in.	46 lb.	$10.00

FOUNTS

No. 9943B

No. 9943CS

Without Burners, Wicks or Chimneys

Stand

NO.	Height	Capacity	Collar	Wt. Doz.	DOZEN
9943B	9¾ in.	¾ qt.	2	42 lb.	$4 80
9943C	10½ in.	1 qt.	2	48 lb.	6.00

Sewing

NO.	Height	Capacity	Collar	Wt. Doz.	DOZEN
9943CS	8½ in.	1 qt.	2	42 lb.	6 00

Footed Hand

NO.	Height	Capacity	Collar	Wt. Doz.	DOZEN
9943FH	6⅝ in.	1 pt.	1	25 lb.	$4.00

Low Hand

NO.	Height	Capacity	Collar	Wt Doz.	DOZEN
9943LH	4 in.	1 pt.	1	30 lb.	$4.00

LAMP CHIMNEYS AND WICKS

LAMP CHIMNEYS

No. 1R

No. 2E

No. 2ES

Rochester—Tall

Extra quality lime glass—in cartons

NO.	Bottom	Height	Wt. Dozen	DOZEN
1R	2 in.	8 in.	5½ lb.	$1.60
2R	2½ in.	10 in.	6½ lb.	1.85
3R	4 in.	12 in.	15 lb.	4.00

Electric—Tall

Extra quality lead flint glass—in cartons

NO.	Bottom	Height	Wt. Dozen	DOZEN
2E	3 in.	10 in.	8½ lb.	$2.00
2ES	3 in.	10 in.	7½ lb.	2.00

NO 3E, TWO DOZEN IN CASE; BALANCE, SIX DOZEN IN CASE

No. 0SC

No. 01SC

No. 502

Sun—Crimp

Lime glass—in corrugated tubes

NO.	Bottom	Height	Wt. Dozen	DOZEN
0SC	2 in.	7 in.	5 lb.	$0.75
1SC	2½ in.	7½ in.	6½ lb.	1.20
2SC	3 in.	8½ in.	8 lb.	1.50

Extra Sun—Crimp

Extra quality lime glass—in cartons

NO.	Bottom	Height	Wt. Dozen	DOZEN
01SC	2½ in.	7½ in.	6½ lb.	$1.20
02SC	3 in.	8½ in.	8 lb.	2.40

Pearl Top—Crimp

Macbeth's genuine pearl top, first quality lead flint glass—in cartons

NO.	Bottom	Height	Wt. Dozen	DOZEN
502	2½ in.	7½ in.	6½ lb.	$1.80
504	3 in.	8½ in.	8 lb.	2.40

LAMP WICKS

Circular—Rochester Lamp

For Rochester and similar central draught lamps
Width is flat measurement of wick

NO.	Width	Length	Wt. Gross	GROSS
1	1⅞ in.	6½ in.	4½ lb.	$6 00
2	2½ in.	6½ in.	5½ lb.	7.20
3	4⅜ in.	8½ in.	9 lb.	26 00

Circular—Rayo

NO.	Width	Length	Wt. Gross	GROSS
Rayo	2¼ in.	6½ in.	5½ lb.	$7.20

ONE DOZEN IN A PACKAGE

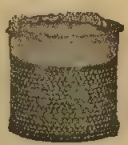
Circular—Royal

NO.	GROSS
Royal Fits Magnet Lamp	7 20

ASBESTOS RINGS

	DOZEN
Auto-Feed Asbestos Rings	$2.40

CIRCULAR



Blue Bird

Kerogas

Made to give perfect satisfaction. Complete with carrier
For use with all Dangler stoves

NO.	Width	Length	Wt. Dozen	DOZEN
018	3½ in.	3¾ in.	3 lb.	$6.00

For Perfection Heaters.

NO		DOZEN
P	(Without Carrier)	$4.00
PC	(With Carrier)	6.00

ELGIN

For Elgin Heaters.

NO.	DOZEN
E	$4.00

KEROGAS

Fit all stoves using Kerogas burners.

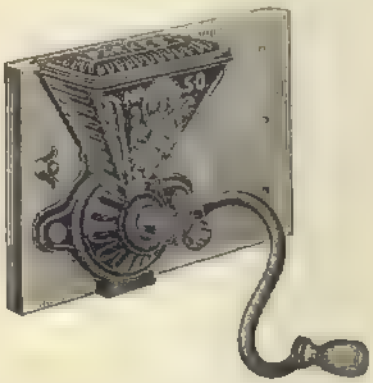
NO.	Diam.	DOZEN
019	3¼ in.	$6.20

COFFEE MILLS

For wall, wood back; copper plated hopper with hinged cover, grinders regulated by lock nut adjustment; crimson stained wood back.

No. 5. Weight per dozen 29 pounds.....per dozen, **$6.00**

One dozen in a case



Eagle for wall, wood back with black enameled stamped steel hopper, with hinged cover, cast iron body; black enameled chilled grinders; mounted on varnished hardwood board, size 6x8 inches; cast crank with wood handle, front adjusting screw.

No. 50. Weight per dozen 40 pounds.....per dozen, **$12.00**

One half dozen in a case

High box, sunk hopper, side handle; capacity 1 pound; with chilled iron grinders; set screw adjustment on crank to grind from very fine to coarse; poplar dovetailed box, wood bottom drawer with rounded tin sides; thread cap on canister box finely varnished; metal parts brown enamel finish; size of box 7⅝ inches high, 6⅝ inches wide.

No. 1080. Weight per dozen 40 pounds.....per dozen, **$12.00**

One half dozen in a case

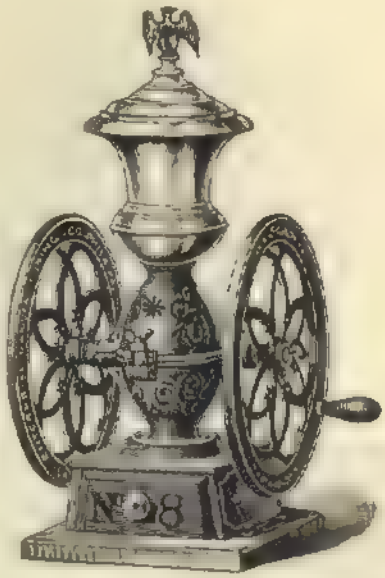
COFFEE MILLS

ENTERPRISE

Cast iron hopper, body and fly wheels painted red; wood drawer and base, natural finish, varnished; for grinding and pulverizing.

Nos.	3	5
Each	$13.00	18.00
Capacity per minute, pounds	½	¾
Height, inches	15	17
Fly wheels, diameter, inches	10¼	12½
Weight, pounds	22½	36

No. 3 three No. 5 one in a case



Nickel plated hopper with cover, cast iron body and fly wheels painted red; hardwood base, natural finish, varnished; for grinding and pulverizing

No.	8
Each	$38.50
Capacity per minute, pounds	2¼
Height, inches	27
Wheels, diameter, inches	17
Weight, pounds	59

One in a crate

BUCKEYE STANDARD INCUBATORS

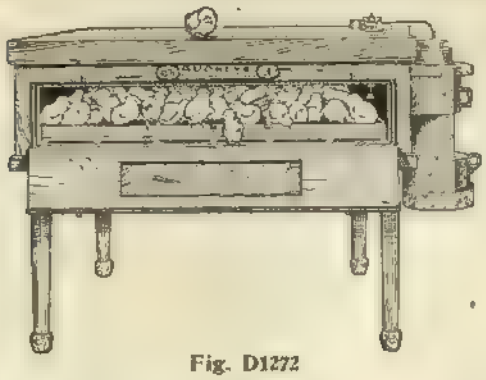


Fig. D1272

Constructed throughout the same as Nos. 1 and 2; with one large door and one small door in center; each door has small window protected by two lights of glass and trimmed with brass butts and spring catches; with oil heater.

No. 3. Capacity 250 hen eggs or 200 duck eggs; size of case 36⅛ x 36⅜ x 11⅞ inches; weight crated 170 pounds .....each, **$65.00**

NOTE—Buckeye Standard Incubators are equipped to burn artificial or natural gas, by substituting gas heater for the oil heater; incubators with oil heater will be sent unless otherwise specified

STANDARD COLONY BROODERS

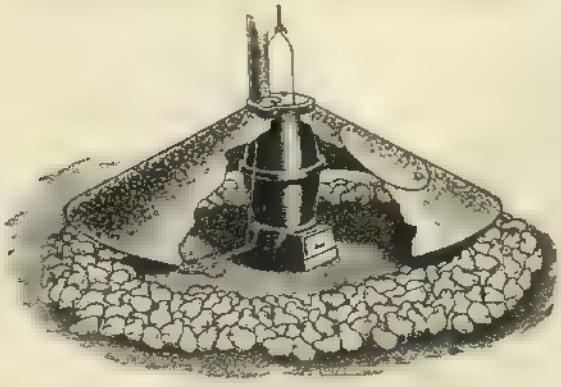


Fig. D1274

For Coal or Gas

Consists of galvanized sheet steel hover, with rope and pulleys, stove, pipe, thermostat regulator. The stove is of solid gray iron casting throughout, is self feeding and self regulating; burns hard or soft coal, artificial or natural gas; grates for coal are rocker furnace type, self cleaning and anti-clog; check valve is hung on knife bearings, opening outward and producing inward suction from outside atmosphere pressure; regulator consists of two double disc thermostats, tandem hitched; supported on substantial casting bolted to stove; low arm is movable and attached to check valve by iron rod, is chick proof, accurate and positive. Hover is mounted on ring casting that rests on top of stove, moulded to fit

Nos.	18	19
Stove height, inches	20¾	22½
Stove diameter, inches	10¾	12
Base, inches	11½	11½
Hover, diameter, inches	42	52
Capacity, chicks	500 or less	1000 or less
Weight, pounds	74	94
Each	$25.50	31.50

BUCKEYE STANDARD INCUBATORS

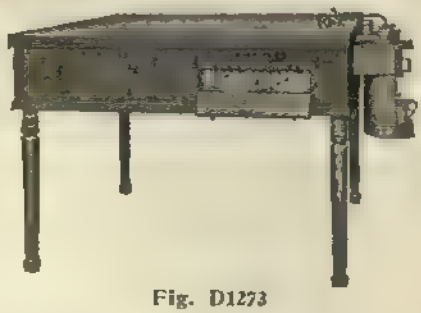


Fig. D1273

Constructed throughout the same as Nos. 1, 2 and 3, with double doors on front and back; each door has small window protected by two lights of glass, small door in center of each larger door. All doors trimmed with brass butts and spring catches. Has four egg trays, each tray holding 150 eggs. With oil heater

No. 5. Mammoth. Capacity 600 hen eggs or 480 duck eggs. Outside dimensions 54 x 54 inches, 36 inches high. Size of case 52⅞ x 52⅞ x 11⅞ inches. Weight crated 314 pounds .....each, **$120.00**

NOTE—Buckeye Standard Incubators are equipped to burn artificial or natural gas, by substituting gas heater for the oil heater; incubators with oil heater will be sent unless otherwise specified.

BUCKEYE PORTABLE BROODERS

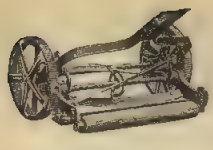
Fig. D1275

For Kerosene Oil

Outside shell of brooder made of 28 gauge galvanized sheet steel; inner shell 28 gauge black sheet iron with one inch dead air space between. Supported by three cast iron legs. Curtain attached to body. Lamp bowl of seamless galvanized sheet steel fitted with Miller burner. Fittings of brass, chimney of black iron. Thermometer is mounted on hardwood turning which is dropped through top of brooder and brings the bulb of instrument down on level with chicks. Door in lamp chamber has large peep hole for observation of the lamp.

Nos.	21	22
Diameter, inches	22	30
Capacity, chicks	100	150
Weight, pounds	23	63
Each	$17.00	21.50

LAWN MOWERS AND TRIMMERS



No. P491A—RIVAL

Plain Bearings; Crucible Steel Blades; Terrace Cutting Attachment for Handle, 8 in. Open Type Wheels; Fitted with Revolving Cutter so grass cannot wrap around Shaft between Cutter and Frame. Cutter, 5½ in. Diam.; Three Cutting Blades, High Speed; Silent in operation; Continuous Cut, Accurate and easy Steel Belt Adjustment; Will cut grass standing 5 to 6 in.; Adjustable to cut grass from ½ to 1½ in.; Well Finished in Green and Gold.

Width Cut, In.	14	16	18
Weight Boxed, Lbs.	38	41	43
Each	$10.50	11 00	15.50

One in Box

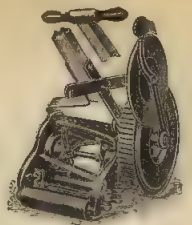
ELECTRIC LAWN TRIMMERS

For Trimming around Trees, Shrubbery, Walks, Walls, Hedges and places which cannot be reached by an ordinary Lawn Mower; Much easier and quicker than Grass Shears; Will clip grass of any height and all ordinary growths of weeds.

Each

No. P491B—Cut a Swath 5 in. Wide; Cutter Bar has Five Sets of Shears which cut with both the Opening and Closing of Blades; Blades are Self-Sharpening and are Adjustable by Set Screw.....$6.00

Weight 20 Lbs. Each



CAPITOL LAWN TRIMMERS

For Trimming and Edging parts of lawn which Mower cannot reach; Edges lawn and trims around Trees, Fences, Walls, etc.; Has Four Crucible Steel Blades, 6 in. Long, Hardened and Tempered in Oil; Hardwood Roller; Strongly made and Nicely Polished and Finished.

Each

No. P491C—Complete with Edger.....$21.00

No. P491D—Without Edger..... 19.50

Weight 30 Lbs Each

PONY LAWN MOWERS

RICHMOND GOLF

With Pony Attachment; Designed to mow large areas such as Golf Links, Public Parks, Cemeteries and large Lawns; Has Extra Bracing of Handle and Draft Attachment, together with Extra Heavy Shaft and Heavy Ball Bearings. The Lower Straight Blade is of the Laid Steel Pattern, very thick; Guaranteed the very best Blade in use; Mower can be used by one man, in ordinary grass; the Draft Attachment can be removed without trouble.

This Machine fills the bill exactly for a light running and durable, low priced Pony Mower, cutting a wide swath; Suitable for large lawns, with much shrubbery; Cuts within ⅜ in. of the ground; Very desirable where the expensive, extremely heavy, Roller Mower is not wanted.

Each

+No. F491E—Ball Bearing; Width of Cut 31 in.; Height of Drive Wheels 11 in., Diam. of Cutter 7 in ; Four Blade High Grass Reel....$74.00

One in Crate; Weight 80 Lbs.

+For Factory Shipment Only, F. O. B. Richmond, Ind.

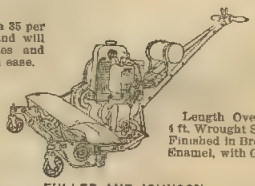
MOTOR LAWN MOWERS

COLDWELL COMBINATION ROLLER AND MOTOR

Does the work of four or five men, saving many times their cost in labor. They are simple in construction and easily handled. The operator simply guides the Mower. Negotiates any grade you would cut with a Lawn Mower. Capacity six to eight acres per day. Reliable Four Cycle Water Cooled Gas Engine, Two Horse Power.

Nos.	P491H	P491K
Model	H	G
Cut, In.	30	26
Weight, Lbs	850	950
Each	$850.00	950.00

Will climb a 35 per cent grade, and will handle Ditches and Terraces with ease.



Length Over-all 6¼ ft.; 4 ft. Wrought Steel Handle; Finished in Brewster Green Enamel, with Gold Striping.

FULLER AND JOHNSON

Combines Large Cutting Capacity with the Extreme Flexibility of the Hand Mower; Will do a beautifully finished job at one cutting, going around Trees, Shrubbery and anywhere a Hand Mower will go, and will cut 5 acres per day

Power from Motor is transmitted separately to Cutting Knives and to Traction Roller; Either can be thrown out of Gear instantly, or the Full Power of Motor can be given either.

Has a Reliable Four Cycle, 3½ H. P. Water Cooled Engine, requiring about one gallon of Gasoline per day.

Each

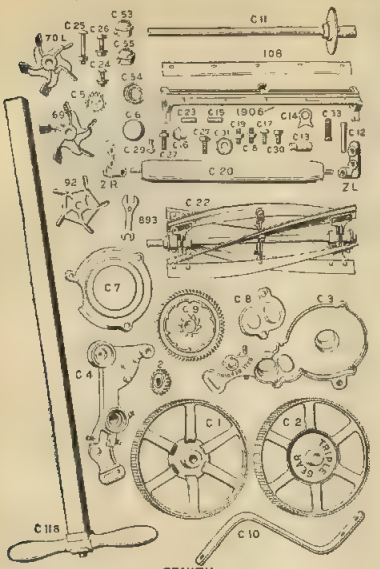
+No. F491M—Width of Cut 26 in.; Net Weight 240 Lbs.....$590.00

Shipping Weight 290 Lbs., Crated

+For Factory Shipment Only, F. O. B. Newburgh, N. Y.

LAWN MOWER PARTS

Note—When Ordering Lawn Mower Parts, always give Name and Size of Mower, Name and Number of Part



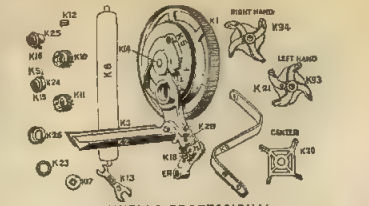
ZENITH

No.	Each
C1—Wheel, Left Hand	$4.05
C2—Wheel, Right Hand	4.05
2—Intermediate Gear	1 35
C3—Side Plate, Left Hand	8.10
C4—Side Plate, Right Hand	6.75
C5—Pinion	1 08
C6—Washer for Ball-Bearing Cup	.12
C7—Outside Cap for Master Gear	2.02
C8—Shield	1.08
C9—Master Gear	2.70
C10—Handle Irons—	
14 in	1.08
16 in	1 35
18 in	1 62
20 in	1 89
C11—Ratchet Plate and Shaft	4 05
C12—Pin for Ratchet Plate on Shaft	.64
C13—Shoulder Stud for No. 2 Gear	.81
C14—Ratchet	.27
C15—Wheel Shaft Pin	.12
C16—Cone for End of Knife Bar	.40
C17—Lower Blade Screw	.12
C18—Adjusting Screw and Nut for Ball Bearing Cup	.27
C19—Jamb Screw and Nut for Ball Bearing Cup	.27
C20—Wood Roller—	
14 in	1 62
16 in	1 89
18 in	2 16
20 in	2 43
C22—Reel Complete, with Five Knives—	
14 in	$13 50
16 in	14 85
20 in	17 55
C23—Pin for Pinion	.12
C24—Roller Bracket Bolt	.27
C25—Handle Iron Bolt	.40
C26—Bolt, Nut and Washer for End of Knife Bar	.40
C27—Cone Screw, Cup Point	.27
C28—Adjusting Srew for Center of Knife Bar	.27
C29—Rivet for Spider	.09
C30—Spider Set Screw	.27
C31—Wheel Washer	.12
C33—Adjusting Screw for Knife Bar	27
C62—Ball Retainer and Balls	66
C63—Cone for Reel, both alike	1 35
C64—Ball Bearing Cup	1.35
C65—Wheel Cones, both alike	1 35
68—R. H. Five Arm Spider	2.70
70—L. H. Five Arm Spider	2.70
92—Center Five Arm Spider	1.35
C108—Lower Blade—	
14 in	1.62
16 in	1 89
18 in	2.16
20 in	2.43
1905—Knife Bar—	
14 in	3 24
16 in	3.78
18 in	4 05
20 in	4.32
C118—Wood Handle	2 70
ZR—R. H. Roller Bracket	.40
ZL—L. H. Roller Bracket	.40
1893—Wrench	.27

ADJUSTABLE HANDLES

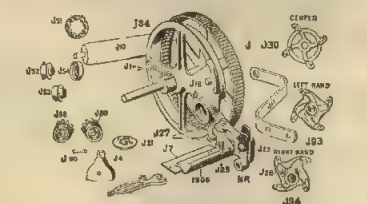
For Cutting Grass on Terraces

All of our Lawn Mowers are equipped with Hand Grips which can be swiveled in any position to make it easy to mow Grass on Terraces. Illustration shows Handle in favorite position for Terrace work and in this way Mower may be easily operated with one hand Cast Iron Clamps with Bolt holds Handle securely when tightened with Wrench



MARSWELLS PROFESSIONAL

No.	Each
K1—Drive Wheel, both alike	$2 70
ER—R. H. Roller Bracket	.40
EL—L. H. Roller Bracket	.40
K4—L. H. Side Plate	4 05
K5—R. H. Side Plate	4.05
K2—Straight Knife Bar—	
14 in	2 02
16 in	2 16
18 in	2 65
20 in	2.82
K3—Straight Knife—	
14 in	1.50
16 in	1 62
18 in	1.75
20 in	1 89
K8—Spiral Cutter, complete—	
14 in	13 50
16 in	16 20
18 in	17 55
20 in	18 90
K7—Spiral Cutter Blades, each	
14 in	1.50
16 in	1 62
18 in	1 75
20 in	1 89
K8—Wood Roller—	
14 in	1.50
16 in	1 73
18 in	2 02
20 in	2.16
K9—Handle Irons, both alike	
14 in	95
16 in	95
18 in	1 08
20 in	1 20
K10—L. H. Pinion	1.35
K11—R. H. Pinion	$1 35
K12—Double Ratchet Pin	.12
K13—Wrench	.27
K14—Drive Wheel Bolt	.27
K15—Pointed Screw for R. H. Cone	.21
K16—Cup-pointed Screw for L. H. Cone	.21
K17—Drive Wheel Washer	.12
K18—Roller Bracket Bolt	21
K19—Bolt for Handle Iron	.21
K20—Screw for Lower Blade	.12
K21—Set Screw for Spider	.27
K93—Left Hand Spider	1.35
K94—Right Hand Spider	1.35
K30—Center Spider	66
K22—Wood Handle complete	2.70
K23—Ball Retainer and Balls	.81
K24—Right Hand BB Cone	1 35
K25—Left Hand BB Cone	1 35
K26—Ball Bearing Cups	66
K27—Cone-pointed Headless Set Screw for end of Knife Bar	.27
K28—4x27/8 in. Screw for Adjusting	27
K29—Hex. Nut for Set Screw on end of Knife Bar	12
K31—Cone for end of Knife Bar	27
K32—Brass Eccentric for Knife Bar	.66
K33—Machine Screw for Eccentric	12
K34—Taper Pin for Cross Rod	12
K35—Thumb Nut for Adjusting	27

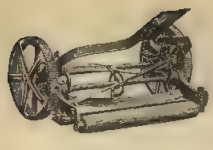


COUNTRY CLUB

No.	Each
J—Drive Wheel, both alike	$2 30
NR—Roller Bracket, right hand	.40
NL—Roller Bracket, left hand	.40
J34—R. H. Side Plate	4.05
J33—L. H. Side Plate	4.05
J4—Pinion Cap	54
J1906—Straight Knife Bar—	
14 in	2 02
16 in	2.30
18 in	2.55
20 in	2 82
J7—Straight Knife—	
14 in	1 50
16 in	1 62
18 in	1 75
20 in	1 89
J6—Spiral Cutter, complete—	
14 in	13 50
16 in	15 20
18 in	17 55
20 in	18 90
J9—Spiral Cutter Blades—	
14 in	1 50
16 in	1 62
18 in	1 75
20 in	1 89
J10—Wood Roller—	
14 in	1 75
16 in	1 89
18 in	2 02
20 in	2 16
J88—R. H. Pinion	1 08
J89—L. H. Pinion	1.08
J90—Double Ratchet Pins	12
J15—Wrench	12
J92—L. H. Spiral Cutter Spider	1 35
J94—R. H. Spiral Cutter Spider	1 35
J30—Center Spiral Cutter Spider	1 35
J18—Pinion Cap Bolt	27
J19—Cotter for end of Wheel Shaft	12
J21 Drive Wheel Washer	.12
J1—Set Screw for Side Plate	27
J23—Roller Bracket Bolt	21
J24—Bolt for Handle Iron	.21
J25—Bolt for Straight Knife Bar	.21
J28—Set Screw for Spider	27
J27—Adjusting Screws for Knife Bar	27
J50—Wood Handle, complete	2 70
J51—Ball Retainer and Balls	81
J52—Right Hand BB Cone	1 35
J53—Left Hand BB Cone	1 35
J54—Ball Bearing Cups	.66

Not Carried in Stock; For Shipment from Factory only. F. O. B. Richmond, Ind.

LAWN MOWERS AND TRIMMERS



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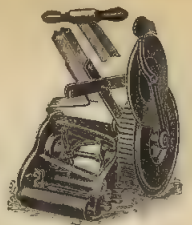
Weight 20 Lbs. Each



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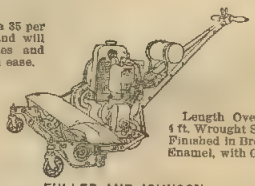
Model	H	G
Cut, In.	30	26
Weight, Lbs	850	950
Each	$850.00	950.00

Will climb a 35 per cent grade, and will handle Ditches and Terraces with ease.



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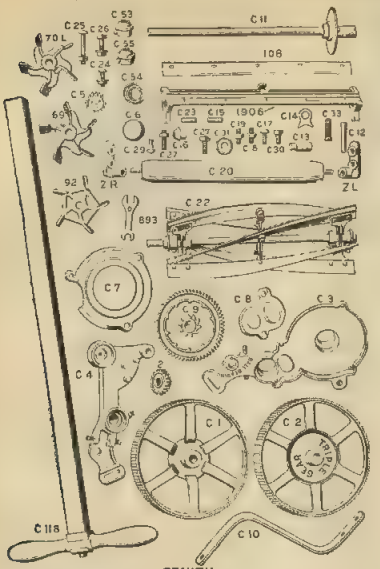

ZENITH

No.	Each
C1—Wheel, Left Hand	$4.05
C2—Wheel, Right Hand	4.05
2—Intermediate Gear	1 35
C3—Side Plate, Left Hand	8.10
C4—Side Plate, Right Hand	6.75
C5—Pinion	1 08
C6—Washer for Ball-Bearing Cup	.12
C7—Outside Cap for Master Gear	2.02
C8—Shield	1.08
C9—Master Gear	2.70
C10—Handle Irons—	
14 in	1.08
16 in	1 35
18 in	1 62
20 in	1 89
C11—Ratchet Plate and Shaft	4 05
C12—Pin for Ratchet Plate on Shaft	.64
C13—Shoulder Stud for No. 2 Gear	.81
C14—Ratchet	.27
C15—Wheel Shaft Pin	.12
C16—Cone for End of Knife Bar	.40
C17—Lower Blade Screw	.12
C18—Adjusting Screw and Nut for Ball Bearing Cup	.27
C19—Jamb Screw and Nut for Ball Bearing Cup	.27
C20—Wood Roller—	
14 in	1 62
16 in	1 89
18 in	2 16
20 in	2 43
C22—Reel Complete, with Five Knives—	
14 in	$13 50
16 in	14 85
20 in	17 55
C23—Pin for Pinion	.12
C24—Roller Bracket Bolt	.27
C25—Handle Iron Bolt	.40
C26—Bolt, Nut and Washer for End of Knife Bar	.40
C27—Cone Screw, Cup Point	.27
C28—Adjusting Srew for Center of Knife Bar	.27
C29—Rivet for Spider	.09
C30—Spider Set Screw	.27
C31—Wheel Washer	.12
C33—Adjusting Screw for Knife Bar	27
C62—Ball Retainer and Balls	66
C63—Cone for Reel, both alike	1 35
C64—Ball Bearing Cup	1.35
C65—Wheel Cones, both alike	1 35
68—R. H. Five Arm Spider	2.70
70—L. H. Five Arm Spider	2.70
92—Center Five Arm Spider	1.35
C108—Lower Blade—	
14 in	1.62
16 in	1 89
18 in	2.16
20 in	2.43
1905—Knife Bar—	
14 in	3 24
16 in	3.78
18 in	4 05
20 in	4.32
C118—Wood Handle	2 70
ZR—R. H. Roller Bracket	.40
ZL—L. H. Roller Bracket	.40
1893—Wrench	.27

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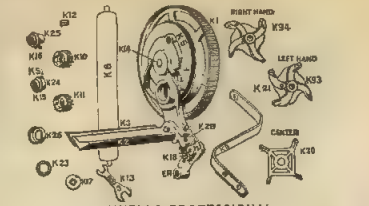

MARSWELLS PROFESSIONAL

No.	Each
K1—Drive Wheel, both alike	$2 70
ER—R. H. Roller Bracket	.40
EL—L. H. Roller Bracket	.40
K4—L. H. Side Plate	4 05
K5—R. H. Side Plate	4.05
K2—Straight Knife Bar—	
14 in	2 02
16 in	2 16
18 in	2 65
20 in	2.82
K3—Straight Knife—	
14 in	1.50
16 in	1 62
18 in	1.75
20 in	1 89
K8—Spiral Cutter, complete—	
14 in	13 50
16 in	16 20
18 in	17 55
20 in	18 90
K7—Spiral Cutter Blades, each	
14 in	1.50
16 in	1 62
18 in	1 75
20 in	1 89
K8—Wood Roller—	
14 in	1.50
16 in	1 73
18 in	2 02
20 in	2.16
K9—Handle Irons, both alike	
14 in	95
16 in	95
18 in	1 08
20 in	1 20
K10—L. H. Pinion	1.35
K11—R. H. Pinion	$1 35
K12—Double Ratchet Pin	.12
K13—Wrench	.27
K14—Drive Wheel Bolt	.27
K15—Pointed Screw for R. H. Cone	.21
K16—Cup-pointed Screw for L. H. Cone	.21
K17—Drive Wheel Washer	.12
K18—Roller Bracket Bolt	21
K19—Bolt for Handle Iron	.21
K20—Screw for Lower Blade	.12
K21—Set Screw for Spider	.27
K93—Left Hand Spider	1.35
K94—Right Hand Spider	1.35
K30—Center Spider	66
K22—Wood Handle complete	2.70
K23—Ball Retainer and Balls	.81
K24—Right Hand BB Cone	1 35
K25—Left Hand BB Cone	1 35
K26—Ball Bearing Cups	66
K27—Cone-pointed Headless Set Screw for end of Knife Bar	.27
K28—4x27/8 in. Screw for Adjusting	27
K29—Hex. Nut for Set Screw on end of Knife Bar	12
K31—Cone for end of Knife Bar	27
K32—Brass Eccentric for Knife Bar	.66
K33—Machine Screw for Eccentric	12
K34—Taper Pin for Cross Rod	12
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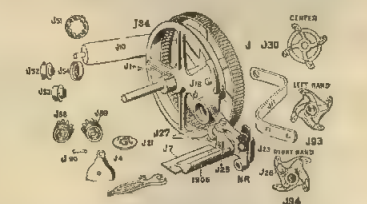

COUNTRY CLUB

No.	Each
J—Drive Wheel, both alike	$2 30
NR—Roller Bracket, right hand	.40
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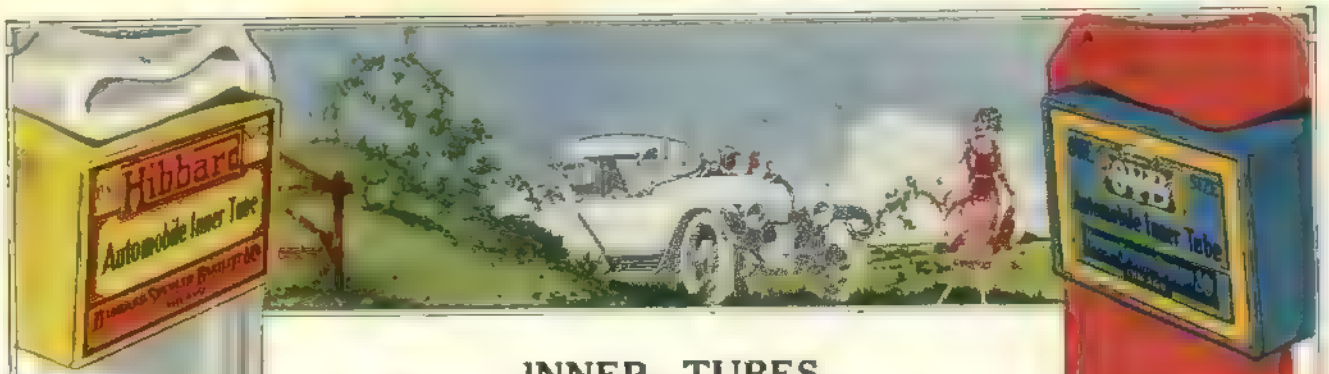
J34—R. H. Side Plate	4.05
J33—L. H. Side Plate	4.05
J4—Pinion Cap	54
J1906—Straight Knife Bar—	
14 in	2 02
16 in	2.30
18 in	2.55
20 in	2 82
J7—Straight Knife—	
14 in	1 50
16 in	1 62
18 in	1 75
20 in	1 89
J6—Spiral Cutter, complete—	
14 in	13 50
16 in	15 20
18 in	17 55
20 in	18 90
J9—Spiral Cutter Blades—	
14 in	1 50
16 in	1 62
18 in	1 75
20 in	1 89
J10—Wood Roller—	
14 in	1 75
16 in	1 89
18 in	2 02
20 in	2 16
J88—R. H. Pinion	1 08
J89—L. H. Pinion	1.08
J90—Double Ratchet Pins	12
J15—Wrench	12
J92—L. H. Spiral Cutter Spider	1 35
J94—R. H. Spiral Cutter Spider	1 35
J30—Center Spiral Cutter Spider	1 35
J18—Pinion Cap Bolt	27
J19—Cotter for end of Wheel Shaft	12
J21 Drive Wheel Washer	.12
J1—Set Screw for Side Plate	27
J23—Roller Bracket Bolt	21
J24—Bolt for Handle Iron	.21
J25—Bolt for Straight Knife Bar	.21
J28—Set Screw for Spider	27
J27—Adjusting Screws for Knife Bar	27
J50—Wood Handle, complete	2 70
J51—Ball Retainer and Balls	81
J52—Right Hand BB Cone	1 35
J53—Left Hand BB Cone	1 35
J54—Ball Bearing Cups	.66

Not Carried in Stock; For Shipment from Factory only. F. O. B. Richmond, Ind.



INNER TUBES

"Pure Gum" red inner tubes are standard gauge, manufactured from pure gum, full floating stock of rubber, equal to any tube on the market. Will not leak at the splice or valve. The rubber is specially selected for its great tensile strength, elasticity, lightness in gravity and durability, forming an air tight tube. Each tube is full size, which is an important factor, as many tubes being offered the public are under sized.

HIBBARD gray inner tubes are made from the best grades of rubber selected for maximum wearing qualities. This tube has an acid cured splice, inside molded valve base, which greatly strengthens, at a point usually the weak part of a tube. HIBBARD tubes will be found to be practical, economical and satisfactory.

All the tubes are built on the laminated construction plan, which consists of a number of plies of rubber, laid one upon the other, all being forced and vulcanized into one thickness. This method of construction safeguards against pin holes, defect or porousness and destroys the grain, as a result of which the tube if punctured will not rip. Each tube is packed in an individual sealed carton, properly labeled and stamped and carries a full season's guarantee

PURE GUM RED TUBES

Size	30×3	30×3½	32×3½	31×4	32×4	33×4	34×4	34×4½	35×4½	35×5
W't each, lbs.	2½	3	3½	4	4½	5	5½	5½	6	7½
Each	$3.00	3.60	3.70	4.20	4.30	4.40	4.40	5.20	5.30	6.00

HIBBARD GREY TUBES

Size	30×3	30×3½	32×3½	31×4	32×4	33×4	34×4	34×4½	35×4½	35×5
W't each, lbs.	2½	3	3½	4	4½	5	5½	5½	6	7½
Each	$2.60	3.10	3.20	3.80	3.90	4.00	4.00	4.80	4.80	5.40

ONE IN A SEALED BOX

COLTS AUTOMATIC PISTOLS

The action of these pistols is automatic, except that the trigger must be pulled to fire each shot, the cartridges being supplied from a detachable magazine inserted in the handle of the pistol. After the pistol is charged with a filled magazine, one opening movement is made by hand, bringing the first cartridge into the chamber. On pulling the trigger the cartridge is fired, the empty shell extracted, and a new cartridge loaded into the chamber, all these operations taking place automatically. This automatic operation of the pistol is effected by the recoil of the moving parts, and as a consequence the recoil is so absorbed in being utilized that it has no disturbing effect.

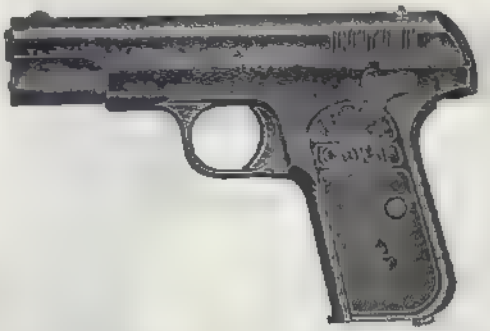
All Colts' Automatic Pistols are equipped with safety devices.

No. 1CNP.

Vest pocket model, hammerless, 25 caliber, 6 shots, 2 in. barrel, 4½ in. over all, rubber stock.

No. 1C—Blued .....each $26.20
No. 1N—Nickel plated .....each 26.20
No. 197CN—Nickel plated, fitted with fine quality **pearl stocks** .....each $31.50
No. 197C—Blued, fitted with fine quality **pearl stocks, stocks** .....each $31.50
No. 1NP—Nickel plated, Colt genuine pearl stocks, with medallion monogram .....each $36.50
Extra Magazines, 25 caliber .....each $1.30

ONE IN A BOX. WT EACH 11 OZ.



Pocket model, hammerless, center fire, 6¾ in. over all, rubber stock.

32 CALIBER, 8 SHOTS
BLUED.
No. 6—3¾ in. barrel, w't 23 oz. .....**each $31.50**

380 CALIBER, 7 SHOTS
BLUED.
No. 380—3¾ in. barrel, w't 23 oz. .....**each $31.50**

ONE IN A BOX

EXTRA MAGAZINES

32 Caliber for No. 6 pistol .....each $1.50
380 Caliber for No. 380 pistol .....each 1.50

COLT AUTOMATIC PISTOLS IN CASES

Special cases, of the highest quality, made by the Colt Patent Firearms Mfg. Co., for Colt Automatic pistols, calibers 25, 32 and 380, that will appeal to the purchaser, of one of these pistols, who has in mind using the arm as a home defence or office weapon, or for presentation purposes. These cases are sturdily constructed of wood, covered with a high grade black leatherette. They are lined with velveteen and sateen, with a recess provided for the firearm. Two colors of lining are offered: dark blue and maroon. These cases will not be sold separately.

No. 1CX—Colt automatic pistol, 25 caliber, 6 shot, blued vest pocket model, hammerless, 2 in. barrel, 4½ in. over all, rubber stocks, in high grade black leatherette covered wood case, either blue or maroon lining ...**each $28.00**

No. 1NX—Colt automatic pistol, 25 caliber, 6 shot, nickeled, otherwise same description as No. 1CX, in high grade black leatherette covered wood case, either blue or maroon lining .....**each $28.00**

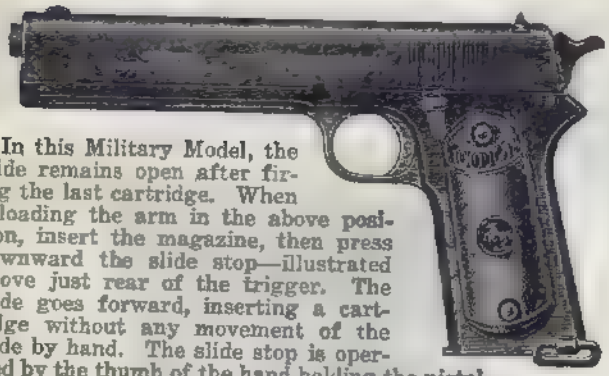
No. 1NPX—Colt automatic pistol, 25 caliber, 6 shot, nickel plated, Colt genuine pearl stocks with medallion monogram, otherwise same description as 1CX, in high grade black leatherette covered wood case, either blue or maroon lining .....**each $38.30**

No. 6X—Colt automatic pistol, pocket model hammerless, 32 caliber, 8 shots, blued 3¾ in. barrel, 6¾ in. over all, rubber stocks, in high grade black leatherette covered wood case, either blue or maroon lining ....**each $33.70**

No. 380X—Colt automatic pistol, pocket model hammerless, 7 shots, blued 3¾ in. barrel, 6¾ in. over all, rubber stocks, in high grade leatherette covered wood case, either blue or maroon lining .....**each $33.70**

ONE IN A BOX

COLT AUTOMATIC PISTOLS



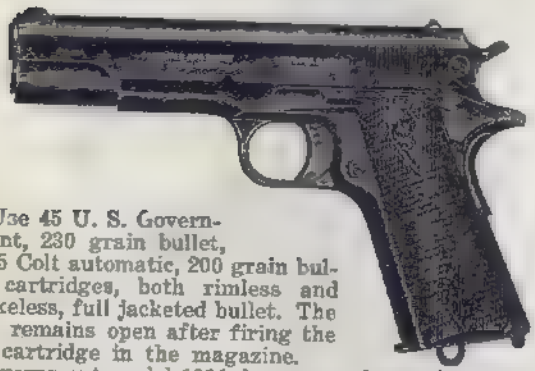
In this Military Model, the slide remains open after firing the last cartridge. When reloading the arm in the above position, insert the magazine, then press downward the slide stop—illustrated above just rear of the trigger. The slide goes forward, inserting a cartridge without any movement of the slide by hand. The slide stop is operated by the thumb of the hand holding the pistol.

Military Model, Hammer.

No. 7—38 cal., center fire, 8 shots, blued, 6 in. barrel, length over all 9 in., w't 38 oz. .....each **$62.00**

Extra Magazines, 38 cal., for Colt's automatic military pistols .....each **$2.50**

ONE IN A BOX



Use 45 U. S. Government, 230 grain bullet, or 45 Colt automatic, 200 grain bullet cartridges, both rimless and smokeless, full jacketed bullet. The slide remains open after firing the last cartridge in the magazine.

Government model 1911, hammer. Adopted by the U. S. government as the service side arm.

No. 45— 45 cal., center fire 7 shots, full blued, checkered walnut stocks, 5 in. barrel, length over all 8½ in., w't 39 oz. .....each **$54.40**

Extra Magazines, 45 cal. .....each **$2.50**

ONE IN A BOX

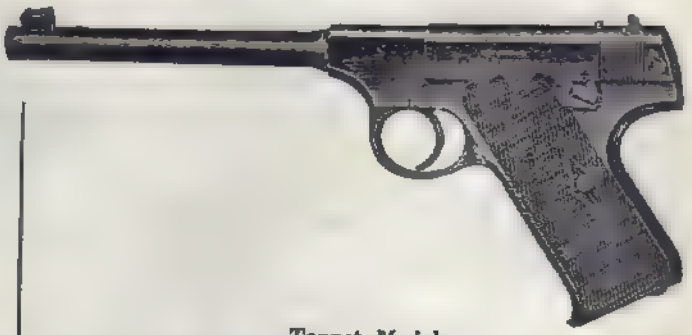
Pocket Model, Hammer.

No. 5C—38 cal., center fire, 7 shots, 4½ in. blued barrel, length over all 7½ in., w't 32 oz. .....each **$59.70**

Extra Magazines, 38 cal., for Colt's automatic pocket pistols .....each **$2.50**

ONE IN A BOX

COLT AUTOMATIC PISTOLS



Target Model.

No. 22G—22 long rifle rim fire caliber, 10 shots, 6½ in. barrel, blued finish, check English walnut stocks, adjustable bead front and rear sights, lenght over all 10½ in., w't 28 oz. .....each **$43.50**

ONE IN A BOX

2175

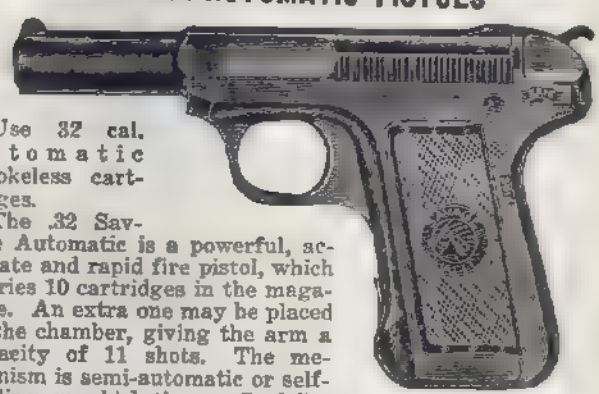
Chambered for 22 Long Rifle Rim Fire Semi-Smokeless cartridges—lubricated cartridges only.

Extra Magazines, 22 long rifle rim fire caliber, for No 22G pistols .....each **$4.00**

With its long barrel, light trigger pull, splendid balance and adjustable target sights—the front sight adjustable for elevation and the rear for windage—it possesses all the advantages of a single-shot target pistol, with automatic action in addition, obviating the inconvenience of reloading for each shot and allowing rapid fire and snap shooting.

The pistol has a slide lock safety which when the hammer is cocked may be pushed upward, thus positively locking hammer and slide. This cannot be done when the hammer is down. The safety acts as an indicator, showing whether or not the arm is cocked.

SAVAGE AUTOMATIC PISTOLS



Use 32 cal. automatic smokeless cartridges.

The .32 Savage Automatic is a powerful, accurate and rapid fire pistol, which carries 10 cartridges in the magazine. An extra one may be placed in the chamber, giving the arm a capacity of 11 shots. The mechanism is semi-automatic or self-loading, in which the recoil of firing the cartridge extracts and ejects the empty shell, also cocks the pistol, reloading it in readiness for the next shot, to fire each of which the trigger must be pulled.

Pocket model, new style hammer or cocking lever.

Blued automatic, 11 shots (including one in the chamber), length of barrel 4 in., length over all 6½ in., w't 19 oz.

No. 15— 32 caliber .....each **$30.50**

No. 16—380 caliber .....each **30.50**

EXTRA MAGAZINES

32 Caliber—For No. 15 .....each **$2.00**

380 Caliber—Hammer for No. 16 .....each **2 00**

ONE IN A BOX

SMITH AND WESSON REVOLVERS

New Departure model, hammerless, safety attachment, center fire, rubber stock, double action.

32 cal. adapted for 32 S. & W.; 38 cal. for 38 S. & W. for 38 S. & W.

32 CALIBER, 5 SHOTS

NICKEL PLATED.

No. 32N—3 in. barrel, w't 14½ oz. .....each $40.80

BLUED.

No. 32B—3 in. barrel, w't 14½ oz. .....each $40.80

38 CALIBER, 5 SHOTS

NICKEL PLATED.

No. 38N—3¼ in. barrel, w't 17 oz. ... .. .each $44.00
No. 48N—4 in. barrel, w't 17½ oz. .. .. each 44.00

BLUED.

No. 38B—3¼ in. barrel, w't 17 oz. ... .each $44.00
No. 48B—4 in. barrel, w't 17½ oz. . .....each 44.00

ONE IN A BOX

Hand ejector, model 1903, jointless frame, simultaneous ejecting round handle, rubber stock, double action.

32 CALIBER, 6 SHOTS

BLUED.

No. 6432—3¼ in. barrel, w't 17¾ oz. .....each $44.00
No. 6632—4¼ in. barrel, w't 18¼ oz. .....each 44 00
No. 6832—6 in. barrel, w't 20 oz. .....each 44.00

NICKEL PLATED.

No. 6632—3¼ in. barrel, w't 17¾ oz. .....each $44.00
No. 6732—4¼ in. barrel, w't 18¼ oz. .....each 44.00

32 caliber adapted for 32 cal. S. & W. long or short.

ONE IN A BOX

Regulation Police model, new pattern safety hammer block, solid frame, swing-out cylinder, double action, square checkered wood stock.

32 caliber adapted for 32 S. & W. Long, 32 S. & W. and 32 Colt's New Police.

38 caliber adapted for 38 S. & W., 38 S. & W. Gallery and 38 Colt New Police.

32 CALIBER, 6 SHOTS

NICKEL PLATED.

No. 6532SB—3¼ in. barrel, w't 17¾ oz. .....each $46.40
No. 6732SB—4¼ in. barrel, w't 18¼ oz. .....each 46 40
No. 6932SB—6 in. barrel, w't 20 oz. .....each 46.40

BLUED.

No. 6432SB—3¼ in. barrel, w't 17¾ oz. .....each $46.40
No. 6632SB—4¼ in. barrel, w't 18¼ oz. .....each 46 40
No. 6832SB—6 in. barrel, w't 20 oz. .....each 46.40

38 CALIBER, 5 SHOTS

BLUED.

No. 6238SB—4 in. barrel, w't 17¾ oz. .....each $46.40

NICKEL PLATED.

No. 6338SB—4 in. barrel, w't 17¾ oz. .....each $46.40

ONE IN A BOX

Military and Police, model 1902, jointless frame, simultaneous ejecting, round handle, wood stock, double action.

38 CALIBER, 6 SHOTS

BLUED.

No. 6438—4 in. barrel, w't 29 oz. .....each $48 80
No. 6838—6 in. barrel, w't 32 oz. .....each 48.80

NICKEL PLATED.

No. 6538—4 in. barrel, w't 29 oz. .....each $48.80

38 CALIBER, 6 SHOTS

BLUED.

No. 6638—5 in. barrel, w't 30 oz. .....each $48.80

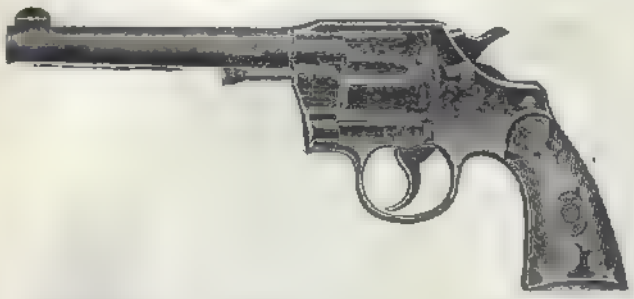
NICKEL PLATED.

No. 6738—5 in. barrel, w't 30 oz. ....each $48.80

38 caliber adapted for 38 S. & W. Special and 38 long Colt's.

ONE IN A BOX

COLT REVOLVERS



ARMY SPECIAL, jointless frame, simultaneous ejection, positive lock, center fire, rubber stock, double action.

Use 32-20 or 32 W. C. F. Winchester, 38 S. & W. Special, 38 long and short Colt and 41 long and short Colt cartridges.

The Army Special is a heavier model than the Police Special.

32-20 CALIBER, 6 SHOTS

BLUED.

No. 7632SB—4 in. barrel, w't 34 oz. .....each $41.40
No. 7632SB—5 in. barrel, w't 36 oz. . ...each 41.40
No. 7832SB—6 in. barrel, w't 37 oz ...each 41.40

38 CALIBER, 6 SHOTS

NICKEL PLATED.

No. 7538S—4 in. barrel, w't 33 oz. .....each $41.40

BLUED.

No. 7538SB—4 in. barrel, w't 33 oz. .....each $41.40
No. 7638SB—5 in. barrel, w't 34 oz. .....each 41.40
No. 7738SB—6 in. barrel, w't 35 oz. . .....each 41.40

41 CALIBER, 6 SHOTS

BLUED.

No. 7441SB—4½ in. barrel, w't 31 oz. .....each $41.40

ONE IN A BOX

NEW OFFICERS model, double action, center fire, checkered walnut stock.

Use 38 long Colt and 38 S. & W. Special Full, Mid Range and Gallery Load cartridges.

38 CALIBER, 6 SHOTS

BLUED.

No. 7638BT—5 in. barrel, w't 34 oz. .....each $61.00
No. 7738BT—6 in. barrel, w't 34 oz. ..... .each 61.00
No. 7938BT—7½ in. barrel, w't 35 oz. .....each 61.00

ONE IN A BOX

COLT REVOLVERS

NEW SERVICE, double action, jointless frame, simultaneous ejection, positive lock, center fire, rubber stock.

Use 38-40 or 38 W. C. F., 44-40 or 44 W. C. F. and 45 Colt's cartridges.

38-40 CALIBER, 6 SHOTS

BLUED.

No. 7638B—5½ in. barrel, w't 42 oz. .....each $50.00
No. 7838B—7½ in. barrel, w't 45 oz. .. ....each 50.00

44-40 CALIBER, 6 SHOTS

BLUED.

No. 7744B—7½ in. barrel, w't 45 oz. .....each $50.00

45 CALIBER, 6 SHOTS

BLUED.

No. 7545B—5½ in. barrel, w't 42 oz. .....each $50 00
No. 7745B—7½ in. barrel, w't 42 oz. .....each 50.00

ONE IN A BOX

SINGLE ACTION ARMY, or frontier, center fire, rubber stock.

Use 32-20 or 32 W. C. F. and 45 Colt cartridges.

32 CALIBER, 6 SHOTS

BLUED.

No. 8132S—4½ in. barrel, w't 40 oz. .....each $46.70
No. 8132M—5½ in. barrel, w't 42 oz. .....each 46.70
No. 8132L—7½ in. barrel, w't 42 oz. .....each 46.70

45 CALIBER, 6 SHOTS

BLUED.

No. 8145S—4½ in. barrel, w't 36 oz. .....each $46.70
No. 8145M—5½ in. barrel, w't 37 oz. .....each 46.70

ONE IN A BOX

MACHINISTS' VISES

COLUMBIAN

Malleable iron with forged steel screw, cold rolled steel handle, forged steel ball ends, steel faced jaws, stationary base.

Nos.	503	503½	504	504½	505
Jaws, width, inches	3	3½	4	4½	5
Jaws open, inches	4½	5	6	7	8
Each	$10.00	11.25	12.75	15.50	20.00
Weight, pounds	20	27	36	46	58

Malleable iron with forged steel screw, cold rolled steel handle, forged steel ball ends, steel faced jaws, swivel base.

Nos.	603	603½	604	604½	605
Jaws, width, inches	3	3½	4	4½	5
Jaws open, inches	4½	5	6	7	8
Each	$13.00	15.00	17.00	20.00	30.00
Weight, pounds	25	35	44	56	74

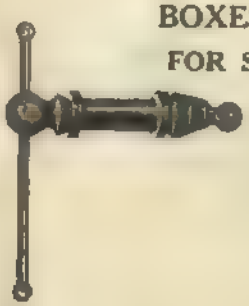
SOLID BOX BLACKSMITHS' VISES

Jaws forged from one piece solid steel and faced with high grade tool steel, malleable iron box with concaved and convexed washers, steel screw and lever, body painted black.

No.	Each	Width Of Jaws Inches	Weight Pounds
35	$10.00	4	35
40	21.00	4	40
45	22.00	4½	45
50	23.00	4½	50
60	24.00	4½	60
70	30.00	5	70
80	35.00	5½	80
90	40.00	5½	90
100	44.00	6	100
120	52.00	6½	120
125	55.00	6½	125
150	72.00	7	150
180	94.00	7½	180
200	112.00	8	200

BOXES AND SCREWS

FOR SOLID BOX VISES



Malleable iron box with concaved and convexed washers, steel screw and lever.

Nos.	1	2	3	4	5
For vises Nos.	25 to 50	60 to 70	80 to 90	100 to 125	150 to 200
Screw diam., inches	1⅛	1¼	1¼	1½	1¾
Each	$7.00	8.00	9.00	14.00	20.00
Weight, pounds	7	10	12	18	26

ANVILS

CRANBERRY

Solid wrought base, heavy cast steel face, full length, rounded horn; perfect temper, with square and round hole.

Weight, pounds	60	70	80	90	100
Per pound	$0.48	.48	.48	.48	.48
Weight, pounds	110	120	150	200	250
Per pound	.48	.48	.48	.48	.48

PETER WRIGHT

Solid wrought English made anvils

Weight, pounds	60	70	80	90	100
Per pound	$0.55	.55	.55	.55	.55
Weight, pounds	110	120	150	200	250
Per pound	.55	.55	.55	.55	.55

EAGLE

Gun iron base, one piece, crucible tool steel face, ground to true surface and tempered; full length, rounded horn.

Weight, pounds	60	70	80	90	100	110	120
Per pound	$0.50	.50	.50	.50	.50	.50	.50

CAST IRON

Weight, pounds	100
Per pound	$0.15

ANVIL TOOLS

TOP SWAGES

Forged steel, oil finish, oval eye

Size, inches	¼	⅜	⅜	½	⅝
Each	$1.70	1.70	1.70	1.70	1.80
Weight, pounds	2	2	2	2¼	2½
Size, inches	¾	⅞	1	1¼	1½
Each	$2.20	2.20	2.20	2.50	3.20
Weight, pounds	2¾	2⅞	3	3¼	3½

TOP FULLERS

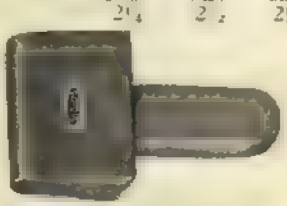
Forged steel, oil finish, oval eye

Size, inches	¼	⅜	⅜	½	⅝
Each	$1.70	1.70	1.80	1.80	1.90
Weight, pounds	2	2	2	2¼	2¾
Size, inches	¾	⅞	1	1¼	1½
Each	$1.90	2.20	2.20	2.40	2.60
Weight, pounds	3⅛	3½	3¼	4	4½

BOTTOM SWAGES

Forged steel, oil finish

Size inches	¼	⅜	⅜	½	⅝
Each	$1.70	1.70	1.70	1.70	1.80
Weight, pounds	1½	1⅝	1¾	2	2
Size inches	¾	⅞	1	1¼	1½
Each	$2.20	2.20	2.20	2.50	3.20
Weight, pounds	2¼	2½	2½	3	3½



BOTTOM FULLERS

Forged steel, oil finish

Size, inches	¼	⅜	⅜	½	⅝
Each	$1.70	1.70	1.80	1.80	1.90
Weight, pounds	1¾	1¾	2	2½	2¼
Size, inches	¾	⅞	1	1¼	1½
Each	$1.90	2.20	2.20	2.40	2.60
Weight, pounds	2¾	3	3	3½	4

HARDIES

Forged steel, oil finish

Bit width, inches	1⅝	2	2	2⅛	2⅛
Shank size, inches	½	¾	⅞	1	1¼
Each	$0.84	1.00	1.20	1.40	1.70
Weight, pounds	1	1⅛	1½	1¾	2

ANVIL TOOLS

SQUARE PUNCHES

Forged steel, oval eye, oil finish

Point size, inches	⅜	½	⅝	¾
Each	$1.40	1.40	1.70	1.80
Weight, pounds	1½	2	2¼	2½

ROUND PUNCHES

Forged steel, oval eye, oil finish

Point size, inches	⅜	½	⅝	¾
Each	$1.40	1.40	1.70	1.80
Weight, pounds	1½	2	2¼	2½

COLD CHISELS

Forged steel, oval eye, oil finish

Width inches	1	1⅛	1¼	1⅜	1½
Each	$1.00	1.15	1.35	1.70	2.00
Weight, pounds	1⅝	1⅝	2	2½	3

HOT CHISELS

Forged steel, oval eye, oil finish

Width inches	1	1¼	1¼	1⅜	1½
Each	$1.00	1.15	1.35	1.70	2.00
Weight, pounds	1¼	1½	2	2½	2¾

SET HAMMERS

Forged steel, oval eye, oil finish

Face size, inches	1	1¼	1½	1¾
Each	$1.40	1.70	2.15	2.60
Weight, pounds	1¾	2	3	4

FLATTERS

Forged steel, oval eye, oil finish

Face size, inches	2	2¼	2½	3	3½	4
Each	$1.80	2.00	2.60	3.40	4.60	6.20
Weight, pounds	2½	2½	5	5½	5¾	6¼

SAD IRONS
ASBESTOS

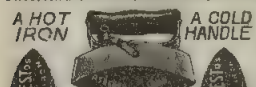
LAUNDRY SETS

Consists of one asbestos lined hood with handle attached, three double pointed cores or bottoms and one asbestos covered stand.

Per Set

No. 70—Weight of hood and one core, 5½ pounds. $6 30

One set in a wood box; six sets in a wood case, wt. per case 114 lbs.



LAUNDRY SETS

Consists of one asbestos lined hood with handle attached, two double pointed cores, one square heeled core and one asbestos covered stand.

Per Set

No. 100L—Weight of hood and one double pointed core, 6¼ pounds, hood and one square heeled core, 7 lbs. $6 90

One set in a wood box; six sets in a wood case; wt. per case 114 lbs.

DOVER LAUNDRY SETS

Full nickel plated and polished, patent wedge lock.

Oval shaped cast iron cores, bright polished; asbestos covered stand 6x6 inches.

Set consists of one unlined hood, three cores and one stand.

Per Dozen Sets

No. 60—Weight of hood and one core, 5 lbs. $59 25

One set in a carton; 3 sets in a wood case; wt. per case 46 lbs.

SAD IRON HOODS
ASBESTOS

Nickel plated steel hood, asbestos lined, with black enameled wood handle, and patent lock.

Per Dozen

No. 61—Unlined; fits No. 60 sad irons $26 55
No. 71—Asbestos lined; fits No. 70 sad irons 28 50

One in a carton.

CHARCOAL SAD IRONS

SELF HEATING
Family and Laundry Sizes.

Cast iron; polished face and sides; gold bronzed top; japanned wood handle; bright tin shield.

Single flue, top opens at back to allow fuel to be put in, either charcoal or live coals from common wood may be used.

No.	4C
Weight each, lbs	6½
Size base, inches	4¼x6¾
Per Dozen	$50 25

Half dozen in a wood box.

CHARCOAL SAD IRONS

SELF-HEATING
Tailors' Size.

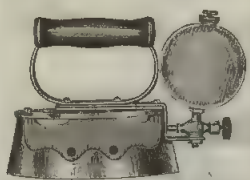
Cast iron; polished face and sides aluminum bronze top; painted wood handle; bright tin shield.

Single flue, top opens at back to allow fuel to be put in, either charcoal or live coals from common wood may be used.

No.	18C
Weight each, lbs.	18
Size base, inches	3¼x11¾
Per Dozen	$111 75

Half dozen in a wood box.

GASOLINE SAD IRONS
COMFORT



Cast iron nickel plated core, pointed on both ends; ebonized wood handle with heavy steel brace, protected from the heat by two asbestos pads and an air space; cast brass highly nickel plated gasoline fount.

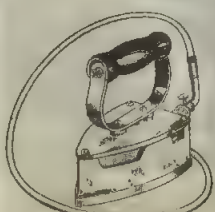
The iron is quickly lighted, and requires only ½ teaspoonful of gasoline to generate. The heat can be regulated to suit the operator. Operates 5 hours on one filling.

Each

No. CG—Size face 6⅞x8¾ in.; weight 6½ lbs.; capacity oil fount ¾ pint $11 70

One in a cardboard box.

GAS SAD IRONS
FAIRY QUEEN



Steel base, highly nickel plated and polished; black enameled wood handle Absolutely safe and odorless. Equipped with needle valve regulator and can be adjusted to gas pressure. Spreads a hot torch flame evenly over base of iron. Heats quickly and remains perfectly heated while ironing.

Furnished complete with 6 feet metal tubing and stand; size base 4x6¾ ins.

Each

No. FQA—For artificial gas. $9 75

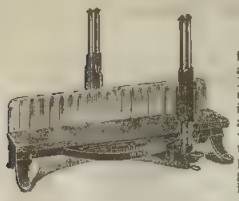
No. FQN—For natural gas. 10 20

One in a carton; weight each 5¾ lbs.

MITRE BOXES

STANLEY

Without Saw.



One piece cast iron frame, base and back accurately machined. Nickel plated trimmings. Cuts moulding up to 4 inches in size; saws at any angle from 45 to 90 with work lying parallel to back of box and is provided with depth gauge. Will take either back or panel saw.

Each

No. 50½—Length 18 ins., height 13½ ins., capacity at right angle 7¾ ins.; capacity at mitre 4¾ ins. $20 85

One in a wood box; weight per dozen 21 lbs.

IMPROVED NEW LANGDON

With Saw.

Cast iron frame, painted dark brown, malleable iron legs, corrugated back, polished steel uprights, cuts by using the circular arms or guides, from right angles to 75 degrees on 2¼ inch stuff, also cutting from right angles to 45 degrees. The only box adjustable for mitreing circular work to patterns, emery wheels and segments of various kinds.

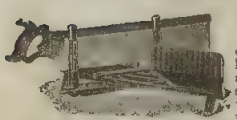
Capacity 9⅜ inches at right angle, 6¾ inches at mitre.

Nos.	31	32	34
Size	2	2	2½
Size saw, inches	22x4	24x4	28x5
Length frame, inches	19½x4¼	19½x4¼	19½x4¼
Weight each, lbs.	30	32	35
Each	$48 00	48 00	58 50

One in a wood box.

NEW LANGDON

With Saw.



Cast iron frame, painted corrugated back. Malleable iron legs, adjustable saw guides with spring lever clamping device to hold at any angle, notched to lock at regular angles from right angle to 45°; capacity 6⅜ inches at right angle and 4½ inches at mitre

Each

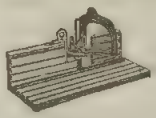
No. 20—Size, with 24x4 inch saw; length frame 19½x4¼ inches $39 75

One in a wood box; weight each 27 lbs.

MITRE BOXES

PERFECTION

Without Saw.



Japanned malleable iron frame, polished cast steel post, varnished inlaid hardwood base, tongued and grooved. Guide is held at any desired angle by sliding key and depth of cut is controlled by clutch on guide post, saws at any angle from 9° to 90° with work lying parallel to back of box. Detachable from wood base and takes hand, panel or back saw.

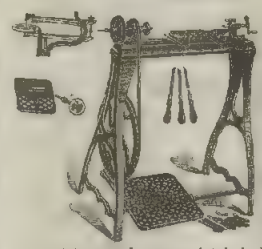
Each

No. 10—Length base 16 inches; width 6 inches, 4x3¼ inch back $9 00

Two in a wood box; weight each 5½ lbs.

LATHE, WITH SCROLL SAW ATTACHMENT

COMPANION



Japanned iron frame drive wheel and treadle; 7½ inch iron tilting table, 20½ inch hardwood arms, with blower attachment; 13 inch drive wheel, round leather belt. Height 39 inches. Base 25x15 inches, bed 24 inches long, has 2 inch face plate, one spur center and one screw center. The scroll saw can be taken off by loosening one bolt. The tailstock has a screw feed center which is secured at any point desired by a clamping device like that on modern engine lathes.

Driving wheel is made with two grooves of different depths to give change of speed, as the belt runs from it to the cone pulley. On the outer side of the pulley is a 4½x1½ inch solid emery wheel.

Each

No. 1—Complete with lathe attachment, 12 saw blades, wrench, sheet of designs, long tool rest, short tool rest, 6 drill points, 1 straight turning chisel, 1 skew turning chisel, 1 turning gouge and screw driver (no circular saw attachment included) $68 25

One in a wood box; weight each boxed about 75 lbs.

Each

No. 1S—Circular Saw Attachment only $4 20

Packed loose, wrapped; weight each about 3 lbs.

SCROLL SAWS

NEW ROGERS

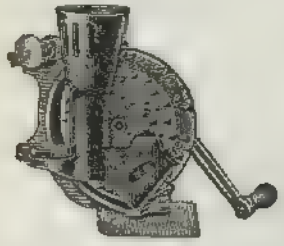
Japanned iron frame, drive wheel and treadle, frame ornamented in red and gold. Eight inch nickel plated iron tilting table, 20½ inch hardwood arms; with blower attachment, 12 inch drive wheel, round leather belt; height 37 inches. Base 23x16 inches, 6 inch Emery Balance Wheel, drilling attachment on right hand side.

Each

No. 2—Complete with 12 saw blades, wrench sheet of designs and three drill points $34 50

One in a crate; weight about 35 lbs.

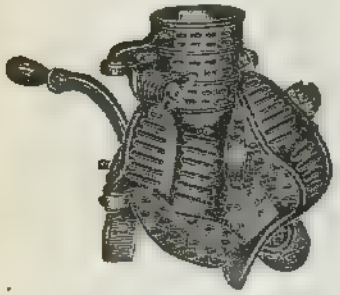
CORN SHELLERS



The tension of the hopper spring allows the hopper to expand and contract according to the size of the ear. At the outlet of the hopper a flange holds the ear close to the shelling disc or wheel, thus assuring a thorough shelling of the ear.

No. T100—Little Giant, 10 in. sheller disc or wheel with projecting teeth, spring hopper, adjustable for different sizes of ears, malleable iron frame, disc, crank, etc., heavy steel hopper spring, long axle bearing and hook, 7 in. crank with wood grip, w't per doz. 150 lbs.,
per dozen $24.00

ONE IN A CARTON



Manufacturer guarantees to furnish free any part that ever breaks, wears out or gets lost.

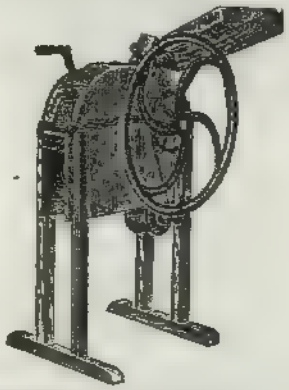
BLACK HAWK, 8½ in. shell wheel with round teeth, long chilled bearings, malleable iron hopper, separator and crank, will shell all sizes of ears, fastens to side of box by means of two clamps with winged nuts, capacity 8 to 14 bu. per hr., w't per doz. 180 lbs.

HALF DOZEN IN A BARREL

No. T1903—Full one-half dozen barrel, per dozen $54.00

No. 1903—Less than half dozen, per dozen $54.00

CORN SHELLERS



HIBBARD, hardwood frame, body and legs painted vermilion, striped in black and varnished. All iron parts painted black. Heavy balance wheel, light running gears and easily adjustable spring to receive and shell any size ear of corn. All parts strong and durable, 21 in. fly wheel, height 3½ ft., length 2 ft., width 12 in.

The HIBBARD shells prfectly clean, does not break the cob or throw out corn with the cob. Has hand wheel for regulating springs and cast iron frame for all boxes. It can be used with light power by replacing crank with pulley.

WITHOUT FAN

No. F5—Without feed table, w't each 138 lbs.★ .....each $24.00

No. F5T—With feed table, w't each 145 lbs.★ .....each $25.00

WITH FAN

No. F5F—Without feed table, w't each 143 lbs.★ .....each $27.00

No. F5FT—With feed table, w't each 150 lbs.★ .....each $28.00

ONE IN A CRATE, PART KNOCKED DOWN

No. F5P—Pulley Attachment, diam. 8 in., 2 in. face, for running [illegible] Sheller with 1 or 1½ h. p. engine, takes 2 in. belt, w't each 5 lbs., each★ $2.00

PACKED LOOSE

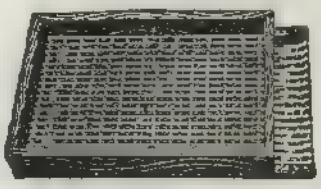
FODDER SQUEEZERS

For tying fodder and other bulky materials in shocks and bundles.

No. 4—Blair's, malleable iron japanned, for ¾ in. rope, w't per doz. 7 lbs. .....per dozen $7.00
Price does not include rope.

ONE DOZEN IN A BOX

SEED CORN GRADERS



No planter will drop right with ungraded seed.

Graded seed insures perfect dropping, stronger plants and increases yield 5 to 15 bushels per acre.

The Perfection has a special lower screen construction that sorts out the THIN wafer-like kernels as well as the ROUND and NARROW ones.

Both screens are corrugated giving every aperture an incline guard on lower screen which prevents spilling corn while grading, permitting action of entire screen on corn at once.

No. M21—Perfection, double screen, corrugated, beveled apertures, three kinds of holes in the lower screen, retains corn on lower screen until separation is complete, **size 11x19 in. capacity 6 to 10 bushels per hour,** per dozen $23.20

HALF DOZEN IN A BOX

A rotary screen never clogs, constructed so that kernels are turned on edge or on end that they may readily pass through. Will handle any variety of field corn. Crated for shipment with legs detached. Measures and basket not included.

No. N50—Double Rotary, 5 grade, height 30 in., length 32 in., width 15 in., composed of two corrugated steel drums, the finer screen drum surrounding the other; simple easily operated, accurate, quick acting, w't each crated 50 lbs.,
per dozen $232.00

★ Items Marked Thus ★ Are Shipped From Factory Only.

COUNTER PLATFORM SCALES

BUFFALO UNION

With single brass beam, seamless tin scoop and self aligning bearings

No. 768. Capacity in scoop 32 pounds by ½ ounce; on platform 245 pounds by ¼ pound; platform 10x13¾ inches; weight 60 pounds.....each, **$18.00**

One in a box

BUFFALO UNION

With double brass beam, seamless tin scoop and self aligning bearings

No. 772. Capacity in scoop 32 pounds by ½ ounce; on platform 245 pounds by ¼ pound; platform 10x13¾ inches; weight 60 pounds.....each, **$20.00**

One in a box

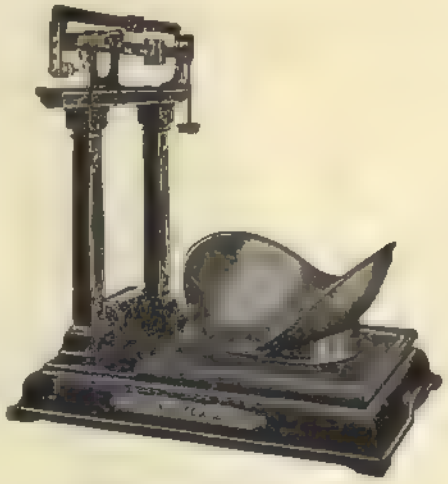
CHEROKEE UNION

With single brass beam, sliding poise and heavy tin scoop; bearings are of Sheffield tool steel, carefully tempered to the proper degree of hardness; corner loops are of double suspension pattern which give the platform easy motion and prevent friction and binding; guaranteed to comply with all state laws governing weights and measures; handsomely finished in black enamel with gold and red striping.

No. 508. Capacity in scoop 30 pounds by ½ ounce; on platform 240 pounds by ¼ pound; platform 10½ x 13½ inches; weight 60 pounds.....each, **$16.50**

One in a box

COUNTER PLATFORM SCALES



NIAGARA COUNTER SCALE

With Self-Aligning Bearings

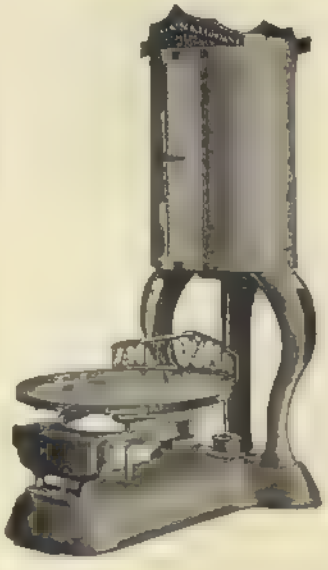
The Niagara Counter Scale is a handsome double pillar, double beam scale; exceptionally sensitive and durable. It has a capacity of 255 pounds by 1 ounce; platform 12¾ x 13¾ inches with marble slab or tin or brass scoop. The beam is nickel plated.

No. 797. Capacity 1 ounce to 255 pounds; large tin scoop; weight 85 pounds.....each, **$40.00**

One in a box

AUTOMATIC COMPUTING SCALES

INDEPENDENT



The Independent No. 6 is the highest type of an automatic computing scale, very simple in construction and neat in appearance. It will stand the most critical examination and is covered by an absolutely reliable guarantee bond. All bearings are finest obtainable agate and pivots of highest grade carbonized steel. Vibrations of the computing chart may be regulated to suit requirements of operator by turning adjusting nut on top of dash pot; has capacity of 25 pounds, with price range from 4 to 40 cents, taking in six different fractions; computes to the full capacity without mental additions.

No. 6. Enameled solid turquoise blue with nickel plated rust proof trimmings; French plate glass platform 14½ inches diameter, ⅝ inch thick; height over all 34 inches; drum 11 inches diameter; counter space 18x22 inches; weight 140 pounds.....each, **$150.00**

One in a box

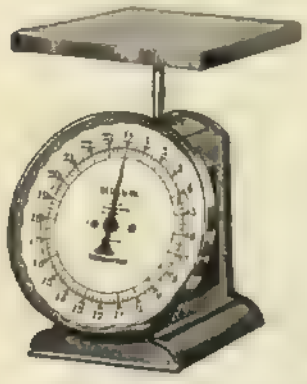
FAMILY SCALES

Black enameled cold rolled steel case, fancy ovaled, white enameled slanting dial; figures and lines in black, double upright supports, tin scoop heavily wired; brass adjusting screw.

No. 1070. With scoop; capacity 24 pounds by ounces. Weight 3½ pounds.....each, **$4.50**

Black enameled cold rolled steel case, fancy ovaled, white enameled slanting dial; figures and lines in black, double upright support, steel platform, ring collar, tin scoop heavily wired; brass adjusting screw.

No. 1050. With scoop; capacity 24 pounds by ounces. Weight 5 pounds.....each, **$4.50**



Blue enameled on one piece cold rolled drawn steel case and decorated in gilt; tile platform on removable steel post resting on mechanism; special hand made oil tempered springs, slanting white dial with black figures and markings, glass sash; indicator made of extra heavy spring steel and tapered to a needle point for quick reading.

No. 303. Without scoop; capacity 24 pounds by ounces; white tile platform 6x6 inches, weight 6 pounds.....each, **$4.50**

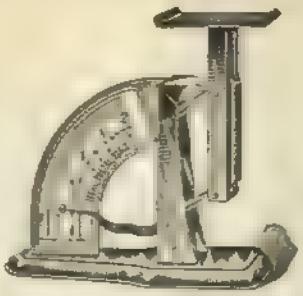
One in a box

Blue enameled on one piece cold rolled drawn steel case and decorated in gilt; tin scoop, tile platform on removable steel post resting on mechanism; special hand made oil tempered springs, slanting white dial with black figures and markings; glass sash; indicator made of extra heavy spring steel and tapered to needle point for quick reading.

No. 302. With tin scoop; capacity 5 pounds by ½ ounce; white tile platform 6x6 inches; weight 5½ pounds.....each, **$4.50**

One in a box

IDEAL POSTAL SCALES



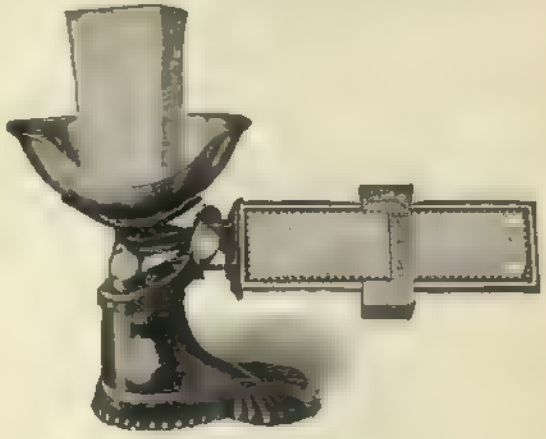
Instantly indicates in plain figures the exact cost of postage in cents on all classes of mail matter to all possessions of the United States, Canada, Mexico, Cuba, etc

Substantially built of the best cold rolled steel, and beautifully finished in black enamel.

Ideal. Capacity 2 pounds, graduated by ½ ounce; computes 2 cents per ounce for United States letters, 1 cent per ounce for merchandise, 1 cent per two ounces for printed matter, 1 cent per four ounces for newspapers; also foreign postage. Height 6 inches; width 4 inches; length 6½ inches; weight 16 ounces.....each, **$4.00**

One in a box

COMPUTING CANDY SCALES



PELOUZE

Shows the cost in cents of candy or any other merchandise from twenty cents to one dollar per pound; also gives accurate weight by one half ounce up to two pounds; complies with requirements of city sealers.

Superb. Capacity 2 pounds by ½ ounce; adjustable beam can be turned to any angle; nickel plated scoop and mountings; weight 5¼ pounds.....each, **$10.50**

One in a box

EVEN BALANCE SCALES

BUFFALO

Trip Scale with Scoop and Side Beam

Bright vermilion finish, with weights and tin scoop

No.	Capacity	Weight, Each	Each
580	¼ ounce to 6 pounds	20 pounds	$18.00
584	¼ ounce to 16 pounds	65 pounds	25.00

One in a box

CRABTREE & Co., LTD.

SHIPBUILDERS & ENGINEERS,

CONSTRUCTEURS NAVALS ET INGÉNIEURS INGENIEROS Y CONSTRUCTORES NAVALES,

Gt. YARMOUTH, ENGLAND.

Telephone / *Téléphone* / Teléfono } **46, GT. YARMOUTH.**

Code / *Code* / Código } **A.B.C. (5th Edition).**

Telegrams / *Télégrammes* / Telegramas } **"CRABTREE, GT. YARMOUTH."**

BUILDERS OF CARGO STEAMERS, (AC) TUGS, (EF) LAUNCHES, (IB) AND FISHING VESSELS. (OD)

CONSTRUCTEURS DE NAVIRES MARCHANDS À VAPEUR REMOQUEURS, CHALOUPES, ET BATEAUX DE PÊCHE

CONSTRUCTORES DE BARCOS MERCANTES, REMOLCADORES, LANCHAS Y BARCOS PESQUEROS

Four Berths up to 160 ft. in Length.

Quatre mouillage jusqu'à 49 m. de long. Cuatro muellajes hasta de 49 m. de largo.

VESSELS DELIVERED COMPLETE READY FOR SEA OR SHIPPED IN SECTIONS FOR RE-ERECTION.

Bateaux livrés complets prêts à prendre la mer ou expédiés en section pour remontage.

Entrega de barcos completos, listos para servicio ó exportados en secciones para su re-erección.

SHIP REPAIRERS.

RÉPARATIONS DE NAVIRES. REPARACIÓN DE NAVÍOS.

ALL COMMUNICATIONS TO BE MADE DIRECT TO GT. YARMOUTH.

Prière d'adresser toute correspondance directement à Gt. Yarmouth. Diríjase todas las comunicaciones directamente á Gt. Yarmouth.

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Sur la liste des fournisseurs des Ministères de la Marine et de la Guerre Britannique, et du Gouvernement des Indes.

En las Listas del Almirantazgo y Ministerio de la Guerra Británico y del Gobierno de la India.

BROOKE

Builders of LIGHT STEEL SHIPS. TUGS. BARGES. LIGHTERS.
COASTING STEAMERS up to 200 ft. KNOCK-DOWN CRAFT for export.
SHALLOW DRAUGHT VESSELS—Motor or Steam Propelled.

Constructeurs de Bateaux légers en acier. Remorqueurs. Barges. Chalands. Caboteurs jusqu'à 61 m. Bateaux à faible tirant d'eau, automobiles ou à propulsion par vapeur. Navires en section pour l'exportation.

Constructores de Barcos ligeros en acero. Remolcadores. Gabarras. Lanchones. Vapores costaneros hasta de 61 m. Navios de poco calado Impulsados á motor ó á vapor. Embarcaciones en piezas para la exportación

56 ft. WOOD STEAM TUG. AUX
Remorqueur à vapeur de 17 08 m auxiliaire
Remolcadores de madera, á vapor de 17 08 m

86 ft. STEEL DRIFTERS. SAIL
Caboteurs en acier de 26,23 m
Barcos de cabotaje en acero de 26 23 m

Also
MOTOR LAUNCHES.
WOOD TUGS.
PASSENGER BOATS.
MOTOR LIFEBOATS, ETC.

Egalement
Vedettes automobiles.
Remorqueurs en bois.
Bateaux pour passagers.
Canots de sauvetage automobiles.

Y también
Canoas automóviles.
Remolcadores de madera.
Barcos de pasajeros.
Botes salvavidas automóviles, etc

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FOURNISSEURS DE L'AMIRAUTÉ, DES AGENTS DE LA COURONNE, DU MINISTERE DE LA GUERRE, ETC.

CONTRATISTAS DEL ALMIRANTAZGO, AGENTES OFICIALES DE LAS COLONIAS, DEL MINISTERIO DE LA GUERRA, ETC.

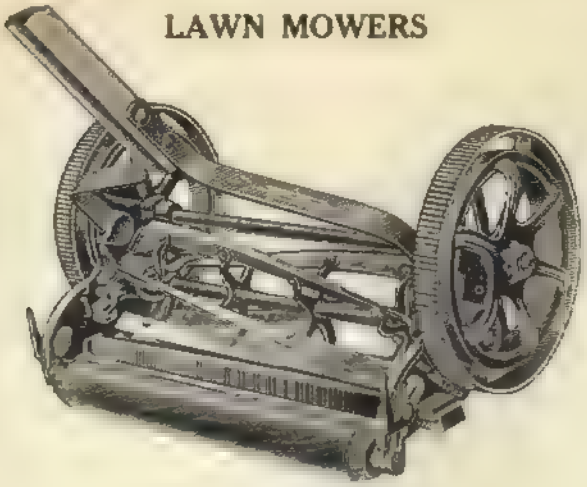
J. W. BROOKE & Co., Ltd., (ENGINEERS & SHIPBUILDERS)

ADRIAN WORKS,

LOWESTOFT.

Telegrams & Cables } "BROOKE, LOWESTOFT."
Code } A.B.C. (5th Edition) and Private.

LAWN MOWERS



NEW CRANBERRY

High Wheel, Ball Bearing

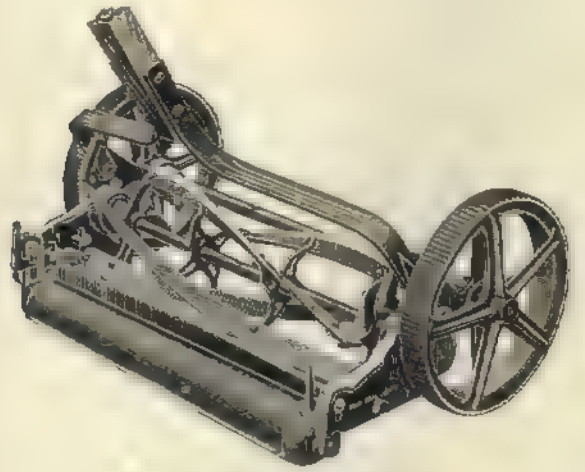
Special manganese steel reel knives, crucible steel cutter bar blade with a turned-up, hardened lip which makes it self-sharpening

Patented ball-bearing adjustment and extra strong ratchet clutch, with full length pins. Hardened steel dustproof balls, cups and cones. A strictly high grade mower with all the improvements to make it perfect and easy running. It is handsomely painted in attractive colors.

11 Inch Drive Wheels, 5¾ Inch Five Blade Reel

Width of cut, inches.....	14	16	18	20
Weight, pounds.....	78	82	86	92
New Cranberry. Each..	**$27.00**	**28.00**	**29.00**	**30.50**

One in a box



CUMBERLAND

High Wheel, Ball Bearing

Special manganese steel reel knives, crucible steel cutter bar blade. Ball-bearing adjustment and strong ratchet clutch.

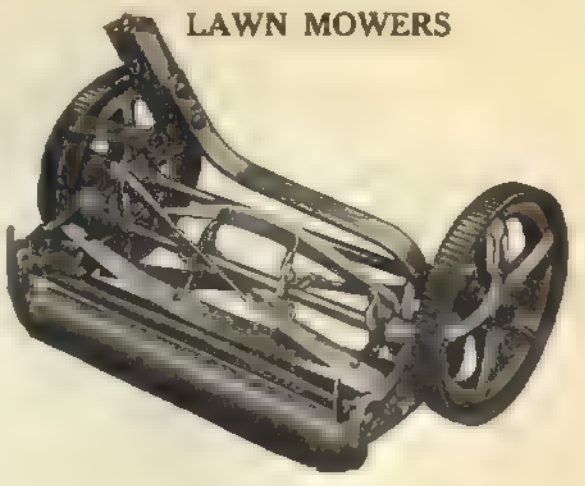
Hardened steel dustproof balls, cups and cones. Ball-bearing adjustment and strong ratchet clutch with full length pins. The cold rolled steel shaft makes for rigidity and durability. Painted attractively and decorated in gold.

9 Inch Drive Wheels, 5¾ Inch Four Blade Reel

Width of cut, inches.....	14	16	18
Weight, pounds.....	50	52	54
Cumberland. Each . .	**$18.50**	**19.00**	**19.70**

One in a box

LAWN MOWERS



CHEROKEE

High Wheel, Ball Bearing

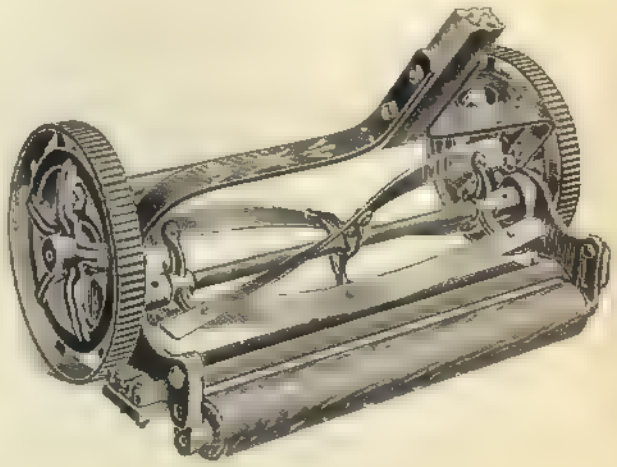
Special manganese steel reel knives, crucible steel cutter bar blade. Patented ball-bearing adjustment and extra strong ratchet clutch, with full length pins.

Hardened steel dustproof balls, cups and cones. Wheels are fitted with solid hubs and oil retaining chamber which permits the oil to circulate freely around the axles. Especially attractive in finish, being painted in green and fire copper bronze with aluminum striping

10 Inch Drive Wheels, 5¾ Inch Four Blade Reel

Width of cut, inches.....	14	16	18
Weight, pounds.....	68	70	73
Cherokee. Each.....	**$21.50**	**22.50**	**23.50**

One in a box



JACKSON

Parallel Adjustable Bearings

Selected knife steel reel knives and cutter bar blade, parallel adjustable bearings, direct drive gears, ratchets solid with pinion. Handsomely finished in aluminum and green, striped with aluminum.

8 Inch Drive Wheels, 4¾ Inch Three Blade Reel

Width of cut, inches.....	12	14	16
Weight, pounds.....	45	47	49
Jackson. Each.....	**$12.00**	**12.50**	**13.00**

One in a box

MOWING MACHINE REPAIR PARTS

SMOOTH KNIVES

No. 294AB. Deering steel head No. F123, 18 sections, 3x3⅜ inches, length 4½ feet, weight 7½ pounds .... each, **$5.90**
No. 294AD. Deering, steel head No. F123, 20 sections, 3x3⅜ inches length 5 feet, weight 8 pounds .... each, **6.30**
No. 5691E. McCormick, malleable head No. M139, 18 sections, 3x3⅜ inches, length 4½ feet, weight 7½ pounds .... each, **5.40**
No. 5691F. McCormick, malleable head No. M139, 20 sections, 3x3⅜ inches, length 5 feet, weight 8 pounds .... each, **5.90**

SMOOTH SECTIONS

Made from the best section steel, warranted and guaranteed in every particular.

Mower	Inches	Per 100
Champion	3x3⅜	$15.00
Deering	3x3⅜	15.00
Wood	3x3⅛	14.75
McCormick	3x3⅜	15.00

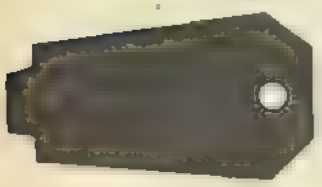
Weight per 100, 13 pounds

Twenty-five in a box

GUARDS

No.	Mower	Weight Each, Pounds	Each
D698	Deering	1	$0.50
M462	McCormick	1	.50

GUARD PLATES



No	Mower	Weight Per 100, Pounds	Each
D698	Deering	7½	$10.00
M462	McCormick	7½	10.00

WEARING PLATES

No.	Mower	Weight Per 100, Pounds	Per 100
D1038	Deering	30	$15.00
D1455	Deering	30	15.00
M468	McCormick	30	15.00
M490	McCormick	30	15.00

PITMAN STRAPS

Deering

No.	End	Each
D607	Box	$0.30
D893	Knife	.30
D894	Knife	.30

One of each D893 and D894 make a set

McCormick

No.	End	Each
M147	Knife	$0.30
M304	Knife	.30
M316	Box	.30

One of each M147 and M304 make a set

Two No. M316 make a set

KNIFE HEADS

Malleable Iron

No.	Machine	Each
D463	Deering	$0.80
M139	McCormick	.80

Weight each 2 pounds.

SECTION, GUARD AND PITMAN RIVETS

In ordering always give length and diameter or gauge of rivet and state whether bunghead or countersunk head is wanted, or give name, date and style of machine

Section Rivets. All sizes.... ..per pound, **$0.32**
Knife Head Rivets. All sizes.... ..per pound, **.32**
Guard Plate Rivets. All sizes.... ..per pound, **.32**

GUARD BOLTS

Deering

No.	Inches	Per 100
5	1¼ x 5/16	$6.00
5	1½ x 5/16	6.00

McCormick

3	1¼ x ⅜	$6.00
3	1½ x ⅜	6.00

PITMAN BOLTS

Deering Box End.... each, **$0.15**
Deering Knife End.... each, **.15**
McCormick Box End.... each, **.15**
McCormick Knife End.... each, **.15**

PITMAN BOXES

No. D608. Deering.... each, **$1.00**
No. M317 McCormick.... each, **.80**

WOOD PITMANS

Deering. Each.... **$2.50**
McCormick. Each.... **2.50**

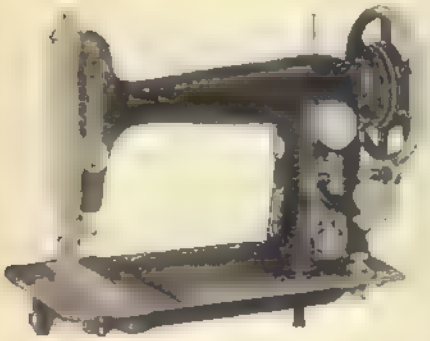
KNIFE CLASPS

No.	Mower	Each
D467	Deering	$0.20
M463	McCormick	.20

SEWING MACHINES

The sewing machines illustrated and described under our own special brands are manufactured especially for us by the recognized makers of high grade sewing machines. Every machine is accompanied by a ten year guarantee certificate, which we, as well as the manufacturers, will stand back of; this guarantee protects both you and your customers from any possible defect in the material, sewing qualities and workmanship of these machines.

Description of Style L Head



Style L

A high grade head of the lock stitch type, with vibrating shuttle movement and long, self threading shuttle. It is fitted with a square foot motion feed, devoid of any springs, and equipped with all up-to-date appliances and improvements, such as automatic bobbin winder, loose pulley stop motion and capped needle bar. Needles are interchangeable with the Free, Singer, VS Nos. 27 and 66 machines. Has the shortest take-up combined with a link movement, giving perfect thread control. Needle bar is enclosed from view. The toggle link needle bar drive is very powerful, making the machine strong and accurate in its work. Full high arm provides sufficient open space for the bulkiest work. Disc tensions insure an even adjustment of stitch, is automatically released by raising presser bar, allowing removal of work without breaking the thread. Finished in three coats of black enamel, hand rubbed and richly decorated. Steel parts nickel plated.

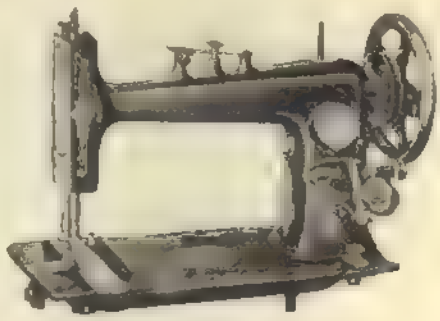
CRANBERRY

Equipped with Style L Head

The case is full quarter sawed oak, thoroughly hand rubbed. Highly polished, golden oak finish; swell panel front, drop head with steel bar automatic lift; six crescent shaped drawers, with wood knobs and steel drawer slides. Latest improved ball bearing French leg stand; ball bearing pitman, treadle and high balance wheel combine to make this a very light running machine. Griest attachments and a set of accessories furnished with this machine; also a ten year certificate of guarantee.

Cranberry. Equipped with Style L head; weight crated 145 pounds.....each, **$60.00**

Description of Style K Head



Style K

This head is of the lock stitch type, vibrating shuttle movement with long, self threading shuttle. The size of the stitch is regulated by an adjusting device placed on the bed of the machine just beneath bobbin winder. Tension device is placed on top of the arm. The needle is short, strong and self setting, interchangeable with the Free, Singer, VS Nos. 27 and 66 needles. Has automatic head latch, bed plate stitch regulator, large especially reinforced self threading shuttle, etc. Head is 5½ inches high under the arm; enameled in black and decorated in colors. Steel parts nickel plated.

CHEROKEE

Equipped with Style K Head

A neat case of solid oak, with veneered lid. Finished in a high luster or gloss polish. Panel front. The stand is of the ribbon French leg design, with long steel ball bearing pitman, high drive wheel, cone bearing treadle, drop head, four drawers, fitted with steel drawer locks; requires no keys for the drawers. A complete set of Griest attachments and a set of accessories furnished with this machine; also a ten year certificate of guarantee.

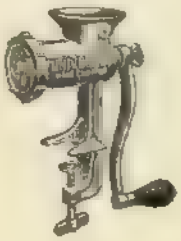
Cherokee. Equipped with Style K head; weight crated 135 pounds.....each, **$51.75**

For sewing machine motors, see page 797

MEAT AND FOOD CHOPPERS

UNIVERSAL

Cast iron one piece frame, spiral feed screw, crucible steel four bladed knife. Concave blades insure razor like cutting edge, extra long handle gives a greater leverage, regular plate has ⅜ inch hole, extra plates to be had with ⅛, ¼, ⅜, ½, ⅝ inch holes, except No. 323, tinned, all parts interchangeable with chopper having same size barrel.



No. 323

No. 323. With screw clamp for large family; chops 2½ pounds per minute; size of hopper 3x4 inches, with knife cutter and plate ⅜ inch holes; weight 5 pounds ..... each, **$4.00**

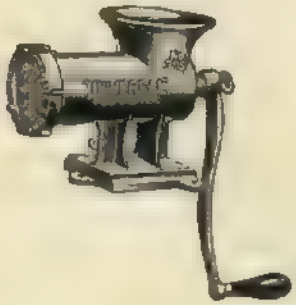
No. 333. For hotel and market, chops 3 pounds per minute size of hopper 4x5 inches, with knife cutter and plate, ⅜ inch holes, weight 9¼ pounds ..... each, **6.25**

Six in a cas

No. 331

No. 331. With detachable base plate; for hotel and market, chops 3 pounds per minute; size of hopper 4x5 inches, with knife cutter and plate; ⅜ inch holes; weight 11 pounds. each, **$5.75**

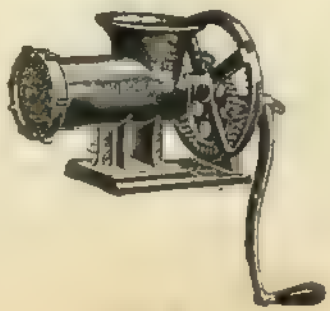
Six in a case



No. 305

No. 305. With detachable base plate; for hotel or market, chops 5 pounds per minute; size of hopper 6x7 inches, with knife cutter and plate; ⅜ inch holes; weight 27 pounds..... .....each, **$12.75**

Three in a case



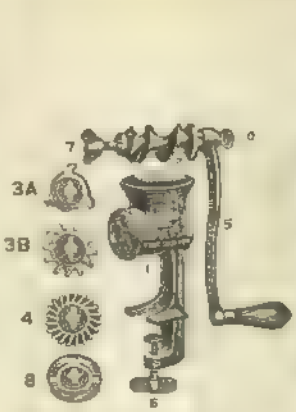
No. 345

No. 345. Geared, with detachable base plate and geared wheel; for hotel or market; chops 5 pounds per minute; size of hopper 6x7 inches, with knife cutter and plate; ⅜ inch holes; large gear wheel 8¾ inches diameter; cylinder 6x7 inches; weight 32 pounds.....each, **$20.00**

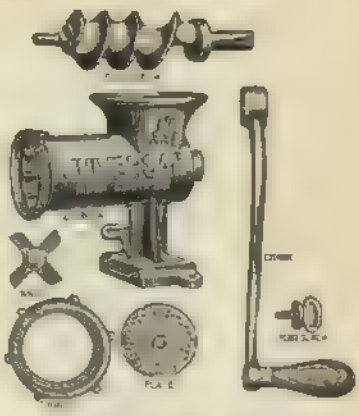
One in a case

MEAT AND FOOD CHOPPER PARTS

UNIVERSAL



Food Chopper Parts For Nos. 0 to 3



Meat Chopper Parts For Nos. 323 to 345

Extras for Nos. 0 to 3 Food Choppers

For Choppers Nos. . . .		0	1	2	3
1	Body . . . . each,	$1.00	1.25	1.50	2.00
2	Feed screw .....each,	.45	.75	.75	1.00
3A	Coarse cutter .....each,	.20	.20	.20	.30
3B	Medium cutter .....each,	.20	.20	.20	.20
3C	Fine cutter each,	. .	..	.	.30
4	Pulverizer .....each,	.20	.20	.20	.30
5	Crank complete .....each,	.25	.30	.30	.35
6	Clamp screw .....each,	.15	.15	.15	.20
7	Thumb nut .....each,	.10	.10	.10	.10
8	Nut butter grinder.....each,	...	.20	.20	...
10	Handle screw .....each,	.10	.10	.10	.10
11	Stuffing attachment, per doz.,	...	...	7.80	9.00

Extras For Nos. 323 to 345 Meat Cutters

For Choppers Nos.....		323	331	333	305	345
1	Body .....each,	$2.60	3.00	3.50	7.25	7.25
2	Feed screw.....each,	1.10	1.60	1.60	4.00	4.00
3	Knife .....each,	.50	.60	.60	.80	1.10
4	Plates, ⅛ to ½ inch.....each,	.60	1.10	1.10	2.20	2.20
	Plates, ⅝ inch.....each,	1.40	1.75	1.75	3.10	3.10
	Plates, ⅔ inch.....each,	3.00	4.00	4.00	13.50	13.50
5	Ring .....each,	.60	.80	.80	1.75	1.75
6	Crank .....each,	.60	.75	.75	1.35	1.35
7	Thumb screw.....each,	.25	.30	.30	.35	.35
	Clamp screw.....each,	.45	...	.45		
8	Stud .....each,	.50	.55	.55	.90	.90
9	Base plate.....each,	...	1.10	...	1.60	4.00
10	Base plate thumb screw. each,		.40		.40	.40
	Large gear.. . each	.		.		3.50
	Small gear.....each,	.	.		.	2.50
	Stuffing attachment ¾ in., each,	1.10	1.20	1.20	1.50	4.50
	Stuffing attachm't 1¼ in., each,	...	1.40	1.40	1.75	1.75

FRUIT AND LARD PRESSES

BRIGHTON

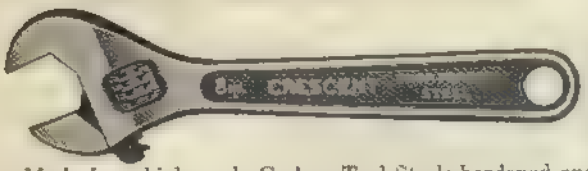
Tinned all over. Simple in construction, easily taken apart and cleaned and practically unbreakable. Screw, side arms, all parts subject to strain are made of steel. Is a simple quick acting press for making jellies, fruit syrups, wines, tinctures, lard, cheese, etc.

Nos.	4	10
Capacity, quarts	4	10
Weight, pounds.....	27	52
Each	$6.00	9.00

No. 4, four; No. 10, one in a case

WRENCHES

CRESCENT ADJUSTABLE WRENCHES

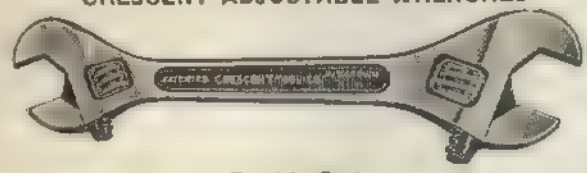


Made from high-grade Carbon Tool Steel; hardened and toughened by special heat-treating process; movable jaw can be adjusted with same hand holding wrench and operated from special alloy steel of great strength and durability; a small spring washer acts with slight friction of the thumb-screw to retain automatically the adjustment of the wrench when dropped; handsome nickel-plated finished.

Size, Inches	Capacity, Ins.	Weight	Each
4	½	2 oz	$0 80
6	¾	5 oz	80
8	15/16	10 oz	1 00
10	1 1/16	18 oz.	1 25
12	1 5/16	2 lbs.	1 00
15	1 11/16	4 lbs. 5 oz.	2 00
18	2 1/16	7 lbs.	3 00

One in a box. Second class freight.

CRESCENT ADJUSTABLE WRENCHES

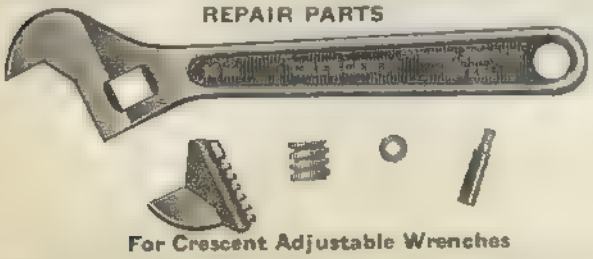


Double End

High-grade Carbon Tool Steel; hardened and toughened by special heat-treating process; each head is turned so as to fit hand nicely; parts are interchangeable with Crescent Single-End wrenches. Designed for use where weight and space are important.

Size, Inches	Capacity, Ins.	Weight	Each
6 and 8	¼ and 15/16	11 oz.	$1 25
8 and 10	15/16 and 1½	19 oz	1 50

REPAIR PARTS



For Crescent Adjustable Wrenches

Size, Inches	No. 2 Jaw	No. 3 Thumb Screw	No. 4 Pin	No. 5 Spring
4	$0 25	$0 10	$0 05	$0 05
6	.25	.10	05	05
8	.30	.12	05	05
10	.40	15	05	05
12	.50	20	.10	.05
15	.60	25	.10	05
18	80	30	.10	.05

Open stock. Second class freight.

EAGLE CLAW WRENCHES

Does the work of all wrenches; holds round, square, oblong, hexagon and other shaped objects firmly; will take hold of anything that has any surface at all

No. 30—Eagle Claw Wrench; 7-in.; special auto or motorcycle wrench ..... Each $1 50

No. 50—Eagle Claw Wrench; 10-in.; ..... Each 2 00

One in a box. Second class freight.

AUTOMOBILE STILLSON WRENCHES

For use on fine machinery or automobile parts, especially for use on motors of every description; drop forged from tool steel; serrated movable steel jaws hardened hard to

Size, Inches	Takes Round Part	Lgth., Open	Wgt., Each	Each
10	⅛ to 1 -in.	10-in.	.1 -lb	$2 50
12	¼ to 1¼-in.	12-in.	1 1 -lb	3 00

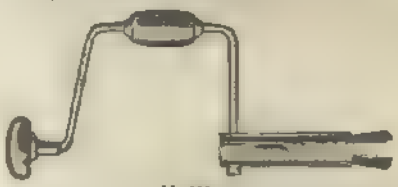
SEXTO RENCH

Made of steel 1-10 inch thick; wrenches are highly polished and nickel plated all over and present a beautiful appearance; are especially useful in connection with magnetos, coils, valve tappets and many bolts and nuts around an automobile

Sexto Rench; will handle 12 sizes as follows: 3/32-in., ¼-in., 5/32-in., 3/16-in., 11/64-in. ... in., 1 -in., 5/16 in., 11/32-in., 3/8-in., 13/32-in., 7/16-in., 15/32-in., ½-in. ... wgt. ¼ lb.... Per Set $0 75

One set in box. Second class freight.

UNIVERSAL WRENCH SETS



Utility

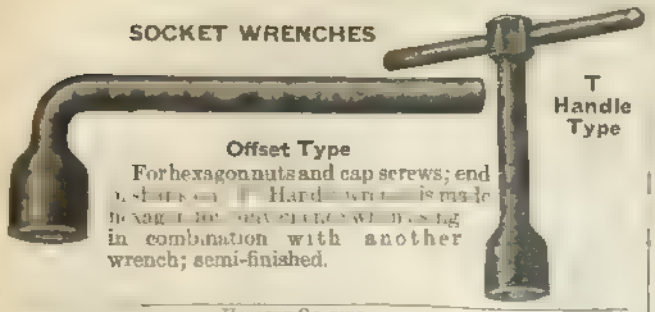
Has all advantages of socket wrench set consisting of sixteen sockets; will grasp any nut instantly; will take hexagon nuts, 5/16-inch to ⅞-inch inclusive; square nuts, ¼-inch to 15/16-inch inclusive; barrel of best high grade cold rolled tubing; jaws drop-forged and case hardened. Each

Utility Universal Wrench Set; complete with handles $3 50

One set in canvas bag. Second class freight.

WILLIAMS WRENCHES

SOCKET WRENCHES



Offset Type

For hexagon nuts and cap screws; end [illegible] Hardened [illegible] is made to engage [illegible] in combination with another wrench; semi-finished.

Number		Hexagon Opening For Bolt	For Cap Screws	Short Depth	Diameter Head	Semi-Finished	
Offset Type	T Handle Type					Offset Pattern	T Pattern
263D	963D					$7 [illegible]	$0 [illegible]
264D	964A						
265D	965D						
266D	966D						
267D	967D						
269A	969A						
270S	970S						
270D	970D						
271A	971A						
273A	973A						
275A	975A						

TAPPET WRENCH SETS

[illegible] sets of four [illegible] handle [illegible] and thin [illegible] wrenches efficient in adjusting valve tappets; invaluable time saver for this work.

No.	Openings Milled	For Cap Screws	
623T			
623T			
626T			
626T			
629T			
629T			
629E			
629E			
No. 50	Set	List Price of Roll $7.5 extra	

ENGINEERS' DOUBLE HEAD WRENCHES

Drop forged from best quality crucible tool steel, perfectly hardened and tempered; semi-finished; i. e., tempered and heads polished.

Nos.	U. S. S. Nuts, Bolt Sizes	Width Openings, Inches	Length Over All, Inches	Each
21				$0 17
23				
25				
27				
29				
31				
33				
35				
37				

CHECK NUT OR THIN WRENCHES

For check, jam or lock nuts; drop forged from best quality crucible tool steel; perfectly hardened and tempered; semi-finished; i. e., tempered and heads polished.

Nos.	Bolt Sizes	Width Openings, Inches	Length Over All, Inches	Each
623				$0 [illegible]
625				
627				
629				10
631				10
633				10

CAP SCREW WRENCHES

Drop forged from best [illegible] crucible tool steel, perfectly [illegible] and tempered, semi-finished; i. e., tempered and heads polished

Nos.	For Hexagon Head Cap Screws; Diameter Screws	Opening, Milled Inches	Extreme Length	Each
721				$1 17
723				
725				
725S				25
727				31
729				37
731				45
731B				45
733				57
735				68

WRENCH SETS

No. 10 WRENCH SETS

For severe automotive service; no duplication of openings; semi-finished.

No.	S. A. E. Standard Nuts	For U. S. Std. Nuts and Bolts	Cap Screws; Diam.	Openings Milled	Extreme Length	Each
721						$ [illegible]
23						
725A						
27						
729						
731B						
32						
33C						
737						
38						
No. 10	Set					$5 [illegible]

No. 6 WRENCH SETS

Openings milled for nut measurement instead of bolt as set is especially adapted for use on carriage, wagons and agricultural implements; semi-finished.

No.	Openings Width	Length	Extreme Length	Each
75A				$0 27
77				34
79C				43
81A				55
83B				70
No. 6	Set	Price of Roll $4. extra		$2 [illegible]

Crescent Adjustable Wrenches

This is the genuine Crescent wrench in polished finish.

No.	Size Inches	Capacity Inches	Weight Each	Each
A16	6	¾	5 oz.	$0.65
A18	8	1	10 oz.	.80
A110	10	1⅛	18 oz.	1.25

Adjustable Automobile Wrenches

Fluted drop forged bar, rounded edges, case hardened, black finish.

No.	18
Length, in.	9
Opens, in.	2⅛
Thickness of bar, in.	⅝
Weight each, oz.	14
Each	$0.55

Bicycle Wrenches

A first class wrench for the bicycle and for small adjustments around the auto.

No. A1 Length 5 in., opens 1¼ in., thickness of jaw ⅛ in., depth of jaw ⅛ in., bright finish....each, $0.35

Han-D Hammers

One of the most practical tools on the market. Useful around the automobile, in the garage and workshop and should be in the tool box of every mechanic.

It is nickel plated and polished all over. Measures 7½ in. long and weighs 10 oz. Head of hammer is a good grade of steel.

Three good serviceable screwdrivers of different sizes are nested inside the handle. The blades of the screwdrivers are made of high grade tool steel and all parts are nickel plated and polished.

With every unit package of 10 Han-D hammers a handsome display card is furnished free.

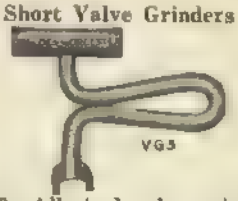
Han-D Hammers ..... each, $1.50

Adjustable Valve Grinders

This brace type adjustable valve grinder is instantly adjustable to all valve taps, whether slotted or drilled. Its simplicity of construction and directness of action from hand to work, results in a sensitiveness that experienced users will appreciate. Length over all, 16 in.

No. 60.....each, $1.00

Short Valve Grinders



No. VG3 All steel valve grinder. The original wire handle valve grinder redesigned with ⅝ in. bar handle which swivels on cone bearing. Sockets are shaped to fit valve heads and fitted with hardened steel pins ....each, $0.55

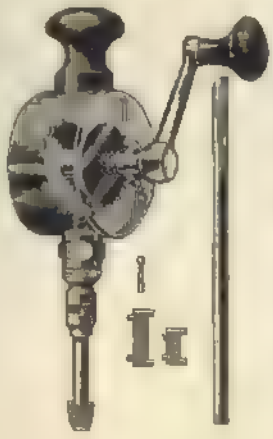
Ten in a Box

Long Shank Brace Grinders

No. VG2 Long Shank Brace Grinder. Some garage men prefer the brace grinder in place of short grinder VG3, a specially desirable tool for all garages. Length of shank, 11 inches. Size of sweep 9 inches.....each, $0.88

Ten in a Box

Sioux Valve Grinders



The hand grip is close to the crank center, thereby relieving the valve of the sidestrain that tends to cause irregularities in cutting.

Easy action is attained through ball bearings, and serviceability and durability by use of the best material and accurate workmanship.

By continuous movement of the handle in one direction, the valve is given a reciprocating motion, always traveling slightly forward in one direction, then in the opposite.

No. 400.....each, $7.00

One in a Box

Valve Grinders

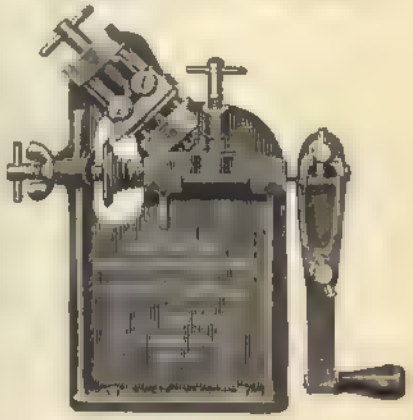
Little Sioux

Designed for individual use and is especially adapted for grinding Ford and other small valves.

Has ball bearings throughout, insuring easy action and less wear. Well balanced and has perfect stroke. Made of the best materials.

No. 401 Complete with six interchangeable driving points .$3.50

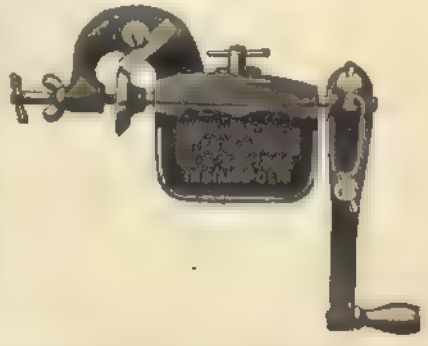
Universal Bench Valve Lathes



A simple, rugged, accurate and efficient lathe, with that real lathe action so necessary for many valves with steel heads. It will insure a smooth, non-carbon collecting surface and a perfect concentric fit. Has a capacity of valves with 45° or 30° heads up to 2½ in. diameter heads and ⅜ in. stems.

Universal Bench Lathe..... each, $15.00
Extra cutters..... each, 1.20

Junior Valve Lathes



For Ford valves and other valves with valve heads of cast iron or of ordinary hardness.

Outfit is light, compact, is easily clamped in vise or held in one hand and operated with other, and it cuts quickly and easily.

It requires no skilled machinist to operate and it saves time, yet produces a complete job.

Lathe complete with high speed steel cutter ready for use.

	Each
Junior	$7.50

SIOUX STANDARD VALVE TOOLS

Pat. Feb. 17, 1914; Nov. 26, 1918.

The SIOUX Valve Tool Set illustrated here is complete enough to take care of practically all the jobs that an average garage or auto repair shop is likely to get.

Sioux Valve Seat Reamers reface valve seats with the same dispatch, accuracy, smoothness and general satisfaction that the Sioux Valve Refacing Tool refaces the valves. The Standard Set is made in 45 degree angle only

No. 300—Price complete.....$28.50

Refacing Tool

Pat. Feb. 17, 1914; Nov. 26, 1918.

The construction and operation of this device is very simple. The cutter is made of the best kind of Tungsten Steel, hardened and tempered to stand hard service. It locks into your vise and is ready for use in an instant. One cutter only is furnished as regular equipment.

No. 304—Price with 45 degrees.....$7 25
No. 301—30 degree cutter..... 1 25
No. 302—45 degree cutter..... 1.25
No. 303—60 degree cutter..... 1.25

Valve Re-seating Reamer Seater Heads

Prices and Sizes

No. 100—1½ inch.....$3.50
No. 101—1⅝ inch..... 3 50
No. 102—1¾ inch..... 3 50
No. 103—1⅞ inch..... 3.50
No. 104—2 inch..... 3 50
No. 105—2⅛ inch..... 3.75
No. 106—2¼ inch..... 3.75
No. 107—2½ inch..... 3.85
No. 108—2⅝ inch..... 4 25
No. 109—2¾ inch..... 4.50
No. 110—2⅞ inch..... 5.00
No. 111—2⅛ inch..... 5.25
No. 112—3 inch..... 5.75
No. 113—3⅛ inch..... 6.00
No. 114—3¼ inch..... 6.25
No. 115—3⅜ inch..... 6 75
No. 116—3½ inch..... 7 00
No. 117—3⅝ inch..... 7.50
No. 118—3¾ inch..... 7.75
No. 119—3⅞ inch..... 8.10
No. 150—4 inch..... 8.50

Unless specified, all seater heads will be 45 degrees; 30 and 60 degree angles made special at the above price.

Pilot Stems

No. 120—⅛ inch.....$1.25
No. 121—⅜ inch..... 1.25
No. 122—½ inch..... 1.25
No. 123—⅝ inch..... 1.25
No. 124—½ inch..... 1 25
No. 125—⅞ inch..... 1 25
No. 126—⅝ inch..... 2.00
No. 127—1⅛ inch..... 2 00
No. 128—¾ inch..... 2.00
No. 129—1⅛ inch..... 2.00

Beardsley Universal Valve Lifters

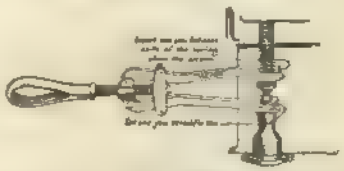
For All Cars

The Universal Lifter is made strong and durable with adjustable feature which will fit 90 per cent. of all makes of motors with removable head, valve in head or pocket, styles T. L. & I. With the adjustable feature and the size this makes a practical lifter for the mechanic who works on all makes of cars.

The foot is formed to fit the spring seat with large enough opening to eliminate all chance of hooking on the pin in the valve stem.

Universal Valve Lifters.....each, $2.50

Vichek Valve Lifters



Drop forged. The sliding cam increases the leverage as the valve spring is compressed and allows quick action with greatest ease.

No. 814..... each, $2.00

Victory Piston Ring Compressors

Adjustable tool can be arranged to fit rings from 2 to 5⅞ inches in diameter. Can be used on all type motors. Handles stamped from high quality steel. The adjustable band is in one piece from special grade steel.

Each..... $2 00

Valve Spring Releases

Pressed steel, japanned. Ratchet holds in whatever position it is left. Can be used on practically any type of motor, affording quick adjustment and easily operated.

No. 201.....each, $0.65

Chain Valve Spring Releases

Will fit any motor. The lever has a narrow fork at one end and a wide one at the other to accommodate valves having split washers or pins to hold the spring on the stem.

No. 200.....each, $0.75

Cady Piston Ring Compressors

Entirely automatic. No adjustments necessary. Fits all sizes from 2¾ to 4½ in. diam. Draw compressor over lower end of piston, place piston in cylinder and pressure on top of piston closes rings as they enter cylinder. White nickel finish.

Each.....$5.00

Codes used
Code Codigos
A.B.C. 5th Edition
Engineering
Scott's
Marconi Internatl.
Own Private.

Head Office:
Adresse
Direccion
17/19, Cockspur Street,
London, S.W. 1.

85 FT. STEEL STEAM TUG
REMORQUEUR DE 16,75 M., EN ACIER, A VAPEUR
REMOLCADOR DE ACERO DE 16,75 M., A VAPOR

Specialists in the Design and Construction of Shallow Draft Vessels, Steam and Motor Barges, Pontoons, Yachts, Stern Wheelers, Tugs, Ferry-boats, Launches, Lifeboats, Coasters, etc.

All types of Commercial Craft for Re-erection Abroad

32 FT. STEEL LAUNCH
BATEAU DE 9,75 M., EN ACIER, À MOTEUR, POUR NAVIGATION FLUVIALE
BUQUE DE ACERO Á MOTOR, DE 9,75 M., PARA LA NAVIGACIÓN FLUVIAL

SPECIALITÉS de plans et constructions de vaisseaux à faible tirant d'eau, Chalands à vapeur et à moteur, Pontons, Yachts, Remorqueurs Vapeurs à roue arrière, Trans-bordeurs, bateaux fluviaux, bateaux de sauvetage, de cabotage, etc., de tous genres.

Tous types d'embarcations commerciales démontables pour l'Etranger

45 FT. STEEL PASSENGER LAUNCH
BATEAU FLUVIAL POUR PASSAGERS, DE 13,70 M., EN ACIER
VAPOR FLUVIAL DE PASAJEROS EN ACERO DE 13,70 M.

Especialistas en los diseños y construcciones de barcos á fondo chato de agua. Lanchas á vapor y á motor, Pontones, Yachts, Remolcadores, Barcas á ruedas posteriores, vapores de transbordo, buques fluviales, buques salvavidas, de cabotaje, etc., de toda clase.

Todos los tipos de embarcaciones [illegible] reconstrucción en el extranjero

A FEW OF THE CRICHTON STANDARD VESSELS.

QUELQUES TYPES DE VAISSEAUX "CRICHTON." ALGUNOS TIPOS DE BUQUES DEL MODELO "CRICHTON."

Steel Motor Barge.
For sea or river service.
Fitted with extremely simple reliable motor.

300 H.P. Steel Screw Tug.
With C.S.C. engines
Class 100 A1 Lloyds.

Wood Motor Lifeboat.
To Board of Trade requirements.

Steel Steam Coaster.
With C.S.C. engines
for 160 tons D.W.

Chaland en acier, à moteur,
Pour le service maritime ou fluvial muni de moteur extrêmement sûr & très simple

Remorqueur à hélice, à vapeur, de 300 H.P.
Muni de machines C.S.C.
Classe 100 A1 Lloyds

Canot automobile de sauvetage en bois
[illegible] prescriptions & règlements du Board of Trade

[illegible] en acier
Muni de machines C.S.C. pour [illegible] de tonnes

	DIMENSIONS	Code Word *Mot de Code* Código
Chalanas de acero á motor	32 9 4 6	SLOUA
Para servicio marítimo [illegible]	35 10 5 0	SLARE
[illegible]	46 11 6 15 6	SLOTE
Remolcador de hélice, á vapor, de 300 H.P.	75 × 18 9 6	STAPE
Equipado con máquinas C.S.C.		
Clase 100 "A1" Lloyd		
[illegible] automóvil salvavidas, de madera	28' × 9' 2" × 3' 9"	8.52 × 2.80 × 1.15 BLANE
Con [illegible] las prescripciones y reglamentos del "Board of Trade"		
Construcciones de acero.	93 × 18 6 × 9 6	SCABA
[illegible] C.S.C. para [illegible] toneladas D.W.		

Contractors to the War Office, Admiralty, India Office
On List of Crown Agents to the Colonies

Fournisseurs du Ministère de la Guerre de l'Amirauté, du Gouvernement des Indes. Agents de la Couronne pour les Colonies.

Proveedores de Ministerio de la Guerra, Almirantazgo Oficina de la India. Agentes de la Corona para las Colonias.

CRICHTON

[illegible]

See also Shipbuilding, Dredgers, Etc., Section.

CONTRACTORS TO WAR OFFICE
ADMIRALTY India Office, etc
On list of Crown Agents to the Colonies.

Entrepreneurs de travaux pour le Ministère de la Guerre, l'Amirauté, les [illegible] de l'Inde etc
Sur la liste des agents de la Couronne pour les Colonies

Contratistas del Ministerio de la Guerra
Almirantazgo, Oficina de la India, etc.
Agentes de la Corona para las Colonias.

SHIPBUILDERS & ENGINEERS

J. CRICHTON & Co.

SALTNEY SHIPYARD — CHESTER

ENGLAND.

HEAD OFFICE:
Siège Principale
Casa Matriz
17/19, Cockspur St., London, S.W. 1

CODES USED *Codes* Codigos
A B C (5th Edition)
Engineering
Scott's
Marconi International.
Own Private.

150 ft Shallow-draft Stern Wheel Tug under construction.
Remorqueur de 45,70 m à faible tirant d'eau et roue arrière en construction
Remolcador de 45,70 m. á poco calado y ruedas posteriores en construcción.

124 ft Steel Steam Barge.
Chaland à vapeur en acier de 37 m 80 cm
Chalana de acero á vapor de 37 m. 80 cm

Steel Steam Screw Tug
Remorqueur en acier à vapeur à hélice
Remolcador de acero á vapor y á hélice

A FEW OF THE CRICHTON STANDARD VESSELS.

		Code.
470 Ton d.w. Steel Steam Coaster with C.S.C engines ... ... Class 100 A1 Lloyds	143' × 24' × 12'	SCAFE
600 Ton d.w. Shallow Draft Cargo Steamer with T.E. engines .. Class Bureau Veritas	170' × 28' × 12	SCUFA
700 Ton d.w. Steel Steam Coaster with T.E. engines ... ... Class 100 A1 Lloyds.	166' × 28' × 13' 9"	SCENU
500 I.H.P. Steel Screw Tug with C.S.C. engines Class 100 A1 Lloyds	97' 6" × 21' × 11' 6"	STEBA

See also Small Steamers, Motor Boats, Etc., Section.

COASTERS TUGS YACHTS BARGES LAUNCHES STERN-WHEEL STEAMERS & SHALLOW-DRAUGHT VESSELS

ALL TYPES OF COMMERCIAL CRAFT FOR RE-ERECTION ABROAD.

Caboteurs, Remorqueurs, Yachts, Chalands, Vapeurs à roue-arrière et Vaisseaux à faible tirant d'eau
Tous [illegible] de Bateaux [illegible] pour l'étranger.

Costaneros, Remolcadores, Yachts, Chatas, Chalanas, Vapores á ruedas posteriores y barcas á poco calado
Todos los tipos de buques especiales para armarse en el extranjero.

CRICHTON

One of twenty 24 ft Steel Towing Barges recently built.
Une [illegible] remorque en acier de 37 m. 80 cm récemment construit
Chalana [illegible] de acero de 37 m. 80 cm. recientemente construida.

135 ft Single Screw Steel Tug
Remorqueur de 41 m en acier à hélice simple.
Remolcador de acero de 41 m. con una hélice

Oil Carrying Motor Coaster
Caboteur à moteur pour le transport de l'huile
Costanero á motor para el transporte de aceite

[illegible] TYPES DE NAVIRES "CRICHTON"

		Code
Caboteur à vapeur en acier de 470 tonnes [illegible]	4,25 × 7,30 × 3,65 m.	SCAFE
Bateau [illegible]	52 × 8,5 × 3,65 m	SCUFA
Caboteur à vapeur en acier de 700 tonnes [illegible]	50,5 × 8,5 × 4,28 m.	SCENU
[illegible]	29,71 × 6,40 × 3,50 m.	STEBA

ALGUNOS TIPOS DE LOS NAVIOS DEL MODELO "CRICHTON."

		Código.
Costanero de acero á vapor de 470 toneladas [illegible]	4,25 × 7,30 × 3,65 m	SCAFE
Vapor [illegible]	52 × 8,5 × 3,65 m.	SCUFA
[illegible]	50,5 × 8,5 × 4,28 m.	SCENU
[illegible]	29,71 × 6,40 × 3,50 m.	STEBA

Voir également la Section Petits Vapeurs, Canots Automobiles Etc
Véase también la Sección Vaporcitos, Botes Automóviles Etc

PRIESTMAN BROTHERS, LTD.,

HOLDERNESS FOUNDRY, HULL,

3, Laurence Pountney Hill, LONDON, E.C. 4.

PRIESTMAN
GRAB HOPPER
DREDGER
as supplied to
26
GOVERNMENTS
and
PORT
AUTHORITIES.

Many repeat orders.

(B)

Dragas "Priestman" con Canasto vertedor como las suministradas á 26 Gobiernos y Juntas de puerto. (Muchos pedidos repetidos.)

DRAGUE À TRÉMIE À BENNE "PRIESTMAN" TELLE QUE NOUS L'AVONS LIVRÉE À 26 GOUVERNEMENTS ET ADMINISTRATIONS DE PORTS.

De nombreuses commandes répetées.

PRIESTMAN
GRAB-
DREDGER
for
cleansing Rivers,
Canals and Narrow
Waterways.

Nearly 100 supplied.

(OD)

Draga-canasto "Priestman" para el dragado de Ríos, Canales, y Vías Fluviales estrechas. Cerca de 100 suministradas.

DRAGUE À BENNE "PRIESTMAN" POUR LE NETTOYAGE DES RIVIÈRES, DES CANAUX ET DES VOIES D'EAU ÉTROITES.

Près de cent livrées.

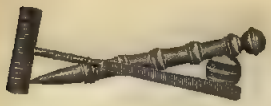
Telegrams:
Télégrammes:
Telegramas:
"Priestman, Hull."
"Priestman, London."

ALSO AT
MIDDLESBROUGH, GLASGOW and CARDIFF.

Codes:
Codes:
Códigos:
A.B.C. (5th Edition)
Bentley's Phrase.

Next Page 3431

CROQUET SETS



High Grade Rock Maple Balls, Hand Turned, Beaded, Bronzed and Ebonized, Finished in Genuine Shellac; Mallet Heads 10 in. Long, 27 in. Handles; Balls Perfectly Round; Two Large Beaded, Four Color Stakes, Beautifully Striped and Bronzed; Ten Heavy Galvanized Arches.

Per Set

No. W3428A—Professional, 4 Ball Set. $10.00

Weight 19 Lbs. Set

Professional Pattern; Hard Maple, Full Varnished and Handsomely Striped; Mallet Heads 8 in. Long, 27 in. Handles; Two Large Colored Stakes; Ten Heavy Galvanized Arches.

Per Set

No. W3428B—8 Ball Set; Weight 25 Lbs. $8.00
No. W3428C—6 Ball Set; Weight 20 Lbs. 6.80
No. W3428D—4 Ball Set; Weight 18 Lbs. 5.30

Rock Maple Balls and Mallets; White Maple Handles; Balls, Mallets and Handles Nicely Painted, Striped and Varnished; Beaded Mallets, 5 in. Heads, 27 in. Handles; Two Large, Eight Colored Stakes; Ten Galvanized Arches.

Per Set

No. W3428E—8 Ball Set. $6.50

Weight 22 Lbs. Set

Rock Maple Balls; Rock Maple, Beaded and Painted Mallets, 5 in. Heads, 27 in. Handles; All Parts Varnished; Two Eight Colored Stakes; Ten Polished Iron Arches

Per Set

No. W3428F—8 Ball Set. $5.40

Weight 29 Lbs. Set

Rock Maple Balls, Stakes and Mallets; Balls and Stakes Varnished; Beaded and oiled Mallet Heads, 5 in. Long, 27 in. Handles; Ten Polished Steel Arches.

Per Set

No. W3428H—8 Ball Set; Weight 20 Lbs $4.50
No. W3428J —6 Ball Set; Weight 16 Lbs 4.00

Rock Maple Mallets; Stakes and Balls Varnished; Beaded and oiled Mallet Heads, 5 in. Long, 27 in. Handles; Ten Polished Steel Arches.

Per Set

No. W3428K—4 Ball Set. $3 00

Weight 12 Lbs. Set

Each Set in Dove-Tailed, Hinged Cover Wooden Box, with Book of Instructions; Three Sets in Crate

PLAYING CARDS

CONGRESS

Full Enameled, all Linen Paper Stock, Gilt Edges; Artistic series of Backs in rich, attractive Colors

Dozen Packs

No. 3428L—Congress, Assorted Designs; Half Dozen (all Different Backs) in Carton. $13.00

Weight 3¼ Lbs. Dozen

BICYCLE

High Quality Linen Paper Stock; Air Cushion Finish, Enameled; Each Pack in Tuck Case with Sealed Flap.

Dozen Packs

No. 3428M—Red or Blue Backs. $10.00

One Dozen Packs in Carton

Weight 2¾ Lbs. Dozen

STEAMBOAT

Good Quality; Plain Edges; Medium Hard Finish; Each Pack in Tuck Case.

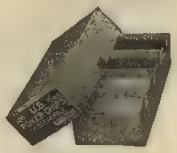
Dozen Packs

No. 3428N—Popular Backs. $6.00

One Dozen Packs in Carton

Weight 2½ Lbs. Dozen

POKER CHIPS



COMPOSITION

Smooth Finished Edges; Packed 100 in Box, Assorted, 50 White, 25 Red and 25 Blue; Shipped Assorted unless otherwise specified.

Per Hundred

No. 3428R—Plain; Diam. 1⅝ in. $2.40

Weight 1¾ Lbs. Hundred

AMERICAN FLAGS

OLD GLORY FLAG SETS

Fast Colored Cotton Cloth; Well Sewed; Canvas Heading and Brass Teeth Grommets; Full number of Stars; Two Piece Wood Pole with Socket; Very convenient for carrying or setting.

Nos.	3428T	3428V
Size, Ft.	3x5	4x6
Length Pole, Ft.	6	7
Diam., In.	¾	1
Each	$2.20	3.40

One Complete Set in Carton

Weight 2½ Lbs. Each

No. 3428W—WOOL BUNTING

Made of Fine Wool Bunting; Seams are Double Stitched; Hems made with Interlining of Strong Tape; Canvas Headings and Grommets; Full Number of Stars, placed according to Government regulations.

Size, Ft.	3x5	4x6	5x8
Weight Each, Lbs.	¾	1	1¾
Each	$5.00	7.00	11.00
Size, Ft.	**6x10**	**8x12**	**10x15**
Weight Each, Lbs.	2¼	3¾	6
Each	$15.00	24.00	36.00

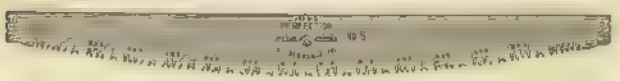
Larger Sizes can be Furnished for Shipment from Factory; Prices on Application

No. 3428X—BUNTING

Made of especially Woven Bunting which has the appearance of Wool; Fast Colors; Sewed Stripes, Double Stitched on both sides; Heavy Canvas Heading; All Seams Double Stitched; Complete number of Stars Sewed on both sides, (except two smallest sizes).

Size, Ft.	2x3	3x5	4x6	5x8	6x10
Wt. Each, Lbs.	1	1	2	2½	3
Each	$2.20	3 50	4.40	6.50	8.80

ATKINS CROSSCUT SAWS



SILVER STEEL, PERFECTION TOOTH

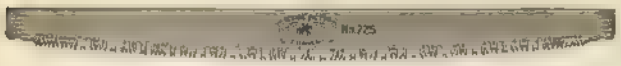
Silver steel, segment ground, 14 gauge on toothed edge, 20 gauge at center of back, 17 gauge on ends on back edge; width 6¼ to 8¼ in. at center, 3¼ in. at ends.

Length, ft.	5	5½	6	6½	7
Weight, lb.	4½	5	6¾	7¾	8
No. 5. Each	**$10.18**	**11.96**	**13.74**	**16.08**	**17.46**

SILVER STEEL, PERFECTION TOOTH

Silver steel, segment ground, 14 gauge on tooth edge, 16 gauge on back at ends; especially adapted for hardwood.

Length, ft.	5	5½	6	6½	7
Weight, lb.	4½	5	6¾	7¾	8
No. 553. Each	**$10.18**	**11.96**	**13.74**	**16.08**	**17.46**



VICTOR, PERFORATED TOOTH

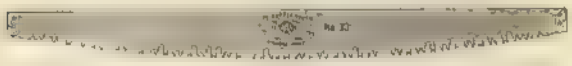
Special steel, perforated tooth, thin back, graduated from 14 to 18 gauge.

Length, ft.	5	5½	6	6½	7
Weight, lb.	4½	5½	6¾	7¼	8
No. 225. Each	**$9.76**	**10.74**	**11.72**	**12.70**	**13.60**

DIAMOND TOOTH

Special steel, diamond tooth, thin back, graduated from 14 to 18 gauge

Length, ft.	5	5½	6	6½	7
Weight, lb.	4¾	5¼	6½	7¼	9
No. 222. Each	**$8.24**	**9.08**	**9.90**	**10.72**	**11.54**



TUTTLE TOOTH

Special steel, Tuttle tooth, thin back, graduated from 14 to 18 gauge

Length, ft.	5	5½	6	6½
Weight, lb.	5	6	6½	7
No. 331. Each	**$7.70**	**8.46**	**9.24**	**10.00**

Special steel, Tuttle tooth, thin back, graduated from 14 to 20 gauge.

Length, ft.	5½	6	6½
Weight, lb.	6	6½	7
No. 332½. Each	**$9.70**	**10.56**	**11.40**

SIMONDS CROSSCUT SAWS

CHAMPION TOOTH

Simonds crucible steel, hardened, tempered and polished Crescent ground. Has five gauges taper from the middle of the saw to the back, and two gauges taper from the ends of the saw to the back.

Length, ft.	5	5½	6	6½	7
Weight, lb.	5¼	6¼	7½	8½	9½
No. 13. Each	**$10.40**	**12.00**	**14.00**	**16.20**	**18.40**

PERFORATED LANCE TOOTH

Simonds crucible steel, hardened, tempered and polished. Crescent ground. Has five gauges taper from the middle of the saw to the back, and two gauges taper from the ends of the saw to the back.

Length, ft	5	5½	6	6½	7
Weight, lb.	5¼	6¼	7½	8½	9½
No. 22. Each	**$10.40**	**12.00**	**14.00**	**16.20**	**18.40**

PERFORATED TOOTH

Simonds crucible steel, hardened, tempered and polished. Crescent ground. Has five gauges taper from the middle of saw to the back, and two gauges taper from the ends of the saw to the back.

Length, ft.	5	5½	6	6½	7
Weight, lb.	4¾	5	5¾	6½	7¼
No. 133. Each	**$10.40**	**12.00**	**14.00**	**16.20**	**18.40**

BAY STATE PERFORATED TOOTH

Spring temper, perforated tooth, 14 x 18 gauge

Length, ft.	5	5½	6	6½	7
Weight, lb.	5	6	7	8	9
No. 206. Each	**$9.00**	**10.28**	**11.18**	**12.00**	**13.80**

FELLING SAWS

Simonds crucible steel, hardened, tempered and polished. Crescent ground. Has five gauges taper from the middle of saw to the back and two gauges taper from the ends of saw to the back, perforated tooth.

Length, ft.	5	5½	6	6½
Weight, lb.	4½	5	5½	6
No. 328. Each	**$10.40**	**12.00**	**14.00**	**16.20**

BAY STATE NARROW CROSSCUT SAWS

Spring tempered, perforated tooth

Length, ft.	5	5½	6
Weight, lb.	3¾	4¼	4¾
No. 214. Each	**$5.60**	**6.10**	**6.60**

ATKINS NARROW CROSSCUT SAWS

VICTOR LANCE TOOTH

Hollow back, high grade special steel

Length, ft.	5	5½	6
Weight, lb	3¼	3¾	4
No. 386. Each	$5.22	5.74	6.26

DIAMOND TOOTH

Hollow back, high grade special steel

Length, ft.	5	5½	6	6½
Weight, lb.	4¼	5½	5¾	6
No. 384. Each	$4.68	5.14	5.60	6.06

TUTTLE TOOTH

Hollow back, high grade special steel

Length, ft.	5	5½	6	6½
Weight, lb.	3½	3¾	4	4¼
No. 379. Each	$4.40	4.84	5.28	5.72

ONE MAN CROSSCUT SAWS

ATKINS

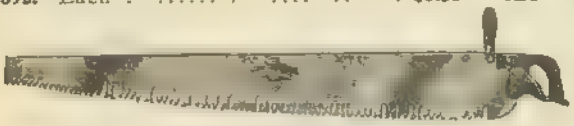
Tuttle tooth, special steel, beech handle, four saw screws, supplementary handle.

Length, ft.	3	3½	4
Weight, lb	2½	3	3½
No. 390. Each	$4.62	5.38	6.16

ATKINS

Victor tooth, special steel, beech handle, four saw screws, supplementary handle.

Length, ft.	3	3½	4
Weight, lb	2½	3	3½
No. 392. Each	$5.36	6.26	7.14



SIMONDS

Lance tooth, crucible steel, beech handle, three saw screws, supplementary handle.

Length, ft.	3	3½	4
Weight, lb.	3¼	4	4¾
No. 222. Each	$5.40	6.00	6.80

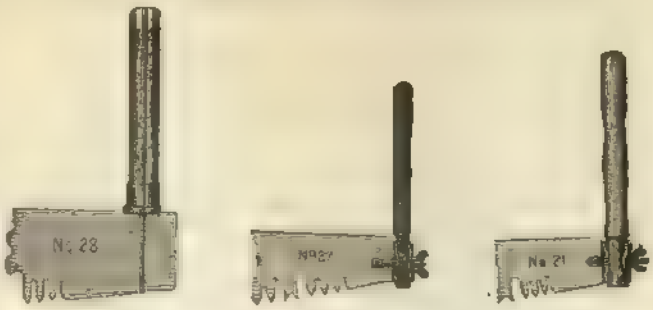
ATKINS ICE SAWS

High grade special steel, malleable iron handle, aluminum bronze finish.

Hand Ice Saws. Length of blade 28 in., weight per doz., 40 lb. .....per dozen, **$46.20**

One half dozen in a package

ATKINS CROSSCUT SAW HANDLES

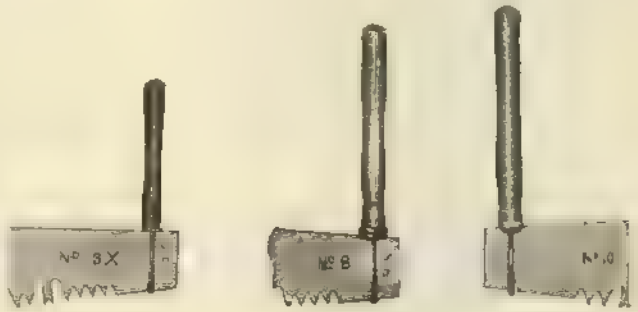


No. 28 **No. 22** **No. 21**

No. 28. Selected hardwood, 8 in. long, steel loop extended through handle and into pressed steel ferrule on the end. Capacity 2¾ to 4½ in.; weight per pair 1⅜ lb.....per pair, **$1.26**

No. 22. Big bolt pattern, selected hardwood, 14 in. long; extra strong machine made steel bolt, extra large ring nut, extra heavy malleable clasp and washer, japanned black, weight per pair 1⅝ lb... .....per pair, **1.10**

No. 21. Climax pattern, selected hardwood, 14 in. long, reversible, cast steel clasp and washer, malleable bolt with lock rivet feature, weight per pair 1½ lb. .....per pair, **.70**



No. 13X **No. 8** **No. 10**

No. 13X. Selected hardwood, 10 in. long, high tensile strength, steel loop, spot electric welded, malleable socket, case hardened face, weight per pair 1⅜ lb. ..... per pair, **$0.77**

No. 8. Selected hardwood, 10 in. long. Loop of steel, spot electric welded, japanned black, malleable nuts, weight per pair 1¾ lb.....per pair, **.85**

No. 10. Selected hardwood, 9½ in. long, cast steel socket and washer, loop of high tensile strength cold drawn steel, spot electric welded, weight per pair 1½ lb. .....per pair, **.60**

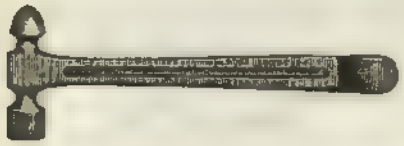
No. 2 One Man **No. 0 Supplementary**

No. 2 One Man. Selected hardwood, varnished edges, slit but not bored, weight per doz., 6 lb. .per dozen, **$5.50**

No. 0 Supplementary. Seasoned stock, steel socket and ferrule, malleable bolt with lock rivet, weight per doz., 3½ lb. .....per dozen, **4.50**

One dozen in a box

COMBINATION AUTO TOOLS



Extra quality solid forged steel head and handle in one piece, with lower end shaped as a tire tool for removing tire from rim. Fluted handle, 10¾ in. long over all, head 3¾ in. long. Dull black finish with polished face and ball pein.

No. 2120—Size 2-0, w't each 1⅝ lbs., w't per doz. 17½ lbs., per dozen $9.00

HALF DOZEN IN A BOX

VANADIUM NAIL HAMMERS

VAUGHN'S "UNCLE SAM," made of special Vanadium steel, heat treated and tempered for greatest possible toughness and strength. Inspected and Approved by the Underwriters Laboratories, Inc. Bell face, octagon neck, round poll, with special white hickory octagon neck handle. Each handle has a wax-hole in end for waxing nails to be driven into hardwood. Wedged with patent expansion wedge, which permits re-tightening of handles. Handles are protected by a waxed paper envelope, and hammers packed one in a carton.

Nos.	41	41½	42
Size	1	1½	2
Length over all, in.	14	13	12½
W't, less handle, oz.	20	16	13
W't per doz., lbs.	22	20	15
Per dozen	$34 80	34.80	34.80

ONE IN A CARTON. HALF DOZEN IN A BOX

MAYDOLE NAIL HAMMERS

Extra quality forged crucible steel, plain poll, regular claw, with shellaced handles of select hickory.

Nos.	101	101½
Factory Nos.	1	1½
Length, over all, in.	13¾	13
W't, less handle, oz.	20	16
W't per doz., lbs.	20	18
Per dozen	$26.00	24.00

HALF DOZEN IN A BOX

Extra quality, forged crucible steel, bell face, regular claw, polished, with shellaced handles of select hickory.

Nos.	111	111½	112	112½	113
Factory Nos.	11	11½	12	12½	13
W't, less handle, oz.	20	16	13	10	7
Length, over all, in.	13¾	13	12⅝	11¾	..
W't per doz., lbs.	20	17	14	12	8
Per dozen	$26.00	24.00	22.50	21.00	20.00

HALF DOZEN IN A BOX

MAYDOLE RIPPING HAMMERS

Extra quality, forged crucible steel, bell face, straight claw, polished, with shellaced handles of select hickory.

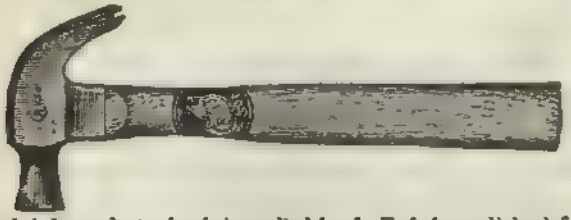
No. 711½—W't, length over all 13 in., less handle 16 oz., w't per doz. 18 lbs. .....per dozen $24.00

HALF DOZEN IN A BOX

CRUSO HAMMERS

Under our Cruso Brand we offer a line of good quality, forged steel Hammers, suitable for all ordinary purposes, and which will be found highly satisfactory for use around the farm, house or shop. While Cruso Tools are neat and attractive in appearance, they have not the high finish or superior grade of handles used in our [redacted] or HIBBARD tools. Every Cruso Hammer is a surprising value for the price we ask.

PLAIN POLL NAIL



Solid forged steel, plain poll, **black finish,** polished face and claw.

Nos.	041	041½
Length, over all, in.	13	16
W't, less handle, oz.	20	13
W't, per dozen, lbs.	22	18
Per dozen	$11.00	10.00

Solid forged steel, plain poll, **polished finish,** good grade hickory handle.

No. 01½—W't less handle 16 oz., length, over all, 13 in., w't per doz. 18 lbs. .....per dozen **$16.00**

HALF DOZEN IN A BOX

BELL FACE NAIL

Solid forged steel, bell face, **black finish,** polished poll and claw.

Nos.	051½	052	053
Length, over all, in.	13	12½	11½
W't less handle, oz.	16	13	7
W't per doz., lbs.	18	14	10
Per dozen	$10.00	9 50	9.00

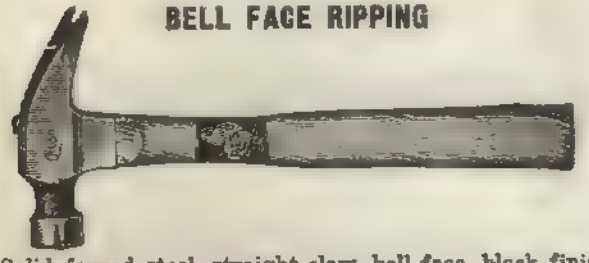
HALF DOZEN IN A BOX. WE DO NOT BREAK BOXES

Solid forged steel, bell face, **polished finish,** black neck, good grade hickory handle.

No. 011½—W't less handle 16 oz., length, over all, 13 in., w't per doz. 18 lbs. .....per dozen **$16.00**

HALF DOZEN IN A BOX

BELL FACE RIPPING



Solid forged steel, straight claw, bell face, black finish, polished poll and claw.

No. 151½—W't less handle 16 oz., length, over all, 13 in., w't per doz. 18 lbs. ..... .per dozen **$10.00**

HALF DOZEN IN A BOX. WE DO NOT BREAK BOXES

MACHINISTS'

Solid forged steel, ball pein, **octagon pattern, polished finish, except black necks,** good quality hickory handle.

Nos.	0371	0372	0373
Sizes	000	00	0
Length, over all, in.	12	12	14
W't less handle, lbs.	¾	¾	1
W't per doz., lbs.	10	13	16
Per dozen	$8.00	9.00	10.00

Solid forged steel, ball pein, round pattern, **natural black finish, except polished ball and face, hickory handle.**

Nos.	0374	0375	0376	0377	0378
Sizes	1	2	3	4	5
Length, over all, in.	15½	16	16	17	17½
W't less handle, lbs.	1¾	1¾	1¾	2	2¼
W't per doz., lbs.	21	24	27	30	33
Per dozen	$13.50	14.50	15.50	16.50	17.50

NOS. 0371, 0372 AND 0373, HALF DOZEN; OTHERS THIRD DOZEN IN A BOX. WE DO NOT BREAK BOXES

BLACKSMITHS' OR ENGINEERS'

Solid forged steel, cross pein, octagon face, natural black finish, except polished face, hickory handle.

Nos.	0281	0282	0283
Length, over all, in.,	15	15	16
W't less handle, oz.	32	42	48
W't per doz., lbs.	30	39	46
Per dozen	$16.00	18.00	20.00

THIRD DOZEN IN A BOX. WE DO NOT BREAK BOXES

COOLER STANDS

Black japanned, height 29 in., 5/16 in. tempered steel legs, 1¾ in., heavy steel stop band, stamped steel top, glass holder with drain tube.

Nos.	T121	T122	T123
Diam. top, in.	14	16½	19½
W't each, lbs.	14	14	15
Each	$6.00	6.70	7.00

ONE IN A CASE

WATER FILTERS

Will hold 11 qts. of water in each compartment, and will filter 8 gals. of water daily.

No. T8—Enameled steel upper and lower vessels, blue enameled outside, white enameled inside, stone filtering disc, nickel plated faucet, capacity 11 qts. each, diam. 11½ in., height 17¾ in., w't 23 lbs., each $13.70

STONEWARE WATER FILTERS

CRUSO, glazed, gray stoneware with blue stripe, natural Tripoli filter disc. This filtering stone is regarded by science as the very best filtering medium known.

Anything contained in the water is arrested upon the extreme surface of the filter disc, from which it may be removed by brushing. The stone remains white and pure.

Nos.	T61	T62	T63
Disc., in.	7	8½	9
Cap. top, qts.	5	9	12
Cap. bot., qts.	7	12	17
Cap. filter, per day, gal.	2to4	3to5	4to8
W't, lbs.	25	30	40
Each	$8.00	9.60	10.70

Nos.	T64	T66
Disc., in.	10	11
Cap. top, qts.	17	24
Cap. bot., qts.	21	30
Cap. filter, per day, gal.	6to10	10to15
W't, lbs.	45	55
Each	$13.40	16.00

ONE IN A CRATE

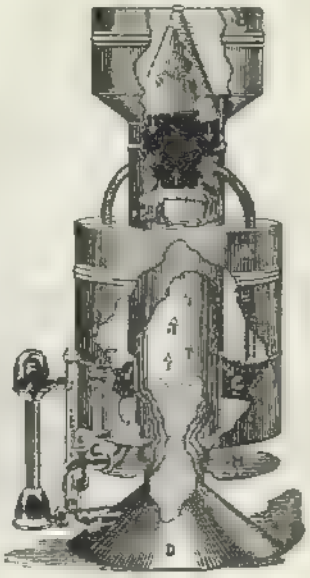
ICE CHAMBERS AND COVERS

For converting Nos. 61 to 66 filters into combination filters and coolers.

Nos.	061	062	063	064	066
For No.	61	62	63	64	66
W't, lbs.	4½	5	5½	8	11
Each	$1.10	1.40	1.60	1.80	2.00

ONE IN A BOX. W'T 25 LBS.

WATER STILLS

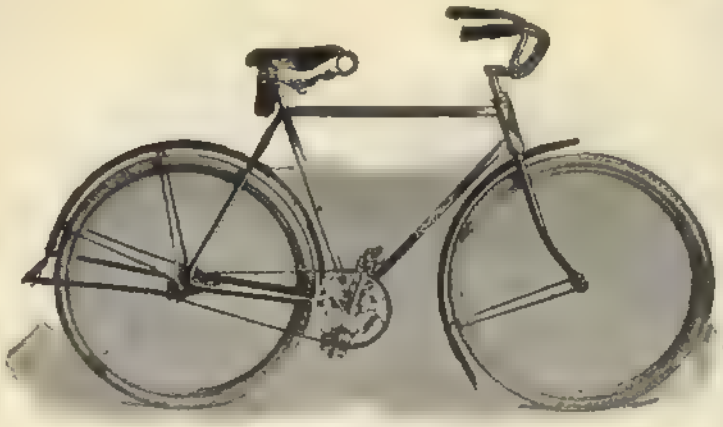


In operation vessels A and B are filled with cold water. Set still on fire, just like an ordinary tea kettle, and in a very short time pure, aerated distilled water will collect in reservoir C. The water feeds automatically from supply reservoir A to boiling chamber D, and when water has reached proper height, it is shut off by automatic valve at F. Gauge E indicates height of water in boiling chamber and gauge G shows distilled water in reservoir C.

NOTE—Deflector H prevents heat from stove or boiling chamber striking distilled water reservoir to drive off oxygen.

No. T11—Rose Automatic, heavy copper, nickel plated outside, all parts exposed to water are block tin lined, height 25 in., diam. of bottom 10½ in., capacity ½ gal. per hour, each $72.00

MEN'S BICYCLES



CUMBERLAND

Frame—22 inches. Made from 1 inch steel.
Fork—Forged; enameled to match frame.
Crank Hanger—One piece and oil tempered.
Front Hub—Turned from bar steel, nickel plated and polished
Coaster Brake—Morrow.
Wheels—28 inches, non-skid single tube tires.
Pedals—No. 1 rubber.
Handle Bars. No. 6, 22 inches wide.
Saddle—Bon-Ton.
Stand—Enameled to match frame.
Mud Guards—Front and rear, enameled to match frame.

No. 10. Cumberland. Blue with aluminum head.. ..each, **$48.00**
No. 20. Cumberland. Black with red head....each, **48.00**
Tool Bag and Tools. Extra **1.50**

BOYS' BICYCLES

CHEROKEE BOYS'

Frame—17 inches. Made of 1 inch steel tubing.
Fork—Forged; enameled to match frame.
Crank Hanger—One piece and oil tempered.
Coaster Brake—Morrow
Wheels—26 inches, non-skid single tube tires.
Pedals—No. 2 rubber.
Saddle—Juvenile suspension.
Handle Bars—Schinneer, 16 inches.

No. 200. Cherokee Boys'. Blue with aluminum head .....each, **$45.00**
Tool Bag and Tools. Extra..... **1.50**

GIRLS' BICYCLES

CHEROKEE GIRLS'

Frame—17 inches. Made of 1 inch steel tubing.
Fork—Forged; enameled to match frame.
Crank Hanger—One piece and oil tempered.
Coaster Brake—Morrow.
Wheels—26 inches, non-skid single tube tires
Pedals—No. 2 rubber.
Saddle—Juvenile suspension.
Handle Bars—Schinneer, 16 inches.

No. 300. Cherokee Girls'. Blue with aluminum head .....each, **$46.00**
Tool Bag and Tools. Extra.... .. **1.50**

Each bicycle paper wrapped, one in a crate

VELOCIPEDES

CLEVELAND TUBULAR BALL BEARING

Built Like a Good Bicycle Throughout

Frame is made of cold rolled seamless steel tubing; joints brazed, and strongly reinforced. Wheels have cold rolled steel rims, bicycle hubs, spokes and nipples. Ball bearing wheels and pedals. Rat trap bicycle pedals. Bicycle saddle, with adjustable saddle post. Adjustable handle bar, made of steel tubing, and equipped with leather wound grips. Frame is finished in dark blue bicycle enamel, baked on, handsomely striped. Handle bar, head fittings, saddle post, fork crown, hubs, spokes, nipples, cranks and pedals are nickel plated.

Nos.	31	32
Each	$16.50	20.00
Front wheel, diameter, inches	16	20
Rear wheels, diameter, inches	10	14
Long reach from saddle, inches	18	20½
Short reach from saddle, inches	16½	19½
Weight, pounds	25	30

One in a crate

STANDARD

Triangle steel frame, narrow tread; tinned steel wire wheels, with steel tires fitted with ½ inch round rubber tires; adjustable handle bars, fitted with black enameled wood grips with nickel plated ferrules; vulcanized fibre saddle over stamped steel frame, shaped to insure comfort. Frame black enameled, baked on, wheels red.

Nos.	1R	2R	3R
Each	$6.00	6.75	8.00
Front wheel, diameter, inches	16	20	24
Rear wheels, diameter, inches	12	14	16
Long reach from saddle, inches	20	22	24
Short reach from saddle, inches	17	19	21
Weight, pounds	18	22	24

Three in a case

JUVENILE AUTOMOBILES

CLEVELAND

Sheet steel body and hood with steel rod turned under edge on upper edge of body. All steel frame and gears. Frame reinforced with steel cross members supporting body and gears, standards of elliptic spring design. Rigid front axle with forged steel knuckle joints. Hardwood seat, wood dash and radiator. Ratchet starting crank. Equipped with radiator cap, steel pedals, 6 inch diameter steering wheel, steel wire ball bearing wheels, steel tires, nickeled hub caps and ½ inch diameter round rubber tires; body and hood red, with yellow and black striping; gears and wheels black enameled, baked on; without lamps or horn, which are extra

No.	500½
Each	$15.00
Body, inches	13 x 30
Wheels, diameter, inches	10
For children, years	3 to 5
Weight crated, pounds	35

One in a case

PIEDMONT

Sheet steel body and hood, sheet steel seat back, selected hardwood girders under body; hardwood radiator, dash and seat; frame reinforced by cross members; steel gears; standards of elliptic spring design; rigid front axle, with forged steel knuckle joints. Equipped with steel bumper, nickel plated; ratchet starting crank, nickel trimmed radiator, radiator cap, adjustable nickel plated windshield, wood rim steering wheel 8½ inches diameter, tubular steering post, upholstered seat, tool box and luggage carrier; steel fenders and running board; ball bearing wheels, with ¾ inch rubber tires; nickeled hub caps. Body and hood vermilion, gold and black striping; fenders, running board and gears black enameled, baked on; wheels black enameled, baked on, black and white striping. Without lamps or horn, which are extra.

No.	620¾
Each	$95.00
Body, inches	14 x 50
Wheels, diameter, inches	14
For children, years	5 to 8
Weight crated, pounds	120

One in a crate

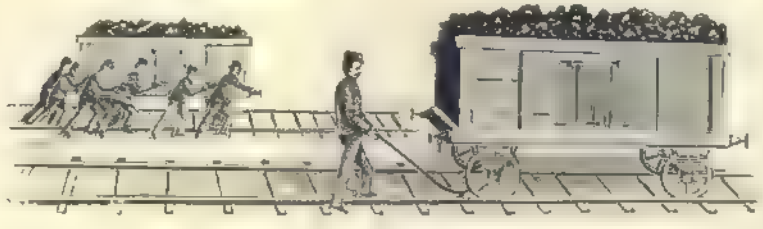
"THE CYCLOPS"
RAPID RAILWAY WAGON PROPELLER.

[PATENTED.]

"Le Cyclops"
Propulseur Rapide de Wagons de Chemins de Fer.
(Breveté.)

"The Cyclops"
Impulsor Rápido para Vagones de Ferrocarril.
(Patentado.)

OLD STYLE.



This invaluable tool can be worked by a youth. It will move locomotives or the heaviest wagons rapidity long.

Saves calling a number of men from their work.
Supersedes Horses or Switch Engines.

The heel has lugs downwards at both sides to hold it firmly in position as it slides along the rails, and to prevent it slipping sideways. When the pressure is released, a steel spring lifts the bit off the rail to save wear. The bits have three sharp edges, and may be turned as they get dull. A spare bit and spring are supplied with each Propeller.

FWO OPINIONS.

"It is better than a Switch Engine as it is always ready and does the work."
"It is the best thing I have come across and worth five times its cost to me."

LARGE NUMBERS ALREADY IN USE.

"MAJELLA"
RAIL AND GIRDER SAW.

FOR HAND POWER.

Scie "Majella"
Pour Rails et Poutres,
A Bras

"Majella"
Sierra para Railes y Vigas,
Para ser Accionada á Mano

INVALUABLE TO RAILWAYS, TRAMWAYS, GAS WORKS, CONTRACTORS, ENGINEERS, Etc.

Will cut Railway Rails, Tramway Rails, Joists, Channels, Angles, etc.
It takes 14-in. Power Blades and makes a clear cut of 9 ins. at one setting.
It is portable and can be moved and operated by one man.

DISTINCTIVE FEATURES:—
Accurate Cut, no Trimming required.
Economy in Blades, due to perfect alignment with provision for wear.
Speedy Adjustment for a wide Variety of Work.

IT IS SUBSTANTIALLY BUILT OF CAST IRON WITH GIRDER PARTS OF STEEL BUT CAN BE MADE, IF DESIRED, IN MALLEABLE IRON

Seuls Propriétaires — **SOLE PROPRIETORS—** Unicos Propietarios—

R. & J. RANKIN, Manchester Street, LIVERPOOL.

Telegraphic Address: "FOUNDRY, LIVERPOOL." **Code:** ABC, 5th Edition **Telephone:** 2103 CENTRAL

Double Prepared Railway Carriage Roofing, "CALEDONIAN" BRAND

In response to the demand for a Roofing to withstand the trying and varied conditions of a tropical climate we have introduced **"Caledonian" Brand Double Prepared Roofing,** which has been severely tested in actual use and has been found to give the utmost satisfaction

It is made on scientific principles from genuine materials, and is admitted to be the best Roofing on the Market.

This Roofing is made in lengths up to 150 feet and widths up to 15 feet in **Seamless Pieces.**

It is easily, and should be lightly, yet firmly, stretched into position on the roofs, and then tacked down under the eaves.

NO BEDDING MATERIAL WHATSOEVER IS NECESSARY.

The Roofs are complete when "Caledonian" is used.

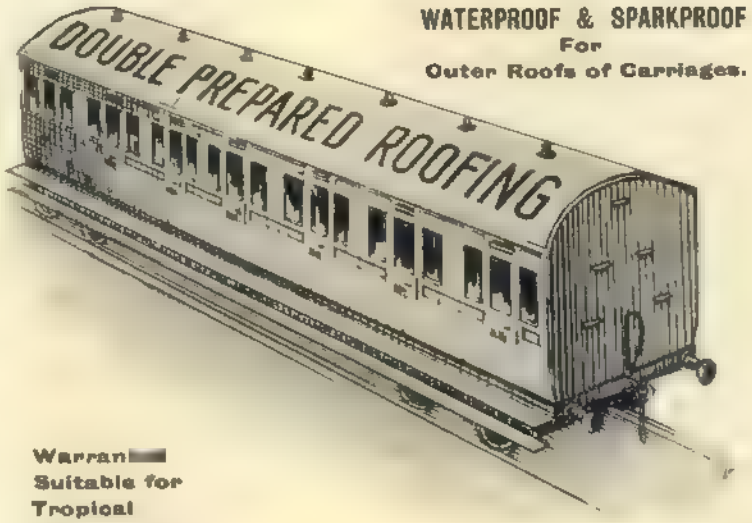
About six weeks are required for the preparation and thorough maturing of this Roofing, and the advantages specifying "Caledonian" are :—

1.—The Roofing can be prepared as the coaches are being built, so that carriages and covered wagons can be turned out complete without delay.

2.—The roofs are complete as soon as the "Caledonian" Roofing has been fixed down, thus saving labour, time and expense.

3. A stock of "Caledonian" Roofing enables the carriage superintendent to fit new roof cloths to his vehicles in a day or two, allowing carriage stock to be constantly on the road.

4.—The Roofing is made from genuine canvas without any admixture of jute, and no paper pulp is used in its preparation.



WATERPROOF & SPARKPROOF
For
Outer Roofs of Carriages.

Warran[illegible]
Suitable for Tropical Climates.

PACKED FOR EXPORT. When ordering please state length and width of roofing, including overlaps.

Code Word "Caledonian," *e.g.* Twenty Caledonian 64 12 ; *i.e.* Twenty pieces "Caledonian" Roofing 64 feet long and 12 feet wide.

COUVERTURE, Marque "CALEDONIAN," à Double Préparation pour Voiture de Chemins de Fer.

Étanche à l'Eau et Ininflammable aux Étincelles.

Garantie appropriée aux Climats Chauds

[illegible]

NO EST NECESSAIRE AUCUN REMBOURRAGE

Les Voitures sont complètes après la pose de la Couverture "Caledonian"

1°.—La Couverture peut se préparer pendant que les Voitures sont en voie de construction, de sorte qu'on peut l'poser à temps pour compléter les Wagons.

2°.—Les Toitures des Wagons sont complètes après la pose de la Couverture "Caledonian" on épargne ainsi du travail, du temps et des frais

3°.—Ayant un petit Dépôt de Couverture "Caledonian" cela permet de remouveler les Toitures d'une [illegible]

4°.—La Couverture "Caledonian" est faite [illegible] sans mélange d'autres ingrédients qui [illegible] le tissu.

EMBALLAGE POUR L'EXPORTATION.

Lorsque vous passez votre ordre veuillez indiquer exactement la longueur et la largeur, en [illegible] pour les Recouvrements.

CLEF TÉLÉGRAPHIQUE "CALEDONIAN." Exemple : Vingt "Caledonian" [illegible]

REVESTIMIENTO marca "CALEDONIAN," de doble preparación, para coches de ferrocarriles.

Materiales impermeables y no inflamables para cubiertas de techos de coches de ferrocarril

Garantizado apropriado para climas tropicales.

Como respuesta a [illegible] hemos introducido el revestimiento "CALEDONIAN" para techos que [illegible] para climas tropical [illegible] "CALEDONIAN" que ha sido [illegible] prueba, habiendo dado resultados satisfactorios [illegible] en el mercado. Se fabrica en PIEZAS SIN COSTURA [illegible]

Se [illegible] con firmeza a las techumbres de los coches [illegible] clavarlo, según amonte, debajo de los aleros.

NO HACE FALTA MATERIAL DE RELLENO ALGUNO

[illegible] estará completa una vez que se haya colocado el revestimiento "CALEDONIAN"

[illegible] aproximadamente [illegible] del "CALEDONIAN" [illegible]

1°.—El revestimiento puede prepararse a medida que los coches se están construyendo, con lo que pueden revestirse los vagones sin demora alguna

2°.—Las techumbres están completas cuando se ha aplicado el revestimiento "CALEDONIAN" con lo que se economiza mano de obra, tiempo y dinero.

3°.—Una cantidad de revestimiento "CALEDONIAN" permite adaptar nuevas techumbres [illegible] material rodante con poco en caro.

4°.—El revestimiento está hecho de lona pura sin mezcla alguna de yute y no se emplea pasta de papel en su prepa[illegible]

EMBALAJE PARA LA EXPORTACION.—Al pasarnos el pedido sírvase indicar el [illegible] y el ancho de las techumbres, incluyendo los recubrimientos.

CLAVE TELEGRAFICA: "CALEDONIAN" Ejemplo : Veinte "Caledonian" no 64 [illegible] revestimiento "CALEDONIAN" para coches [illegible]

JAMES McILWRAITH & CO., Ltd., Glasgow & London.

Manufacturers, Waterproofing Specialists, Wagon Covers and Tent Makers.

Registered Office and Works, BROOMLOAN ROAD GOVAN GLASGOW
London Office 7 VICTORIA STREET WESTMINSTER LONDON, S.W

Telegraphic Address: "McILRAITH, GLASGOW."
Cable Address: "PROTOXIDE, LONDON."

IMPORTED CHINA DINNER SETS

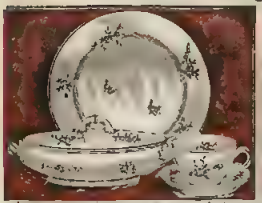
NEW SHAPES AND DECORATIONS

Composition of Imported China Dinner Sets.

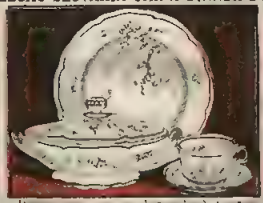
	32 Pc. set	51 Pc. set	97 Pc. set	100 Pc. set
B. & B. Plates	6	8	12	12
Dinner Plates	6	8	12	12
Tea Plates	6	8	12	12
Cups & Saucers	6	8	12	12
Dessert	6	8	12	12
Cups	6	8	12	12
Saucers	6	8	12	12
Small Dish				

Soup Plates				1	1	1
Large Dish				1	1	1
Baker	1	1	1	1	1	1
Covered Dish	1	1	1	1	2	2
Casserole				1	1	1
Sauce Boat	1	1	1	1	2	2
Covered Butter						1
Platter	1	1		1	1	1
Sugar	1	1	1	1	1	1
Cream	1	1	1	1	1	1
	32 Pc. set	51 Pc. set	97 Pc. set	100 Pc. set		

CZECHO SLOVAKIA CHINA DINNER SETS

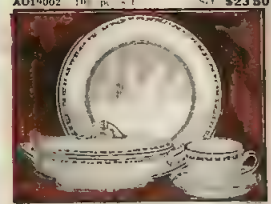


Large open stock spray, green foliage and purple flowers. Gold traced edge and handle.
AO19002—100 pc. set ..... Set, **$23 50**



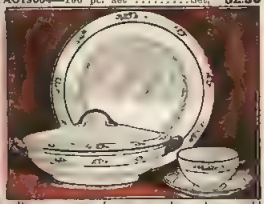
Dainty open stock border of pink flowers, green foliage. Gold traced edge and handle.
AO19008—51 pc. set ..... Set, **$14 25**
AO19003—100 pc. set ..... Set, **24.50**

Large open stock Morning Glory border. Lace like background, gold edge and handle.
AO19010—51 pc. set ..... Set, **$17 50**
AO19004—100 pc. set ..... Set, **32.50**



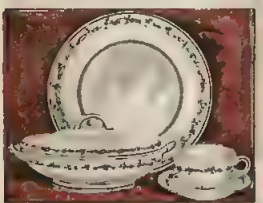
Small June Rose border, two-tone colors, green foliage on gold traced edge and handle.
AO19004—51 pc. set ..... Set, **$17.50**
AO19005—100 pc. set ..... Set, **32.50**

Border decoration of pink Roses in bloom, double gold traced edge and handle.
AO19011—51 pc. set ..... Set, **$18.50**
AO19006—100 pc. set ..... Set, **33.50**



Pink Rose flowers on ivory band, gold shoulder hairline and edge. Gold covered handles.
AO29841—100 pc. set ..... Set, **$32 50**
AO29844—100 pc. set ..... Set, **48 00**

BAVARIAN CHINA DINNER SET



Small pink Rose, green foliage, small purple flowers with delicate ribbon ombre in border effect. Gold traced edge and handles.
AO2036—97 pc. set ..... Set, **$32 50**

Rose and Border, three tone colors. Small red and purple flowers with green foliage on colored band. Gold traced edge and handles.
AO2440—97 pc. set (less Butter and Dresser) ..... Set, **$32.50**

Pink Rose Border, green foliage with autumn fruits in natural colors. Gold traced edge and handles.
AO2987—97 pc. set ..... Set, **$32.50**

COIN GOLD COVERED HANDLES JAPANESE NIPPON CHINA DINNER SETS

Small pink Rose, green foliage, delicate tracery border background. Gold traced edge, gold covered handles.
AO77508½—51 pc. set ..... Set, **$17.50**
AO77508—100 pc. set ..... Set, **33.00**

Pink Rose decoration and lace border on delicate ivory background. Gold traced edge, gold covered handles.
AO77507½—51 pc. set ..... Set, **$18.50**
AO77507—100 pc. set ..... Set, **35.00**

Cream color band, with black leaves and pink Roses. Ivory shoulder band lined with color hairline. Gold traced edge, gold covered handles.
AO77506½—51 pc. set ..... Set, **$19.50**
AO77506—100 pc. set ..... Set, **37.50**

Semi-Porcelain DINNER SETS

"51-piece" Dinner Set	
6 only 6-in. Plates	6 pieces
6 only 7-in. Plates	6 pieces
6 only [illegible]	6 pieces
6 only [illegible]	6 pieces
6 only Cups	6 pieces
6 only Saucers	6 pieces
6 only Fruit Dishes	6 pieces
1 only Meat Platter	1 piece
1 only Open Veg. Dish	1 piece
1 only Oval Dish	1 piece
1 only Deep Dish	1 piece
1 only Open Sugar	1 piece
1 only Cream	1 piece
1 only Cream	1 piece
TOTAL	51 pieces

"100-piece" Dinner Set	
12 only 6-in. Plates	12 pieces
12 only 7-in. Plates	12 pieces
12 only [illegible]	12 pieces
12 only [illegible]	12 pieces
12 only Cups	12 pieces
12 only Saucers	12 pieces
1 only Meat Platter	1 piece
1 only Meat Platter	1 piece
1 only Meat Platter	1 piece
1 only Open Veg. Dish	1 piece
1 only Oval Dish	1 piece
1 only Deep Dish	1 piece
1 only Open Sugar	1 piece
1 only Cream	1 piece
1 only Cream	1 piece
1 only Gravy Boat	1 piece
1 only Gravy Boat	1 piece
1 only Deep Dish	1 piece
1 only Open Sugar	1 piece
1 only Cream	1 piece
TOTAL	100 pieces

Gold trim[illegible]

AO5034— 51 pc. . . Set, $ 8 25
AO5032 100 pc. . . Set, 16.15

AO5482— 51 pc. . . Set, $ 9 90
AO5481—100 pc. . . . . Set, 17.75

[illegible] Roses, FORGET-ME-NOTS, [illegible] Shape in [illegible] gold [illegible]

AO6003— 51 pc. . . Set, $ 9 75
AO6013 100 pc. . . Set 17 50

Bright Gold traced and [illegible] edge, bright gold covered handles.

AO6004— 51 pc. . . . . Set, $10 50
AO6014 100 pc. . . Set 20 65

Matt gold [illegible] in gold band, [illegible] gold [illegible] on Cups

AO6005— 51 pc. . . . . Set, $15 00
AO6015 -100 pc. . . Set 29 50

[illegible] Matt gold [illegible] colors. [illegible] Rose on [illegible]

AO6006 51 pc . . . . . Set, $16 50
AO6016 100 pc . . . . . Set 31 50

[illegible] Roses [illegible] gold lines gold [illegible] gold [illegible] gold handles [illegible] [illegible] of [illegible]

AO6007 51 pc. . . . . Set, $17 50
AO6017 -100 pc . . . . . Set, 33.50

Copenhagen Blue Border, Dresden Rose Panels between [illegible] [illegible] Rose on [illegible] of Cups

AO6008 – 51 pc. . . Set, $17 50
AO6018—100 pc. . . . . Set, 33.50

[illegible] [illegible] [illegible] [

SHOP EQUIPMENT

C-O-BURNING-IN AND RUNNING-IN MACHINE

For Ford Motors

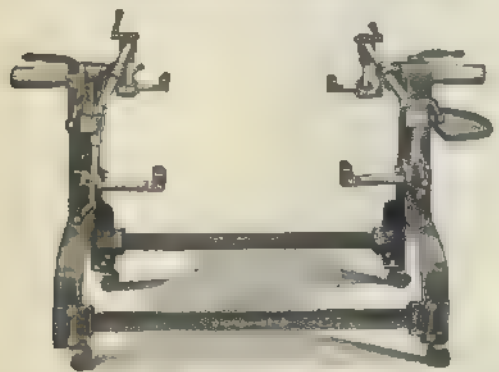
Is compact, well built, speedy, reasonably priced, accurate and durable and will produce a perfect bearing surface.

Due to rigid construction, vibration is eliminated. Has heavy properly balanced fly wheel. Heavy duty toggle type clutch. The clutch is equipped with a positive gripping surface and is adjustable to any pull. All bearings are in full view of operator while being burned in, which permits making adjustments and tests. After bearings are properly burned in. Motor is assembled and placed on running-in stand and run under its own power until it is sufficiently limbered up. Gas tank, coil box holder and water connection are regularly equipped.

Specifications:—Width of base, 18 inches; length 76 inches; total width 28 inches; total height 32 inches; diameter fly wheel 23 inches; face of fly wheel 9 inches; R. P. M. of fly wheel 450 to 500; height from bottom of base to center of main shaft 20¾ inches. Weight 775 pounds; shipping weight 945 pounds.

C-O-Burning-In Machine (for Ford Motors) Each $194 00

C-O UNIVERSAL MOTOR STAND



Will accommodate any type of internal combustion motor either three or four point suspension. Is the most flexible stand manufactured. The round bars are accurately machined permitting fixture heads to be easily moved to any position and turned at any angle and instantly clamped.

The up and down, and end to end, round and round movement permits the fixtures to reach any convenient place for bolting to any part of motor. Motors can be perfectly balanced on this stand, through the up and down movements of the heads. Stand is amply strong to support motor while being run in under its own power or in connection with C-O Universal Burning-In Machine.

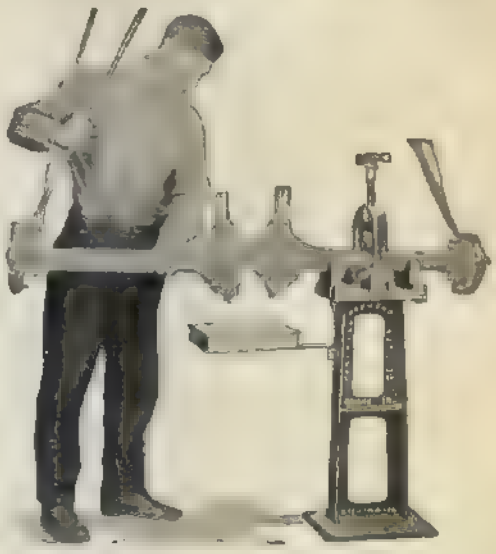
Tool Tray furnished as regular equipment.

Height 38 inch Floor Space fully extended, 50x32 inches. Weight 420 pounds. Shipping weight 465 pounds.

C-O-Universal Motor Stand.....Each $61.00

Gasoline Tank extra.....Each 6.75

C-H UNIVERSAL REAR AXLE STAND

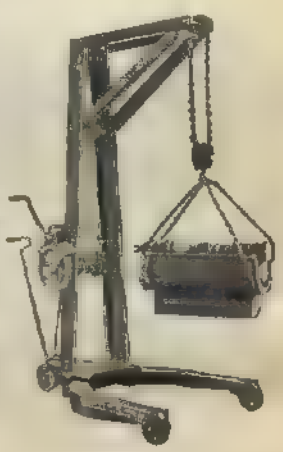


Will hold rear axle assemblies, drive shafts assemblies, drive shafts or rear axles in any position desired. Base is of very heavy construction, the clamping device consists of large V Blocks with a sturdy pipe vise mounted in center, making a very substantial clamp, will hold the heaviest assemblies without danger of slipping or turning while assembling, disassembling, fitting bearings, or any other job that may be necessary to perform. Weight 80 pounds.

C-H Universal Rear Axle Stand.....Each $34 00

C-O PORTABLE CRANE

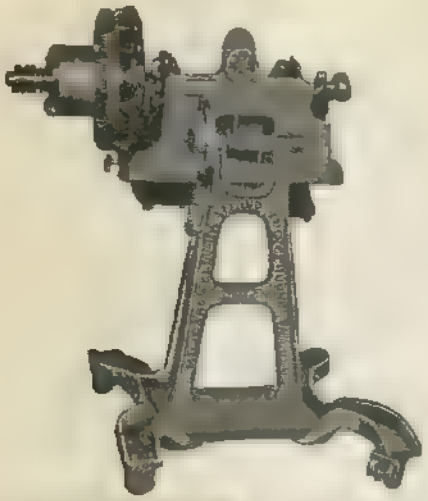
Is designed especially for garages and service stations. Frame is of light steel and base is of heavy cast iron, making it well balanced. The overhang is sufficient to reach the center of any car or truck. Base will pass under all axles. The handle and front casters work on an accurate, which automatically locates crane while standing equipped with single overset winch pulley and steel drum sheaves with ratchet lock. Total height 8 feet 3 inches, height of boom 7 feet, overhang 3 feet; Outside width of base, 3 feet, inside width of base 2 feet 3 inches, length of boom 4 feet 5 inches, height of base, 8 inches; Lifting capacity 1 ton; Weight 630 pounds.



No. 0—C-O Portable Crane.....Each $90 00

GARAGE AND SHOP EQUIPMENT

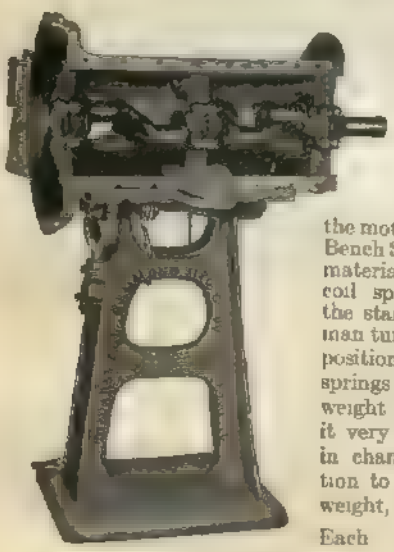
CARSWELL-HAMMOND MOTOR BENCH STAND FOR FORD



Built and designed especially for the Ford motor. The stand makes it easier for the workman, enabling him to work from all sides. The repair man simply turns the motor to any desired position (**notice the heavy coil spring to help the repair man turn the motor from one position to another**), thus doing away with the several stationary bench plates that are required for the same operations. When motor is once placed in the stand, it can be dissembled or assembled without removing. The motor block is held firmly in the bench without any interference as to the operations on it. The stand has a foot lever to operate the dog, so the repair man can use both hands in turning the motor to the position he desires. Shipping weight with portable base, 260 pounds. Without base, 170 pounds.

Motor Stand, without Portable Base $42 50
Motor Stand, Portable Base only 19 50

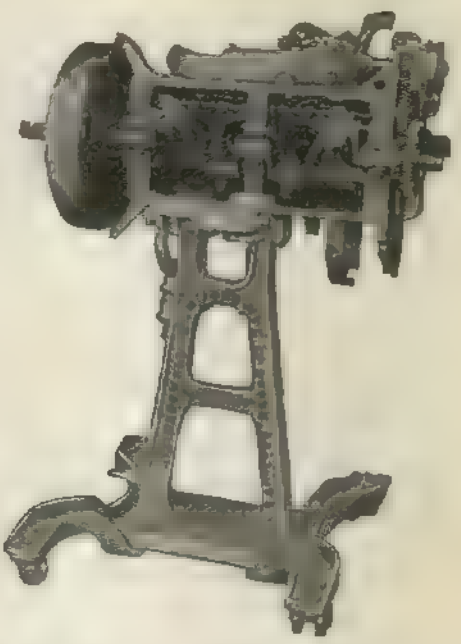
CARSWELL-HAMMOND REPAIR STAND FOR FORDSON TRACTOR MOTOR



This machine handles the motor in the same way as the Motor Bench Stand for Ford motors. It operates in the same manner, all the work being done without removing the motor block. This Motor Bench Stand is built of heavy material throughout. Heavy coil springs are placed on the stand to help the repair man turn the motor from one position to another. These springs support part of the weight of the motor, making it very convenient and easy in changing from one position to another. Shipping weight, 325 pounds.

Each $70 00

CARSWELL-HAMMOND REPAIR STAND FOR DODGE MOTORS



Built and designed especially for the Dodge motor to speed up the repair shop, to save time and do better work. The stand makes it easier for the workman, enabling him to work from all sides. When the motor is once placed in the stand, it can be dissembled or assembled without removing. The motor block is held firmly in the bench, without any interference as to the operations on it. The stand has a foot lever to operate the dog, so the repair man can use both hands in turning the motor to the position he desires.

Shipping weight, with portable base, 300 pounds. Without portable base, 210 pounds.

Repair Stand, without Portable Base $47 50
Repair Stand, Portable Base only 19 50

PORTABLE BASE

This base with casters makes the Dodge and Ford Motor Bench Stands portable. Where repair shops are limited for room and it is impractical to bolt the bench to the floor, this base makes it possible to easily move your work as necessity demands. Weight, 9 pounds.

Portable Base ..... Each $19.50

WYANDOTTE DAIRYMAN'S CLEANER AND CLEANSER

Before scientific dairying demanded the most exacting cleanliness possible to obtain, it was commonly believed that most any kind of cleaning material could be used in the dairy. However, with the growth and development of this great industry came the demand for a new high standard of sanitary cleanliness. To fill this need a new cleaning material known as Wyandotte Dairyman's Cleaner and Cleanser was developed and standardized to cope successfully with all dairy cleaning problems.

This extraordinary cleaner produces safe, sweet, wholesome, sanitary cleanliness when used for washing milk pails, strainers, coolers, separators and cans. It cleans sanitarily clean with such a saving of time, labor and cleaning material that it lowers the cost of production thereby making its use economical. Moreover because of its exceptional cleaning qualities it helps produce high quality products which bring bigger financial returns.

Shipped from Chicago Stock or from various storehouses in all principal cities of U. S. and Canada.

Sold only in cases and barrels.

For All Kinds of Dairy and Domestic Cleaning.

No. W1—Cases of twenty-four 5-lb. sacks .....per case $15.40

No. W2—Barrels of fifty 5-lb. sacks only .....per barrel $29.80

DAIRY CLEANER STORAGE POINTS

Group 1.

Gd. Rapids, Mich. — Danville, Ill.
Columbus, Ohio. — Springfield, Ill.
Indianapolis, Ind. — St. Louis, Mo.
Louisville, Ky. — Peoria, Ill.
South Bend, Ind.
Terre Haute, Ind.

Group 2.

Davenport, Iowa. — Oshkosh, Wis.
Dubuque, Iowa. — Janesville, Wis.
Eau Claire, Wis. — Milwaukee, Wis.

Group 3.

Minneapolis, Minn. — Duluth, Minn.
St. Paul Minn.

Group 4.

Kansas City, Mo. — Sioux Falls, S. D.
Sioux City, Iowa. — St. Joe, Mo.

Group 5

Atlanta, Ga. — Joplin, Mo.
Macon, Ga. — Wichita, Kans.
Topeka, Kans. — Muskogee, Okla.
Tulsa, Okla. — Omaha, Nebr.
Little Rock, Ark.

Group 6.

Okla. City, Okla.

MILKING TUBES

No. 1SR—2 in. self-retaining nickel plated metal, w't per doz. 2 oz., per dozen $4.00

ONE DOZEN IN A BOX

No. 2SRA—Assorted ¼ doz., 2 in., ¼ doz. 2½ in. and ¼ doz. 3 in., w't per doz. 2 oz. .....per dozen $3.50

ONE DOZEN ASSORTED IN A BOX. WE DO NOT BREAK ASSORTMENTS

MILK TESTING OUTFITS

Accuracy first consideration. Inaccurate testing apparatus is misleading and worse than useless.

Facile Testers are the world's standard. Malleable (not cast) iron. Gears highest grade steel, accurately cut. Self-lubricating; doubling the the wear of any other make.

Without glassware, which should be ordered separately, stating whether **cream** test bottles or **full milk** test bottles are wanted.

This tester has cut steel encased gears, deep seamless detachable brass swinging bottle pockets, tinned malleable iron head. Attaches to table or bench with thumb screw. Well made, smooth running. Sulphuric acid not included.

No. T22—Facile Jr. Babcock, 2 bottle, w't each 9 lbs. ....each $10.50

No. T24—Facile Jr. Babcock, 4 bottle, w't each 14 lbs. ....each $12.00

ONE IN A BOX, PACKED COMPLETE

Closed. Open.

Facile Encased Whirler For Babcock.

Without glassware, which should be ordered separately, stating whether **cream** test bottles or **full milk** test bottles are wanted.

Cast iron case with cover, cut spur and worm gear, malleable iron bottle carrier, seamless brass swinging pockets, enclosed gearing, turns easy, high speed, noiseless.

No. T46—6 bottle, w't each 63 lbs., each $27.50

No. T48—8 bottle, w't each 70 lbs., each $30.00

No. T412—12 bottle, w't each 84 lbs., each $33.00

ONE IN A BOX, COMPLETE

MILK TESTING GLASSWARE

No. 1. No. 5. No. 26.

No. 1—Graduated Babcock, full milk test bottles, graduated 10%, w't per doz. 1 lb. .....per dozen $4.50

No. 5—Graduated Babcock cream test bottles, graduated 50%, w't per doz. 1 lbs. .....per dozen $4.90

ONE DOZEN IN A BOX

No. 26—Acid measures, w't per doz. ½ lb. .....per dozen $2 50

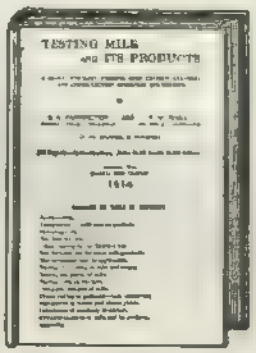
ONE DOZEN IN A TUBE

PIPETTES

No. 21—Graduated pipettes for milk or cream, w't per doz. 1½ lbs., per dozen $6.00

ONE IN A TUBE

MILK AND CREAM TESTING BOOK



No. F1923—Cloth bound, volume 5×8 in., 300 pages, by Farrington and Woll, authorities at the Wisconsin Agricultural College, Madison, Wis., devoted to all the different branches of the industry and presented in such attractive form as will be interesting to anyone engaged in dairying, each★ $2.50

★ Items Marked Thus ★ Are Shipped From Factory Only.

DAISY AIR RIFLES

SINGLE SHOT

Lever action, single piece steel barrel, blued finish, walnut finished stock, shoots BB air rifle shot and 17-100 darts, length 31½ in., w't per doz. 29 lbs.

No. 5005—Per dozen $24.00

ONE DOZEN IN A CASE

350 SHOT AUTOMATIC REPEATER

Lever action, 350 shot, shoots BB shot, single piece steel barrel, nickel finish, all parts interchangeable, length 31½ in., w't per doz. 29 lbs.

No. 5007—Per dozen $32.00

ONE DOZEN IN A CASE

Lever action, 500 shots, shoots BB shot, working parts of steel and brass, blued finish, black walnut stock, loaded automatically, length 33 in., w't per doz. 40 lbs.

No. 5018—Per dozen $40.00

HALF DOZEN IN A CASE

1000 SHOT AUTOMATIC REPEATER

Magazine Repeater, lever action, magazine holds 1,000 air rifle shot and loads by operating the lever. Turned stock of genuine black walnut, highly polished. Metal parts nickel finish. Shoots with great force and accuracy. This rifle will please all boys. Length 36 in., w't 2 lbs. 9 oz. Packed six in a case, w't 21 lbs.

No. 5012—Per dozen $48.00

1000 SHOT AUTOMATIC REPEATER

1,000 Shot Lever Action Repeater. Beautifully polished and blued metal parts. Stock of selected walnut, hand polished. Extra strong, accurate shooter. Each gun in a hinged-cover box, handsomely lithographed in colors ready for display. Every dealer should stock this gun. Sells readily to young and old for target practice. Packed 6 in a case, w't 29 lbs.

No. 5008—Per dozen $56.00

HALF DOZEN IN A CASE

MILITARY REPEATER

Lever action, 50 shot, shoots BB air rifle shot, all metal parts finished in gun blue, beautifully walnut finished stock, rear sight open and adjustable, front sight knife type, sling strap and swivel, 45 in. over all, including rubber tipped detachable bayonet, w't per doz. 76 lbs.

No. 5040—Per dozen $80.00

HALF DOZEN IN A CASE

PUMP ACTION REPEATER

50 shot, shoots BB air rifle shot, metal parts non-rusting gun blue, genuine black walnut stock, hand polished, adjustable sights, length 38 in., w't each 3¾ lbs.

This new pump action repeater operates by pulling the slide toward the stock, the loading action is automatic, fires rapidly from the shoulder, the magazine having a forced feed, is a strong and accurate shooter.

No. 5020—Per dozen $80.00

HALF DOZEN IN A CASE

LITTLE DAISY SINGLE SHOT

Blued finish steel barrel and frame, walnut finished stock, good sight, perfect action, shoots BB shot, length 29 in., w't per doz. 16½ lbs.

No. 5004—Per dozen $14.40

BIG DAISY POP GUN

Nickel finish steel barrel and frame, finished walnut stock, shoots a cork or rubber ball which is attached to a string and makes a loud report, length 17 in., w't 7½ oz.

No. 5003—Per dozen $12.80

SIX DOZEN IN A CASE

LITTLE DAISY POP GUN

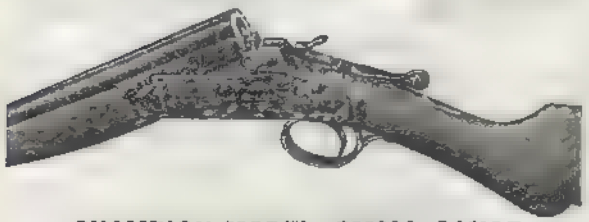
Nickel finish steel barrel and frame, walnut finished stock, shoots a cork which is attached to a string and makes a loud report, length 17 in., w't 7½ oz.

No. 5002—Per dozen $8.40

SIX DOZEN IN A CASE

SINGLE BARREL SHOT GUNS

IVER JOHNSON'S HAMMER



CHAMPION MODEL, SMALL GAUGE

Three Piece.

Barrel—Blued steel, full choke, barrel and lug forged in one piece.

Stock—Plain walnut, oiled finished, pistol grip, hard rubber butt plate.

Frame—Case hardened, steel coil mainspring, rebounding lock top lever.

No. 2837—28 gauge, 28 in. barrel, **plain extractor,** w't 6¾ lbs. .....each $16.00

No. 2839—28 gauge, 28 in. barrel, **automatic ejector,** w't 6¾ lbs. .....each $16.80

410—36 GAUGE OR 44 CALIBER

For .410 gauge paper shot shells, 44 W. C. F. or 44 XL shot cartridges, 26 in. barrel, w't 6¼ lbs.

Plain Extractor

No. 41037—Each $16.00

Automatic Ejector

No. 41039—Each $16.80

CHAMPION MODEL, RAISED MATTED RIB

Three Piece.

Barrel—Fine quality blue steel, full long taper choke, barrel and lug forged in one piece, **automatic ejector.**

Stock—Selected walnut, full pistol grip rubber capped, knob fore-end, checkered stock and fore-end, hard rubber butt plate.

Frame—Case hardened steel, coil main spring, rebounding lock, top lever, nicely finished throughout.

No. 270—12 gauge, 30 or 32 in. barrel, w't about 7¼ lbs., each $20.80

No. 16270—16 gauge, 28 or 30 in barrel, w't about 7 lbs., each $20.80

No. 20270—20 gauge, 28 in. barrel, w't about 7 lbs., each $20 80

IVER JOHNSON'S HAMMER

CHAMPION MODEL

Three Piece.

Barrel—Blued steel barrel, full long taper choke, barrel and lug forged in one piece.

Stock—Plain walnut, oiled finished, pistol grip, hard rubber butt plate.

Frame—Case hardened steel, coil mainspring, rebounding lock, top lever.

12 gauge, 30 or 32 in. barrel, **plain extractor,** w't about 7 lbs.
No. 258—Each $16.00

16 gauge, 28 or 30 in. barrel, **plain extractor,** w't about 6¾ lbs.
No. 16258—Each $16.00

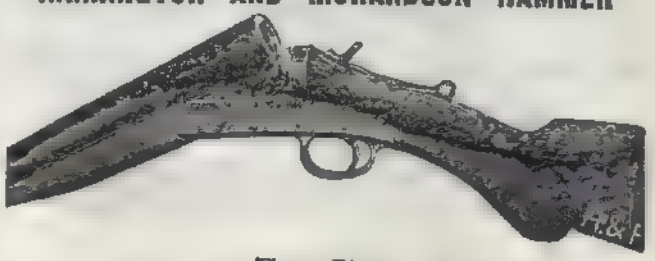
20 gauge, 28 in. barrel, **plain extractor,** w't about 6¾ lbs.
No. 20258—Each 16.00

12 gauge, 30 or 32 in. barrel, **automatic ejector,** w't about 7 lbs.
No. 268—Each 16.80

16 gauge, 28 or 30 in. barrel, **automatic ejector,** w't about 6¾ lbs.
No. 16268—Each $16.80

20 gauge, 28 in. barrel, **automatic ejector,** w't about 6¾ lbs.
No. 20268—Each $16.80

HARRINGTON AND RICHARDSON HAMMER



Three Piece.

Barrel—**Heavy reinforced breech,** blued steel barrel, choke bored.

Stock—Walnut, pistol grip, rubber butt plate, plain snap fore-end.

Frame—Case hardened, top lever and coil main spring.

No. 500—12 gauge, 30 or 32 in. barrel, **plain extractor,** w't about 7 lbs. .....each $20.00

No. 505—12 gauge, 30 or 32 in. barrel, **automatic ejector,** w't about 7 lbs. .....each $20.50

TOY AUTOMOBILES.

Well made and attractively enameled. All designs, finish and workmanship are the best.

F271—"Dan Patch," 37x19, blue enameled body, black wheels orange trim, racer style, gasoline tank, steel steering wheel, starting crank; 4 and 10 in. wheels, ½ in rubber tires. 1 in crate, 50 lbs. Each, Out

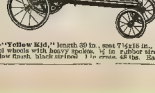
F220—"American National," 20½x30½, canary yellow body, red seat and stripe, black enameled knuckle joint auto gear and steering wheel, fan and spark control, bumper, nickel plated hub caps, 3 in. double spoke wheels, ¾ in rubber tires. 1 in crate, 90 lbs. Each, $6.25

F223—"Dan Patch," 40x18, red enameled body, black wheels and trim, large painted seat, gasoline tank, steel steering wheel, starting crank, auto gear and knuckles, 8 and 10 in. double spoke wheels, ½ in. rubber tires. 1 in crate, 70 lbs. Each, Out

F222—"Dan Patch," black, orange enameled body, black trim, large tool box at rear, gasoline tank, full automobile front wheels and steering cranks, 10x2½ in. double spoke wheels, ¾ in rubber tires. 1 in crate, 85 lbs. Each, $6.90

F281—"Dan Patch," 44x20, canary enameled body, black wheels and trim, gasoline tank, steel steering wheel, 10 and 12 in. double spoke wheels, ¾ in rubber tires. 1 in crate, 90 lbs. Each, $7.50

"JUVENILE" HAND CARS



F199—"Junior," length 37 in., seat 7x14 in., wheels 6 & 8 in., ¾ in. rubber tires, black enameled steel frame and seat, solid bronze decorated seat, red wheels, nickel plated hub caps, heavy axles, cog drive. 1 in crate, 45 lbs. Each, $3.25

F293—"Yellow Kid," length 30 in., seat 7½x16 in., 8 & 12 in. steel wheels with heavy spokes, ½ in. rubber tires, bright yellow finish, black striped. 1 in crate, 45 lbs. Ea. $4.60

"CLIPPER" VELOCIPEDES

Distributed exclusively by Butler Brothers

Steel Tires—Heavy half oval bluish enameled steel frame, heavy red enameled steel side wheels, 1 piece fork with adjustable catch, improved adjustable bike saddle, double coil auxiliary stationary handle bars, nickeled wood grips, stamped steel head and pedals. 2 in crate.

Style.	Wheels.	Size.	Weight.	Each
F152—2	14 and 9 in.	Small children	40 lbs.	$1.65
F154—2	16 " 12 "	2 to 7 yrs.	50 "	1.75
F156—2	20 " 14 "	5 " 9 "	60 "	2.15
F158—2	24 " 14 "	7 " 11 "	64 "	2.50

F157—Asstd. 1 only F153, 2 only F154 and 1 only F155, as shown above. Asstd. 4 in crate, 80 lbs. ASST. (4 pcs.), $8.00

Rubber Tires—Heavy half oval, black enameled, steel frame, heavy red enameled steel side wheels with rubber tires, ¾ in. front and ¾ in. rear. 1 piece fork with adjustable catch, improved adjustable saddle, double coil auxiliary stationary handle bars, nickeled wood grips, stamped steel head and pedals. 2 in crate.

Style.	Wheels.	Size.	Weight.	Each
F167—2	14 and 9 in.	Small children	40 lbs.	$2.65
F165—2	16 " 12 "	3 to 7 yrs.	52 "	2.85
F164—2	20 " 14 "	5 " 9 "	62 "	3.05
F163—2	24 " 14 "	7 " 11 "	66 "	3.45

F168—Asstd. 1 only F167, 2 only F165 and 1 only F164, as shown above. Asstd. 4 in crate, ASST. (4 pcs.), $10.50

Rubber Tires, Clipper "Special"—Heavy half oval red enameled steel frame, heavy red striped, bluish enameled steel side wheels, ¾ in. rubber tires, extra strong rear axle supported by auxiliary coil springs, 1 piece fork with adjustable catch, nickel plated adjustable handle bars, hardwood enameled grips, stamped steel head and pedals. 1 in crate.

Style.	Wheels.	Size.	Weight.	Each
F169—2	20 and 12 in.	3 to 7 yrs.	52 lbs.	$4.90
F171—2	24 " 14 "	5 " 9 "	60 "	5.65
F170—2	28 " 16 "	7 " 11 "	65 "	6.50

"DAN PATCH" PONY RACER KIDDY HORSE

F858—Length 36 in., extreme ht. 17 in., width 16 in., ht. of seat 15½ in., 10 in. double spoke wheels, 3 in. guide wheel ½ in. rubber tires, heavy steel, gear and enameled wood axles, black painted wood horse, red leather reins and tail, reins, steering handle. 2 in crate, 90 lbs. Each, $2.78 (Total $5.50)

TRIANGLE TRUSS FRAME PLAIN-BEARING VELOCIPEDES

Extra well made and durable, triangle truss frame gives great strength to backbone and rear axle also acts as mudguard cap. Triangle truss frame, enameled dark green with gold stripping, wide arm bicycle head, padded leather bicycle saddle, double coil nickel plated springs, nickel plated adjustable handle bars, leather grips, ¾ in. rubber tires, hub caps. 1 in crate.

Wheels.	Reach Adjustment.	Wt.	Each
F140—16 and 12 in.	17½ to 20½ in.	26 lbs.	$6.00
F141—20 " 14 "	23½ " 27½ "	28 "	6.85
F142—24 " 16 "	31½ " 33½ "	30 "	7.60

HIGH GRADE BALL-BEARING VELOCIPEDES

Carmine enameled tubing frame, gold striping, nickel fork crown, ball-bearing wheels, rat trap pedals, up-to-date adjustable handle bar with rubber grips, nickel plated drop forged padded bicycle saddle, double coil springs, ¾ in. rubber tired tires. 1 in crate.

Wheels.	Weight.	Each
F137—16 and 10 in.	37½ to 39½ lbs.	$ 8.95
F138—22 " 14 "	40½ " 42½ "	9.80
F139—24 " 16 "	43½ " 46 "	10.90

"OVERLAND" COASTERS

Red enameled, hardwood seat and handle bars, steel fork, steel, coaster brake, steel supporters, open wood sided steel wheels, rubber tires.

F214 "Overland Special," length of seat 21 in., seat 15x8 in., height of seat 11 in., heavy enameled front steel steering gear frame and dust-in spoke 8 and 10 in. wheels, ¾ in. rubber tires, foot rest. 1 in carton, 30 lbs. Each, $2.95 (Total $5.90)

BALL-BEARING "SCUDDER CAR"

Operates entirely by the weight of the rider—soft and noiseless

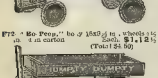
F241—Length over all 60 in., width 18 in., ball-bearing axle and transmission gear, red enameled steel frame and steering gear, black enameled seat and dash, steering wheel handle, 14 and 10 in. wheels, ¾ in. rubber tires, 1¼ in. rubber tires. Propelled by rider standing on sliding board and throwing weight of body first on one foot then on the other. Has no dead centers, counts without movement of sliding board. 1 in crate Each, $4.95

WOOD BODY EXPRESS WAGON

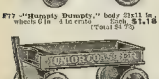
F40—16x7 in., varnished wood body, 20 in. handle, 11x4 stenciled "Express" on each side, 4 in. wood spoke wheels, steel tires, 4 iron axles. 50 lbs. Each $2.75

JUNIOR SIZE WOOD WAGONS

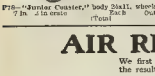
Hardwood body and gearing, natural, varnish finish, with red trim, fancy solid turned wood wheels with red centers.



F72—"Bo Peep," body 18x9 in., wheels 15 in., 4 in carton Each, $1.12½ (Total 28.50)



F77—"Humpty Dumpty," body 21x11 in., wheels 6 in., 4 in crate Each, $1.16 (Total 29.70)



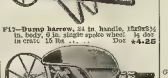
F78—"Junior Consist," body 24x11, wheels 7 in., 2 in crate Each Dot

KIDDIES' WOOD HAY CART

F29—12x5 in., red stained cart, 3½ in. solid painted wheels, 18 in. handle with "T" grip, 2 doz. in crate. Doz. $1.10 (Total $3.00)

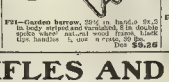
TOY STEEL WHEELBARROWS

Red painted sheet steel bodies, selected hardwood handles, with rounded grips, heavy steel spoon wheel, not together with screws and bolts.



F12—Dump barrow, 24 in. handle, 12x8x5½ in. body, 6 in. single spoke wheel. 1 doz. in crate. 15 lbs. . . . . Doz. $4.25

F19—Garden barrow, 30 in. handle, 12x7x5½ in body, 8 in. double spoke steel disc stamp wheel. ½ doz. in crate, 30 lbs. Doz. $7.90



F21—Garden barrow, 28½ in. handle, 8x5 in body striped and varnished, 10 in. double spoke steel disc stamp wheel, with bulb tipt handles ¼ doz. in crate, 30 lbs. Doz. $9.25

MINIATURE TRUCK

F30—Length 26½ in., 9¼ in. wide, wheels 6 in., blue painted stamped steel, crane and hooking contraption, solid stamped steel axle, natural hardwood floor, 4 in. red painted stacked strips. 1 doz. in carton Doz. $3.90

"OVERLAND" SCOOTER

Green enameled, 30x20 in. steel frame, red enameled wood grips (Lustre natural) varnished hardwood platform, 8 in. double spoke wheels, 1¾ in. tires. 15 lbs.

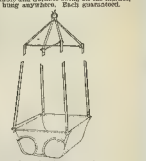
F624—½ in. roller bearings. Each, $1.47 (Total $5.93)

FEATHERWEIGHT BABY WALKER

F1256—41 in., diam. top rim 21 in., lower rim 16½ in., strong bright finish steel frame, heavy cloth woven reseat, adjustable seat can be detached from frame. 8 in carton . . . . . Each, $4.98 (Total $14.94)

"LA-LA-BY" BABY SWINGS

12x18 in., heavy duty woven washable white duck, double stitched and riveted throughout, the seats so much more durable for baby to rub against or bite into, heavy black enameled steel frame, strong coil springs wrapped in steel quality enamel, most comfortable and durable swing on the market, can be hung anywhere. Each guaranteed.



F5685—Without head rest. ½ doz. in pkg. Doz. $8.40

F5686—With head rest, can be folded flat when not in use. 4 in pkg. Each, $1.00

Spring for Swings

F5684 Spring with safety device for above numbers. ½ doz. in pkg. Doz. $2.26

AIR RIFLES AND TOY FIREARMS

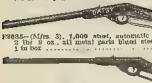
We first demanded quality then we demanded price from the manufacturer—we got both and here the results are shown in well known dependable goods at prices not touched by any other jobber.

THE FAMOUS "DAISY" AIR RIFLES

The following numbers represent the best sellers from the well known Daisy line. All models will shoot either air rifle shot or darts, except F2614, which is for shot only. All with stained stocks and accurately sighted.

F2614—(Mfrs 30). "Little Daisy," single shot, 20 in., 1 lb. 9 oz., all metal parts blued steel, lever action, 34 doz. in pkg. Doz. $7.20

F2620—(Mfrs 12). Single shot, 31½ in., 1 lb. 8 oz., nickel plated barrel blued steel, lever action ½ doz. in pkg. Doz. $12.00



F2622—(Mfrs 11). 350 shot, repeater, 34½ in., 1 lb. 11 oz., all metal parts blued steel, lever action ½ doz. in pkg. Doz. $16.00

F2624—(Mfrs 30). 500 shot, automatic repeater, 33 in., 2 lb. 2 oz., all metal parts blued steel, lever action ½ doz. in pkg. Doz. $20.00

F2625—(Mfrs 3). 1,000 shot, automatic repeater, 35 in., 2 lb. 9 oz., all metal parts blued steel, lever action 1 in box . . . . . Each, $2.00

F2626—(Mfrs Hy) 1000 shot, automatic repeater, 36 in., 2 lb. 9 oz., all metal parts blued steel, lever action 1 in box . . . . . Each, $2.25

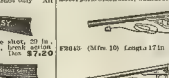
F2627 (Mfrs 25). New pump action, 50 shot automatic repeater 37 in., 3½ lbs., all metal parts blued steel, adjustable rear sight. 1 in box . . . . . Each, $3.30

TARGET AUTOMATIC POP GUN

F2639—17 in. automatic spring action, long string with cork stamped wood shoot and gun metal finish barrel. Each in printed box with instructions. 4 doz. in pkg. Doz. $2.20

"LITTLE DAISY" RIFLE POP GUNS

Harmless, shoot corks, etc., single shot, break action, all metal parts blued steel, walnut stock, each with cork and string.



F2643 (Mfrs 10) Length 17 in., 1 doz. in carton Doz. $3.20

F2644 (Mfrs 14). 21 in. ½ doz. in carton Doz. $6.90

F2645—(Mfrs 16) Length 31 in. wt. 1½ lbs., sirring sling, detachable rubber tip bayonet, repeating bump action. ½ doz. in pkg. . . . . Doz. $7.20

"SCOUT" AUTOMATIC TOY PISTOLS & GUN

Produces automatic shots as fast as the trigger can be pulled, making a sharp cracking sound. Has a cap placed without the use of caps.

Note—As no caps are used, fireworks license is not necessary to sell these items

F2628—5¼ in. long, heavy blued steel barrel and stock, stamped action bull trigger, patent shellgun action, makes a loud report, each in box. 1 doz. in pkg. Doz. 70c

F2655—6¾ in., automatic steel type, repeating pistol, blue steel, trigger action, safety in automatically locked and exploded, each in box. ½ doz. in pkg. Doz. $2.00

F2564—18½ in., Winchester rifle type, blued steel barrel and repeating chamber, nickel and fancy colored trimmings, trigger action, makes loud report, each in box 1 doz. in pkg. . . . . Doz. $1.18

"SURE SHOT" AUTOMATIC WATER PISTOL

F1666—5 in., bright nickeled finish, metal body and grip, dummy trigger, brass barrel, lever action on side. Shoots 3 or several times. 1 doz. in box Doz. 60c

"Ronson" Automatic Repeating Pistol and Reloads

Exact miniature of large automatic. Will shoot as fast as trigger can be pulled, shooting sparks and making sharp cracking noise like cap pistol. Sparks absolutely harmless

F2658—4½ in., black enameled heavy barrel and corrugated grip, shaped quick pulling trigger, with hammer mechanism in middle position adapted to revolver when fired. Shoots 8 to 10 shots before reloading is necessary. Easily reloaded. Guaranteed to work properly. Complies with laws of every state. Packed with full instructions. 1 doz. in carton Doz. **$2.25**

F2656 Reloads for F2658 pistol 5,000 shots for 6c. Each reload in exclusive capsule in glazed paper tray 12 dis in display box Doz. **40c**

"DAN PATCH" AND "AMERICAN" TOY AUTOS

"DAN PATCH" TOY AUTOS

Well made and attractively enameled. Made by the "Dan Patch" Novelty Co., pioneer manufacturers of children's high class vehicles

F270 — 37x19 in., red enameled body, black wheels and trim, racer style seat, steering wheel, gasoline tank effect, steering wheel controlled by rack and pinion, 8 and 24 in. wheels, 1¾ in. rubber tires, 1 in crate, 50 lbs. Each, **$3.98**

F271 — 37x19 in., blue enameled body, black wheels, orange trim, racer style, steering wheel, gasoline tank effect, steering wheel controlled by rack and pinion, 8 and 24 in. wheels, 1¾ in. rubber tires, 1 in crate, 50 lbs. Each, **$5.75**

"AMERICAN" NATIONAL TOY AUTO

F276—"Star," 40x30½ in., canary yellow body, red seat and stripe, blackenamel knuckle joint axle, gear and steering wheel, gas and spark control, carved panel hub caps, 24 in. double spoke wheels, ¾ in. rubber tires, 1 in crate, 90 lbs. Each, **$4.75**

"AMERICAN" NATIONAL TOY AUTOS

Original models. Note the distinctive features. We offer these high grade autos at modern prices

F327 "Hornet," 42x39½ in., red body with yellow panels, striped in yellow, knuckle joint gear gas and spark control, bumper rear lamps, 32 in. wheels, ½ in. rubber tires, nickel plated hub caps. 1 in crate, 40 lbs. Each, **$7.75**

F328—"Swift," 42x39 in. body, red seat and frame, with blue hood, "Jar Not" rear springs, wood rim steering gear, gas and spark control, Cyco lower roadshape, motor meter, screecher signal, 32 in. rubber tire wheels, nickel plated hub caps. 1 in crate, 50 lbs. Each **$10.75**

F329 "Hudson," 38x37 in., light blue body with red striping, "Jar Not" rear springs, knuckle joint gear gas and spark control, screecher signal, bumper, road lamps, motor meter, stationary imitation leather top, 1.3 in. wheels, 36 in. rubber tires, nickel plated hub caps. 1 in crate, 45 lbs. Each, **$9.25**

F334—"Cadillac," 43x39 in. body, beautiful red with yellow striping, front apron on both sides, motor finished in gray with white plugs, knuckle joint gear, underslung front axle, "Jar Not" rear springs, ratchet gas control, motor meter, road lamps, three-speed gear shift, bumper screecher signal, stationary imitation leather top, 32 in. rubber tired wheels. 1 in crate, 60 lbs. Each, **$13.25**

DOLL GO-CARTS & CARRIAGES

Just as we are the biggest jobbers in baby carriages so are we way out in front when it comes to doll cabs. You can't afford to overlook these prices as they lead the market.

SEMI-COLLAPSIBLE STEEL FRAME DOLL GO-CARTS

Black enameled frame, gear and wheels

F280-28 F282

F283

F280—Ht. 20 in., steel frame 11x8 in., assid. colors leatherette, 8 in. wire spoke steel wheels, 1 piece flat steel handle. Assid. 24 doz. in carton, 20 lbs. ..... Doz. **$4.80**

F282—Ht. 22½ in., body 14x10, 6 in. steel side wheels, leatherette body and hood, continuous steel pusher handle, 24 doz. in carton, 18 lbs. ..... Doz. **$9.60**

F281 Ht. 20 in., steel frame 11x8 in., assid. colors leatherette, 8 in. wire spoke steel wheels, automatic spring, 1 piece flat steel handle. Assid. 24 doz. in carton, 24 lbs. Doz. **$5.75**

F283—Ht. 22½ in., body 15x18 in., 6 in. rubber tire wheels, automobile style top, 37 in. reversible hood, pusher handle, 6 in carton, 19 lbs. (Total $8.82) Each, **98c**

FIBER DOLL CABS

Reclining back, adjustable hoods, shellacked steel springs and gears, enameled black for natural bodies and ivory for grey bodies

Ht. 23 in., loom woven body 18x8 in., 6 in. wheels, fiber body and hood, reclining back, adjustable hood, shellacked steel springs and gears, rubber tires, double spoke wheels, 2 in carton, 9 lbs.

F317 Natural Each **$2.75**

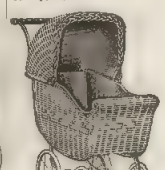
F318 Grey

Ht. 24 in.—Body of wood, 18x8 in., 7 in. wheels, hub caps, Princess cord, grey upholstered, 1 in carton, 13 lbs.

F320—Natural } Each
F321 Grey } **$4.50**

REED DOLL CABS

Attractive shell and fancy panorama, all body artistically enameled in the staple colors



Ht. 22 in., body 10 x8½ in., half round reed body and hood, full round reed rails, upholstered sides and hood, 4 in. wood wheels, double spoke wire wheels, rubber tires, hub caps, reclining back, round steel pushers, polished wood handle. 1 in a box, 10 lbs.

F338—Natural } Each
F339 Grey } **$4.50**

Ht. 23 in.—Loom woven fiber body, 18x8 in., 7 in. double spoke wheels, cord grey rubber tires, 1 in carton, 13 lbs.

F315—Natural } Each
F319 Grey } **$3.00**

Ht. 27 in.—Body 21x10, hand woven, fiber body upholstered with Princess cord grey, 7 in. double spoke wheels, rubber tires, 1 in carton, 15 lbs.

F331 Natural..... } Each
F332—Grey ..... } **$5.50**

ALL STEEL ENGLISH DOLL PERAMBULATORS

F302—Ht. 23 in., body 17x9 in., assid. black and brown, gold stripe, bodies, 6 in. black enameled angle spoke wheels, reversible pusher, 9 bow leatherette hood, rear irons, rubber tired wheels, black

F303—Ht. 23 in., body 17x9 in., assid. black and brown, gold stripe, bodies, 6 in. wheels, rubber tires, double spoke steel pusher, polished wood handle, 1 bow head, leatherette hood, gear body pusher, good

ALL STEEL DOLL SULKY

Black enameled with gold striping

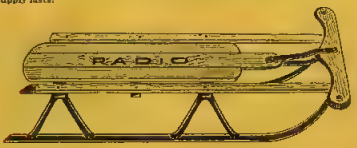
F353 Steel body 8x27½ in. at back, 12 in. O in. steel wire wheels, folding loop handle, ½ doz. in

Ht. 29 in., body 21 x10 in., half round reed body and hood, full round reed rails, Princess corduroy upholstered sides and hood, reclining back, 8 in. double spoke wire wheels, rubber tires, hub caps, round steel pushers, polished wood handle. 1 in carton, 12 lbs.

STIMULATORS

32 In. "Radio" Steering Sled

We have not stamped quality nor substituted inferior steel. At this price only while our present supply lasts.



F478—32x12x8 in., red painted steel knees and spring steel runners, selected ash tops, varnished natural finish, black stenciled "RADIO" with red elastic finish. ¼ doz. in bdl., 14 lbs. **$9.00** Doz.

"DAN PATCH" JUVENILE AUTO

Well made and attractively enameled. They will stand a lot of wear and tear

F282—24x24 in., yellow enameled body, red wheels, black trim, gasoline tank, mahogany finish seat and 12x11 adjustable Pyroline windshield, steel guards, high backed seat, black steel gearings, 14 in. double spoke wheels, ¾ in. rubber tires, 1 in crate, 80 lbs. Each **$11.50**

"BALL-BEARING" VELOCIPEDES

Famous for their fine construction, finish and wearing qualities. And these special prices make them unusual Holiday leaders.

Carmine enameled, tubular frame, fork and rim, gold striping, arched fork crown, all joints hand brazed, ball-bearing wheels, bicycle spokes and nipples, 1 in. cushion rubber tires, padded bicycle saddle, drop forged crank, adjustable handle bar with forward extension rubber motor bike grips, solid rubber pedals.

F193—16 and 18 in. wheels, 2 to 4 yrs., 1 in crate, 35 lbs.	F194—20 and 24 in. wheels, 5 to 8 yrs., 1 in crate, 42 lbs.	F195—24 and 26 in. wheels, 5 to 7 yrs., 1 in crate, 48 lbs.
Each, **$9.00**	Each **$11.00**	Each, **$13.00**

"OVERLAND" COASTERS

Red enameled, hardwood seat and handle bars, steel fork, steering gear and wheel supporters, green enameled steel wheels, rubber tires. Priced about 20% under market.

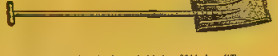
F212—Baby coaster, length 26 in., ht. 16¼ in., ht. of seat 8½ in., seat 15½x7¼ in., wheels 6 in., 8 spokes, ¾ in. rubber tires. 2 in. carton. 10 lbs. (Total $2.80) Each **$1.40**

F213—Length 24 in., ht. 21 in., ht. of seat 11 in., seat 20x9½ in., wheels 8 in., 12 spokes, ¾ in. rubber tires. 2 in. carton, 20 lbs. Tr. a $3.70 Each **$1.85**

F214—"Overland Limited," length 28½ in., ht. 24 in., seat 19½x10½ in., ht. of seat 11 in., ivory enameled front steel steering gear and frame, double spoke 8 in. wheels, ¾ in. rubber tires. 3 in carton. Each **$2.25** (Total $4.70)

KIDDIES' SNOW SHOVEL

A knockout value as a 10 center



F2965—21½x6½ galvanized steel blade, 20½ in. "T" handle, length over all 35 in. 1 doz. in bdl. Doz. **85c**

STIMULATORS

IMPORTED WOOLLY SHEEP

The regular price on this toy is much higher

F8824—8x3¼ in. sheep and 2 lambs, painted features, color bands on 6 collars, artificial tree, metal wheels. ½ doz in box. Doz. **$1.15**

BOARD COVER TOY BOOK ASSORTMENT

"Story Hour" Series

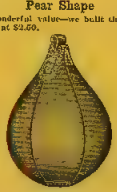
A particular series always in demand that you can now offer as a 20 center.

84397—8 titles, 10½x7⅝, 64 pages. Twilight Stories, Adventures of Trix and Nix front and back covers in 4 colors. Illustrated throughout. Assid 1 doz. in pkg. Doz. **$1.50**

"PENNANT" PUNCHING BAG

Pear Shape

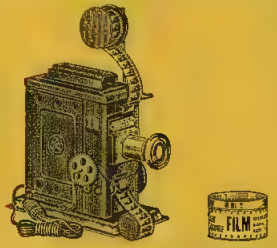
A wonderful value—we built this special to retail at $2.50.



1K8834—"Champion Jr." heavy selected tan grain glove leather, one piece hand reinforced top and bottom, leather hanger, tubular lace, slightly tender regulation size. 1 in box. Each. **$1.35**

"Kinograph" Electric Moving Picture Machine And Films

Real miniature moving picture machines, the kiddies and grown-ups can have their moving picture show at home. Non-flammable film. Purchases and film passed by the Fire Underwriters. Distributed exclusively by Butler Brothers.

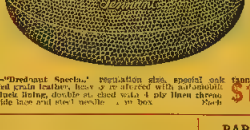


F4803—9½x5x13½ in. wind up tin camera movements, crank and gear action wood grip handle, patented spring action, polished plates for holding film in place, adjustable focus porcelain socket, nickeled reflector, ventilated top and sides, adjustable supported bracket with reel for holding film, 5 ft. covered electric wire to 3 volt plug for attaching to light socket. 3 ft. length spliced film, each packed in special labeled shipping carton with film. Each, **$3.67**

F4805—Extra films for F4803 machine, three 3 ft. length films in box. Assid. COMIC, WESTERN and SCENIC. Box, **$1.05**

"PENNANT" GENUINE LEATHER FOOT BALL

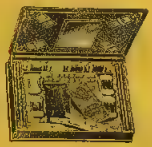
Regulation size. Especially desirable for the premium or Holiday trade



1K8910—"Dreadnaut Special." regulation size, special oak tanned heavy pebbled grain leather, heavy reinforced with automobile tire duck lining, double stitched with 4 ply linen thread, rawhide lace and steel needle. 1 in box. Each **$1.20**

IMPORTED TOY FANCY WORK BOX

We have saved this item for a big December special.



F9828—32 pcs., 10½x8½ in. fancy leather cloth covered cardboard box, 4 pkgs. needles, 1 spool hard rolled thread, large card buttons, 3 cards of tendency thread, 6 skeins mercerized cotton, tape measure, transfer pattern mirror in cover. ½ doz. sets in pkg. Doz. Sets **$7.00**

EUROPEAN CHINA TOY TEA SETS

Two big values at lower than usual prices.

R4408—17 pcs., blue orange and green flowers and foliage sprays, blue striped bands, edges, handles and spout. Box 13½x8 10½. ½ doz sets in pkg. Doz. sets, **$9.00**

R4409—18 pcs. practical sizes, can be used as breakfast set. Pearl yellow sprays and lavender leaf vines and lines on dark blue tinted band, green striped edges, handles and spouts. Box 13½x10 10½. ½ doz. sets in pkg. Doz. sets **$13.25**

CUT-OUT SHAPE PAINTING BOOK ASSORTMENT

36 page book with 8 in colors. A splendid value and profitable seller

84389—2 titles, 10x13, 36 pages, Menagerie Paint Book, Old Mother Hubbard, heavy manila covers, 8 pages in colors. Assid. 1 doz. in pkg. Doz. **$1.65**

PAPER COVERED HOLIDAY BOOK ASST.

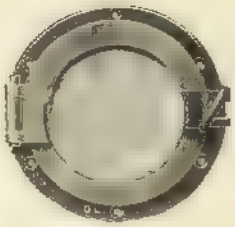
Animal Shape Cut-Out Series

Flexible paper covers. A wonderful 10c value

84383—4 titles, 12 x7, cut-out animal shapes, 10 pages. Peppy Pup, Teddy Bear, Bunny Rabbit, Chuck Squirrel, 6 full color pages. Assid. 1 doz. in pkg. **75c**

Doz. **$8.75**

METAL & OTHER FITTINGS



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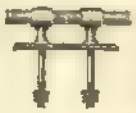


No. 1088
PARSE

No. 1020
(PERCH)

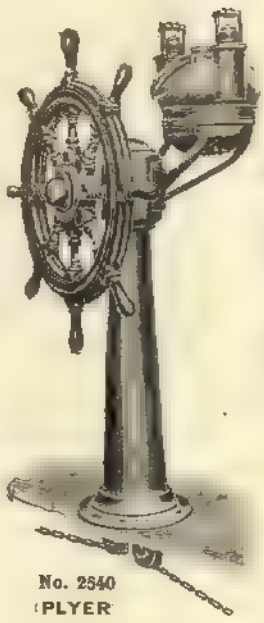
No. 3171
(PHLOX

OF ALL

KINDS

No. 2633
(PAINS)

No. 9575
(PHOTO



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ACCESSOIRES EN MÉTAL ET AUTRES
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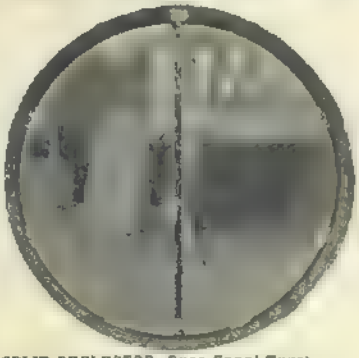
POUR NAVIRES, YACHTS, CANOTS
AUTOMOBILES, Etc.

ACCESORIOS DE METAL
Y DE TODA OTRA CLASE
PARA BUQUES, YATES, LANCHAS, BOTES
AUTOMÓVILES, Etc.

DETA—UGEV

C. A. PARSONS & COMPANY. LTD.

MANUFACTURERS OF SEARCHLIGHT REFLECTORS AC OF ALL DESCRIPTIONS AND SIZES.



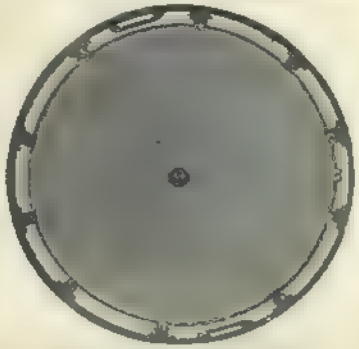
SPLIT REFLECTOR (Suez Canal Type).
The view above shows a Reflector of which the halves are hinged together. By this means a single or divided beam or two beams at varying angles with each other can be obtained. With a combined Parabola Ellipse Curvature a beam can be obtained of any width from half to the full width of the Reflector or two beams at an angle to each other, with a dark centre between. The hinged parts are manipulated by a small lever at the back of the Reflector

RÉFLECTEUR EN SEGMENTS (Type du Canal de Suez)

La gravure ci-dessus représente un réflecteur dont les moitiés sont jointes par une charnière. Par ce moyen on peut obtenir un faisceau unique, un faisceau divisé ou deux faisceaux présentant entre eux un angle variable. Une zone d'ombre centrale peut également être obtenue avec une courbure combinée parabole-ellipse. Les parties articulées sont manipulées par un petit levier situé à l'arrière du réflecteur.

REFLECTOR HENDIDO (Tipo Canal de Suez)

El grabado de arriba representa un reflector, cuyas dos mitades se hallan engoznadas entre sí. Por este sistema se obtiene un rayo sencillo o dividido o dos rayos á ángulos diferentes entre sí con una zona de sombra entre ellos. También se puede conseguir un rayo de cualquier amplitud desde la mitad hasta la totalidad del ancho del Reflector ó dos rayos en ángulo uno con el otro, con un centro obscuro entre ellos. Las partes engoznadas se hallan manipuladas por una palanca pequeña en la parte posterior del Reflector



REFLECTED IMAGE OF TWO SETS OF PARALLEL LINES AT RIGHT ANGLES TO ONE ANOTHER.
The Reflector is mounted in its supporting ring.

RÉFLEXION DE DEUX FAISCEAUX DE LIGNES PARALLÈLES À ANGLE DROIT L'UNE DE L'AUTRE. Le réflecteur est monté sur son anneau de support.

IMAGEN REFLEJADA DE DOS HILOS DE LINEAS PARALELAS EN ANGULO RECTO

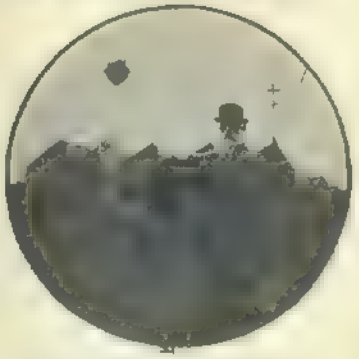
El Reflector se halla montado en su anillo de sostén

TABLE OF STANDARD SIZES OF PARABOLIC REFLECTORS.

Table des Dimensions normaux des réflecteurs Paraboliques.

Cuadro de los tamaños de reflectores parabólicos.

Working Diameter. *Diamètre effectif* Diámetro útil		Focal Length. *Longueur du foyer* Largo focal.		Weight with Paint Backing *Poids avec partie postérieure peinte.* Peso con respaldo pintado		Weight with Lead and Wire Backing. *Poids avec partie postérieure en plomb et de treillis métallique.* Peso con parte posterior enchapado en plomo y tejido de alambre	
Inches.	mm.	Inches.	mm.	Lbs	Kgs	Lbs.	Kgs.
10	254	6	152	2½	1,13	4¼	1,93
12	305	6	152	3½	1,70	8	3,63
15½	400	8½	210	6	2,72	10½	4,76
20	508	10	254	9½	4,31	16	7,26
20	508	12	305	9	4,08	15	6,80
24	610	10	254	14	6,35	22	10,00
24	610	12	305	13	5,90	21	9,52
30	762	12	305	32	14,51	44	19,95
30	762	14½	375	31	14,06	42	19,05
35½	900	14½	375	44	19,95	60	27,2
35½	900	16½	420	42	19,05	58	26,30
43½	1,100	18½	480	64	29,03	95	43,10
43½	1,100	20½	520	60	27,22	90	40,82
46½	1,190	20½	520	82	37,19	109	49,44
46½	1,190	23½	600	80	36,28	107	48,53
53½	1,350	25½	654	91	41,27	131	59,42
59½	1,510	25½	654	103	46,72	172	78,02



The view above shows the front of a protected Reflector which has been pierced by a rifle bullet. Although shattered to a considerable extent, the Reflector is held together by the protection on the back and gives practically as good a beam as before.

La gravure ci-dessus représente la partie antérieure d'un réflecteur protégé, qui a été percé par une balle de fusil. Quoique fracassé dans des proportions considérables, le réflecteur ne s'est pas mis en pièces parce qu'il est maintenu par le chemisage, dont celui-ci est recouvert, et il projette encore un rayon aussi puissant qu'auparavant.

El grabado de arriba representa la parte delantera de un Reflector protegido que ha sido atravesado por una bala de rifle. Aunque destrozado considerablemente, el Reflector se mantiene junto por su protección en la parte posterior, y proporciona un rayo de luz casi tan bueno como anteriormente.

The view above shows the protection on the back of the Reflector, consisting of lead and wire netting covers secured to the edge of the Reflector by a clamping ring

La gravure ci-dessus représente le blindage postérieur du réflecteur, consistant en chapes de plomb et de treillis métallique, fixées aux bords du réflecteur par un anneau à griffes.

El grabado de arriba representa la protección en la parte posterior del Reflector, y consiste en cubiertas de plomo y tejido de alambre sujetas al borde del Reflector por un anillo de sujeción.

PRICES AND FULL PARTICULARS WILL BE SENT ON APPLICATION TO

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Para precios y detalles completos, diríjanse a

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Etude et construction de bateaux à vapeur de toutes classes pour passagers, paquebots-courriers, bateaux de plaisance, bateaux marchands et chalands. Plans et spécifications [illegible] des bateaux.
Bateaux à vapeur à aube arrière, de côté et à tunnel, et allèges étudiés et construits dans nos usines. Livrés en plaques et cornieres pour l'expédition à l'étranger.

Diseñadores y constructores de toda clase de buques de pasajeros. Paquebotes, buques de recreo, mercantes, vapores y gabarras. Planos y especificaciones para satisfacer cualquier requerimiento.
Barcos de ruedas de popa, laterales y de túnel y también lanchones, diseñados y montados en nuestros talleres. Expedidos en planchas y ángulos para el embarque al extranjero.

Contratistas del Almirantazgo, Ministerio de la Guerra y Gobiernos Extranjeros.

DAZEY CHURNS

Heavy clear glass jar, beveled corners; nickel plated, stamped steel threaded screw cap top; cast iron gear frame, with hand grip riveted to top, aluminum finish; machine cut gearings; accurately fitted cast crank, with wood handle; hardwood turbine dasher with four paddles, smoothly grooved and nailed; tinned steel dasher rod

Nos.	10	20	30	40
Per dozen	$17.25	22.25	27.75	35.00
Capacity, pints	2	4	6	8
Churns, pints	1	2	4	5
Jar size, inches	3¼ x 7½	4¾ x 8	5¼ x 9	6 x 9½
Height over all, inches	11	12	13	14
Weight each, pounds	3	5	6	7

EXTRA GLASS JARS

Nos.	10J	20J	30J	40J
Per dozen	$5.40	5.75	8.00	10.75
Weight each, pounds	2	3	4½	5¼

Tank made of heavy copper bearing charcoal tin, triple plated, enameled blue outside, aluminum letters; two piece white maple covers, natural finish four paddle turbine dasher; heavy tinned steel dasher rod, solid steel side rods, gray iron bases, bridges, gears and fly wheels. Natural finish maple handles; metal parts, except tank, two coats of bright aluminum.

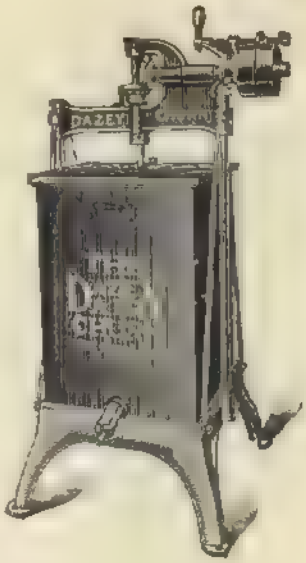
Nos.	200	300
Each	$4.75	6.00
Capacity, gallons	2	3
Churns, gallons	1	2
Base	8 x 8	10 x 10
Height over all, inches	21	25
Weight crated, pounds	13	21

Nos. 400 and 600

Nos. 1000 and 1600

Nos.	400	600	1000	1600
Each	$7.50	9.00	15.00	30.00
Capacity, gallons	4	6	10	16
Churns, gallons	3	4	7	12
Base, inches	11 x 11	12 x 12	15 x 15	19 x 19
Height over all, inches	27	31	39	47
Weight crated, pounds	26	37	58	100

DAZEY CHURNS



Tank made of heavy copper bearing charcoal tin, triple plated, enameled blue outside, aluminum letters; two piece white maple covers, natural finish; four paddle turbine dasher, heavily nickel plated dasher rod, solid steel side rods; gray iron bases, bridges, gears and fly wheels; natural finish maple wood handles; metal parts, except tank, two coats of bright aluminum; tight and loose pulleys.

No.	2800
Each	$60.00
Capacity, gallons	28
Churns, gallons	18
Base, inches	23 x 23
Height over all, inches	48
Pulley, inches	5 x 1½
Weight crated, pounds	200

DAZEY ELECTRIC CHURNS

Tank made of triple plated copper bearing charcoal tin; blue enameled on outside; cast gray iron and steel frame, finished two coats of bright aluminum; high base to permit a pail being set under to catch milk or washing water; sanitary faucet in tank; two piece maple cover, natural finish; four paddle turbine dasher; heavily nickel plated dasher rod; gears at top inclosed; high grade motor mounted on churn; 10 foot heavily insulated cord with attachment plug and belt. Motors of 110 and 220 volts, 60 cycle, single phase, alternating current, also 32 and 110 volt, direct current, compound wound, are regularly furnished. Special motors at an extra charge.

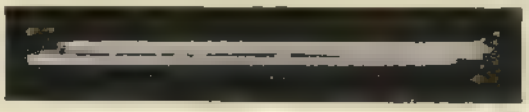
Nos.	450M	650M	1050M
Each	$52.50	58.00	70.00
Capacity, gallons	4	6	10
Churns, gallons	2	3	5
Motor, horsepower	⅛	⅛	¼
Height over all, inches	31	34	36
Weight crated, pounds	75	85	100

NOTE—When ordering motors for alternating current, specify voltage, cycle and phase. For direct current, specify voltage only.

FOLDING IRONING TABLES

RID-JID

Showing table open with its rigid construction. The simplest, lightest and sturdiest folding table built. The truss construction makes it strong and sturdy; will not tip over. The open end construction permits ironing skirts at full length without lifting the board. Stands rigid on uneven as well as even floors. The sliding stretcher rods are made of heavy gauge wire, which prevents binding. Main legs are attached to a sheet metal housing which in place is attached securely to board. The inner braces of main legs are steel and prevent spreading. A sleeve board can be easily attached at a small additional cost. Made of aeroplane spruce



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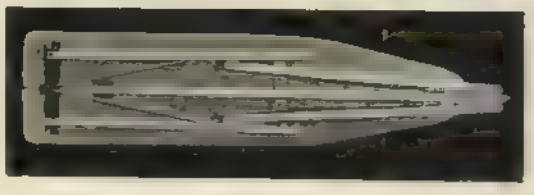


Under Part, Showing Legs and Frame Closed

Rid-Jid Folding Ironing Table

Size of board, inches	13x54	15x57
Height opened, inches	32	32
Weight, pounds	14	16
Each	$5.00	5.00

SLEEVE BOARDS

Sleeve Boards. Made of aeroplane wood; size 5x24 inches; weight each 1½ pounds.....each, **$0.75**

Ironing tables, two in a bundle; sleeve boards, six in a crate

DASH CHURNS

ASH

RED CEDAR

Ash Dash Churns

Ash, made of select white ash lumber, tongued and grooved staves, sunken lid, steel hoops; finished with three coats of varnish

Churns, gallons	3	5	7
Each	$....	....	.
Weight, pounds	10	14	17

Red Cedar Dash Churns

Red cedar, with four brass hoops; selected cover, dash and handle

Gallons	3	4	5	6
Each	$		.	.
Weight, pounds	11	12½	14	16

Half dozen in a crate

STEEL CHURNS

Nos. 1 to 4

No. 4½

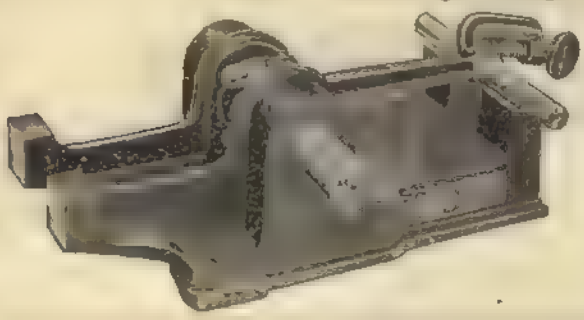
STURGES

Barrel of churn is all steel, blue enameled outside, heavily tinned inside, cork lined cover, malleable iron trunnions, steel welded frame without bolts or rivets. Painted red. The No. 1 has a low frame, for table churning, Nos. 2 and 3 with 24 inch stands; the No. 4½ is fitted with a tight and loose pulley.

Nos.	1	2	3	4	4½
Each	$. ..		...	..	
Will churn gallons	½ to 2½	1 to 3½	1 to 5	2 to 7	2 to 7
Height to trunnion, in..	11	24	24	24	24
Weight, pounds.....	18	30	36	62	62
Each	$8.00	10.00	11.00	13.00	15.00

Dearborn Connecting Rod Aligning Devices

For Fords



A compact, well built jig for aligning, testing and straightening Ford connecting rods.

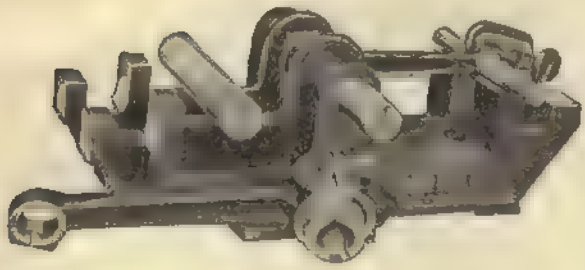
It enables the operator to determine whether or not connecting rods are bent or twisted.

Weight, 32 lbs.

No. C1.....each, **$25.00**

Dearborn Connecting Rod Aligning Devices

For Fordson



A compact, precisely machined and neat appearing jig for aligning, testing and straightening Fordson connecting rods.

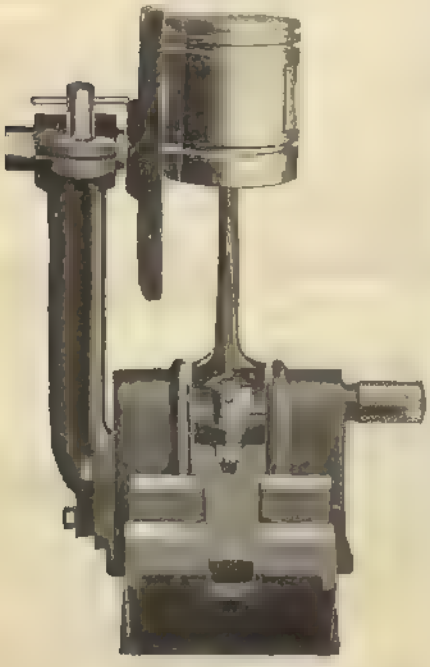
It helps the mechanic to quickly determine whether or not connecting rods are bent or twisted.

Weight, 46 lbs.

No. C2.....each, **$37.50**

Dearborn Connecting Rod and Piston Alignment Devices

For Ford and Fordson

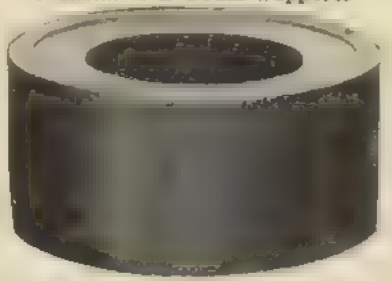


This device is for aligning, testing and straightening Ford and Fordson connecting rods, also for squaring pistons with crank shaft bearings. It enables operator to determine whether or not connecting rods are bent or twisted and allows straightening or adjusting to be done without removing rods from mandrel.

Weight 60 lbs.

No. C3.....each, **$50.00**

Transmission Drum Supports



Supports Ford transmission drums on arbor press while removing and replacing bushings.

No. 13M .....each, **$2.50**

H-M Transmission Band Relining Machines

For Fords

Regulation split or tubular rivets can be used in this machine. The upsetting die turns the tip of the rivet over and forces it into the strands of the lining. The strongest kind of purchase is thus provided for the rivet. The rivets are clinched with a uniform smooth surface and cannot score the transmission drums. The lining cannot buckle, as the operator has one hand free at all times to hold the lining to a perfect fit. No trouble is experienced in using this machine should the hands of the operator be greasy.

No. MM22..... .....each, **$22.50**

Combination Gear Pullers

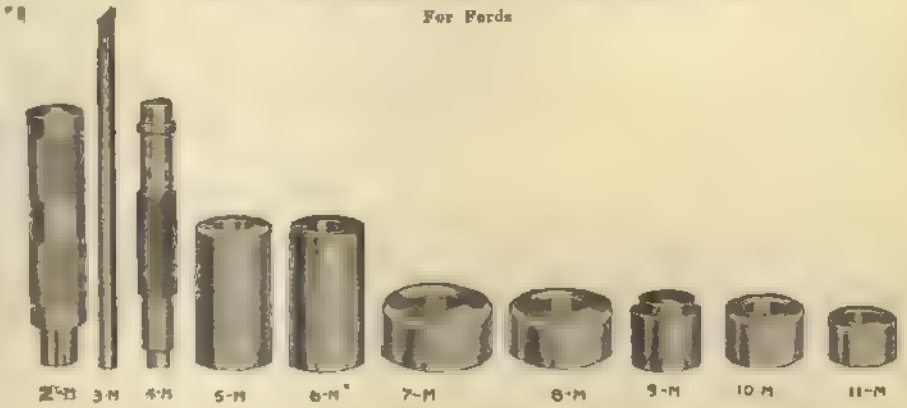
For removing small gears. Behind each finger is a coil spring, making action quick and easy. A collar slips over the fingers, and holds them in place.

Shipping weight, 10 lbs.

No. HM26.....each, **$10.00**

Arbor Press Bushing Drivers and Ball Race Tools

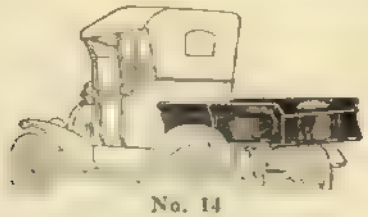
For Fords



These tools are made of the highest quality hardened steel.

No.		Each
1M	Handle for Nos. 4, 5, 7 and 8	$....
2M	Handle for Nos. 3 and 6	2.25
3M	Spindle body bushing driver	.90
4M	Spindle arm bushing, triple gear and wrist pin driver	2.25
5M	Tool for driving timing gear on crank shaft	2.25
6M	Tool for driving axle shaft gear and propeller shaft bearing sleeve	3.00
7M	Front wheel inner ball race driver	$2.50
8M	Reverse drum bushing driver	2.50
9M	Block for use in pulling driven gear	.50
10M	Front wheel outer ball race driver	1.25
11M	Slow speed drum bushing driver	1.25

*EXPRESS BODIES FOR FORD CARS



No. 14

Slip-On Type for Any Model T or Ford Roadster

33 inches wide, 12 inches high over all, 4½ inch flare boards. Flare boards and cross rails of hardwood. Three double steel braces on each side. Flare boards will not mash down, they are braced. Painted black. Weight 115 pounds.

Bottom and cross rails put together ready to receive sides and ends. Sides, ends and flare rails packed flat, which takes a low rate of freight, and is easily bolted together.

No. 14 48 inch .....each, $11.25
No. 14 60 inch .....each, 12.25

No. 15

For Any Model T Ford Car

Loading space, 43 x 63 inches; 15 inches high over all. Flare boards and cross rails of hardwood. Balance of body selected material. Body throughout is well ironed. Flare boards and bottom stripped with wear plates. Chain end gate adjustable to any load.

Weight crated for shipment, 375 pounds. Painted black.

Base is put together ready to receive sides and ends, which are packed flat to insure a low rate of freight. Easily set up. Furnished complete with foot boards and half length lazy back. Note bracing on flare board.

No. 15 Without cushion ..... each, $35.00
Cushion extra ..... each, 4.00

No. 19

Open Express Type, with Cab for Any Model T Ford Car

Same specifications as No. 15, except cab. Built to last. Painted black. Shipping weight, 450 pounds.

Deck of cab covered with oil drill, has hardwood posts and substantially bolted together.

No. 19 Without cushion ....each, $48.00
Cushion extra ....each, 4.00

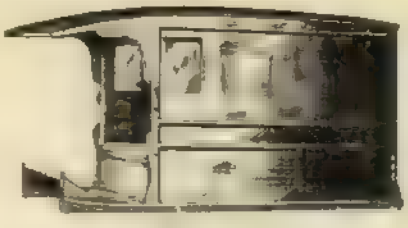
No. 18

Covered Express Type for Any Model T Ford Car

Same specifications as No. 15, except top. This top has six hardwood posts furnished with steel braces bracing it both ways, insuring a rigid job. Top deck covered with black oil drill.

This body furnished with five curtains. One small curtain on each side of the driver's seat with celluloid lights. Two full length side curtains, and one rear curtain with celluloid light. All curtains black oil drill, furnished with straps and buttons for fastening to flare boards and end gate. Shipping weight, 500 pounds.

No. 18 Complete except windshield..... each, $67.25
Windshield extra ..... each, 16.50
Cushion extra ..... each, 4.00



No. 32

Inclosed Type for Any Model T Ford Car

This body is designed for Model T Chassis Ford car. Very desirable for laundry, hardware, bakery, in fact an all purpose enclosed body. Well made and well ironed. Side and door panels are of Vehisote or built up wood panels and are water proofed—no sheet iron sides to rattle. Painted black only. Two rear doors with glass in top panel. Loading space, 43 x 60 inches, 52 inches high.

No. 32 Complete .....each, $125.00

No. 20

Platform Stake Type for Ford One Ton Truck

Loading space, 60 x 90 inches. All framing of hardwood. Well ironed and well bolted to longitudinal sills. Wear strips on platform. Stake panels can be removed for use as platform truck body. Glass both sides and rear of cab. Shipping weight, 900 pounds. Shipped, one coat priming only unless otherwise ordered.

No. 20 Complete with windshield .....each, $91.00
Windshield extra .....each, 16.50
Cushion extra .....each, 5.00

No. 24

Stake Body Type for One Ton Ford Truck

This body designed for an all purpose stake body. Made of hardwood, 2 inch rail all around. Hardwood floor stripped with steel wear plates. Well made and well ironed.

No. 24 60 x 90 .....each, $68.75

Above body made with floating sills. U bolts furnished for attaching to any truck.

No. 21 Windshields

54 inches high, 40 inches wide. Glass size, 20 x 32 inches.

Fits either No. 17, 18, 19 or 20 express bodies.

Made of hardwood and well ironed.

Adjustable sash.

Weight, crated, 90 pounds

No. 21.....each, $16.50

*All items on this page are shipped direct from factory only.

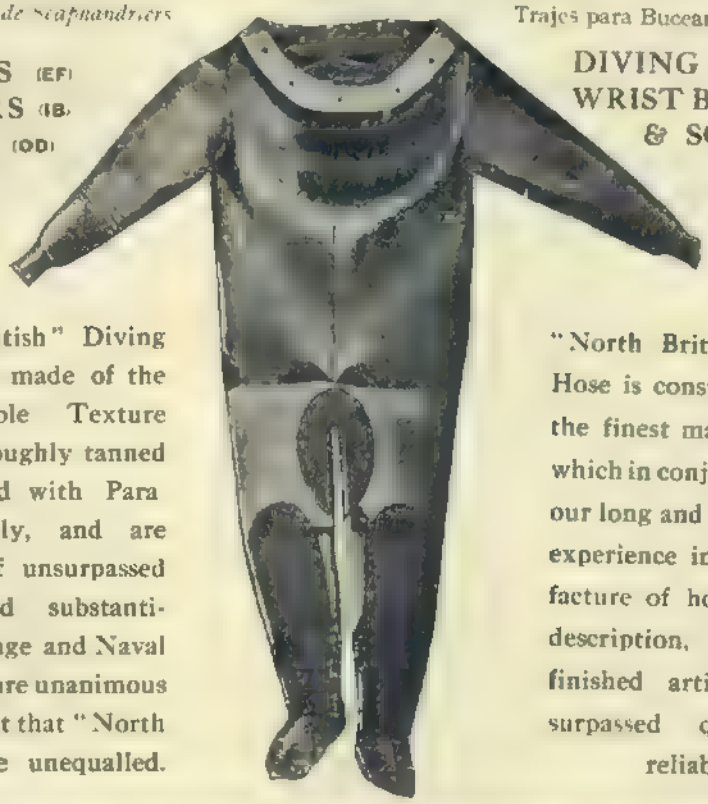
NORTH BRITISH

DIVING DRESSES AC

Vêtements de Scaphandriers

Trajes para Bucear

GLOVES (EF)
COLLARS (IB)
& CUFFS (OD)



DIVING HOSE (UX)
WRIST BANDS (SA)
& SOLUTION (PE)

"North British" Diving Dresses are made of the Best Double Texture Twill, thoroughly tanned and proofed with Para Rubber only, and are therefore of unsurpassed quality and substantiality. Salvage and Naval authorities are unanimous in agreement that "North British" are unequalled.

"North British" Diving Hose is constructed from the finest materials only, which in conjunction with our long and accumulated experience in the manufacture of hose of every description, ensures a finished article of unsurpassed quality and reliability.

NORTH BRITISH

Les vêtements de scaphandriers "North British" sont fabriqués en toile de double épaisseur, tannée à fond et imperméabilisée avec du caoutchouc Para seulement. Leur qualité est inégalée, leur solidité est sans pareille. Les autorités navales et de sauvetage sont unanimes à reconnaître que les étoffes "North British" sont inégalées.

Le tuyau de scaphandre "North British" est fabriqué avec les meilleures matières qui, en combinaison avec notre longue expérience dans la fabrication de tuyaux de toutes descriptions, assure un article fini d'une qualité et solidité sans pareilles.

Los trajes de buzo "North British" son hechos de la mejor calidad de doble textura de la mejor calidad curtida y impermeabilizada perfectamente con Caucho del Para solamente, de calidad suprema y substancia fuerte. Las Autoridades Navales y de Salvamento estan unanimente de acuerdo que las productos "North British" no tienen rivales.

La Manguera "North British" está fabricada solamente de materiales de la mejor calidad y esto en unión con nuestra experiencia larga y acumulada en la fabricación de toda clase de mangueras garantiza la producción de un artículo de calidad sin rival y digno de toda confianza

THE NORTH BRITISH RUBBER Co Ltd
CASTLE MILLS EDINBURGH

EXPORT DEPARTMENT
Section d'Exportation Departmento de Exportación
204, Tottenham Court Road,
London, W.C

Codes used Códigos
A B C (4th & 5th Editions) Lebers,
Western Union Marconi International
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The NORTH BRITISH RUBBER CO LTD

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All specifications of ship's fittings should specially stipulate that all glass must be "Triplex" because it cannot splinter or fly in fragments, and even when smashed remains airtight and watertight and is absolutely transparent.

Effect of Gunfire on a Triplex Glazed Bridge Screen.

Toutes les spécifications d'appareils pour usage dans les navires devraient stipuler d'une facon spéciale que tous les verres soient en "Triplex" parce qu'il ne peut ni se fendre ni voler en éclats et que même quand il reçoit un choc il reste étanche à l'air et à l'eau et est absolument transparent.

Todas las especificaciones de accesorios para navíos deberían estipular específicamente que todo el vidrio sea "Triplex," porque no puede romperse ó saltar en fragmentos, y, aún cuando quebrado, permanece estanco al aire y al agua siendo absolutamente transparente

TRIPLEX *Safety* GLASS

UNSPLINTERABLE!

THE "TRIPLEX" SAFETY GLASS CO., LTD.,

(REGINALD DELPECH, Managing Director.)

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DENT & CO. & JOHNSON, LTD., Scientific and Navigational Instrument Makers,
LINWOOD, Near PAISLEY, SCOTLAND.

Fabricants d'Instruments scientifiques et de navigation, LINWOOD, près PAISLEY, SCOTLAND.

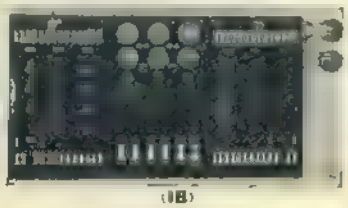
Fabbricanti di strumenti scientifici e per navigazione, LINWOOD, presso PAISLEY, SCOZIA

AC

(EF) Battleship and Cruiser Standard Compass and Binnacle British Admiralty Patterns

Boussole et habitacle de type de navire de guerre et croiseurs. Modèles du Ministère de la Marine Britannique

Tipo modello di Bussola ed Abitacolo per corazzate ed incrociatori come usato dall'Ammiragliato britannico



(IB) Main Switchboard for Large Passenger Liner.

Tableau de distribution principal pour grands paquebots

Quadro di distribuzione principale per grande [illegible]

OD) Aero Compass for Scout Machine. British Admiralty Pattern

Boussole "aero" pour appareil [illegible] Modèle du Ministère de la Marine

[illegible] per [illegible] dell'Ammiragliato britannico

Manufacturers of
HIGH-CLASS COMPASSES and BINNACLES
of every description
for War and Merchant Vessels, Aircraft, etc.

JOHNSON'S PATENT
LOUD SPEAKING TELEPHONES for Ships.
Communicating between Navigating Bridge, Engine Room, Forward and After Positions, etc.

MAIN SWITCHBOARDS and DISTRIBUTION BOARDS for Ships.

Suppliers of
COMPLETE NAVIGATIONAL EQUIPMENTS.

Contractors to
BRITISH ADMIRALTY, AIR MINISTRY, MINISTRY OF MUNITIONS, etc.

PRICES ON APPLICATION.

Codes: A.B.C. (5th Edition), Marconi International

Fabricants de boussoles de toute grandeur et d'habitacles de toute description pour navires de guerre et marchands, aéroplanes, etc.

Téléphones haut-parleurs pour navires, brevet "Johnson." Communiquant entre la passerelle du commandant, la salle des machines, les positions avant et arrière, etc.

Tableaux de distribution principaux et Tableaux de distribution de courant

Fabricants d'équipements de navigation complets.

Fournisseurs des Ministères de la Marine Britannique, de l'Aviation et des munitions, etc.

Prix sur demande

Codes A.B.C. (5e Edition) et Marconi International.

Fabbricanti di Bussole di prim'ordine e di Abitacoli di [illegible] genere

Telefono per navi, a voce molto sonora, tipo Johnson brevettato; per comunicare dal ponte di navigazione alla sala delle macchine e le posizioni di prua e di poppa

Quadri di distribuzione principali e quadri per distribuzione di corrente per navi

Fornitori di Armamento completo per navigazione.

Appaltatori dell'Ammiragliato britannico, del Ministero di Aviazione del Ministero delle Munizioni, ecc

Prezzi a richiesta

Codici A.B.C. (5a Edizione) e Marconi International.

(UX) Destroyer Binnacles, etc.

Habitacle de contre-torpilleur, etc

Abitacoli ecc., per caccia torpediniere.

(SA) Set of Loud Speaking Telephones for Vessel.

Jeu de téléphones haut parleurs pour navires

Apparecchio telefonico per [illegible] navi [illegible]

(PE Lifeboat Compass. British Admiralty Pattern

Boussole de bateau de sauvetage. Modèle du Ministère de la Marine Britannique

[illegible] per battelli di salvataggio [illegible] Ammiragliato britannico

(TI) Aero Compass for Large Long Distance Machine. British Admiralty Pattern.

Boussole "Aero" pour grands appareils volant de grandes distances.

Modèle du Ministère de la Marine Britannique

Bussola per grandi velivoli a lunga portata. Tipo dell'Ammiragliato britannico.

Telegrams { "Fellows, Cradley Heath." } ESTABLISHED 1841. Codes { A.B.C. 4th & 5th Editions ; Marconi International }

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Specialities:

Patentees and Sole Manufacturers of the Two-speed Hydraulic Jack.
Chains and Anchors of all sizes and for all purposes.
Travelling and Jib Cranes.
Screw and Hydraulic Jacks.
Hoisting Crabs and Rail Benders.
Chain and Rope Blocks of all kinds.
Self-lubricating Cargo Blocks
Castings, any description.
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Fournisseurs ... de la Guerre ...

SPÉCIALITÉS

Seuls fabricants brevetés de crics hydrauliques à deux vitesses
Chaînes et ...
Crics hydrauliques et à vis
Cric ffes de levage et Presse à cintrer le ...
Poulies à chaîne et à câbles de ...
Palans de cargo à ...
Moulages de toutes espèces
Forgeages et estampages
Charronnage. Chaînes à souder électriques

Contratistas del Almirantazgo, ... de la Guerra y de los Gobiernos Extranjeros

ESPECIALIDADES.—

Motores para carga ...

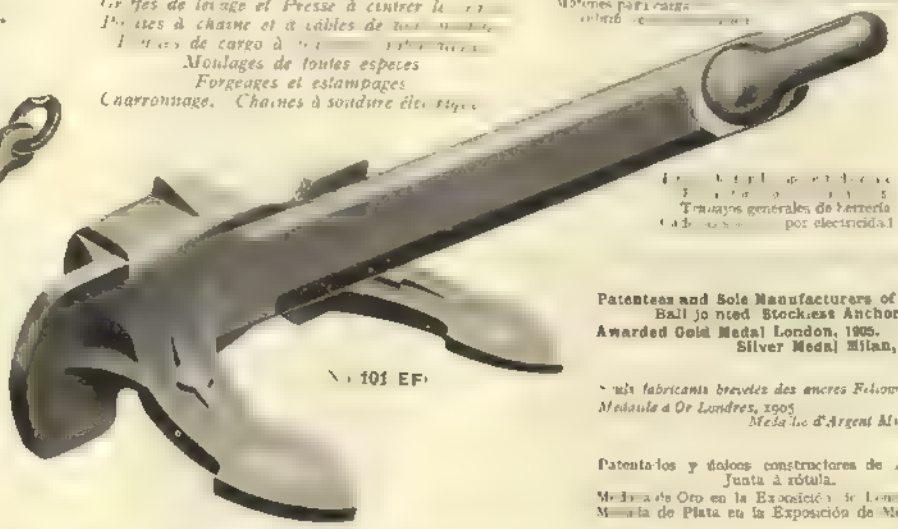
Trabajos generales de herrería ... por electricidad

MUSHROOM ANCHOR.

... forme champignon

Ancla forma Hongo

No 112 AC



No 101 EF

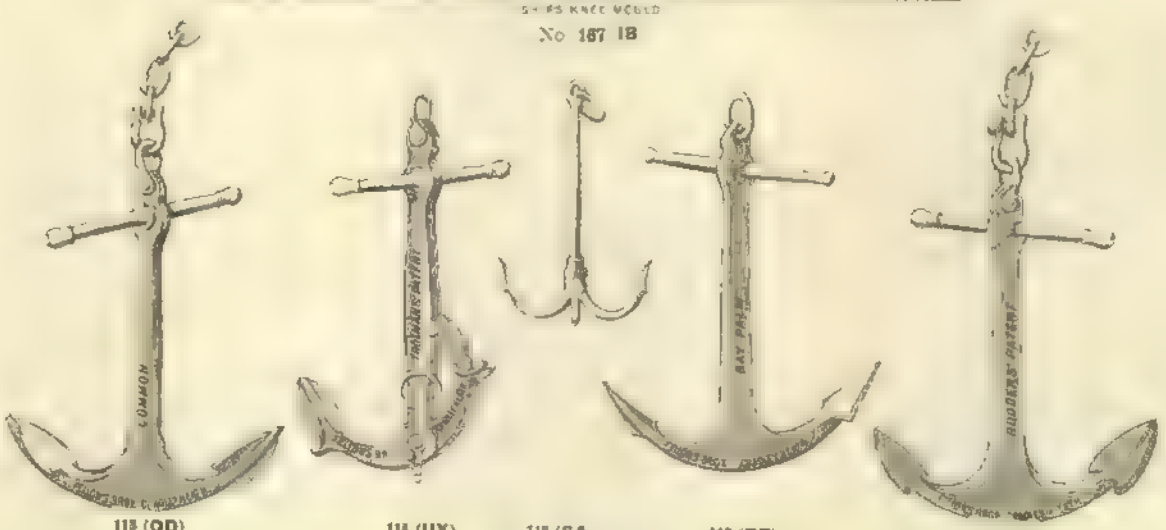
Patentees and Sole Manufacturers of Fellows' Ball jointed Stockless Anchor.
Awarded Gold Medal London, 1905.
Silver Medal Milan, 1906.

Seuls fabricants brevetés des ancres Fellows à rótule
Médaille d'Or Londres, 1905
Médaille d'Argent Milan, ...

Patentados y únicos constructores de Anclas de Junta á rótula.
Medalla de Oro en la Exposición de ...
Medalla de Plata en la Exposición de ...

SHORES KNEE WROUGHT

No 167 IB



118 (OD) 118 (UX) 118 (SA) 118 (PE) 117 (TI)

AUTO CLOCKS

Cowl Type—Rim Wind

These clocks are especially designed for counter sinking in the dash, so as to project only just far enough to wind. Make a very neat appearance. They are finished in black and nickel, or full nickel.

Narrow Rim

NO.		Dial	Wt. Each	EACH
9	Blk & Nic	2⅜ in.	1⅞ lb.	$12 40
9N	All Nickel	2⅜ in.	1⅞ lb.	12.40

Luminous Dial and Hands

NO.	Finish	Dial	Wt Each	EACH
L9	Blk & Nic	2⅜ in.	1⅞ lb.	$11.50
L9N	All Nickel	2⅜ in.	1⅞ lb.	11.50

Cowl Type—Rim Wind

NO.	Finish	Dial	Wt. Each	EACH
12	Blk & Nic	2¾ in.	1⅝ lb.	$11 50
12N	All Nickel	2¾ in.	1⅝ lb.	11 50

Luminous Dial and Hands

NO.	Finish	Dial	Wt. Each	EACH
L12	Blk & Nic	2¾ in.	1⅝ lb.	$13 50
L12N	All Nickel	2¾ in.	1⅝ lb.	13 50

Ford Type—Rim Wind—Not Rim Set

NO.	Finish	Dial	Wt. Each	EACH
4RD	Blk & Nic	2¾ in.	1⅞ lb.	$10.50
4RDN	All Nickel	2¾ in.	1⅞ lb.	10 50

Denver—Key Wind

Flush type; water and dust proof. Height, 4¼ inches; width, 4 inches. Finished in nickel or black enamel.

NO.	Finish	Dial	Wt. Each	EACH
48N	All Nickel	2⅝ in.	1⅝ lb.	$7.50
48B	Blk Enam	2⅝ in.	1⅝ lb.	7.50

Cowl Type—Key Wind

One-day Time

NO.	Finish	Dial	Wt. Each	EACH
2B	Blk Enam	2¾ in.	⅝ lb.	$5.50
2N	All Nickel	2¾ in.	⅝ lb.	5.50

"Grucin"—Thin Model

A cowl type clock of highest quality. Guaranteed 17 jewel movement adjusted to any position. Silvered dial with plain Arabic figures; swing snap cover; rear key wind.

NO.	Finish	Dial	Wt. Each	EACH
E25	Nickel	2¾ in.	⅝ lb.	$25.00

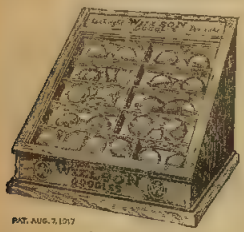
WILLSON'S GOGGLES

FOR AUTOISTS

All material used in the manufacture of Willson Goggles is of the highest standard, and every pair of goggles has to measure up to the highest standard of quality before being placed on the market. These goggles are manufactured for all purposes in various styles, shapes of frame, and colors of lense, including the new Fleuzal color, which is a shade between light green and a smoky color that eliminates the ultra-violet rays, and is very easy and restful to the eyes.

Display Assortment

Mahogany finished metal display case, with glass front and hinged top. Case measures 13⅞x15½x12⅝ in. Contains 30 pairs of Willson's Goggles, assorted as follows:



No Pair	No.	Each
6	N65	$0.25
2	Z57	1 00
4	N86	1.00
3	K7	1.00
3	A1	1.25
2	K1	1.25
2	Z21	1.00
2	Z1	1.25
2	Z2	1.75
2	Z5	1.25
2	Z51	.75

NO.	Wgt. Asst.	ASSORTMENT
1W Asst.	16 lb.	$32.25

Rust-proof white metal frame; easy cable temples. 1⅞-in. amber and Fleuzal colored lenses.

NO.	Old No.	Color	Wgt. Doz.	DOZEN
N65	(2594)	Amber	2 lb.	$3.00
N65F	(2594F)	Fleuzal	2 lb.	3.00

An attractive spectacle with 1⅞-in. amber lenses edged with imitation shell.

NO.	Color	Wgt. Doz.	DOZEN
Z57	Amber	2 lb.	$12.00

White metal frame, easy cable temples, side shields, 1⅞-in. amber and Fleuzal colored lenses.

NO.	Old No.	Color	Wt. Doz.	DOZEN
N86		Amber	2½ lb.	12.00
N86	(USF)	Fleuzal	2½ lb.	$12.00

These goggles are equipped with Zynolite frames. The lenses are 1⅞ inch, riding bow temples, dark shell color. Each pair in an individual box.

NO.	Color	Wt. Doz.	DOZEN
K7	Amber		$12 00
K7F	Fleuzal	2½ lb.	12.00

Ventilated leather side guards, cable ear-bows, adjustable bridge, 1⅞-in. round lenses in amber and Fleuzal colors. Used by autoists, machinists, grinders, and railroad men everywhere. The arch bridge adjusts the goggle to any face and permits ordinary glasses to be worn underneath. Metal case.

NO.	Color	Wgt. Doz.	DOZEN
A1	Amber	2½ lb.	$15.00
A1F	Fleuzal	2½ lb	15.00

Imitation all-shell goggle with ventilated side guards and round 1⅞-inch amber and Fleuzal lenses. Folding side guards. Metal case.

NO.	Color	Wgt. Doz.	DOZEN
K1	Amber	2½ lb.	$15.00
K1F	Fleuzal	2½ lb.	15.00

Imitation shell frame with rust-proof flexible cable ear-bows of white metal; 1⅞-in. round lenses in amber and Fleuzal colors.

NO.	Color	Wgt. Doz.	DOZEN
Z21	Amber	1½ lb.	$12.00
Z21F	Fleuzal	1½ lb.	12.00

THE DENZAR LIGHTING FIXTURE

"THE UNIT OF DAY BRIGHTNESS"

Prices on Application

PENDANT TYPE

Canopy and chain hanger gun metal finish, holder white enameled porcelain, length over all 34 in.

Nos.	E4E Junior	E1E	E1½E	P2E
Watts	100-150	200	300	400-500
Reflector, in.	14	17	17	20
Bowl, in.	8	10	10	12
Socket	Medium		Mogul	
Each	*$18.90*	*24.40*	*26.00*	*32.00*

COMPLETELY ENCLOSED

The upper part of the DENZAR bowl is of highly polished, clear glass, permitting all the upward rays from the lamp and the rays reflected from the lower part of the bowl to reach the reflecting dome in their full strength, while no part of the lamp is visible.

The lower part of the bowl is of white enameled glass which conceals glare, softening and diffusing the light with practically no loss.

There are no large openings for the entrance of dust, dirt or insects, so that one-half the cleaning required by ordinary commercial units will keep DENZAR as bright as a new dollar all the time and year out.

FLEXIBLE CEILING TYPE

Special spun canopy, gun metal finish. Holder white enameled porcelain, Beardslee patent bar.

Nos.	P200E	P201E	P201½E	E202E
Watts	100-150	200	300	400-500
Reflector, in.	14	17	17	20
Bowl, in.	8	10	10	12
Socket	Medium		Mogul	
Length, in.	17	19	19	21
Each	*$18.90*	*24.40*	*26.00*	*32.00*

COMPACT CEILING TYPE

Equipped with Beardslee Patent Bar. Finish, white enameled porcelain.

Nos.	E400E	E401E
Watts	100-150	200
Reflector, in.	14	17
Bowl, in.	8	10
Socket	Medium	
Length, in.	11	13
Each	*$18.90*	*24.40*

Nos.	E401½E	E402E
Watts	300	400-500
Reflector, in.	17	20
Bowl, in.	10	12
Socket	Mogul	
Length, in.	13	14
Each	*$26.00*	*32.00*

BABY DENZARS

It will accommodate either a 75 or 100-watt Mazda C lamp and makes an admirable lighting unit for kitchens, hotel bedrooms, private game rooms, doctors' and dentists' offices, candy kitchens, butchers' refrigerators, and scores of other places where a single good light of not more than 100 watts is required. Finish, white enameled porcelain.

COMPACT CEILING TYPE

For installation at any ceiling outlet.

No. P475E—75-100 watts, 12 in. reflector, 6 in. bowl, medium socket, length 9⅝ in., each *$13.75* **15.50**

REPLACEMENT TYPE

May be attached directly on any pendant or ceiling fixture which is equipped with a 2¼-inch shade holder. No socket is furnished and the deflector is attached independent of the socket.

No. P475RE—75-100 watts, 12 in. reflector, 6 in. bowl, length 6⅛ in., each *$8.65* **9.74**

REFLECTING DOME

This is made of opal-glass, and is so shaped as to gather the upward rays of light and distribute them equally on the working plane, while the reflector re-directs any rays which otherwise would be wasted.

THE AIR INTAKE

A current of cool air entering through a small hole in the bottom of the bowl is continually passing upward around the lamp, carrying all superheated air out through the outlets in the holder.

MANY DIFFERENT TYPES

DENZAR is made in many different types, to suit all requirments and to harmonize with any style of architectural and decorative treatment. All of these different types are of handsome appearance and embody the same features of efficiency and economy.

Special catalogue furnished on request.

Each DENZAR Unit Is Packed In A Separate Carton Complete (Except Lamp), Ready For Hanging.

WE DO NOT FURNISH LAMPS WITH ANY OF THE ABOVE UNITS.

HORSE TAIL TIES

STANDARD Per Doz.

No. 20 Standard. Nickel trimmed, corrugated rubber lined; wt. per doz. 2 lbs. $3 90

One dozen in a box.

STANDARD HARNESS SPOTS

Brass.

Nos.	103	104	105	106	107	108
Size, inches	⅝	¾	⅞	1	1¼	1½
Wt. per gross, lbs.	¾	1	1½	2	3	4
Per Gross	$1 50	1 80	2 25	3 30	4 95	5 70

One gross in a box.

LEATHER HARNESS LOOPS

Black.

Nos.	404	405	406	407
Size, in.	⅝	¾	⅞	1
Wt. per gross, lbs.	½	⅝	1	1¼
Per Gross	$3 15	3 45	3 60	3 90

Nos.	408	409	410	412
Size, in.	1	1⅛	1¼	1½
Wt. per gross, lbs.	1¾	2	2½	3½
Per Gross	$4 50	5 10	5 70	7 05

Russet.

Nos.	304	305	306	307
Size, in.	½	⅝	¾	⅞
Wt. per gross, lbs.	¾	⅞	1	1¼
Per Gross	$3 90	4 50	4 80	5 10

Nos.	308	309	310	312
Size, in.	1	1⅛	1¼	1½
Wt. per gross, lbs.	1¾	2	2½	3½
Per Gross	$5 55	6 30	6 90	8 70

Half gross in a box.

GLASS ROSETTES
—BLUE GRASS—

Assortment contains twelve 1¾ inch rosettes having 1¼ inch glass center and ⅛ inch solid brass rim or border; assorted animal heads on gold background. Mounted on dark blue, gold lettered display card with easel back for counter display, also has metal eyelet for hanging. Per Asst.

No. 25BG—Assortment $6 30

One card in a cardboard box; weight 1¼ lbs.

GLASS ROSETTES

DIAMOND

Assortment contains twelve 1½ inch glass rosettes, with narrow metal rim, ¾ and 1 inch hoops. Assorted animal heads on assorted gold and silver background, mounted on display card with eyelet for hanging.

Per Assortment

No. 20 Assortment. $3 15

Half dozen cards in a box; weight per card ½ lb.

BLOCK LETTERS
Solid Brass.

Made of solid brass, polished, with sharp pointed steel wire racks on back for fastening.

No.	150
Size, in	1½
Per Dozen	$4 80

Two in a paper; weight per dozen ½ lb.

HARNESS TOOLS
DRAW GAUGES

Hollow improved steel handle, natural finish butt, polished head; 4 in. polished steel slide, graduated ⅛ in., with set screws, furnished with one steel blade. Each

No. 210 Wt. each about 1 lb. $6 00

Half dozen in a box.

EXTRA BLADES FOR DRAW GAUGES

Per Dozen

No. 3—Polished steel, length 3 in., width ¾ in.; will fit in Nos. 200 and 210 draw gauges $6 00

Packed loose; weight per dozen about 1½ lbs.

AWLS

Polished steel awls with shoulders, polished rosewood handle. Brass ferrules.

Per Dozen

No. 6—Thong awls. Length of awl 2¾ in.; length over all 6 inches $14 25

No. 3—Pad awls. Length of awl 4 in.; length over all 7¾ inches 17 25

One dozen in a box; weight per dozen 1¾ lbs.

SPLITTING KNIVES

Japanned cast iron frame, polished steel roll and adjusting screws, steel cast blades, highly tempered and polished. Adjustable to split leather any thickness desired. Each

No. 86—Length of blade 6 in.; length of base 8 in.; width 4½ inches; height 4½ inches ..... +$26 25

One in a box; weight each 6½ lbs.

ROUND KNIVES

For cutting out strap work, fitting trimmings, etc. Tempered and polished steel blade, 6 inches wide, 2⅜ inches deep; polished, oval, rosewood handle; 8¾ inches long; solid heavy polished brass ferrules. Each

No. 70—Weight per dozen about 8 lbs. $7 05

Half dozen in a box.

+F. O. B. New Jersey Factory Only.

DISTEEL WHEELS

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

A SET OF DISTEEL WHEELS IS COMPLETE AND CONSISTS OF

5 wheels with rims permanently assembled to the discs, and
5 right angle valve stem extensions installed
2 front hubs
2 rear hubs, with brake drums assembled
4 hub locking flange assemblies.
Dummy hub for spare wheel
Double ended socket wrench
Mounting bar to facilitate mounting of wheels.

Disteel Wheel Equipment can be furnished for the following list of cars—current or recent models—Be sure to specify make, model and year of car when ordering

PRICES DO NOT INCLUDE WAR TAX, PAINTING OR ATTACHING

THE FOLLOWING EQUIPMENTS LIST AT

$120.00 F. O. B. Detroit

American	Davis	Hupp	National	Saxon
Anderson	Dorris	Jackson	Oldsmobile "4"	Sheridan
Apperson	Elcar	Jordan	Packard Sing'e Six	Standard
Auburn	Elgin	King	Paige	Stearns
Bour Davis	Essex	Lexington	Peerless	Stephens
Case	Handley-Knight	Liberty	Pierce-Arrow	Studebaker
Chalmers	Hanson	Moon	Premier	Stutz
Chandler	Haynes	Nash	R-V-Knight	Velie
Columbia	Hudson		Roamer	Westcott

THE FOLLOWING ARE

$130.00 F. O. B. Detroit

Cadillac	Daniels	McFarlan	Packard Twin Six
Cole	Dupont	Marmon	Winton
Cunningham	Lincoln	Ogren	

SPECIAL FEATURE

All Disteel Wheels are now equipped with a special right angle valve stem extension made by the well known firm of A. Schrader's Son, Inc.
This simple and efficient device makes tire inflation easier on Disteel Wheels than on any other type of wheel.
There is no extra charge for this equipment and all of these extensions are guaranteed by the makers of Disteel Wheels.

DISTEELS FOR DODGE BROTHERS CARS

DISTEEL—THE SAFE WHEEL—adds beauty, economy and convenience to the sturdy Dodge Brothers Car.

A set of type "D" Disteel Wheels for Dodge Brothers cars is a complete equipment and consists of the following parts:
5 wheels with rims permanently assembled to the discs
5 right angle valve stem extensions installed
2 front hubs
2 rear hubs with brake drums
Socket wrench
Mounting bar
4 hub caps when Disteels are to replace wirewheels, or
1 spare wheel carrier bracket when Disteels are to replace wood wheels.

In ordering Dodge Brothers equipment be sure to specify tire size, mode and whether wood or wire wheels are to be replaced

As a special feature all Disteel Wheels for Dodge Brothers cars are now equipped with right angle valve stem extensions as described above under "Special Feature." No extra charge.

Wheels painted Dodge Brothers standard dark blue with two white stripes.

List price complete equipment $100.00 f. o. b. Detroit, war tax included.

DISTEEL WHEELS FOR FORD CARS

The equipment for Ford cars is complete and includes
5 demountable Disteel Wheels, rims attached for 30 x 3½ clincher tires
2 front hubs.
2 rear hubs with brake drums
1 spare wheel carrier bracket.
1 license bracket
1 socket wrench.
Wheels painted blue with white stripe or gray with black trimming —no extra charge
List price, complete equipment as listed above, $60 00, war tax included, F. O. B. Detroit

Eight Points of Superiority

1. STRENGTH Being single discs of steel, Disteels have no spokes to break. They stand severe strains and side thrusts without collapsing They will protect your car.
2. LIGHTNESS—Even with their great strength, Disteels are lighter than Ford demountable rim wood wheels.
3. APPEARANCE—With graceful lines and handsome colors, Disteels will beautify and enrich your car.
4. QUICK WHEEL CHANGE—Disteels are easily released and slipped off and on. They save time and temper whenever tires have to be changed
5. EASILY CLEANED—You can keep Disteels looking neat and trim with very little trouble. The smooth surfaces are easily cleaned.
6. SPARE WHEEL—Disteel equipment will give you a spare wheel for emergency use in case of tire trouble.
7. TIRE SAVING—Because Disteels run true they save the rasping wear on tires caused by wobbly wheels.
8. NO ADAPTERS REQUIRED—Not necessary to break up your old wheels. Disteel Wheel equipment is complete. No rights or lefts—each wheel is interchangeable on front hubs, rear hubs or carrier bracket.

BALL BEARINGS

RADAX

SECTIONAL VIEW

RADAX OR RADIAL THRUST NEW DEPARTURE BALL BEARINGS

In new style construction, these bearings take 100 per cent thrust.

Bearing No.	Inside Bore M M	Inside Bore Inches	Outside Diameter M/M	Outside Diameter Inches	Width M, M	Width Inches	List Price
0304	20	.7874	52	2.0472	15	.5905	$ 8.50
0404			72	2 8346	19	7480	12 50
0205			52	2 0472	15	5905	7 25
0305	25	.9842	62	2 4409	17	.6692	10 00
0405			80	3.1496	21	.8267	14 50
0206			62	2.4409	16	.6299	9 50
0306	30	1.1811	72	2.8346	19	.7480	12.50
0406			90	3 5433	23	.9055	17 50
0207			72	2.8346	17	.6692	11 00
0307	35	1.3779	80	3.1496	21	.8267	14.50
0407			100	3.9370	25	.9842	21 00
0208			80	3.1496	18	.7086	13 00
0308	40	1.5748	90	3.5433	23	.9055	16.50
0408			110	4.3307	27	1.0629	24.00
0209			85	3.3464	19	.7480	14 25
0309	45	1.7716	100	3.9370	25	.9842	20 00
0409			120	4.7244	29	1 1417	29 50
0210			90	3.5433	20	7874	15 50
0310	50	1.9685	110	4.3307	27	1.0629	23 50
0410			130	5.1181	31	1.2204	36 00
0211			100	3.9370	21	.8267	17 50
0311	55	2.1653	120	4.7244	29	1.1417	28 50
0411			140	5 5118	33	1 2992	43 00
0212			110	4 3307	22	8661	21 50
0312	60	2.3622	130	5 1181	31	1 2204	35 00
0412			150	5 9055	35	1 3779	61 00
0213	65	2.5590	120	4 7244	23	9055	27 50
0313			140	5 5118	33	1.2992	42 50
0214	70	2.7559	125	4.9212	24	9449	30 00
0314			150	5.9055	35	1 3779	50 00
0215	75	2.9527	130	5.1181	25	.9842	33 00
0315			160	6.2992	37	1.4566	62 50
0216	80	3.1496	140	5.5118	26	1.0236	37 50
0217	85	3.3464	150	5.9055	28	1.1023	43 00

MAGNETO BEARINGS

A type of ball bearing carrying a radial and thrust load. Used on automotive electrical equipment.

Bearings formerly known as Nos. 01, 021, 03 and 05 are now respectively represented by bearings Nos. 10, 13, 15 and 17 indicated in the following table.

Bearing No.	Inside Bore M M	Inside Bore Inches	Outside Diameter M/M	Outside Diameter Inches	Width M, M	Width Inches	List Price
8	8	.3150	24	.9449	7	.2756	$3.00
10	10	.3937	28	1.1023	8	.3150	3.00
12	12	.4724	32	1 2598	7	.2756	3 20
13	13	.5118	30	1 1811	7	.2756	3 20
15	15	.5905	35	1 3779	8	.3150	3 50
16	16	.6299	38	1.4961	10	.3937	4 00
17	17	.6693	44	1 7323	11	.4331	4 75
20	20	.7874	47	1.8504	14	.5511	5.00

COMPARATIVE BALL BEARING DATA

New Departure Single Row and Radax Ball Bearings are made in the same bore, diameter and width sizes as other standard makes, both foreign and domestic. New Departure may, therefore, be used for replacing other bearings. This table shows the name and number of bearings that correspond to the New Departure Single Row and Radax

When you take a bearing out you will find it stamped with a number. Find this number in the table below and then by running along the line to the right of the page you can find what New Departure bearing should be used to replace the discarded bearing.

S R B.	Gurney	Fafnir	Norma Ball	S K F.	U S. (Strom)	Hess Bright	New Departure
200	200	200a		1200	200	200	1200
201	201	201a		1201	201	201	1201
202	202	202a		1202	202	202	1202
203	203	203a		1203	203	203	1203
204	204	204a	L 20	1204	204	204	1204
205	205	205a	L 25	1205	205	205	1205
206	206	206a	L 30	1206	206	206	1206
207	207	207a	L 35	1207	207	207	1207
208	208	208a	L 40	1208	208	208	1208
209	209	209a	L 45	1209	209	209	1209
210	210	210a	L 50	1210	210	210	1210
211	211	211a	L 55	1211	211	211	1211
212	212	212a	L 60	1212	212	212	1212
213	213	213a	L 65	1213	213	213	1213
214	214	214a	L 70	1214	214	214	1214
215	215	215a	L 75	1215	215	215	1215
216	216	216a	L 80	1216	216	216	1216
217	217	217a	L 85	1217	217	217	1217
218	218	218a	L 90	1218	218	218	1218
219	219	219a	L 95	1219	219	219	1219
220	220	220a	L100	1220	220	220	1220
221	221	221a	L105	1221	221	221	1221
222	222	222a	L110	1222	222	222	1222
300	300	300a	M 10	1300	300	300	1300
301	301	301a	M 12	1301	301	301	1301
302	302	302a	M 15	1302	302	302	1302
303	303	303a	M 17	1303	303	303	1303
304	304	304a	M 20	1304	304	304	1304
305	305	305a	M 25	1305	305	305	1305
306	306	306a	M 30	1306	306	306	1306
307	307	307a	M 35	1307	307	307	1307
308	308	308a	M 40	1308	308	308	1308
309	309	309a	M 45	1309	309	309	1309
310	310	310a	M 50	1310	310	310	1310
311	311	311a	M 55	1311	311	311	1311
312	312	312a	M 60	1312	312	312	1312
313	313	313a	M 65	1313	313	313	1313
314	314	314a	M 70	1314	314	314	1314
315	315	315a	M 75	1315	315	315	1315
316	316	316a	M 80	1316	316	316	1316
317	317	317a	M 85	1317	317	317	1317
318	318	318a	M 90	1318	318	318	1318
319	319	319a	M 95	1319	319	319	1319
320	320	320a	M100	1320	320	320	1320
321	321	321a		1321	321	321	1321
322	322	322a		1322	322	322	1322
403	403	403a	S 17	403	403	403	1403
404	404	404a	S 20	404	404	404	1404
405	405	405a	S 25	405	405	405	1405
406	406	406a	S 30	406	406	406	1406
407	407	407a	S 35	407	407	407	1407
408	408	408a	S 40	408	408	408	1408
409	409	409a	S 45	409	409	409	1409
410	410	410a	S 50	410	410	410	1410
411	411	411a	S 55	411	411	411	1411
412	412	412a	S 60	412	412	412	1412
413	413	413a	S 65	413	413	413	1413
414	414	414a	S 70	414	414	414	1414
415	415	415a		415	415	415	1415
416	416	416a	S 80	416	416	416	1416
417	417	417a		417	417	417	1417
418	418	418a	S 90	418	418	418	1418
419	419	419a		419	419	419	1419
420	420	420a	S100	420	420	420	1420

PHYSICIANS' OR BATHROOM SCALES

No. T115 [illegible].

These scales have no loose weights, full capacity indicated on beams marked on both sides so that weight can be noted from either side.

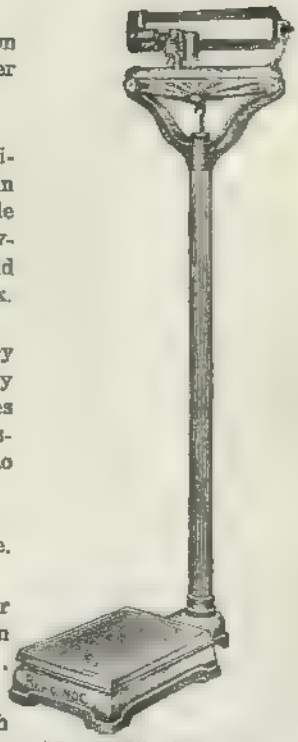
Very handy scales for Hospitals, Sanitariums, Schools, Gymnasiums, Offices or Homes. Especially useful in bathrooms to obtain true personal weight without clothing which is at all times desirable and in cases of medical treatment often absolutely necessary. Growing children should be weighted and measured at regular intervals and results compared with standard tables. A weight table is in every box.

The very best material, most expert labor and modern machinery obtainable used in manufacture of these scales. Every scale carefully inspected and tested with U. S. Standard test weights. These scales also made upon order to conform with standards of weights and measures of various other countries of the world. Special graduations to order.

The finish, white enamel, is as high grade as is possible to produce.

Capacity 300 lbs., on nickel-plated, heavy brass double beam, upper bar graduated 50 lbs. by ¾ lb., lower bar 250 lbs. by 50 lbs. graduation notched, hardened bearings and tool steel pivots throughout.

Platform 10½x13 in., height 60 in., w't each set up 60 lbs., w't each boxed for shipment 112 lbs.



No. T125 [illegible].

No. T115 [illegible]—With standard nickel plated measuring rod, 4 ft. to 6½ ft. by ½ in., special lever check attachment prevents levers from becoming disengaged, cork inlaid in platform with waterproof cement ....each **$64.00**

No. T125 [illegible]—**Without measuring rod, etc.** .. ..each **$54.50**

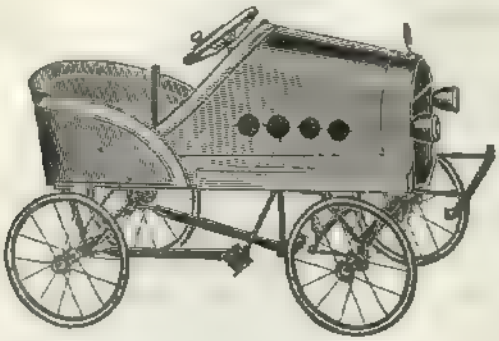
ONE IN A CASE

★ Items Marked Thus ★ Are Shipped From Factory Only.

SHIPPING FACILITIES

With our immense stock and very modern facilities for shipments we are enabled to fill orders with unequaled promptness. On some of the roads we have special through cars which enable us to reach distant points 24 hours ahead of shipments made in the regular way.

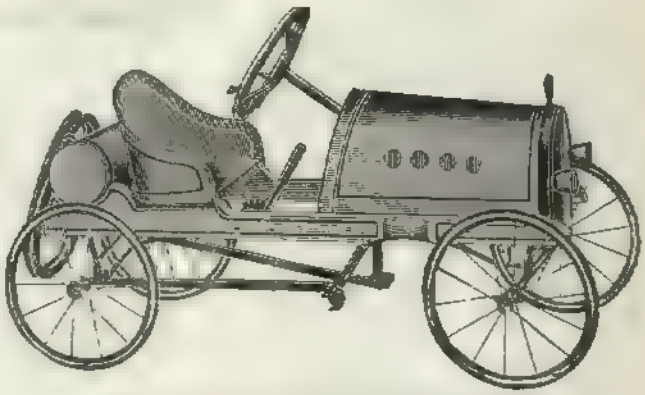
AUTOMOBILE WAGONS



No. N601—Body 12x20 in., stencilled Dodge; finished in red, gray, blue or yellow with brilliant striping and decorating; wheels 10 in. with ¾ in. rubber tires, with nickel plated hub caps; equipped with shifting lever, knuckle joint steering gear, wood rim steering wheel with nickel plated gas lever attachments, motormeter, self starter button, two imitation wooden headlights and bumper; running gears finished in black enamel, wheels finished in red enamel, w't per doz. 540 lbs., per dozen $135.00

No. N6010—Black finished body and ivory finished wheels with ball bearings and ¾ in. rubber tires, equipped with horn, w't per dozen 555 lbs., per dozen $195.00

ONE IN A CRATE



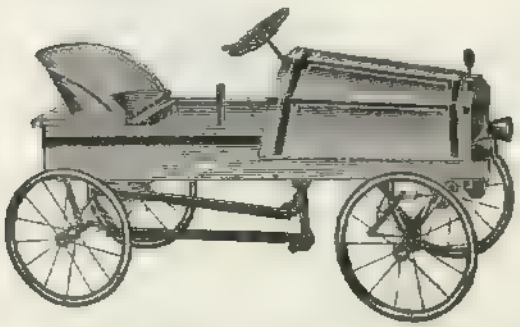
Stencilled No. 6, finished in red, gray, blue or yellow with brilliant striping and decorating. Barrel hubs with ¾ in. rubber tires and nickel plated hub caps.

Equipped with shifting lever, gas tank, two spare tires, nickel plated gas lever attachment, self starter button, two imitation wooden headlights. Running gear and wheels in black enamel.

No. N387—Wheels 14 in., w't per doz. 660 lbs., per dozen $249.60

No. N386—Body 13x43 in., wheels 12 in. and with knuckle joint steering gear, w't per doz. 636 lbs., per dozen $218.40

ONE IN A CRATE



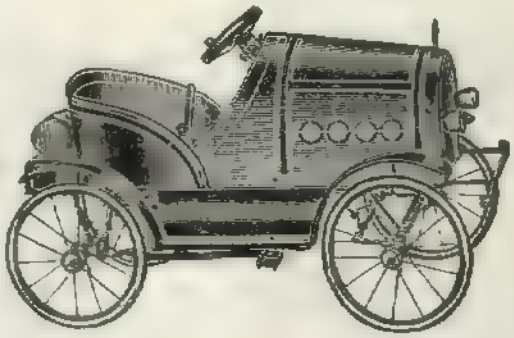
Finished in red, gray, blue or yellow with brilliant striping and decorations. Wheels 12 in. barrel hub, with ¾ in. rubber tires and nickel plated hub caps.

Equipped with shifting lever, knuckle joints steering gear, nickel plated steering rod, with wood wheel and nickel plated gas lever attachment, motormeter, self starter button, two imitation wooden headlights, seat adjustable to two positions. Running gear and wheels in black enamel.

No. N392—Body 13x42 in., w't per dozen 660 lbs., per dozen $256.80

No. N391—Body 14x36 in., shipping w't per doz. 588 lbs., per dozen $175.20

ONE IN A CRATE



Body 18x38 in., stencilled Overland. Finished in red, gray, blue or yellow, with brilliant striping and decorating. With ¾ in. rubber tires and nickel plated hub caps.

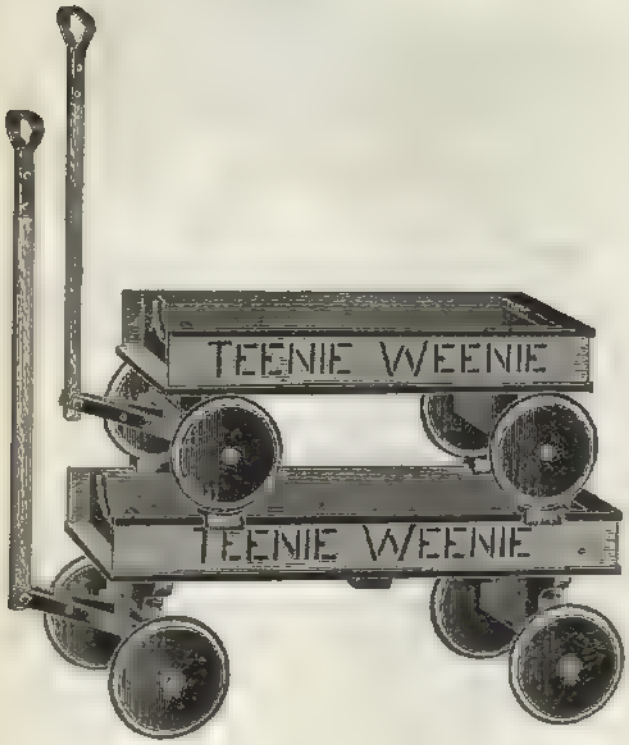
Equipped with shifting lever, gas tank, knuckle joint steering gear, nickel plated gas lever attachment, motormeter, self starter button, two imitation wooden headlights and bumpers. Running gears finished in black enamel. Wheels in red enamel.

No. N6020—12 in. ball bearing wheels, fenders and horn, w't per doz. 880 lbs. ..... per dozen $285.00

No. N602—12 in. wheels, **without ball bearings, fender and horn,** w't per doz. 540 lbs. .... per dozen $195.00

ONE IN A CRATE

TENNIE WEENIE COASTERS



Sturdy little wagons built to stand rough treatment by the little folks.

Wheels solid hard maple painted red, bodies natural varnish finish, trimmed in red. Bolsters ⅞ in. hard maple, 5/16 in. iron axles, nickel plated hub caps loop grip handles, heavy wrought iron tongue holders. Well braced throughout.

WITHOUT RUBBER TIRES

Nos.	N290	N291
Size of body, in.	9½×20	10½×24
Size of wheels, in.	4½	5
W't per doz., lbs.	96	162
Per dozen	$27.00	40.00

WITH ½ IN. RUBBER TIRES

Nos.	N2906	N2916
Size of body, in.	9½×20	10½×24
Size of wheels, in.	5	5½
W't per doz., lbs.	96	162
Per dozen	$36.40	48.00

ONE-SIXTH DOZEN IN A CARTON

SHERWOOD BABY GRAND COASTERS

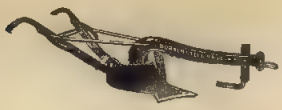
Designed especially for the little folks, too small for the speedy [illegible] Spring Coaster. Low build for safety, strength with lightness, and adaptability to the many uses the childish imagination can devise for it, are the main features of this little wagon. Body and handle natural varnish, running gear red. Size of body 9×18 inches, wheels 5 inches. Height set up 8½ inches.

No. N18—Without Rubber Tires, w't per doz. 106 lbs., per dozen $38.40

No. N186—With 5 in. double disc, rubber tired wheels, w't per doz. 110 lbs. .....per dozen **43.50**

ONE IN A CARTON

RAILROAD AND GRADING PLOWS



DORSCH

EIGHT OR TEN HORSE RAILROAD

On a straight pull, 20 horses cannot break this Plow; Heavy Selected Plow Steel Share, Double Shinned; With Heavy Durable Point, unexcelled for wear; Can be welded and sharpened by any blacksmith; Steel Beam with Wide Flanges on top and bottom from about top of Moldboard to Clevis Point; Moldboard is of heaviest and best Steel, carefully forged and tempered; Heavy Cast Iron Landside; Heavy Oak Handles, plated on Moldboard side, and fitted with Heavy Runners; Adjustable Gauge Shoe.

	Each
No. P432A—(4) Plow, 11 in. Cut; Weight 285 Lbs. Each	$140.00
No. P432B—Extra Steel Moldboards; Weight 25 Lbs. Each.	24.00
No. P432C—Extra Cast Iron Landsides; Weight 10 Lbs. Each	5.00
No. P432D—Cast Steel Shares; Weight 15 Lbs. Each	18.00

FOUR HORSE RAILROAD

For Gravel, Hard Pan; Also for lighter work; Heavy Selected Plow Steel Share, Double Shinned, easily welded and sharpened; Heavy Steel Beam with Wide Flanges; 1¼x3 in. Oak Handles; Moldboard Handle heavily plated with Steel from bottom to end of the Handle, to prevent wearing when Plow is turned on side; Handles braced to Beam with 1 in. Wrought Pipe; Heavy Gauge Wheel; Hand Forged Clevis.

	Each
No. P432E—(2) Plow, 9 in. Cut; Weight 175 Lbs. Each	$100.00
No. P432F—Extra Steel Moldboards; Weight 20 Lbs. Each.	20.00
No. P432H—Extra Cast Iron Landsides; Weight 8 Lbs. Each	5.00
No. P432J —Forged Steel Shares; Weight 10 Lbs. Each	16.00

For severe grading, not ordinary Agricultural Plows, such as some makers recommend for grading; All Sizes cut narrow, deep Furrows, and all parts are Extra Heavy and thoroughly braced to withstand enormous strain, without breaking.

SIDNEY

Beams are of Selected Hardwood, Heavily Ironed; Moldboards and Shares are alike and interchangeable, made of Best Quality Plow Steel, and scour freely; Cutters are reversible; Handles are Iron Strapped on both sides and have Iron Handholds; Gauge Shoe furnished.

	Each
No. P432K—(2) Six to Eight Horses; 7½ ft. Beam; Complete with Extra Share	$90.00
Weight 270 Lbs. Each	
No. P432L—(5) Four to Six Horses; 7½ ft. Beam; Complete with Extra Share	$76.80
Weight 200 Lbs. Each	

RAILROAD PLOWS

SAMSON

For Heavy Railroad or Township Work; Steel Moldboard, Steel Share, Cast Steel Landside, Steel Coulter, Adjustable Gauge Shoe, Heavy Iron Beam, White Oak Handes, Ironed and Braced; a strong compact light Plow for rough usage.

	Each
No. P432M—(26) Plow, 12 in Cut; Weight 196 Lbs. Each	$85.30
No. P432N—Extra Moldboards; Weight 21 Lbs. Each	15.50
No. P432P—Extra Landsides; Weight 9 Lbs. Each	5.30
No. P432R—Extra Shares; Weight 8 Lbs. Each	8.50

ROOTERS

S&S ALL STEEL

Solid Cast Steel Beam, Tensile Strength 75,000 Lbs. to square inch against 50,000 for Malleable and 30,000 for Cast; High Carbon Tool Steel Reversible Point, specially tempered; Cast Steel Adjustable Gauge Shoe, Case Hardened; Wrought Steel Adjustable Hitch; Double Braced Steel Handles with Steel Grips.

Can be handled by two horses, but will stand pull of twelve horses or traction engine; For Hard Pan, Cement, Macadam, or any ground too hard for standard grading Plows.

	Each
No. P432T—4 ft. Handles; Length Over-all about 7 ft.; Weight 280 Lbs. Each	$94.50
No. P432V—Extra Reversible Points, for No. P432T; Weight 25 Lbs. Each	13.00

STEEL HARROW TEETH

No. P432W—SQUARE, PLAIN

Size, in	½	⅝	⅝	¾
Length, In.	9	9	9	10
Wt. 100, Lbs.	55	75	85	140

All Sizes, per 100 Lbs. $15.00

No. P432X—SQUARE; HEADED

Size, In.	½	½	½	½	*⅝	⅝	¾	*¾	¾	*⅞	*1
Length, In.	8	10	11	12	9	11	13	10	11	10	10
Wt. 100, Lbs.	54	60	66	72	93	105	112	145	155	195	265

All Sizes, per 100 Lbs $15.00

No. P432Y—DIAMOND, SHEARED POINT

Size, In.	⅝x⅞
Length, In.	9
Weight 100, Lbs	72

Per 100 Lbs. $15.00

Note—Sizes marked * are Duluth Stock, Balance are Portland Stock or for Direct Shipment from St. Paul

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PLOWS

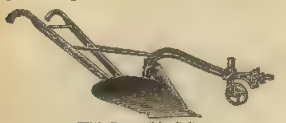
MOORE

Two or Three Horse; General Purpose

Made of Best Material and with most careful Workmanship with close Attention to Detail and Finish; When properly adjusted, they are light Draft, easy for Operator and do Unexcelled Work; **Moldboards** are shaped to allow Plow to run steadily and with light Draft and are high to prevent Soil and Litter from running over Top and loading between Handles; Steel **Moldboards** are made from highest grade extra heavy soft center Steel and will scour readily; **Steel Beams** are of high Carbon Steel and will not bend or break.

Light and Strong; Adapted to all Soils and Conditions; Has greater height Beam than other Plows of this style, a Feature greatly appreciated by the Farmer; Moore Plows have Equipment to meet all conditions as follows: **Reversible Colter** for New Land Plowing; **Knife Colter** or **Jointer** for Old Land Plowing.

Main Standard is made from Malleable Iron and will not break; Clevis has wide Adjustment and all Plows work with three as well as with two Horses; Steel **Landside** is long and wide, making Plow run steady; **Trimmings** are Malleable Iron, except Wheel Standard which is Steel; **Handles** are in 5½ and 6 ft. lengths and are well braced and adjustable for any height Person; Equipped with Brace Rods



With Reversible Colter

Bottom View

With Jointer

WITH REVERSIBLE COLTER

Nos.	P433A	P433A4	P433A7	P433B
Point	Steel		Chilled	
Cut, In.	12	14	13	14
Weight, Lbs.	140	145	140	145
Each	$52.00	53.00	44.50	45.00

WITH KNIFE COLTER

Nos.	P433B4	P433B7	P433C	P433C4
Point	Steel		Chilled	
Cut, In.	12	14	13	14
Weight, Lbs.	140	145	140	145
Each	$52.00	53.00	44.50	45.00

WITH JOINTER

Nos.	P433C7	P433D	P433D4	P433E
Point	Steel		Chilled	
Cut, In.	12	14	12	14
Weight, Lbs.	145	150	145	150
Each	$52.00	53.00	44.50	45.00

Be Sure to Specify Whether **Steel** or **Chilled Point** is Wanted, **Chilled Point** will always be sent unless Otherwise Specified

When Ordering **Extra Chilled Points**, Specify **Plain Chilled Points** for Plow with **Knife Colter** or **Jointer**, and **Shoulder Chilled Points** for Plow with **Reversible Colter**

REPAIRS FOR MOORE PLOWS

	Each
No. P433E4—12 in., Steel Points; Weight 8 Lbs.	$7.40
No. P433F —14 in., Steel Points; Weight 9 Lbs.	8.20
No. P433F4—12 in., Plain Chilled Points; Weight 8½ Lbs.	1 50
No. P433H —14 in., Plain Chilled Points; Weight 11¼ Lbs.	1.80
No. P433H4—12 in., Shoulder Chilled; Weight 8½ Lbs.	1.60
No. P433J —14 in., Shoulder Chilled; Weight 11¼ Lbs.	1.90
No. P433J4—Reversible Colter; Weight 8 Lbs	6.50
No. P433K —Knife Colter; Weight 10½ Lbs.	6.50
No. P433K4—Jointers, Complete; Weight 15½ Lbs.	6.50

	Each
No. P433L —Extra Jointer Points; Weight 1 Lb.	$ 0 60
No. P433L4—Steel Moldboards; Weight 20 Lbs.	15 00
No. P433M —Steel Landslide Plates; Weight 9 Lbs.	5 00
No. P433M4—Chilled Land Shoes; Weight 6½ Lbs.	1.60
No. P433N —Malleable Main Standard; Weight 16½ Lbs.	10 00
No. P433N4—Extra Handles; Weight 12 Lbs.; Pair	6.00
No. P433P —Wheels, Complete; Weight 7½ Lbs.	3 70
No. P433P4—Clevises; Weight 4 Lbs.	2 40

SCOTCH CANADIAN OR TUCK PLOWS

Follows Pattern of Scotch Style; With Wheel and Adjustable Handles; Best Material; Nicely Finished, Steel Moldboard; Steel Landside; 9 in. Cut.

	Each
No. P433R —Steel Point; **Reversible Colter;** Weight 146 Lbs.	$50.50
No. P433R4—Chilled Point; **Reversible Colter;** Weight 146 Lbs.	48.00
No. P433T —Steel Point; **Knife Colter;** Weight 151 Lbs.	50.50
No. P433T4—Chilled Point; **Knife Colter;** Weight 151 Lbs.	48.00
No. P433V —Steel Point, with **Jointer;** Weight 153 Lbs.	50.50
No. P433V4—Chilled Point, with **Jointer;** Weight 153 Lbs.	48.00

EXTRA POINTS

	Each
No. P433W —Steel	$7.40
No. P433W4—Plain Chilled	1.40
No. P433X —Chilled, with Shoulder	1.80

Note—Steel Point will be sent unless otherwise ordered

Weight 8 Lbs Each

ONE HORSE PLOWS

For Orchards, Viney rds, and all Plowing where one Horse is be used; Will turn all kinds of soil; Adjustable to any depth; Adjustable Beam allows Horse to walk either in furrow or on land; Adjustable Handles allow Operator to walk on side away from Trees or Shrubs.

Knife Colter can be furnished in place of Jointer, if so ordered.

	Each
No. P433X4—9 in. Cut; Complete with Jointer, Wood Beam, Chilled Moldboard, Chilled Landside and Chilled Point.	$32 50

Weight 95 Lbs. Each

EXTRA POINTS

	Each
No. P433Y—Chilled	$1 40

Weight 3 Lbs. Each

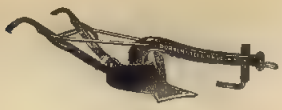
WING PLOWS

For Making Furrows and Hilling

	Each
No. P433Y4—Solid Steel Blade with Adjustable Wings; Wood Beam and Handles; Made of Best Materials throughout and Nicely Finished; Weight 35 Lbs. Each	$9 50

Weight 35 Lbs. Each

RAILROAD AND GRADING PLOWS



DORSCH

EIGHT OR TEN HORSE RAILROAD

On a straight pull, 20 horses cannot break this Plow; Heavy Selected Plow Steel Share, Double Shinned; With Heavy Durable Point, unexcelled for wear; Can be welded and sharpened by any blacksmith; Steel Beam with Wide Flanges on top and bottom from about top of Moldboard to Clevis Point; Moldboard is of heaviest and best Steel, carefully forged and tempered; Heavy Cast Iron Landside; Heavy Oak Handles, plated on Moldboard side, and fitted with Heavy Runners; Adjustable Gauge Shoe.

	Each
No. P432A—(4) Plow, 11 in. Cut; Weight 285 Lbs. Each	$140.00
No. P432B—Extra Steel Moldboards; Weight 25 Lbs. Each.	24.00
No. P432C—Extra Cast Iron Landsides; Weight 10 Lbs. Each	5.00
No. P432D—Cast Steel Shares; Weight 15 Lbs. Each	18.00

FOUR HORSE RAILROAD

For Gravel, Hard Pan; Also for lighter work; Heavy Selected Plow Steel Share, Double Shinned, easily welded and sharpened; Heavy Steel Beam with Wide Flanges; 1¼x3 in. Oak Handles; Moldboard Handle heavily plated with Steel from bottom to end of the Handle, to prevent wearing when Plow is turned on side; Handles braced to Beam with 1 in. Wrought Pipe; Heavy Gauge Wheel; Hand Forged Clevis.

	Each
No. P432E—(2) Plow, 9 in. Cut; Weight 175 Lbs. Each	$100.00
No. P432F—Extra Steel Moldboards; Weight 20 Lbs. Each.	20.00
No. P432H—Extra Cast Iron Landsides; Weight 8 Lbs. Each	5.00
No. P432J —Forged Steel Shares; Weight 10 Lbs. Each	16.00

For severe grading, not ordinary Agricultural Plows, such as some makers recommend for grading; All Sizes cut narrow, deep Furrows, and all parts are Extra Heavy and thoroughly braced to withstand enormous strain, without breaking.

SIDNEY

Beams are of Selected Hardwood, Heavily Ironed; Moldboards and Shares are alike and interchangeable, made of Best Quality Plow Steel, and scour freely; Cutters are reversible; Handles are Iron Strapped on both sides and have Iron Handholds; Gauge Shoe furnished.

	Each
No. P432K—(2) Six to Eight Horses; 7½ ft. Beam; Complete with Extra Share	$90.00
Weight 270 Lbs. Each	
No. P432L—(5) Four to Six Horses; 7½ ft. Beam; Complete with Extra Share	$76.80
Weight 200 Lbs. Each	

RAILROAD PLOWS

SAMSON

For Heavy Railroad or Township Work; Steel Moldboard, Steel Share, Cast Steel Landside, Steel Coulter, Adjustable Gauge Shoe, Heavy Iron Beam, White Oak Handes, Ironed and Braced; a strong compact light Plow for rough usage.

	Each
No. P432M—(26) Plow, 12 in Cut; Weight 196 Lbs. Each	$85.30
No. P432N—Extra Moldboards; Weight 21 Lbs. Each	15.50
No. P432P—Extra Landsides; Weight 9 Lbs. Each	5.30
No. P432R—Extra Shares; Weight 8 Lbs. Each	8.50

ROOTERS

S&S ALL STEEL

Solid Cast Steel Beam, Tensile Strength 75,000 Lbs. to square inch against 50,000 for Malleable and 30,000 for Cast; High Carbon Tool Steel Reversible Point, specially tempered; Cast Steel Adjustable Gauge Shoe, Case Hardened; Wrought Steel Adjustable Hitch; Double Braced Steel Handles with Steel Grips.

Can be handled by two horses, but will stand pull of twelve horses or traction engine; For Hard Pan, Cement, Macadam, or any ground too hard for standard grading Plows.

	Each
No. P432T—4 ft. Handles; Length Over-all about 7 ft.; Weight 280 Lbs. Each	$94.50
No. P432V—Extra Reversible Points, for No. P432T; Weight 25 Lbs. Each	13.00

STEEL HARROW TEETH

No. P432W—SQUARE, PLAIN

Size, in	½	⅝	⅝	¾
Length, In.	9	9	9	10
Wt. 100, Lbs.	55	75	85	140

All Sizes, per 100 Lbs. $15.00

No. P432X—SQUARE; HEADED

Size, In.	½	½	½	½	*⅝	⅝	¾	*¾	¾	*⅞	*1
Length, In.	8	10	11	12	9	11	13	10	11	10	10
Wt. 100, Lbs.	54	60	66	72	93	105	112	145	155	195	265

All Sizes, per 100 Lbs $15.00

No. P432Y—DIAMOND, SHEARED POINT

Size, In.	⅝x⅞
Length, In.	9
Weight 100, Lbs	72

Per 100 Lbs. $15.00

Note—Sizes marked * are Duluth Stock, Balance are Portland Stock or for Direct Shipment from St. Paul

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PLOWS

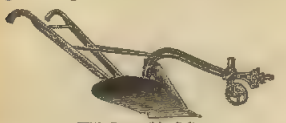
MOORE

Two or Three Horse; General Purpose

Made of Best Material and with most careful Workmanship with close Attention to Detail and Finish; When properly adjusted, they are light Draft, easy for Operator and do Unexcelled Work; **Moldboards** are shaped to allow Plow to run steadily and with light Draft and are high to prevent Soil and Litter from running over Top and loading between Handles; Steel **Moldboards** are made from highest grade extra heavy soft center Steel and will scour readily; **Steel Beams** are of high Carbon Steel and will not bend or break.

Light and Strong; Adapted to all Soils and Conditions; Has greater height Beam than other Plows of this style, a Feature greatly appreciated by the Farmer; Moore Plows have Equipment to meet all conditions as follows: **Reversible Colter** for New Land Plowing; **Knife Colter** or **Jointer** for Old Land Plowing.

Main Standard is made from Malleable Iron and will not break; Clevis has wide Adjustment and all Plows work with three as well as with two Horses; Steel **Landside** is long and wide, making Plow run steady; **Trimmings** are Malleable Iron, except Wheel Standard which is Steel; **Handles** are in 5½ and 6 ft. lengths and are well braced and adjustable for any height Person; Equipped with Brace Rods



With Reversible Colter

Bottom View

With Jointer

WITH REVERSIBLE COLTER

Nos.	P433A	P433A4	P433A7	P433B
Point	Steel		Chilled	
Cut, In.	12	14	13	14
Weight, Lbs.	140	145	140	145
Each	$52.00	53.00	44.50	45.00

WITH KNIFE COLTER

Nos.	P433B4	P433B7	P433C	P433C4
Point	Steel		Chilled	
Cut, In.	12	14	13	14
Weight, Lbs.	140	145	140	145
Each	$52.00	53.00	44.50	45.00

WITH JOINTER

Nos.	P433C7	P433D	P433D4	P433E
Point	Steel		Chilled	
Cut, In.	12	14	12	14
Weight, Lbs.	145	150	145	150
Each	$52.00	53.00	44.50	45.00

Be Sure to Specify Whether **Steel** or **Chilled Point** is Wanted, **Chilled Point** will always be sent unless Otherwise Specified

When Ordering **Extra Chilled Points**, Specify **Plain Chilled Points** for Plow with **Knife Colter** or **Jointer**, and **Shoulder Chilled Points** for Plow with **Reversible Colter**

REPAIRS FOR MOORE PLOWS

	Each
No. P433E4—12 in., Steel Points; Weight 8 Lbs.	$7.40
No. P433F —14 in., Steel Points; Weight 9 Lbs.	8.20
No. P433F4—12 in., Plain Chilled Points; Weight 8½ Lbs.	1 50
No. P433H —14 in., Plain Chilled Points; Weight 11¼ Lbs.	1.80
No. P433H4—12 in., Shoulder Chilled; Weight 8½ Lbs.	1.60
No. P433J —14 in., Shoulder Chilled; Weight 11¼ Lbs.	1.90
No. P433J4—Reversible Colter; Weight 8 Lbs	6.50
No. P433K —Knife Colter; Weight 10½ Lbs.	6.50
No. P433K4—Jointers, Complete; Weight 15½ Lbs.	6.50

	Each
No. P433L —Extra Jointer Points; Weight 1 Lb.	$ 0 60
No. P433L4—Steel Moldboards; Weight 20 Lbs.	15 00
No. P433M —Steel Landslide Plates; Weight 9 Lbs.	5 00
No. P433M4—Chilled Land Shoes; Weight 6½ Lbs.	1.60
No. P433N —Malleable Main Standard; Weight 16½ Lbs.	10 00
No. P433N4—Extra Handles; Weight 12 Lbs.; Pair	6.00
No. P433P —Wheels, Complete; Weight 7½ Lbs.	3 70
No. P433P4—Clevises; Weight 4 Lbs.	2 40

SCOTCH CANADIAN OR TUCK PLOWS

Follows Pattern of Scotch Style; With Wheel and Adjustable Handles; Best Material; Nicely Finished, Steel Moldboard; Steel Landside; 9 in. Cut.

	Each
No. P433R —Steel Point; **Reversible Colter;** Weight 146 Lbs.	$50.50
No. P433R4—Chilled Point; **Reversible Colter;** Weight 146 Lbs.	48.00
No. P433T —Steel Point; **Knife Colter;** Weight 151 Lbs.	50.50
No. P433T4—Chilled Point; **Knife Colter;** Weight 151 Lbs.	48.00
No. P433V —Steel Point, with **Jointer;** Weight 153 Lbs.	50.50
No. P433V4—Chilled Point, with **Jointer;** Weight 153 Lbs.	48.00

EXTRA POINTS

	Each
No. P433W —Steel	$7.40
No. P433W4—Plain Chilled	1.40
No. P433X —Chilled, with Shoulder	1.80

Note—Steel Point will be sent unless otherwise ordered

Weight 8 Lbs Each

ONE HORSE PLOWS

For Orchards, Viney rds, and all Plowing where one Horse is be used; Will turn all kinds of soil; Adjustable to any depth; Adjustable Beam allows Horse to walk either in furrow or on land; Adjustable Handles allow Operator to walk on side away from Trees or Shrubs.

Knife Colter can be furnished in place of Jointer, if so ordered.

	Each
No. P433X4—9 in. Cut; Complete with Jointer, Wood Beam, Chilled Moldboard, Chilled Landside and Chilled Point.	$32 50

Weight 95 Lbs. Each

EXTRA POINTS

	Each
No. P433Y—Chilled	$1 40

Weight 3 Lbs. Each

WING PLOWS

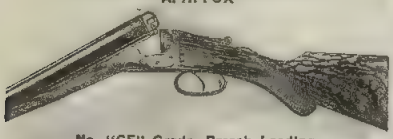
For Making Furrows and Hilling

	Each
No. P433Y4—Solid Steel Blade with Adjustable Wings; Wood Beam and Handles; Made of Best Materials throughout and Nicely Finished; Weight 35 Lbs. Each	$9 50

Weight 35 Lbs. Each

SHOT GUNS

DOUBLE BARREL, HAMMERLESS
A. H. FOX



No. "CE" Grade, Breech Loading.

This is the grade that is making good everywhere. In every respect it is unusual, a high grade gun at a very moderate price. Its a beauty in looks and finish, no gun will stand up better in hard work.

Engraving—Is the work of an artist, scroll and picture work stands out clear and beautiful in design.

Barrels—Best quality Krupp fluid steel; cylinder, modified and full choke bored.

Stock—Choice selection of dark, curly English walnut, the grain is beautifully brought out in the finish, straight, half or full pistol grip; rubber butt plate; checkering is of a fine diamond pattern, on grip, panels and fore-end.

Weights—12 gauge, 6½ to 8 lbs.; 16 gauge, 5¾ to 7 lbs.; 20 gauge, 5¼ to 6¼ lbs.

When ordering, specify length of barrel, weight, style of grip and boring wanted.

With Automatic Ejector.

	Each
No. CEF12—12 gauge, 26, 28, 30 or 32 inch barrels	✤$298 65
No. CEF16—16 gauge, 26, 28, 30 or 32 inch barrels	✤ 298 65
No. CEF20—20 gauge, 26, 28, 30 or 32 inch barrels	✤ 298 65

One in a cardboard box; ten in a wood case.

No. "XE" Grade, Breech Loading.

This grade is the result of the increasing demand for a trap gun which shall be as nearly perfect for the purpose as it is possible to be made. Each gun receives an elaborate amount of hand work, which in spite of the number of cheap machine made guns built, is still the only way to produce a really accurate and high grade gun.

Engraving—A new design conforms to the artistic standard of the other high grade Fox guns. It has never been equalled before in a gun under $200.00.

Barrels—Krupp fluid steel; cylinder, modified or full choke bored.

Stock—Beautifully marked Circassian walnut, straight, half or full pistol grip, or in the Monte Carlo type; rubber butt plate; grip, panels and fore-end beautifully checkered.

Weight—12 gauge, 6¼ to 8 lbs.; 16 gauge 5¾ to 7 lbs.; 20 gauge, 5¼ to 6¼ lbs.

When ordering, specify length of barrel, weight, style of grip and boring wanted.

With Automatic Ejector.

	Each
No. XEF12—12 gauge, 26, 28, 30 or 32 inch barrels	✤$458 70
No. XEF16—16 gauge, 26, 28, 30 or 32 inch barrels	✤ 458 70
No. XEF20—20 gauge, 26, 28, 30 or 32 inch barrels	✤ 458 70

One in a cardboard box; ten in a wood case.

Note—From Factory can furnish higher priced Fox Guns. Write for catalog and prices.

✤F. O. B. Pennsylvania Factory Only.

SHOT GUNS

THE FOX-KAUTZKY SINGLE TRIGGER
FOR THE A. H. FOX GUNS

This single trigger is recommended and guaranteed by the A. H. Fox Gun Company. It is exceedingly simple and is operated by the locks of the gun. No matter how heavy the recoil, the trigger will not engage the locks of the second barrel until you release it. It cannot double and will never balk When only one barrel is fired and gun reloaded, trigger returns to original barrel without attention from the shooter. The only trigger with automatic safety. This trigger fitted to any A. H. Fox hammerless gun, new or old, at an extra charge.

For Any A. H. Fox Hammerless Guns.	Each
Single trigger	✤$54 45

Note—To have single trigger fitted to guns already in use, the entire gun must be returned to factory, shipping charges prepaid.

DOUBLE BARREL, HAMMERLESS
PARKER

The mechanical construction of all Parker hammerless shot guns is the same. A special feature is the coil main spring, which the manufacturers guarantee for twenty-five years against breakage. Parker guns are bored on the latest improved system for shooting nitro or smokeless powder. All guns are tested before they leave the factory.

Regular dimensions carried in stock; length of stock about 14 inches; drop measures about 3 inches.

By shipping from factory, we can supply Parker guns (except 12VH (Grade), with stocks 13½ to 14½ inches long, with drop 2 to 3¼ inch without extra charge. Extra charge for dimensions varying from above. If 12VH grade with 14¼ inch stock or longer and special drop is wanted, same will involve additional charge. Six to eight weeks are required to make Parker guns to order.

Pistol grip guns sent unless otherwise specified. No extra charge for straight grip except on 12VH.

Trojan Grade, Breech Loading.

A most excellent well proportioned gun at a very low price

Barrels—Imported Trojan steel, matted top rib; cylinder modified or full choke bored.

Stock—American black walnut, of good color and finish; made only with full pistol grip; hard rubber butt plate, fore-end and grip neatly checkered.

Weights—12 gauge, 7½ to 8 lbs.; 16 gauge, 6½ to 7 lbs.; 20 gauge, 6½ to 6¾ lbs.

Automatic ejectors will not be furnished on Trojan grade guns.

Without Automatic Ejector.

	Each
No. TP12—12 gauge, 28 or 30 inch barrels	$146 85
No. TP16—16 gauge, 26 or 28 inch barrels	146 85
No. TP20—20 gauge, 26 or 28 inch barrels	146 85

One in a cardboard box, ten in a wood case.

✤F. O. B. Pennsylvania Factory Only.

SHOT GUNS
DOUBLE BARREL, HAMMERLESS
PARKER

VH Grade, Breech Loading.

A strictly high grade gun at a very low price; the best made gun of its grade ever produced; a gun for hard usage.

Barrels—Vulcan steel (black); cylinder, modified or full choke bored.

Stock—American walnut, checkered and engraved, with pistol grip, checkered rubber cap, hard rubber butt plate.

Weights—12 gauge, 7 to 9 lbs.; 16 gauge, 6 to 8 lbs.; 20 gauge, 5¾ to 7½ lbs.

Without Automatic Ejector.	Each
No. VH12—12 gauge, 28 or 30 inch barrels	✦$181 95
No. VH16—16 ga., 26, 28, 30 or 32 in. bbls	✦ 181 95
No. VH20—20 ga., 26, 28, 30 or 32 in. bbls	✦ 181 95

With Automatic Ejector.	Each
No. VHE12—12 ga., 28 or 30 inch barrel	✦$244 86
No. VHE16—16 ga., 26, 28, 30 or 32 in. barrel	✦ 244 86
No. VHE20—20 ga., 26, 28, 30 or 32 in. barrel	✦ 244 86

One in a cardboard box, ten in a wood case.

PH Grade, Breech Loading.

This gun is of excellent merit and good value.

Barrels—English twist; cylinder modified or full choke bored.

Stock—Fine American walnut, with straight, half or pistol grip, checkered rubber cap and engraved, hard rubber butt plate.

Weights—12 gauge, 7 to 9 lbs.; 14 gauge, 6¾ to 8¼ lbs.; 16 gauge, 6 to 8 lbs.; 20 gauge, 5¾ to 7½ lbs.

When ordering, specify length of barrel, weight, style of grip and boring wanted.

Without Automatic Ejector.	Each
No. PH12—12 ga., 26, 28, 30 or 32 in. bbls	✦$221 94
No. PH16—16 ga., 26, 28, 30 or 32 in. bbls	✦ 221 94
No. PH20—20 ga., 26, 28, 30 or 32 in. bbls	✦ 221 94

With Automatic Ejector.	Each
No. PHE12—12 ga., 26, 28, 30 or 32 in. bbls	✦$285 90
No. PHE16—16 ga., 26, 28, 30 or 32 in. bbls	✦ 285 90
No. PHE20—20 ga., 26, 28, 30 or 32 in. bbls	✦ 285 90

One in a cardboard box, ten in a wood case.

✦F. O. B. Connecticut Factory Only.

SHOT GUNS
DOUBLE BARREL, HAMMERLESS
PARKER

GH Grade, Breech Loading.

Fills the demand for a medium priced gun in every detail.

Barrels—Fine three-blade Damascus steel; cylinder, modified or full choke bored.

Stock—Fine figured American or imported walnut, straight half or pistol grip, neatly checkered and engraved; hard rubber butt plate.

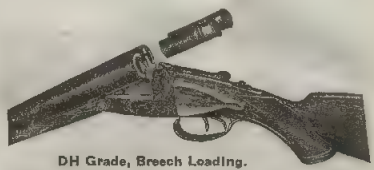
Weights—12 gauge, 7 to 9 lbs.; 14 gauge, 6¾ to 8¼ lbs.; 16 gauge, 6 to 8 lbs.; 20 gauge, 5¾ to 7½ lbs.

When ordering, specify length of barrel, weight, style of grip and boring wanted.

Without Automatic Ejector.	Each
No. GH12—12 ga., 26, 28, 30 or 32 in. bbls	✦$273 12
No. GH16—16 ga., 26, 28, 30 or 32 in. bbls	✦ 273 12
No. GH20—20 ga., 26, 28, 30 or 32 in. bbls	✦ 273 12

With Automatic Ejector.	Each
No. GHE12—12 ga., 26, 28, 30 or 32 in. bbls	✦$337 14
No. GHE16—16 ga., 26, 28, 30 or 32 in. bbls	✦ 337 14
No. GHE20—20 ga., 26, 28, 30 or 32 in. bbls	✦ 337 14

One in a cardboard box ten in a wood case.



DH Grade, Breech Loading.

Meets the demand for a popular priced gun.

Barrels—Fine Damascus steel, finely figured; or Titanic steel (without figure); cylinder, modified or full choke bored.

Stock—Fine imported walnut, with straight, half or pistol grip; rubber cap, silver shield, fine checkering and engraving, skeleton butt plate.

Weights—10 gauge, 7¼ to 10 lbs.; 12 gauge, 7 to 9 lbs.; 16 gauge, 6 to 8 lbs.; 20 gauge, 5¾ to 7½ lbs.

When ordering, specify length of barrel, weight, style of grip and boring wanted.

Without Automatic Ejector.	Each
No. DH12—12 ga., 26, 28, 30 or 32 in. bbls	✦$362 76
No. DH16—16 ga., 26, 28, 30 or 32 in. bbls	✦ 362 76
No. DH20—20 ga., 26, 28, 30 or 32 in. bbls	✦ 362 76

With Automatic Ejector.	Each
No. DHE12—12 ga., 26, 28, 30 or 32 in. bbls	✦$423 75
No. DHE16—16 ga., 26, 28, 30 or 32 in. bbls	✦ 423 75
No. DHE20—20 ga., 26, 28, 30 or 32 in. bbls	✦ 423 75

Note—From factory can furnish higher price Parker guns. Write for catalog and prices.

One in a cardboard box, ten in a wood case.

✦F. O. B. Connecticut Factory Only.

DULUTH SECTIONAL GARAGE EQUIPMENT

The store equipment shown on this and the following page was designed primarily for the display and storage of automobile accessories and supplies. However, it is also well suited for hardware and electrical goods, as well as many other similar lines.

Any combination of cabinets, drawer units and bases can be arranged to suit the requirements of the individual store.

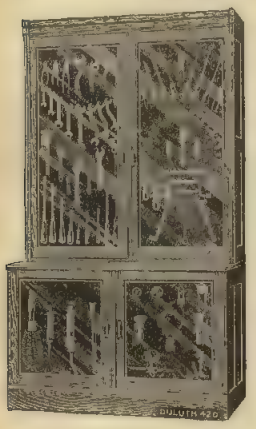
They are made much like the popular sectional book cases on the market and can be rearranged or added to at any time.

All of this equipment is 50½ in. long; the cabinets and drawer units are 13 in. deep and the bases 23¼ in. deep.

When it is desired to use the cabinets or drawer units without the regular base, it is necessary to use a sub-base, (F747B4) or, they can be set on any counter or wall base already in use.

The tops or cornices (F747B) for these cabinets come separately and are not sent unless ordered. A top or cornice is only required for each cabinet or drawer unit on top of the stack.

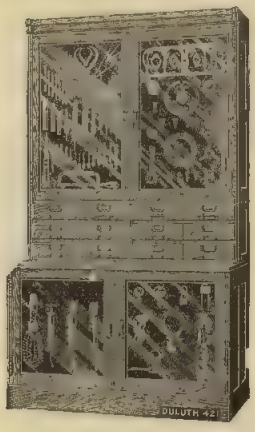
PRACTICAL COMBINATIONS



Each

No. F746A—(420) Height 7½ ft.; Four Stationary Shelves behind Upper Doors and One behind Lower Doors $205.20

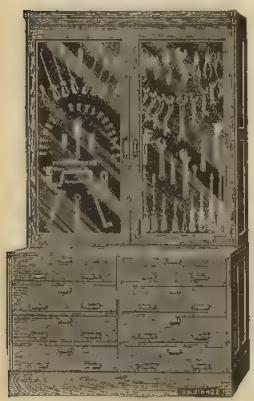
Weight 465 Lbs. Each



Each

No. F746B—(421) Height 7½ ft.; Three Shelves behind Upper Doors; One Shelf behind Lower Doors; 12 Steel Drawers, 13 in. Wide, 3¾ in. High. $218.20

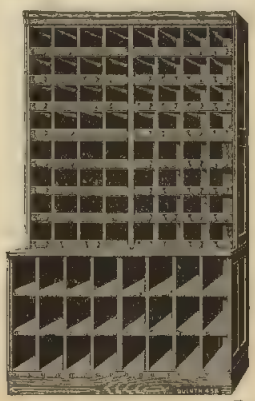
Weight 510 Lbs. Each



Each

No. F746C—(422) Height 7½ ft.; Four Shelves behind Upper Doors; Eight Drawers in Base, 24 in. Wide and 6 in. High.. ..... $218.70

Weight 555 Lbs. Each



Each

No. F746D—(423) Height 7½ ft.; 64 Bins, 6x6x12 in. and 24 Bins, 8x8½x24 in.; Weight 485 Lbs. Each .. $146.50

No. F746E (440) Height 7½ ft.; 36 Bins, 8x8x12 in. and 18 Bins, 8x8½x24 in.; Weight 465 Lbs. Each..... 118.70

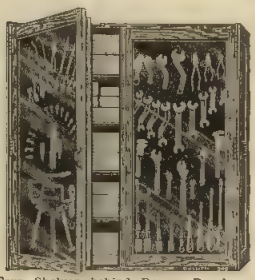
FULL HEIGHT CABINETS

Glazed with O. S. Glass Each

No. F746J—(306) Height 55 in.; Shelves as per Illustration; Wt. 210 Lbs..$32.00

No. F746K—(324) Height 41¼ in.; Two Shelves; Weight 170 Lbs..... 65.00

No. F746L—(340) Height 27½ in.; One Shelf; Weight 120 Lbs..... 32.90



Four Shelves behind Doors, Panels covered with Rich Green Felt

Nos. Each

F746M -(308) 55 in. High; 230 Lbs.$118.00

F746P -(326) 41¼ in. High; 175 Lbs. 94.80

Nos. Depth 13 in.; Length 60½ in. Each

F746R—(310) 55 in. High; 170 Lbs..$37.00

F746T—(328) 41¼ in. High; 155 Lbs . 29.90

F746V—(342) 27½ in. High; 145 Lbs.. 19.50

Complete Catalog of Store Equipment furnished on request

PADLOCKS

SWITCH

All bronze spring shackle, spring key hole drop, one drilled key, keyed alike.

NO.	Size	Wt. Doz.	DOZEN
0089	2¼ in.	9 lb.	$20.00

With 9 inch Steel Chain

NO	Size	Wt Doz.	DOZEN
039	2¾ in	10 lb.	$22.00

HALF DOZEN IN A BOX

KEYLESS

Case is black enameled wrought steel; malleable iron spring shackle; nickel plated solid brass dial and knob; wrought brass interior. Six hundred combinations available.

NO.	Size	Wt. Doz.	DOZEN
24	2 in.	5½ lb.	$20 00

ONE IN A BOX WITH DIRECTIONS

TIRE LOCK

Heavy cast bronze case, case hardened shackle. This offset shackle will fit any tire rack. Two corrugated keys.

NO.	Size	Wt Doz	DOZEN
1098	1¼ in.	10 lb	$20.00

GARAGE PADLOCKS

Pin Tumbler

Made from a solid block of extruded brass metal, bored out to receive mechanism. Heavy brass spring shackle, ball-bearing, pin tumbler cylinder, two nickel silver keys. All different changes.

NO	Size	Wt. Doz.	DOZEN
2879	1 in	2¼ lb.	$20.00
2880	1⅜ in.	4 lb.	23 00
2881	1½ in	5½ lb.	26 00
2883	2 in	10½ lb.	28 00
2881KA	1½ in	5½ lb.	26 00
		Keyed Alike	
2881KA	1½ in.	5½ lb.	26 00
		Master Keyed	
2880MK	1⅜ in.	4 lb.	30 00
23 Master Keys—Extra			8.00

ONE IN A BOX

NO.	Size	Wt. Doz.	DOZ PAIR
2887	1¼ in.	3 lb.	$20.00

Can be Master Keyed from Factory Only.
ONE IN A BOX

Seamless steel case, 1⅛ in.; bower barff finish; steel nickel plated shackle; 3 tumblers; 48 changes.

9863	Without Chain	3 lb	$14 00
9863C	With Chain	3½ lb	16.00
	Keyed Alike		
9863KA	Without Chain	3 lb	14 00
9863CKA	With Chain	3½ lb	16 00
	Case Hardened Shackle		
9863CHS	Without Chain	3 lb.	17 50

HALF DOZEN IN A BOX

Pin Tumbler

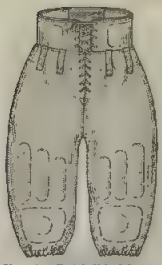
Iron case, bower barff finish, spring shackle, nickel plated, two nickel silver keys. All different changes.

NO.	Size	Wt. Doz.	DOZEN
4187	1⅛ in.	4½ lb.	$22.00
4188	1⅜ in.	5½ lb.	24.00
4188KA	1⅜ in.	5½ lb. Keyed alike	24.00
		Master Keyed	
4188K	1⅜ in.	5½ lb.	30.00
21 Master Keys—Extra			8.00

Corbin cast brass; small size for tool boxes, etc. Made from a solid block of extruded brass. Seamless case; two flat steel keys.

NO.	Size	Finish	Wt. Doxen	DOZEN
2860	1 in.	Pol Brass	2 lb.	$12 00

FOOT BALL CLOTHING

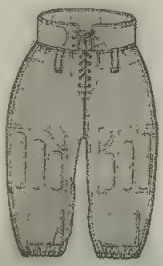


PANTS

Made from best quality 8 oz. army duck. Finest white felt hips and kidney pads, reinforced with flexible fibre. Kidney pad covered with duck. Oval shaped flexible fibre pieces covered with drill on hip pads. Wide olive color web elastic, joins kidney pads. Reinforced spine protector with felt and duck. Three pieced flat fibre thigh guards with 3 inch elastic bands on inside to hold thigh guards snug to leg. Adjustable felt knee pads with leather at vital points. Leather reinforcement at crouch and bottom of fly worked eyelets. Extra strong braided lace.

Per Pair

No. 1—Cut full in hips and properly shaped in legs ... ✣$27 75



PANTS

Made of selected olive 8 oz. duck, heavy weight. Gray felt kidney and hip pad. Kidney pad extends completely around waist and reinforced with flexible fibre. Covered with Khaki cloth. Three piece flat fibre thigh guards.

Per Pair

No. 7-00—Adjustable felt knee pad with leather cap ... ✣$18 15

PANTS

Made of best quality 8 oz. duck, olive color, hip and kidney pads white wool felt.

Thigh pads reinforced with three piece fibre.

Per Pair

No. PH—Knees well padded. ✣$16 95

PANTS

When ordering be sure and state waist measurement and length of inside seam from crotch to six inches below the knee.

Made of selected olive drab khaki cloth; extension hip pads; covered with olive khaki, laced in front; three-piece flat fibre thigh guards; tied in knee pads; reinforced crotch and bottom of fly with leather.

Per Pair

No. 3—Weight per pair about 5 lbs. ... ✣$16 80

✣F. O. B. Missouri Factory Only.

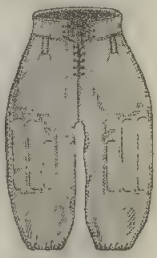
FOOT BALL CLOTHING

PANTS

When ordering be sure and state waist measurement and length of inseam from crotch to six inches below the knee.

Per Pair

No. 3½T—Men's tan drill, padded hips and knees, cane thigh guards ... ✣$7 26



PANTS

Made of best quality 8 oz. duck, olive color. Kidney pads gray felt, covered with 8 oz. olive duck. Hips well quilted, with mattress felt, in pocket of drill. Padding will not shift. Three piece flat fibre reinforced thigh guards with knees padded like hips.

Per Pair

No. 4—Prep scool special ... ✣$12 30

PANTS

When ordering be sure and state waist measurement and length of inseam from crotch to six inches below the knee.

Made of best grade tan khaki cloth; well padded at hips and knees; thigh pads reinforced with 3 piece curved flexible fibre piece.

Per Pair

No. 12-0K—Weight per pair about 5 lbs. ... ✣$9 90

JERSEYS

When ordering be sure and state breast measurement.

Any other colors than here mentioned in ten days to order. Letters and monograms extra, prices on application.

Each

No. 3FB—Made of special quality fine lofty pure worsted medium weight yarn with 6 inch body stripe; regulation football one inch collar; knit to shape; ½ inch narrow and 2½ inch wide alternate stripes on sleeve ... ✣$15 00

No. 3—Same as No. 3FB except full fashioned solid colors, light weight. Colors: Navy blue, black, maroon, royal blue and white ... ✣ 13 50

Half dozen in a cardboard box, average weight each 12 ozs.

✣F. O. B. Missouri Factory Only.

FOOT BALL SHOES

Special selected black tanned stock; one piece leather innersole; brown arrangement of cleats; ankle pads. When ordering be sure to specify size.

Per Pair

No. 409L—Sizes 6, 7, 8, 9 and 10 . . . . . $14 70

One pair in a cardboard box; weight 2 lbs.

BASE BALL AND FOOT BALL STOCKINGS

Plain.

Be sure to state size.

Per Dozen Pairs

Grade A—Heavy worsted, wide ribbed; weight per pair 8 ozs. . . . . ✦$81 00

Grade B—Heavy worsted, narrow ribbed; weight per pair 6 ozs. . . . . ✦ 54 00

Grade C—Heavy Saxony wool, wide ribbed; weight per pair 6 ozs. . . . . ✦ 46 80

Grade D—Heavy weight, ribbed, good quality; weight per pair 6 ozs. . . . . ✦ 19 80

Striped.

Be sure to state size.

With calf stripe. Special striped stockings made to order and can be furnished in ten days.

Per Dozen Pairs

No. AS—Heavy worsted, wide ribbed; weight per pair 8 ozs. . . . . ✦$81 00

No. BS—Heavy worsted, wide ribbed; weight per pair 6 ozs. . . . . ✦ 54 00

No. CS—Heavy Saxony wool, wide ribbed; weight per pair 6 ozs. . . . . ✦ 46 80

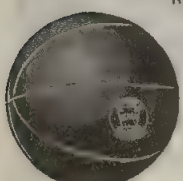
No. DS Heavy weight, ribbed, good quality; weight per pair 5 ozs. . . . . ✦ 19 80

Stockings with feet extra . . . . . ✦ 3 15

Half dozen pairs in a box.

MEDICINE BALLS

REACH



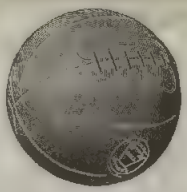
The physical benefit derived from the use of a medicine ball is unlimited. The catching and throwing of it develops the chest, exercises the back, arms and legs; in fact it is beneficial to the whole system. A number of persons can exercise with it at the same time.

Each

No. 2M—Fine buck dressed leather, well stuffed and sewed; 36 inch $15 00

One in a cardboard box; weight 6 lbs.

✦F. O. B. Missouri Factory Only.



VOLLEY BALLS

REACH

Made of highest quality leather; sewed with waxed linen thread; very strong and durable. Regulation size and weight. Complete with pure gum bladder and cord lace.

Per Dozen

No. 5W—Smooth grain foot ball leather $198 00

No. 10W Brown grain calfskin 169 20

One in a cardboard box; weight each about 1 lb

BASKET BALLS

REACH

OFFICIAL

Made of specially selected TUF-IDE leather, tanned expressly for use in this ball. Made in eight sections and every care taken to make it a perfect ball. Must be used in all match games. Pure Para rubber bladder. Complete with leather lace and lacing needle. Playing weight 20 to 24 ozs.

Per Dozen

No. 0—Shipping weight each 28 ozs. $360 00

One in a cardboard box.

LEAGUE

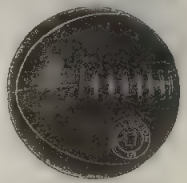
Made of imported pebble grain leather, in eight sections. Guaranteed a perfect ball. Special pure Para rubber bladder. Complete with leather lace and lacing needle. Playing weight 20 to 24 ozs.

Per Dozen

No. 1—Shipping wt each 28 ozs. $312 20

One in a cardboard box.

REGULATION



Made of fine specially prepared cow hide leather, extra strong, in six sections. Guaranteed a perfect ball. Pure Para rubber bladder. Complete with leather lace and lacing needle. Playing weight 19 to 20 ozs.

Per Dozen

No. 1½—Shipping wt each 25 ozs. $264 60

One in a cardboard box.

SPECIAL

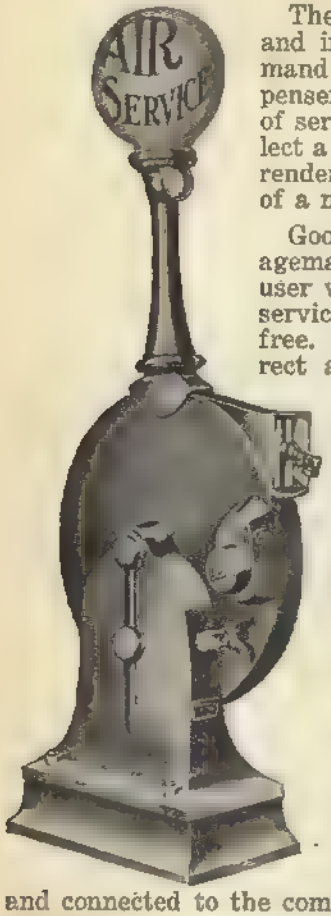
Made of selected pebble grain sheep skin leather in eight sections. Pure Para rubber bladder. Complete with cloth lace. Playing weight 9 to 11 ozs.

Per Dozen

No. 2—Shipping weight each 14 ozs. $135 00

One in a cardboard box.

ECO AIR AND WATER STATIONS



These stations are being built and installed to supply the demand for an automatic air dispenser which will give the best of service to the autoist and collect a fair charge for the service rendered without taking any time of a mechanic or garageman.

Good air service costs a garageman considerable and an auto user would rather pay for good service than have poor service free. Good service means correct air pressure at all times, clean air and no waiting for attendants. And good service means satisfied customers.

Eco air and water stations can be furnished without the coin device if desired.

Eco air station No. 12 can be furnished in any one of three styles—complete with automatic valve and coin box—complete with automatic valve but less coin box—without either automatic valve or coin box.

These stations are located outside the garage and connected to the compressed air system of the garage.

These stations are built of gray iron. Each station contains a patented, enclosed, spring operated steel hose reel, running on Hyatt roller bearings. The spring is in an oil bath and the spring tension is adjustable. Each reel carries 32 feet of special Eco brand oil resisting air hose. All bearings are amply proportioned.

In the coin operated machines the reel is geared direct to a spring barrel controlled by the coin device, which makes it necessary to deposit a coin before air can be obtained.

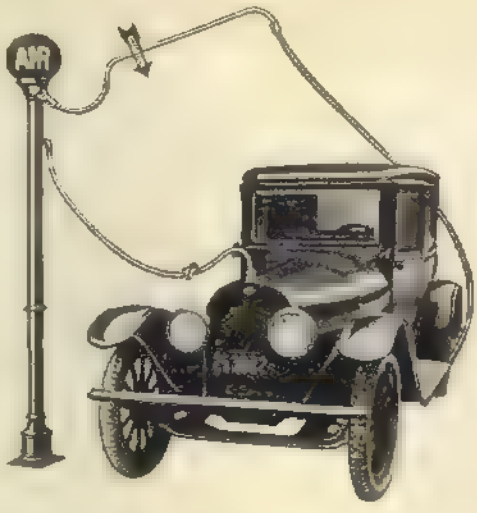
An automatic cut-off in the base of the station cuts off all air pressure except when the hose is pulled out. When the hose is released the spring draws the hose back into the station, automatically locks the device and makes it necessary to deposit another coin before station can again be used.

Gauge in top shows tank and tire pressure. Water faucet can be connected to city water or other source of supply.

All mechanism as near fool proof as possible and protected from dust and weather. Finished in weather-blue enamel finish with top provided for electric light.

No. 12C Complete with automatic valve and coin box.....each, **$125.00**
No. 12B Complete with automatic valve, but without coin box.....each, **115.00**
No. 12A Without coin box or automatic valve .....each, **95.00**

ROMORT AIR AND WATER STATIONS



Romort air and water stations furnish not only a convenient service but combine with these features an effective advertising device in the 12 inch green electric light globe on the top which attracts attention.

When these stations are installed at the curb they do not impede traffic in the least when not in use. When in use, the arm through which the air hose passes is drawn down, allowing air service to be applied to the tires of the car in position at the station. After air has been supplied and the hose is released by the user, the arm returns to a vertical position, where it remains until again used.

Both air and water hose are at all times clear of the ground and particularly so when the hose is not in use. This not only lengthens the life of the air hose and valve, but affords a clean method of inflating tires and supplying water to the radiator.

Romort air and water stations have an oil governor built into the head, which controls the return of the extension arm. If this governor were not used the sudden return of the vertical arm would possibly cause damage by being abruptly checked because of the strength of the spring used in returning the arm. Adjustment is made by means of an adjusting screw in the head. The chamber of the governor is filled with a 50 per cent solution of kerosene and lubricating oil or other non-freezing oils.

This model has a large, roomy round base, with a large door, which makes the installation and connection to the air, water and lighting lines a very simple matter. It also contains an electric wire junction box, having a swivel, where the conduit pipes connect.

The electric light globe is sandblasted with white letters and has a standard 6 inch base held firmly in place by a metal ring.

Height, base to head, 6 feet. Height to top of arm, 12 feet. Radius of hose, 17½ feet.

All fittings furnished, ready for installation.

Model SB Globe type.....each, **$90.00**

"MAYFLOWER"

"Edwin M. Knowles" trademarked. Light wt., white semi-porcelain hollow pieces, semi-[illegible] and red gold [illegible] edges & [illegible] Open stock, sold in sets only. No Package Charge.

DINNER SETS

E16494—31 piece set.
Shipping weight about 50 lbs. ..... SET. $5.65

E16490—42 piece set.
Shipping weight about 60 lbs. ..... SET. $9.50

E16496—50 piece set.
Shipping weight about 64 lbs. ..... SET. $12.50

E16493—100 piece set.
Shipping weight about 92 lbs. ..... SET. $27.50

OPEN STOCK

CUP AND SAUCER—
E16400- Tea 5¼x2¼ in., saucer 5¾ ..... Doz. $4.80
E16402-Oyster 3½x2¼ in., saucer 5¾ ..... Doz. $4.80

PLATES—
E16410-4 in., act. 6¾ ..... Doz. $1.65
E16411-6 " " 7¾ " 2.15
E16412-8 " " 9 " 2.65
E16413-7 " " 8¼ " 3.25
E16414-8 " " 9¾ " 4.25
E16417-Compe soup, 7 in., act. 8 ..... Doz. $3.25

BAKER—
E16424-7 in. act. 8¾ ..... Doz. $6.50

BOWL—
E16431-10 in. ..... Doz. $4.50

PLATTERS—
E16443- 8 in. act. 11¼ ..... Doz. $7.00
E16448-10 " " 13 " 12.50
E16447-12 " " 15¼ " 18.00

FRUIT—
E16440-4 in. act. 5¼ ..... Doz. $1.40

CREAMER—
E16476-10½ ..... Doz. $5.50

COVERED SUGAR—
E16477-10 oz. ..... Doz. $11.00

COVERED BUTTER With drainer
E16479- ..... Doz. $16.50

INDIVIDUAL BUTTER—
E16478- 3¼ in. ..... Doz. $0.90

COVERED DISH—Oval
E16480- 7 in. ..... Doz. $19.50

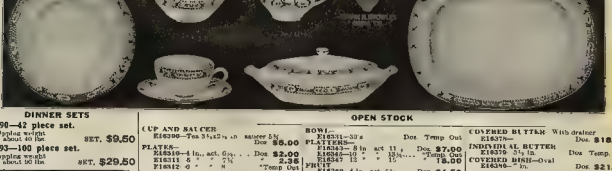
CASSEROLE—Round
E16481- 7 in. ..... Doz. $22.50

SAUCE BOAT—Attached stand
E16484-6¼ in. ..... Doz. $18.00

PICKLE DISH—
E16485-8½x5½ in. ..... Doz. $5.50

"KENWOOD"

"Edwin M Knowles" trademarked. Light wt. white semi-porcelain hollow pieces, cast, [illegible] in [illegible] French [illegible] blue [illegible] green [illegible] scroll, pale rose [illegible] edges. [illegible] Open stock — [illegible] No Package Charge



DINNER SETS

E16398—42 piece set.
Shipping weight about 60 lbs. ..... SET. $9.50

E16392—100 piece set.
Shipping weight about 90 lbs. ..... SET. $29.50

For composition of these sets see bottom of this page

OPEN STOCK

CUP AND SAUCER—
E16396—Tea 5¼x2¼ in., saucer 5¾ ..... Doz. $5.00

PLATES—
E16310-4 in., act. 6¾ ..... Doz. $2.00
E16311-6 " " 7¾ " 2.25
E16312-8 " " 9 " Temp. Out
E16313-7 " " 8¼ " 3.50
E16314-8 " " 9¾ " Temp. Out
E16317-Compe soup, 7 in., act. 8 ..... Doz. $3.50

BAKER—
E16324-7 in. act. 8¾ ..... Doz. $6.00

BOWL—
E16331-10 in. ..... Doz. Temp. Out

PLATTERS—
E16343-8 in. act. 11¼ ..... Doz. $7.00
E16345-10 " " 13¾ ..... " Temp. Out
E16347-12 " " 15 " 18.00

FRUIT—
E16340-4 in., act. 5¾ ..... Doz. $1.50

CREAMER—
E16376-10½ ..... Doz. $6.00

COVERED SUGAR—
E16377-10 oz. ..... Doz. $12.00

COVERED BUTTER With drainer
E16379- ..... Doz. $16.00

INDIVIDUAL BUTTER—
E16378- 3¼ in. ..... Doz. Temp. Out

COVERED DISH—Oval
E16380- 7 in. ..... Doz. $21.00

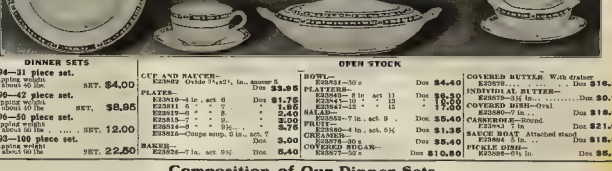
CASSEROLE—Round
E16381- 7 in. ..... Doz. $24.00

SAUCE BOAT—Attached stand
E16384- 6¼ in. ..... Doz. $20.40

PICKLE DISH—
E16385-8½x5½ in. ..... Doz. $6.00

"DELMONTE"

National China Co's first quality light wt. white semi-porcelain, delicate pink rose, daisies and forget-me-nots on black band, gold edges, striped handles and verge line. Open stock, sold in any quantity. No Package Charge.



DINNER SETS

E23394—31 piece set.
Shipping weight about 50 lbs. ..... SET. $4.00

E23396—42 piece set.
Shipping weight about 60 lbs. ..... SET. $6.95

E23395—50 piece set.
Shipping weight about 64 lbs. ..... SET. 12.00

E23393—100 piece set.
Shipping weight about 90 lbs. ..... SET. 22.50

OPEN STOCK

CUP AND SAUCER—
E23402-Oyster 3½x2¼, in., saucer 5 ..... Doz. $3.95

PLATES—
E23310-4 in., act. 6 ..... Doz. $1.75
E23311-6 " " 7 " 1.95
E23312-8 " " 8 " 2.40
E23313-7 " " 8 " 2.75
E23314-8 " " 9¾ " 3.75
E23315-Compe soup, 6 in., act. 7 ..... Doz. 3.00

BAKER—
E23324-7 in. act. 8¾ ..... Doz. 5.40

BOWL—
E23331-10" ..... Doz. $4.40

PLATTERS—
E23343-8 in. act. 11 ..... Doz. $6.50
E23345-10 " " 13 " 10.00
E23347-12 " " 15 " 17.00

SALAD—
E23352-7 in., act. 9 ..... Doz. $5.40

FRUIT—
E23340-4 in., act. 5¾ ..... Doz. $1.35

CREAMER—
E23378-10 ..... Doz. $5.40

COVERED SUGAR—
E23377-10" ..... Doz. $10.80

COVERED BUTTER With drainer
E23376- ..... Doz. $16.20

INDIVIDUAL BUTTER—
E23379-3¼ in. ..... Doz. $0.90

COVERED DISH—Oval
E23380- 7 in. ..... Doz. $18.60

CASSEROLE—Round
E23382- 7 in. ..... Doz. $21.00

SAUCE BOAT—Attached stand
E23384- 6¼ in. ..... Doz. $18.00

PICKLE DISH—
E23385-8¼ in. ..... Doz. $6.40

Composition of Our Dinner Sets

31 Piece Set
6 cups. 6 fruits, 4 in.
6 saucers. 6 plates, 4 in.
6 plates, 6 in. 1 platter, 8 in.

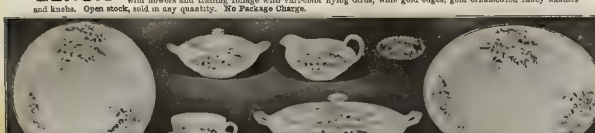
NO PACKAGE CHARGE ON OUR DINNERWARE

42 Piece Set
6 tea cups. 1 bowl, 10"s.
6 saucers. 1 platter, 8 in.
6 plates, 4 in. 6 fruits, 4 in.
6 plates, 5 in. 1 covd. sugar (2 pcs.)
6 plates, 7 in. 1 creamer.
1 baker, 7 in.

50 Piece Set
8 tea cups. 1 nappy, 7 in.
6 saucers. 1 bowl, 10"s.
6 plates, 4 in. 1 dish, 10 in.
6 plates, 5 in. 1 creamer
6 plates, 7 in. 1 covd. sugar (2 pcs.)
6 coupe soups 1 covd. dish (2 pcs.)
6 fruits, 4 in.

100 Piece Set
12 tea cups. 15 fruits, 4 in.
15 saucers 1 covd. sugar (2 pcs.
12 plates, 4 in 1 creamer
12 plates, 5 in 1 butter dish (2 pcs.)
12 plates, 7 in 1 casserole (2 pcs.)
12 plates, 9 in. 1 dish, 12 in. 20 pcs.
1 baker, 7 in. 1 platter, 8 in. 1 sauce boat (2 pcs.).
1 platter, 10 in. 1 pickle dish.

"GENOA" National china trademarked, high grade, light weight, semi-porcelain, richly tinted blue, pink and green wild flowers and trailing foliage with vari-color flying birds, wide gold edges, gold ornamented fancy handles and knobs. Open stock, sold in any quantity. No Package Charge.



DINNER SETS

E22494—31 piece set.
Shipping weight about 30 lbs. ..... SET **$3.10**

E22490—42 piece set.
Shipping weight about 50 lbs. ..... SET. **$4.95**

E22496—50 piece set.
Shipping weight about 60 lbs. ..... SET **$6.95**

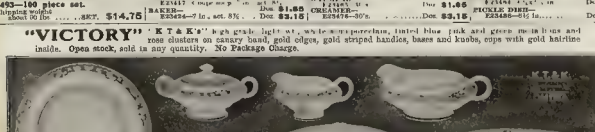
E23493—100 piece set.
Shipping weight about 90 lbs. ..... SET. **$14.75**

CUPS AND SAUCERS
F23490 Tea cup and saucer ..... Doz. **$2.25**
E23493 Coffee cup and saucer ..... Doz. **$2.75**
PLATES
E23642-6 in. plate ..... " **$1.05**
E23641-7 " " ..... " **1.20**
E23640-8 " " ..... " **1.40**
F23475-9 " " ..... " **1.75**
F23476-10 " " ..... " **2.25**
E23417-7 cup soup 7 in. set 8½ ..... Doz. **$1.65**
BAKER—
E23674-7 in. set. 8½ ..... Doz. **$2.15**

OPEN STOCK

BOWL—
F23475 10 in. ..... Doz. **$2.65**
PLATTERS
E23643 9 in. set 11 ..... Doz. **$3.70**
E23644-12 " " 13 ..... " **5.40**
E23645-15 " " 16 ..... " **8.60**
SAUCE BOAT—
E23452-7 in., set 9. ..... Doz. **$3.15**
PITCHER—
F23460 6 in. set 7½ ..... Doz. **$0.78**
CREAMER—
E23476 10 in. ..... Doz. **$1.65**
CREAMER—
E23478-10 in. ..... Doz. **$3.15**
COVERED SUGAR—
E23477 10 in. ..... Doz. **$6.30**
COVERED BUTTER—With drainer
E23478 ..... Doz. **$6.60**
COVERED DISH—Oval.
E23480-7 in. ..... Doz. **$11.04**
CASSEROLE—Round
E23482-8 in. ..... Doz. **$12.60**
SAUCE BOAT—Attached stand
E23481 6¾ in. ..... Doz. **$9.90**
PICKLE DISH—
E23485-8½ in. ..... Doz. **$3.15**

"VICTORY" K T & E's high grade, light weight, semi-porcelain, tinted blue, pink and green morning glories and rose clusters on canary band, gold edges, gold striped handles, bases and knobs, cups with gold hairline inside. Open stock, sold in any quantity. No Package Charge.



DINNER SETS

E15594—31 piece set.
Shipping weight about 30 lbs. ..... SET. **$5.40**

E15596—42 piece set.
Shipping weight about 50 lbs. ..... SET **$8.95**

E15596—50 piece set.
Shipping weight about 60 lbs. ..... SET. **$12.50**

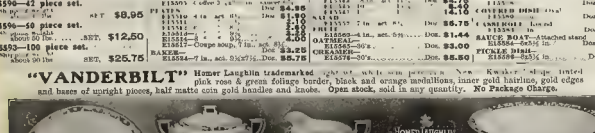
E15593—100 piece set.
Shipping weight about 90 lbs. ..... SET. **$26.75**

CUPS AND SAUCERS—
E15598—Tea 2½x3½ in., saucer 5½ ..... Doz. **$4.10**
F15595 Coffee 2 in. saucer 5½ ..... Doz. **$4.85**
PLATES—
E15590 6 in. set 6½ ..... Doz. **$1.10**
E15591-7 " " 7½ ..... " **1.45**
E15592-8 " " 8½ ..... " **2.02**
E15593-9 " " 9½ ..... " **2.60**
E15594-10 " " 10½ ..... " **3.00**
E15617—Coupe soup, 7 in. set 8½ ..... Doz. **$3.25**
BAKER—
E15624-7 in., set. 8½x7½ ..... Doz. **$5.75**

OPEN STOCK

BOWL—
E15591—9½ in. ..... Doz. **$4.75**
PLATTERS—
F15593 11 in. set 11½ ..... Doz. **$4.75**
E15594-13 " " 13½ ..... " **7.10**
SALAD—
E15597 7 in. set 8½ ..... Doz. **$5.75**
PITCHER—
E15595-6 in., set. 8½ ..... Doz. **$1.44**
OATMEAL—
E15596—9½ in. ..... Doz. **$3.00**
CREAMER—
E15576—10½ ..... Doz. **$5.50**
COVERED SUGAR—
E15577—9½ in. ..... Doz. **$11.40**
COVERED BUTTER—With drainer
E15578 ..... Doz. **$16.80**
COVERED DISH—Oval
E15580 ..... Doz. **$21.00**
CASSEROLE—Round
E15581 In. ..... Doz. **$22.80**
SAUCE BOAT—Attached stand
E15584—6¾ in. ..... Doz. **$16.80**
PICKLE DISH—
E15586—8½ in. ..... Doz. **$5.75**

"VANDERBILT" Homer Laughlin trademarked, light weight, semi-porcelain, tinted pink rose & green foliage border, black and orange medallions, inner gold hairline, gold edges and bases of upright pieces, half matte coin gold handles and knobs. Open stock, sold in any quantity. No Package Charge.



DINNER SETS

E13994—31 piece set.
Shipping weight about 30 lbs. ..... SET **$5.90**

E13990—42 piece set.
Shipping weight about 50 lbs. ..... SET. **$9.65**

E13996—50 piece set.
Shipping weight about 60 lbs. ..... SET. **$15.65**

E13993—100 piece set.
Shipping weight about 90 lbs. ..... SET. **$28.25**

CUPS AND SAUCERS—
F13990—Tea 2½x3½ in. saucer 5½ ..... Doz. **$4.95**
F13995 Coffee 2 in. saucer 5½ ..... Doz. **$5.75**
PLATES—
E13919 6 in. set 6½ ..... Doz. **$1.20**
E13911-7 " " 7½ ..... " **1.62**
E13913-8 " " 8½ ..... " **2.02**
E13915-9 " " 9½ ..... " **2.62**
E13914-10 " " 10½ ..... " **3.00**
F13917—Coupe soup, 7 in. set 8½ ..... Doz. **$3.10**
BAKER—
E13924-7 in., set. 8½ ..... Doz. **$6.10**

OPEN STOCK

BOWL—
E13951—9½ in. ..... Doz. **$4.75**
PLATTERS—
F13945 11 in. set 11½ ..... Doz. **$4.75**
E13946-13 " " 13½ ..... " **7.10**
SALAD—
E13959-7 in., set. 8½ ..... Doz. **$5.75**
PITCHER—
E13958-6 in., set. 8½ ..... Doz. **$1.43**
OATMEAL—
F13957—9½ in. ..... Doz. **$3.00**
CREAMER—
E13976—10½ ..... Doz. **$7.20**
COVERED SUGAR—
E13977—9½ ..... Doz. **$15.60**
COVERED BUTTER—With drainer
E13978 ..... Doz. **$18.00**
COVERED DISH—Oval
E13980 ..... Doz. **$24.00**
CASSEROLE—Round
E13982-8 in. ..... Doz. **$25.80**
SAUCE BOAT—Attached stand
E13984 ..... Doz. **$18.60**
PICKLE DISH—
E13986—8½ in. ..... Doz. **$5.75**

Composition of Our Dinner Sets

31 Piece Set
6 cups. 6 fruits, 4 in.
6 saucers. 6 plates, 6 in.
6 plates, 9 in. 1 platter, 8 in.

We will give you a quotation on any set you think you can sell.

42 Piece Set
6 tea cups. 1 bowl, 9½ in.
6 saucers. 1 platter, 8 in.
6 plates, 6 in. 6 fruits, 4 in.
6 plates, 7 in. 1 bowl sugar (2 pcs.)
6 plates, 9 in. 1 creamer.
1 baker, 7 in.

50 Piece Set
6 tea cups. 1 nappy, 7 in.
6 saucers. 1 bowl 9½ in.
6 plates, 6 in. 1 dish 10 in.
6 plates, 8 in. 1 creamer.
6 plates, 9 in. 1 bowl sugar, 2 pcs
6 coupe soups 1 bowl dish (2 pcs.
6 fruits, 4 in

100 Piece Set
12 tea cups. 12 fruits, 4 in.
12 saucers. 1 bowl sugar (2 pcs.).
12 plates, 6 in. 1 creamer
12 plates, 7 in. 1 butter dish (3 pcs.).
12 plates, 9 in. 1 casserole (2 pcs.)
1 baker, 7 in. 1 [illegible]
1 baker, 8 in. 1 [illegible]
1 platter 11 in. 1 [illegible]

D 5

ELECTRIC FIXTURE PARTS

Hangers

Solid brass; flexible loop; diameter 5/8 inches; length 6 inches; 1/4 inch thread; brush brass finish.

Per 100

No. 2228B—Weight per 100, 25 lbs. $45 90

Fixture Stems.

Heavy brass; 3/8 inch tube; No. 18B and S gauge; length 18 inches.

Nos.	5581N	5581BB
Finish	Nickeled	Brush Brass
Weight per 100, lbs.	32	32
Per 100	$110 25	$7 75

Lock Nuts.

Steel, hexagon; tapped 1/4 inch.

Per 100

No. 1869-1/4—Weight per 100, 6 lbs. $0 87

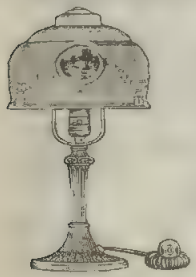
Dust Covers.

Heavy brass; brush brass finish; for 2 1/4 inch socket cover.

Per 100

No. 522BB—Weight per 100, 12 lbs. $16 65

ELECTRIC PORTABLE LAMPS



BOUDOIR LAMPS

One light. Eight inch round fancy glass shade.

Ornamental cast metal base and column.

Height over all 13 1/2 inches; size of shade 8 inches.

Complete with push socket, 6 feet silk covered lamp cord and attachment plug.

Each

No. 1498, Ivory finish $18 90

One in a carton; wt. each 4 lbs.

One light. Four paneled shade of cast metal open work over panels of light amber art glass. Ornamental cast metal base and column. Height over all 15 3/4 inches; size shade 8 3/4 inches. Complete with key socket, 6 feet of silk covered lamp cord and attachment plug. **Incandescent lamps not included.**

Each

No. L2611AB—Antique bronze finish $22 05

No. L26110—Old Ivory finish 22 05

One in a carton; wt. each 18 lbs.

ELECTRIC PORTABLE LAMPS

One light. Four paneled shade of cast metal open work, over panels of art glass.

Fancy cast metal base with reeded columns.

Extreme height 14 1/2 inches; size shade 7 inches. Complete with key socket, 6 feet of silk covered lamp cord and attachment plug. Each

No. 218—Antique gold finish; with light amber art glass $20 55

One in a carton; weight each 15 lbs.

BOUDOIR LAMPS

One light. Shade made of cast metal, open work over panels of painted glass.

Ornamental cast metal base and column.

Height over all 15 inches; size of shade 8 inches. Complete with push socket, 6 feet of silk covered lamp cord and attachment plug.

No. 1495 1/2—Ivory finish ..... Each $24 15

One in a carton; wt. each 5 lbs.

. One light. Shade made of cast metal, open work over panels of painted glass.

Ornamental cast metal base and column. Height over all 19 inches; size of shade 10 inches.

Complete with push socket, 6 feet of silk covered lamp cord and attachment plug.

Each

No. 1496 1/2—Green and gold finish $27 30

One packed in a carton; weight each 7 lbs.

Two lights. Hexagon shade of cast metal open work over panels of light amber art glass. Ornamental cast metal base and column. Height over all 21 1/4 inches; size shade 15 inches. Complete with two chain pull sockets, 6 feet of silk covered lamp cord and attachment plug. **Incandescent lamps not included.**

Each

No. L2557AB—Antique bronze finish $27 90

No. L2557GA—Grecian antique finish 28 05

One in a carton; wt. each 22 lbs.

ELECTRIC FLOOR LAMPS

All of these lamps are 65 in. high, wired complete, have 2 light sockets, 8 ft. of parallel cord and attachment plug. BASES AND SHADES ARE INTERCHANGEABLE. Order any shade or base you desire and make up your own combination. We can supply shades in BLUE ROSE and MULBERRY. SPECIFY COLOR. Bases and shades are packed separately. Electric bulbs are not included with these lamps.

Brown Mahogany Finish Base—3 in. stock, hand turned, 2 in. silk shade with alternating plain and figured panels, stretched silk border, shirred top, American Beauty sateen lining, combination silk and tinsel braid around edging, 4 in. chenille fringe.

2C8090—Complete with shade
Each **$16.25**

2C8091—Shade only
Each, **$9.15**

2C8092—Base only
Each, **$7.10**

Mahogany Finish Base—4 in. base tapering to 3 in. at top, hand turned 20 in. shirred silk top shade with figured heart border panels, rose sateen lining, combination tinsel and silk braid around edges, 4 in. chenille fringe.

2C8093—Complete with shade.
Each, **$18.75**

2C8094—Shade only
Each, **$11.60**

2C8095—Base only.
Each **$8.15**

Mahogany Finish Base—Hand turned 6 in. stock, 20 in. shirred silk top shade, fancy figured and sunburst border panels, American Beauty sateen lined double row combination tinsel and braid, double row 4 in. silk fringe.

2C8096—Complete with shade
Each **$25.50**

2C8097—Shade only
Each, **$16.10**

2C8098—Base only
Each, **$9.40**

Mahogany Finish Fluted Base—26 in. shirred top silk shade, embroidered figured silk panel border, rose silk lining, combination tinsel and silk braid around edges, 5 in. double row two tone silk fringe.

2C8099—Complete with shade.
Each, **$34.50**

2C8010—Shade only
Each. **$19.50**

2C8011—Base only.
Each **$15.00**

Antique Polychrome Gold Finish Base—Hand turned and hand carved, adjustable cluster 26 in. shirred silk top shade suspended embroidered silk medallion border, trimmed with silk rosettes drum silk lined, fancy braid around edges, dead bronze finish fringe.

2C8012—Complete with shade and pull cords Each, **$37.50**

2C8078 – Complete with shade, without pull cords
Each, **$36.50**

2C8013—Shade only
Each, **$24.50**

2C8014—Base only, without pull cords..... Each, **$12.00**

Antique Polychrome Gold Finish Base—Hand turned and hand carved, adjustable cluster, 26 in. shirred georgette top over silk, fancy silk reeling trimming, drum silk lined, double row 6 in. silk fringe, 5 large chenille tassels, shielded by silk sets.

2C8015—Complete with shade.
Each, **$39.50**

2C8076—Complete with shade, without pull cord.
Each, **$38.50**

2C8016—Shade only
Each **$24.75**

2C8017—Base only, without pull cord. . . Each, **$13.75**

"FLEX-LIVE" ELECTRIC FLOOR LAMP

A very convenient lamp for reading and fine work. Adjusts to any angle. Bulbs are not included with this lamp

2C8086—69 in high Danish finish, adjustable gooseneck, heavy weighted base, wired complete, any socket, 5 ft. mercerized parallel cord, Hemlish swivel plug. 1 in crate, 20 lbs. ..... Each, **$4.50**

GAS MANTLES—Inverted & Upright

INVERTED GAS MANTLES

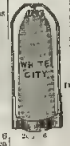
For all standard gas burners.

2C8686—"Usalyte," 6 cord mercerized Sea Island cotton, single weave, asbestos ring, soft and flexible, not damaged by handling before actually in use. In box 1 doz in carton Doz. **60c**

2C8723—"Silver Lite" 6 cord mantle thread, magnesia ring, double weave. 1 doz in display box Doz. **$1.30**

2C8642—"Spotlight," 6 cord cotton single weave, magnesia ring, non-shrinkable, parent cross-cut asbestos bottom 1 doz. in box Doz. **$1.80**

WHITE CITY GAS MANTLES



Upright Can—Standard QAP, 6 cord cotton, single weave, metal cap with brass bottom in sleeve, magnesia coated drawn wire supports.
2C8616 1 doz. in box Doz **$1.60**

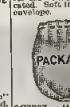
Inverted 6 cord cotton double weave, fit any burner, magnesia ring
2C8676—1 doz. in box Doz **$1.60**

2C8676

INVERTED MANTLES

For Gasoline Pressure Systems

For gravity, hollow wire pressure systems, or for use with gasoline and kerosene lamps as listed. Soft, inverted, with drawstrings. Each in envelope.



2C8707 "Packard," 4½ in., 6 cord cotton single weave, for hollow wire or central generator gasoline only 1 doz. in pkg Doz **65c**

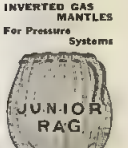
Bottom view showing the sewed and reinforced bottom of 2C8725

2C8725—(Mfrs. No. 41) Coleman "Junior" Rag Mantle, 4½ in. long constructed of No 30 Egyptian lisle fiber cotton finely knit to produce the proper slacking effect after burning off the cotton, nonshrinkable heat grade asbestos strands, 2 in. un 1 doz. in mantle en 1 doz. box Doz. **75c**
1 gro in counter display box
7 gro. lots Gro. **$6.60**
Gro. **$7.92**

2C8714—Block's "Lustro," 3½ in., 6 cord cotton single weave, sewed and reinforced bottom 1 doz in pkg . Doz **65c**

TWO BIG VALUES INVERTED GAS MANTLES

For Pressure Systems



2C8706—"Junior Rag," 2½ in., 6 cord cotton, single weave, for hollow wire and all other mantle and 2 mantle lamps and lanterns each in envelope 1 doz in pkg
Doz **.52**
Gro. **$5.50**

2C8714 "Interwoven" 2½ in 6 cord cotton interwoven bottom for all pressure systems 1 mantle table lamps and lanterns gasoline and kerosene each in envelope. 1 doz. in pkg
Doz **$0.96**
Gro. **10.50**

ELECTRIC MOTORS

The best models of the best manufacturer; every number is durably constructed, accurately tested, runs easily, and will give satisfactory service

T3481 (P52)—Two terminal motor for operating light running models; operated either on battery current or attached to transformer, height 2¾ high; 1 in box. Each 72

T3486 — Heavy cast base and modeled after the highest type motor; wound for battery use or for attaching to transformer; 4¾ in. high; 1 in box. Each 1.68

T3482 —Two terminals, pressed steel base, latest type tubular holders, copper gauze brushes; operates on battery current or attached to transformer; height 3¾ box Each 1.10

T3487 — Heavy cast black enameled iron base, 3¾x4 in., full nickel polished ... 160 ... 60 cycle operating on either direct or alternating current; furnished with ... foot cord and plug; height 3⅞ Each. 3.68

T3483—Same as T3372, but mounted on reverse switch base, permitting toys to run backward or forward; for battery current or transformer, ... high; 1 in box. Each 1.42

ELECTRIC THRILLER

T3495—Not only a practical musical toy, but one that all boys and girls appreciate; finished in bright colors; small parts nickel plated and polished; mounted on neat, strong wood base; size 4x2¾ ins. Each 1.45

T3484 (P58) — Made especially for operating erector and mechanical toy models; operates on battery current or attached to transformer; height 2¾ ins.; each in box Each 1.42

Our cloth, gauze and paper masks represent the most popular style sellers made; the majority of the numbers come assorted, giving you a fine variety for a small investment.

TRANSFORMERS

That embody all the latest improvements, they are designed to be connected to the ordinary alternating light circuit for reducing the current to operate all classes of electrical toys

T3462 — "Little Jeff," 40 watts, 60 cycle equipped with regulating switch and 2 binding posts, delivering 4 to 12 volts in 2 volt steps; finished in black enamel; complete with cord and plug, size 3x4x2¾ ins Each 2.25

T3464 ... 100 watts, 60 cycle, delivering from 1½ to 24 volts in 1½ volt steps, 6 per ... at voltages, ranging from 8 to 18 ... 3 volt ... finished in black enamel; complete with cord and plug; will also operate Christmas tree outfits up to sixteen 14 volt lamps; size 4½x4½x3½ ins. Each 4.00

T3463 "Midget;" 50 watts, 50 cycle; equipped with regulating switch, delivering from 1½ to 24 volts in 1½ volt steps; 3 permanent voltages, 6, 10 and 16, finished in black enamel; complete with cord and plug; size 3¾x3¾x3 ins. Each 2.75

T3465—Same, 150 watts, 60 cycle, equipped with regulating switch delivering 1½ to 30 volts in 1½ volt steps; 8 permanent voltages ranging in 3 volt steps; finished in black enamel; complete with cord and plug, size 5¾x5½x4¼ ins. Each 5.30

Our miniature cedar chests for dolly's clothes and fittings are exact duplicates of the large size chests; selected cedar

LIONEL "MULTIVOLT"

T3467 110 volt, 60 cycles, 75 watts; 17 ... ages, 2 permanent. ... able with rheostat, ... ranges for 2 to 25 volts in two volt steps; the rheostat regulates the ... age and enables you to run trains at different speeds; finished in black enamel; complete with ... foot cord and plug; ... 3.50

T3468 ... 60 ... 100 watts, 30 voltages 15 permanent ... able, with rheostat, ... age from 1½ to 24 ... volt steps; will not ... the trains but switches, lights, lamp posts, etc., can be ... always remains cool under any loads; finished in black enamel complete with 7 foot cord ... plug; size 3¼x4½x5 ins. ... 5.45

T3469 — 200 watts, 60 cycle; equipped with regulating switch; delivering 14 voltages, 10 permanent and 4 with rheostat; ranges from 2 to 19 in 2 volt steps with rheostat; complete with cord and plug; size 4x6¼x6½ ins. Each 8.25

DIRECT CURRENT REDUCER

T3470—Slate base 8x10x¾ in., supporting four porcelain tubes wound with best quality resistance wires, tubes are protected by perforated Russian iron cover lined with heavy asbestos; sliding lever regulates voltage, fast or slow; complete with 7 ft. cord and plug, *110 volts, and is for direct current use only.* Each in box. Each..7.50

ELECTRIC AEROPLANES

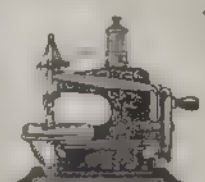
Built like the big machines, fine window attraction

T3477—Scout Plane model; monoplane type, with powerful little motor; operates on 2 to 4 dry cells or on reduced current; finished in khaki enamel, trimmed with red; red, white and blue rudder; spread of planes 12 in.; complete in box with counter balance, conducting wires, etc. Each..3.00

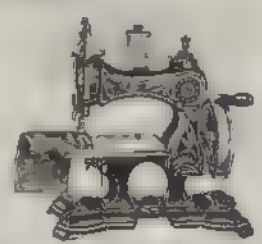
T3479—Bi plane; latest type; equipped with powerful aero motor, 8 in. aluminum propeller, and fitted with stream lined struts and steel stay wires; spread of planes 22 ins.; operates in 4 to 8 dry cells or reduced current; finished in khaki enamel red and gold trimmed; complete in box with counter balance, 30 ft. double connecting wire and instructions. Each. 9.00

SEWING MACHINES

Simple in construction; easy to operate; well built and nicely finished

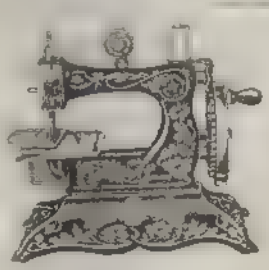


T5102 — A practical little sewing machine that sews smoothly; cast metal base and frame, black enameled floral stenciled in colors; nickel plated arms, wheel and sewing table; tension holder for thread, lever for raising foot and easy running shuttle; chain stitch; size 3½ x6½ ins., 7 ins. high; in box, complete. Each..... 1.00



T5104 ... cast metal base and arm, black ... gilt scroll decorate; has tension holder for thread, lever for raising and lowering foot; tension for regulating size of stitch; easy acting shuttle; nickel plated sewing table, heavy fly wheel nickeled; chain stitch; embodies all the principles of the large sewing machines; size 3¾x 7¾ ins., 8 ins. high; in box, complete. Each..... 2.50

T5103—Same as T5102, larger, size 4¼x7½ ins., 7 in. high; in box complete. Each..... 1.45



T5105—This is the finest small sewing machine made; has all the features of the large machines, and will do as good work; black japanned metal base and arm, floral decorated in colors and gold; automatic tension, drop, lever for regulating size of stitch, nickeled sewing table, heavy fly wheel making it easy running; chain stitch; size 5x8½ ins., 8 ins. high; in box, complete. Each..... 3.75

DOUBLE FRICTION TOYS

Strongly constructed of sheet steel, insuring durability; enameled and gold striped, packed one in box. Have no springs to get out of order, but are operated by cast iron, balanced fly wheel, which when set in motion transmits the power to the wheels by friction

T3408—Assorted 6 kinds, engine coal two autos, dock and boy on scale, finished in bright colors, length 8½ ins., width 3½ ins., 3½ ins. high; sorted in box. Each 2.25

T3506—Stutz Racer; nicely finished in bright, attractive colors, length 8¼ ins., width 3½ ins., 3½ ins. high; each in carton. Dozen 3.85

T3503—Dreadnaught; white enamel; red turrets, black cannon, gilt wheels; length, 10⅝ in.; width, 2⅛ in.; 4 in. high; each in carton. Dozen 4.15

T3505 — Delivery truck; enameled red, gilt trim; gilt wheels; high power and long running; length, 10⅛ in.; width, 3⅛ in.; 4⅛ in high; each in carton Dozen 4.15

T3524—Roadster; body finished in red enamel, trimmed in green and gold; runs forwards, backwards and in circle; length 11 in., 4½ in. wide, 4 in. high, each in carton Each 62

T3513—Truck body green enamel, trimmed in red and gold; runs forward or backward; length 13¼ ins., 4¼ in. wide, 6¼ in. high; each in carton Each .... .89

T3523—Street Car; body yellow, trimmed in red and gold; runs forward and backward; length 16 in., 4 in. wide, 5 in. high, each in carton. Each..... 89

T3507 Delivery Van; body orange trimmed in green and gold; length 12⅛ ins., width 4⅜ in., 6½ ins. high; each in carton. Each... .89

T3520—Chemical Truck; body red trimmed in green, gold striped; length 12⅜ ins., width 4⅜ in., 5 in. high; each in carton. Each .89

T3530—Touring Car; body red, trimmed in green and gold; runs forward, backward and in circle length 12½ in., 5¼ in. wide, 6 in high; each in carton. Each 1.00

T3529—Hook and Ladder; three steel ladders, which can be hoisted and lowered and having an extension of 26 ins.; body red, trimmed in green, gold striped; length 18 ins., width 4⅝ ins., 6⅛ ins. high, each in carton. Each.....1.00

T3541—Aeroplane; body yellow, trimmed in red and gold; runs either forward or backward; length 16 inches, width 9½ ins., 5 in high; each in carton. Each...1.00

FRICTION LOCOMOTIVES

T3504 — Locomotive and tender; red enameled, gilt trim, gilt wheels; length, 12 in.; width, 2¾ in.; 3¾ in. high, each in carton. Dozen 4.15

T3535—Engine and Tender: steel throughout; four track wheels, all being put in motion when double friction power is started; painted red and green, striped in gilt, gilt wheels; size, length 20 ins.; height 5½ inches; each in a carton Each 1.00

IRON PASSENGER TRAINS

Locomotives are cast iron, tenders and cars are stamped out of heavy gauge steel and embossed; handsomely finished in baked enamels in bright colors

T3552—5 in. black enameled locomotive, gilt trim, with tender, one 4 in. red enameled passenger coach and one 4 in. red enameled [illegible] total length 15 ins.; ½ dozen in box. Dozen.. 2.00

T3553 — 6½ in. black enameled, gilt trim locomotive and tender, one 6½ in. red enameled [illegible] 6½ in. red enameled observation car; total length 19 ins.; [illegible] 4.25

T3554—7 in. black enameled gilt trim locomotive and tender, one 7 in. [illegible] passenger coaches, and one 7 in. [illegible] total length 28 ins., [illegible] box. Each 75

ALL STEEL PASSENGER TRAINS

T2877—Sheet steel pull train; finished in yellow and red enamel and striped in gold bronze, length 33⅛ ins., width 2⅝ in., 4 in high; each in box. Each ..... .68

PULLMAN

T2879—Sheet steel pull car; finished in bright red and yellow enamels; length 24 ins., width 4 ins., height 8 ins.; each in carton. Each 1.10

TROLLEY CAR

T2580—Steel pull street car finished in bright red and yellow [illegible] length 24 ins., width 4 ins., height 8 ins., each in carton. Each 1.10

EXTRA LARGE LOCOMOTIVE AND TENDER

30 inches long, perfectly modeled, handsomely finished

T2878—All steel, can be pulled with [illegible] on [illegible] with steel [illegible] across the room; substantially [illegible], finished in red enamel and striped in gold; equipped with 10 double steel wheels and automatic bell; size 30 inches long; 8¼ inches high; 5 inches wide each in carton. Each 1.22

WEATHER HOUSE BAROMETERS

Will Prophesy Weather Changes 8 to 24 Hours in Advance

E384—House representing a forester's cottage, made of wood, finish black, green thatched roof, regulator on top; wood shaped painted figures; thermometer attached to front; labeled "Fair," "Changeable," "Rain"; if [illegible] figures appear look for fine [illegible] for bad [illegible] 5 ins. high, [illegible] Dozen ..1.25

E385—[illegible] E384, larger size 4½x [illegible] 7 in. high; 1 dozen in box 2.00

E366—[illegible] clock and natural [illegible] size 5½x3 ins., 8 ins. high; ⅛ dozen in box. Dozen 4.00

ELECTRIC SAD IRONS

UNIVERSAL TIP-UP MODEL

Hand wound heating element covers practically the entire surface of the sole plate and is made of best quality high chrome wire, with high grade mica insulation. Unit contacts are made by attaching the resistance wire to the leads by a ¼ inch contact secured by a bolt and nut, absolutely preventing burnouts at this point. The faces of the pressure and sole plate are ground perfectly true and securely clamped together with the heating element between. All air space is eliminated and the heat is distributed where most needed. Asbestos lined hood prevents heat radiation through the top of the iron. All irons have interchangeable elements and 7 point connection plugs.

No. E902. Tip-up model, full nickel plated finish, ebonized handles, attached heel rest. Consumes 580 watts. Complete with 6 feet flexible cord, attachment plug and heatproof stand. Made for 110 and 220 volts. Weight of iron 6 pounds.....each, **$8.50**

32 Volt. Weight of iron 6 pounds.....each, **9.50**

Extra Cords for Universal Iron .....each, **2.50**

One in a box

DOMESTIC

Heavily nickel plated and polished, making this one of the handsomest electric sadirons on the market. Made throughout of the highest quality of materials and after the most approved plans of construction. The heating element is so constructed that it retains the heat and continues serviceable for a long time after the current is turned off. The cord, which is equipped with plug, is readily detached from the iron or from the light socket.

Domestic. 110 volts. Weight of iron 6 pounds....each, **$7.50**

Extra Cords for Domestic Iron ..... .each, **1.25**

One in a box

DUO-POINT

Double pointed base, with two hot points instead of one as on regular irons. Gives even distribution of heat over the entire heating surface. Heating element made of the best materials and covered with heatproof hood. Large, comfortable wood handle, which is always cool. Iron is perfectly balanced, highly nickel plated and polished. Equipped with heater cord, switch plug, separable attachment plug and nickel plated stand.

Duo-Point. 110 volts. Weight of iron 6 pounds..each, **$8.50**

Extra Cords for Duo-Point Iron.....each, **2.50**

One in a box

ELECTRIC FANS

NON-OSCILLATING MODEL

Suitable for all services where the direction of breeze is fixed. Hinge joint permits the blades to be tilted to any angle of elevation and adapts the fan to desk or bracket mounting. Swivel makes it possible to turn the blades in any direction horizontally. Motor has three speeds, with shutoff, a good starting torque, and comes up to speed quickly. Starting switch located in the base. Each fan equipped with heavy wire guard and 8 feet new code reinforced cord with separable plug, attached to base of fan

8 Inch. For alternating or direct current. 110 volts ..... each, **$18.75**

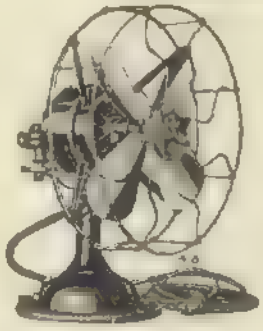
12 Inch. For alternating current. 110 volts... .each, [illegible]

***12 Inch.** For direct current. 110 or 220 volts . each, **31.90**

16 Inch. For alternating current. 110 volts,....each, **35.00**

***16 Inch.** For direct current. 110 or 220 volts....each, **37.50**

OSCILLATING MODEL



Suitable for all classes of service. When oscillating the fan will direct the breeze to every part of a large room. Can be adjusted to any desired elevation and can be used in either a desk or bracket position. Oscillating mechanism is positive in action, durable, and produces a slow, even motion. All gears and worms are carefully machined and adjusted. Does not require much power to operate and can be locked in three different oscillating positions for different degrees of angles or may be locked in a neutral position, which makes the fan stationary. Motor has three speeds with shutoff, a good starting torque and comes up to speed quickly. Starting switch located in the base. Each fan equipped with heavy wire guard and 8 feet new code reinforced cord with separable plug, attached to base of fan.

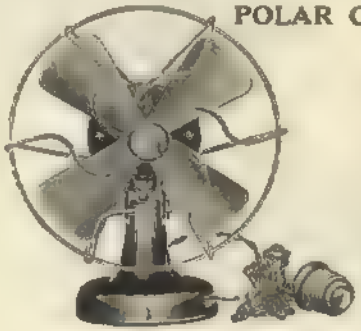
12 Inch. For alternating current. 110 volts.... each, **$38.10**

***12 Inch.** For direct current. 110 or 220 volts....each, **40.60**

16 Inch. For alternating current. 110 volts.....each, **43.75**

***16 Inch.** For direct current. 110 or 220 volts....each, **46.25**

POLAR CUB



Die cast frame, guard spot, two speeds and stop. Fan adjustable to any angle. Mica filled commutators. Motor nickel plated, base finished in rich velvet black, rustproof, black japanned blades. Will operate on either direct or alternating current 105 to 120 volts

Model D, 6 Inch Individual Fan

Model D. Height 8 inches to top of guard, 6 inches to top of motor. Diameter of blades 6 inches. Equipped with 8 feet cord and plug.....each, **$7.35**

Model 9, 9 Inch Room Fan

Model 9. Height 10½ inches to top of guard, 7½ inches to top of motor, diameter of blades 9 inches. Voltage 105 to 120. Equipped with 8 feet cord and plug. Construction and finish same as Model D ..... each, **$10.65**

Packed one fan in a protected carton

*Not carried in stock; will ship from factory

SEWING MACHINE MOTORS

Motor

Speed Control

Motor Attached to Machine

SEW-E-Z

Easy to attach and operate. No screws, bolts or belt is needed. The pulley of the motor is simply set against the hand wheel of the machine. Attach the plug to electric lamp socket and the motor is ready for sewing. Fast or slow speed. From a stitch at a time to 800 stitches per minute. The speed is regulated by a slight pressure of the foot on the speed control. Motor will operate on either alternating or direct current from 105 to 120 volts.

Sew-E-Z Motor, complete with speed control, cord and attachment plug.....each, **$22.50**

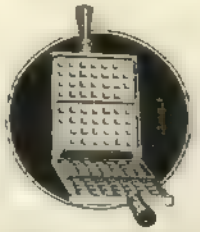
Note—Specially wound motors for any other voltage can be furnished at a slight additional charge

Fan Attachments

Consists of a fan blade, which is attached in place of the pulley, and a strong guard which protects the blade while it is in operation.

Each **$3.50**

ELECTRIC TABLE STOVES



Waffle Attachment

Frame is made of pressed steel and finished in polished nickel. All cooking vessels are made of aluminum, including a heavy griddle. Operates on direct or alternating current of any voltage between 105 and 125 volts. No special wiring required. Simply place it on the table, attach to any lamp socket, turn on the current. Heats instantly and consumes 600 watts.

Cooking vessels consist of a heavy griddle for frying, a deep vessel with a grid for broiling and an egg poacher with four egg cups.

Toasting is done in the wire drawer which is between the two heating elements, so that both sides of the toast are exposed to the intense glow of the heating elements. The deep vessel is used above the heating chamber for boiling, poaching, steaming, etc., and below the heat chamber for all cooking operations where the heat is applied from above such as broiling, etc.

Standard Electric Stove, complete with connection plug, cord and attachment plug.....each, **$15.00**

Waffle Attachment. Made of cast aluminum, with rubberized handles. Used between the heating element in place of the toaster drawer.....each, **5.00**

ELECTRIC VIBRATORS

HAMILTON BEACH

Made of the highest quality material. Each machine must pass a number of severe tests for electrical and mechanical efficiency before being shipped from the factory. Each outfit consists of the machine with seven feet of flexible cord, separable plug for connecting to the electric socket and six applicators of different styles. Full directions included with each model for the treatment of rheumatism, lumbago, headache, indigestion, deafness, throat troubles, scalp and facial massage, etc

Vibrators, unless otherwise ordered, are furnished wound for 110 to 120 volts, 25 to 60 cycles alternating current. Specially wound machines for 32 to 250 volts furnished at a slight additional charge. Machines for direct current supplied on request

Type D

Meets the demand for an efficient low priced machine for family use, and for the professional operator who calls on patrons in their homes. Operates on either A. C. or D. C. Light weight, die cast case. No speed regulator, but has starting switch in handle

Type D. Complete in leatherette case .....each, **$15.00**

Type A

A favorite for home use. Gives both rubbing and percussion strokes. Equipped with speed regulating switch. Finished in highly polished aluminum.

Type A. Complete in leatherette case .....each, **$18.50**

Type C

Heavy construction and with a powerful motor for professional use by physicians, barbers, masseurs and nurses. Its deep penetrating vibration makes it indispensable for cases requiring strong treatment.

Both rotary and percussion movements. Aluminum case.

Type C. Complete in leatherette case.....each, **$25.00**

TABLE LAMPS

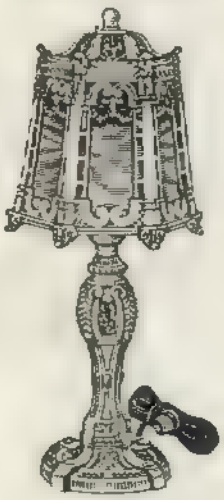
No. P6042E — Two light pull chain, with 19½ in. shade, eight upper and eight lower panels, two tone glass, upper amber, lower sunset, height 24 in., finished in gold and green, with 6 ft. of cord and plug, w't each 80 lbs. .....each $36.00

ONE IN A BOX

P6042½E — Lighted base, two pull chains in shade, diameter of shade 19½ in., eight upper and eight lower panels, two tone glass, upper amber, lower blue, height 24 in., finished in polychrome, with 6 ft. of cord and plug, w't each 80 lbs. ..each $32.00

ONE IN A BOX

BOUDOIR LAMPS



No. P215E—One light, key socket, 6 in. shade, in overlay, six panels in amber glass, height 16 in., finished in ivory and rose, with 6 ft. of cord and plug, w't each 25 lbs., each $12.00

ONE IN A BOX

P210E—One light, key socket, 7½ in. shade in overlay, four panels in sunset glass, height 17 in., finished in ivory and rose, with 6 ft. of cord and plug, w't each 25 lbs.

each $12.00

ONE IN A BOX

DINING-ROOM DOMES

No. P1037E—22 in., 8 panels with overlay at the bottom of panels and a ruby piece of glass between each section, depth of dome 13 in., length of fixture 36 in., making length over all 49 in., finish brush brass, 2-light electric key socket, w't packed approximately 60 lbs. ....each $26.60

ONE IN A BOX

No. P6018E—22 in., overlay scenic design, ten upper and ten lower panels, top panels amber, bottom blue to resemble water, depth of dome 14 in., length of fixture 36 in., making length over all 50 in., 2-light electric key socket, w't packed approximately 65 lbs. ....each $26.60

ONE IN A BOX

PORTABLE LAMPS

PORTABLE LAMPS

Parabolic shade, frosted inside, height 18 in., adjustable to any angle, 6 in. standard, complete with shade, key socket, 6 ft. cord and plug.

Each.

No. 1012E—Brush Brass $5.90
No. 1013E—Oxidized Copper. 6.40

ONE IN A CARTON, WT 7½ LBS.

DESK-FLEX LAMPS

The 11 in. flexible arm and 6½ in. swivel shade put the light where you want it.

The appropriate antique design of cast base used on this lamp is not only very attractive, but it will not collect dust and it holds the lamp firm so it will not tip over easily.

Complete with socket, 6 ft. of No. 18 mercerized covered parallel cord and Benjamin Attachment Plug.

No. 74E—Statuary Bronze finish, each $4.70
No. 174E—Verde Green finish, each $4.70
No. 274E—Egyptian Bronze finish .....each $4.70

ONE IN A CARTON

ASSORTMENTS

No. 370E—Assortment consists of:
¼ doz. No. 74E Lamps
¼ doz. No. 174E Lamps
½ doz. No. 274E Lamps
Per assortment of one dozen lamps $66.00

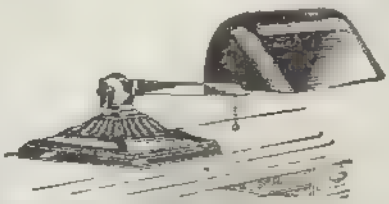
TWELVE IN A STANDARD PACKAGE, FOUR OF EACH FINISH

EMERALITE

The Emeralite Shade is made of a rich emerald green glass plated inside with a white opal glass and made the proper shape to give the most efficient distribution of light on the work, protecting the eyes from all glare and strain.

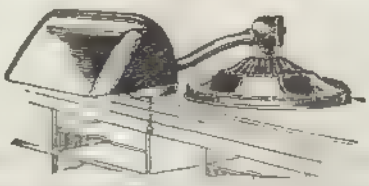
No. 658E—Emeralite Junior, satin finish brass. Has swivel joint for rotating shade vertical or horizontal. Base contains an adjustable clamp. Fasten lamp securely to any shelf or post not exceeding 2 in. in thickness, or fasten on nail or hook in wall. Complete with shade, pull socket, 6 ft. cord and plug .....each $11.35

ONE IN A CARTON, WT 4 LBS.



No. 652E—8734EG—Satin brass finish with black relief. Base 7 in. square. Arm and shade adjustable to any angle. For roll top desk or piano. Complete with shade, pull socket, 6 ft. cord and plug, each $22.70

ONE IN A CARTON, WT 11¾ LBS.



No. 651E—8734AC—Satin brass finish with black relief. Base 8 in. diameter. Arm and shade adjustable to any angle. For roll top desk or piano. Complete with shade, pull socket, 6 ft. cord and plug, each $21.15

ONE IN A CARTON, WT 11½ LBS.

EMERLITE

No. 653E—8734B—Base 7 in. square, height 17 in. to top of shade, each $22.70

No. 659E—8734K—Base 8 in. diam., height 18 in. to top of shade, each $22.70

ONE IN A CARTON, WT 11 LBS.

No. 654E—8734C—Double lamp, satin finish with black relief. Base 7 in. square, height to top of shade 18½ in. For double flat top desk or table. Complete with shade, pull socket, 6 ft. cord and plug, each $34.80

ONE IN A CARTON, WT 12 LBS.

PORTABLE LAMPS

PORTABLE LAMPS

Parabolic shade, frosted inside, height 18 in., adjustable to any angle, 6 in. standard, complete with shade, key socket, 6 ft. cord and plug.

Each.

No. 1012E—Brush Brass $5.90
No. 1013E—Oxidized Copper. 6.40

ONE IN A CARTON, WT 7½ LBS.

DESK-FLEX LAMPS

The 11 in. flexible arm and 6½ in. swivel shade put the light where you want it.

The appropriate antique design of cast base used on this lamp is not only very attractive, but it will not collect dust and it holds the lamp firm so it will not tip over easily.

Complete with socket, 6 ft. of No. 18 mercerized covered parallel cord and Benjamin Attachment Plug.

No. 74E—Statuary Bronze finish, each $4.70
No. 174E—Verde Green finish, each $4 70
No. 274E—Egyptian Bronze finish ....each $4.70

ONE IN A CARTON

ASSORTMENTS

No. 370E—Assortment consists of:
⅓ doz. No. 74E Lamps
⅓ doz. No. 174E Lamps
⅓ doz. No. 274E Lamps
Per assortment of one dozen lamps $66.00

TWELVE IN A STANDARD PACKAGE, FOUR OF EACH FINISH

EMERALITE

The Emeralite Shade is made of a rich emerald green glass plated inside with a white opal glass and made the proper shape to give the most efficient distribution of light on the work, protecting the eyes from all glare and strain.

No. 658E—Emeralite Junior, satin finish brass. Has swivel joint for rotating shade vertical or horizontal. Base contains an adjustable clamp. Fasten lamp securely to any shelf or post not exceeding 2 in. in thickness, or fasten on nail or hook in wall. Complete with shade, pull socket, 6 ft. cord and plug .....each $11.35

ONE IN A CARTON, WT 4 LBS.

No. 652E—8734EG—Satin brass finish with black relief. Base 7 in. square. Arm and shade adjustable to any angle. For roll top desk or piano. Complete with shade, pull socket, 6 ft. cord and plug, each $22.70

ONE IN A CARTON, WT 11¼ LBS.

No. 651E—8734AC—Satin brass finish with black relief. Base 8 in. diameter. Arm and shade adjustable to any angle. For roll top desk or piano. Complete with shade, pull socket, 6 ft. cord and plug, each $21.15

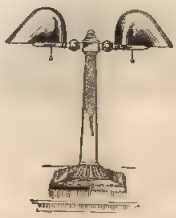
ONE IN A CARTON, WT 11½ LBS.

EMERLITE

No. 653E—8734B—Base 7 in. square, height 17 in. to top of shade, each $22.70

No. 659E—8734K—Base 8 in. diam., height 18 in. to top of shade, each $22.70

ONE IN A CARTON, WT 11 LBS.



No. 654E—8734C—Double lamp, satin finish with black relief. Base 7 in. square, height to top of shade 18¾ in. For double flat top desk or table. Complete with shade, pull socket, 6 ft. cord and plug, each $34 80

ONE IN A CARTON, WT 12 LBS.

TABLE LAMPS

No. P6042E — Two light pull chain, with 19½ in. shade, eight upper and eight lower panels, two tone glass, upper amber, lower sunset, height 24 in., finished in gold and green, with 6 ft. of cord and plug, w't each 80 lbs. .....each $36.00

ONE IN A BOX

P6042½E — Lighted base, two pull chains in shade, diameter of shade 19½ in., eight upper and eight lower panels, two tone glass, upper amber, lower blue, height 24 in., finished in polychrome, with 6 ft. of cord and plug, w't each 80 lbs. ..each $32.00

ONE IN A BOX

BOUDOIR LAMPS

No. P215E—One light, key socket, 6 in. shade, in overlay, six panels in amber glass, height 16 in., finished in ivory and rose, with 6 ft. of cord and plug, w't each 25 lbs., each $12.00

ONE IN A BOX

P210E—One light, key socket, 7½ in. shade in overlay, four panels in sunset glass, height 17 in., finished in ivory and rose, with 6 ft. of cord and plug, w't each 25 lbs. each $12.00

ONE IN A BOX

DINING-ROOM DOMES

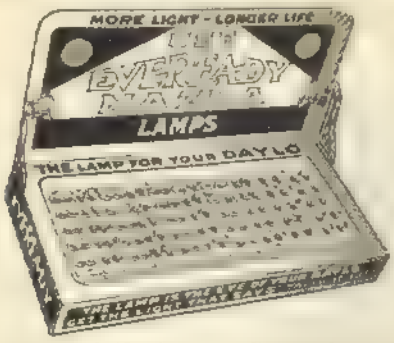
No. P1037E—22 in., 8 panels with overlay at the bottom of panels and a ruby piece of glass between each section, depth of dome 13 in., length of fixture 36 in., making length over all 49 in., finish brush brass, 2-light electric key socket, w't packed approximately 60 lbs. ....each $26 60

ONE IN A BOX

No. P6018E—22 in., overlay scenic design, ten upper and ten lower panels, top panels amber, bottom blue to resemble water, depth of dome 14 in., length of fixture 36 in., making length over all 50 in., 2-light electric key socket, w't packed approximately 65 lbs. ....each $26.60

ONE IN A BOX

EVEREADY DAYLO LAMP ASSORTMENTS



An assortment of 100 lamps, all popular sellers and in big demand. Put up in a neat display box that attracts attention and will add to sales.

Assortment complete $20.00

Description of Assortment

Stock No.	Purpose of Lamp	Quantity
1	2 cell N. P. vest pocket midget, metal, fountain pen	20
2	3 cell N. P. vest pocket	10
3	2 cell baby tubular	10
17	3 cell tubular	20
16	2 cell tubular	30
31	Dry cell lantern	10

DIETZ LANTERNS

No. 2 LARGE FOUNT D-LITE

Cold Blast

Bright tin, patent reinforced tubes, patent globe lift on inside of frame, large oil filler, patent locking short globe, extra large, double seamed, solderless dome shaped oil fount, Dietz patent security standing bail, patent brass eyelets, exposed wick.

Burns 150° kerosene

Volume of light 10 candle power.

No. 2 Large Fount D-Lite. Height over all 13¾ inches, fount capacity 40 hours, Little Star Loc-Nob white globe No. 272 Dietz patented safety wing lock, rising cone tinned steel burner, ½ inch wick, weight per half dozen 29 pounds ...per dozen, **$21.60**

One half dozen in a box

LITTLE WIZARD

Cold Blast

Bright tin, patent reinforced tubes, patent globe lift on inside of frame, large oil filler, patent locking short globe, double seamed solderless dome shaped oil fount, Dietz security standing bail, patent brass eyelets, exposed wick.

Burns 150° kerosene

Volume of light 6 candle power.

Little Wizard. Height over all 11½ inches, fount capacity 18 hours, Little Wizard Loc-Nob white globe, No. 211 Dietz patented safety wing lock, rising cone tinned steel burner, ⅝ inch wick, weight per dozen 34 pounds.....per dozen, **$15.90**

One dozen in a box

DIETZ LANTERNS

MONARCH

Hot Blast

Bright tin, round tubes reinforced by patented horizontal and vertical beads, patented positive locking globe lift, large oil filler, double seamed solderless dome shaped oil fount, Dietz security standing bail, patent brass eyelets.

Burns 150° kerosene.

Volume of light 4 candle power.

No. 0 Monarch. Height over all 13½ inches, fount capacity 18 hours, Dietz Fitzall white globe, No. 411 Dietz patented safety wing lock, cone tinned steel burner, ⅝ inch wick, weight per dozen 39 pounds, ...per dozen, **$12.70**

One dozen in a box

LITTLE STAR

Hot Blast

Bright tin, square tubes, patent positive locking globe lift, large oil filler, double seamed solderless dome shaped oil fount, Dietz security standing bail, patent brass eyelets.

Burns 150° kerosene.

Volume of light 3 candle power.

Little Star. Height over all 11 inches, fount capacity 12 hours, Little Star U[illegible] white globe, patented tinned steel burner, wing lock cone No. 411, ⅝ inch wick, weight per dozen 29 pounds.....per dozen, **$12.50**

One dozen in a box

ROADSTER WAGON

Cold Blast

Black enameled tin, patent reinforced tubes, patent globe lift on inside of frame, large oil filler, patent locking short globe, double seamed solderless dome shaped oil fount with safety oil well, Dietz security standing bail, patent brass eyelets. Made for use on left hand and has regulation 2¾ inch danger signal to rear.

Burns 150° kerosene

Volume of light 10 candle power.

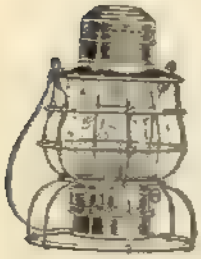
Roadster Wagon. Height over all 11½ inches, fount capacity 18 hours, Little Wizard globe, No. 211 Dietz patented safety wing lock, rising cone tinned steel burner, ⅝ inch wick, weight per dozen 52 pounds .....per dozen, **$24.90**

One dozen in a box

RAILROAD LANTERNS

VULCAN

For Kerosene



No. 39 Vulcan

Bright tin, strong wire frame, double guard, stamped fount and top.

The globe is removed through the frame by turning back the hinged top.

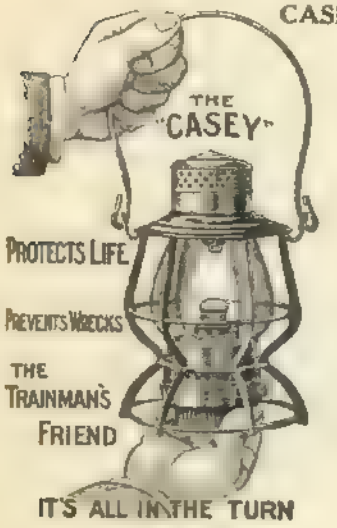
The wing lock burner is firmly attached to the fount by patent locking lugs. The fount fastens to the frame by a patented positive locking device, operated by a twist of the hand. Fount has a safety oil well.

For strength and long life, ease in cleaning, filling, lighting and regulating (outside wick raiser) and dependability in making signals they are unexcelled.

No. 39 Vulcan. Height over all 10 inches, fount capacity 24 hours, Vulcan No. 39 white globe, No. 1 wing lock convex burner, 1 inch wick, weight per dozen 49 pounds.....per dozen, **$23.15**

One dozen in a box

CASEY



Any signal can be given with it, without danger of extinguishing the light.

Light is always under control of operator without removing globe or oil cup.

When gloved or when numbed by cold, the complete hand can do easily with the Casey outside wick raiser what the finger and thumb find difficult in regulating the light in the old fashioned railroad lanterns. Weight per dozen about 50 pounds.

Casey R. R......per dozen, **$25.50**

One dozen in a box

ADLAKE

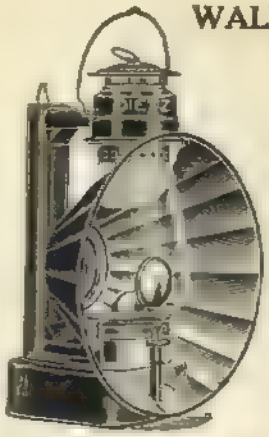
Wire guard, rigid bail lock, perfected ventilation, removable globe holder, encased oil pot, outside wick raiser, clear white globe, lard oil ratchet burner to take No. 1 5/8 inch wick or No. 2 1 inch wick as ordered.

No. 11. Adlake R. R. Per dozen.....**$30.00**

WALL LANTERNS

BEACON

Cold Blast



Finished in green enamel, large fluted reflectors, outside filler cap; the globe lifts clear of the burners to permit trimming and lighting. These are not intended for a portable lantern but are specially suitable for platforms, sheds, etc.

Burns 150° kerosene.

Volume of light 50 candle power.

No. 30. Height over all, 15¼ inches, count capacity 35 hours, Blizzard white bullseye globe, 1 inch wick, patented burner No. 262, weight per dozen 100 pounds .....per dozen, **$42.20**

One quarter dozen in a box

STREET AND PLATFORM LANTERNS

PIONEER

For Post or Bracket

Is made of heavy tin and gives a steady light double that of an ordinary gas street lamp at much less cost. May be filled, lighted and regulated without removing the globe. Has a self extinguishing device that may be set to burn for a certain number of hours.

Height over all 25½ inches, size of wick 1½ inches, fount capacity 24 hours; globe, Pioneer; burner, No. 313 patent tinned steel; size of socket opening 2⅞ inches.

Burns 150° kerosene

Volume of light 22 candle power.

No. 3 Pioneer Street and Platform Lanterns. Painted green, weight 27 pounds.....each, **$8.30**

One in a case

PIONEER

Hanging

Is made of heavy tin and has a stamped base and a substantial bail. May be filled, lighted and regulated without removing the globe and is self extinguishing.

Height over all 21½ inches, size of wick 1½ inches, fount capacity 24 hours; globe, Pioneer; burner, No. 313 patent tinned steel.

Burns 150° kerosene

Volume of light 22 candle power.

No. 1 Pioneer Hanging Lanterns. Painted green, weight 24 pounds. . . . . each, **$9.00**

One in a case

SAFETY RAZORS

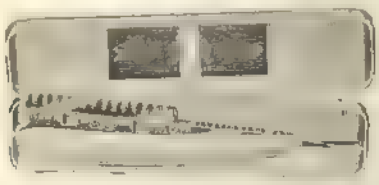
ENDERS' DOLLAR SAFETY RAZORS

Solid nickel silver frame, steel handle, nickel plated, length 4 inches with knurled center and seven blades of Norwegian cutlery steel, carefully ground and tempered.

Enders' safety razor, in hinged cover case and extra package of blades, weight 6 ounces. . . .each, **$1.00**

ENDERS' RAZOR BLADES

Enders' razor blades 5 blades in a sealed package, weight ½ ounce .....per package, **$0.35**



DURHAM DUPLEX SAFETY RAZORS

American ivory handle razor, with safety guard and three double edged hollow ground Durham Duplex blades. The case is made of highly polished American ivory, to match the razor handle. It is sanitary, durable and attractive, is easily carried in vest pocket or suit case.

No. 1 Durham Duplex. Weight 4 ounces.....each, **$1.00**

DURHAM DUPLEX RAZOR BLADES

Oil tempered, double edged, hollow ground

Durham Duplex Blades. 5 in a package, weight per package ½ ounce.....per package, **$0.50**

Twelve packages in a carton

SAFETY RAZORS

EVER-READY SAFETY RAZORS

The Ever-Ready is complete at $1.00, with the 10 year guaranteed frame, handle with blade stropper and 6 Ever-Ready blades, the best blades known to razor making. The entire outfit in a real case, solid construction, leather like covering, velvet lined with art name plate in cover and leather tan button lock.

Each razor separately boxed and the dozen attractively arranged in a display box.

Ever-Ready. 6 bladed dollar safety razor complete... .....each, **$1.00**

EVER-READY RAZOR BLADES

This display stand is metal, lithographed in six colors and gold. Size 11 x 14 inches. Holds 24 packages of six Ever-Ready blades.

Ever-Ready Stands with Blades. Each..... .....**$13.48**

One card in a box

Ever-Ready Blades. Set of 6..... .....**$0.40**

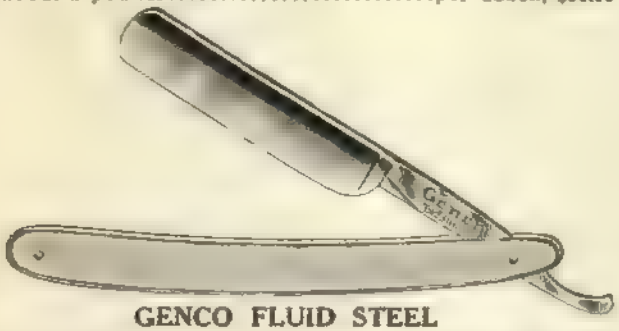
24 sets of 6 on a card

RAZORS

GENCO BULLDOG

Half concaved ground blade, round back, extra fine finish, specially attractive handle with flat sides

Bulldog. ⅝ inch, round point, weight per dozen about 2 pounds.....per dozen, **$50.00**



GENCO FLUID STEEL

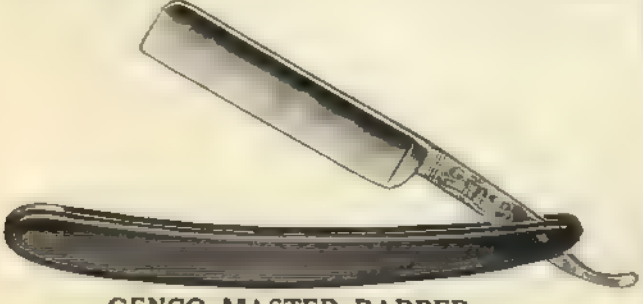
Full concaved blade with wide bevel, specially stiffened; fine polish, with back and tang finished dark gun metal; celluloid handle with flat sides

Fluid Steel. ⅝ inches, honed point, weight per dozen about 2 pounds . . . . . .per dozen, **$60.00**

GENCO MASTER CUTLER

Full concaved blade with wide bevel, handsome mirror finish with gold etching, back and tang crocus finish, black rubber handle with flat sides.

Master Cutler. ⅝ inch, round point, weight per dozen about 2 pounds.....per dozen, **$60.00**



GENCO MASTER BARBER

Full concaved blade with high thin bevel, extra fine polish with crocus finish back and tang, heavy black rubber handle with flat sides.

Master Barber. ½ inch, square point weight per dozen about 2 pounds.....per dozen, **$50.00**

One in a case, one half dozen in a box

RAZORS

GENCO EXPERT

Full concaved blade, double finished back and tang, permitting honing without defacing the finished appearance; imitation horn handle with flat sides

Expert. ½ inch, square point, 2¾ inch blade, weight per dozen about 2 pounds .....per dozen, **$60.00**

GENCO SENECA CHIEF

Full concaved blade, high class finish, crocus back and tang, imitation ivory handle with flat sides.

Seneca Chief. ⅝ inch, round point, weight per dozen about 2 pounds.....per dozen, **$50.00**

GENCO HENRY'S X

Concaved ground blade, finely polished, oval black rubber handle.

Henry's X. ⅝ inch, round point, weight per dozen about 2 pounds..... per dozen, **$32.00**

CRANBERRY

Full concaved blade forged from highest grade of razor steel, 135 points carbon tempered to a perfect degree of hardness, finely polished and etched; black rubber handle with flat sides

Cranberry. ⅝ inch, round point and barbers' point, weight per dozen about 2 pounds ..... per dozen, **$50.00**

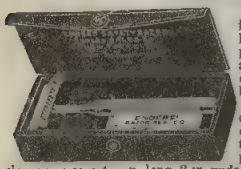
One in a case, one half dozen in a box

SAFETY RAZOR BLADES
FOR SEXTOBLADE SAFETY RAZORS

	Per Pkg.
No. 33B—Three blades in a package	$0 30

Twelve packages in a carton; weight per carton ½ lb. 67

SAFETY RAZORS
ENDERS



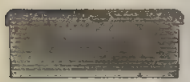
Solid nickel silver frame; steel handle with knurled center, nickel plated; lgth. 4ins. Blades are extra quality steel, carefully ground and highly tempered.

Complete with package of 5 blades, in a hinged case, covered with imitation leather, purple silk plush lined, with button clasp; size case 4 x 2 in. long, 2 in. wide and ⅞ in. high.

No.	12E
In lots of 1 to 3 dozen, Per Dozen	$24 00
In lots of 3 to 6 dozen, Per Dozen	22 50
In lots of 6 to 12 dozen, Per Dozen	21 60
In lots of 1 to 5 gross, Per Gross	252 00

One in a box; weight per dozen 2½ lbs.

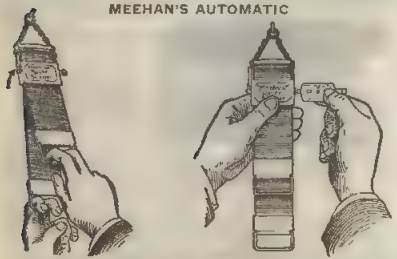
SAFETY RAZOR BLADES
FOR ENDERS SAFETY RAZORS



	Per Package of 5 blades
No. 5E	$0 69

Twenty packages in a carton.

SAFETY RAZOR STROPPERS
MEEHAN'S AUTOMATIC



Strops and sharpens John Primble, Durham Duplex, Gillette Military, Enders, O. V. B. and Keen Kutter, and in fact all wafer safety razor blades.

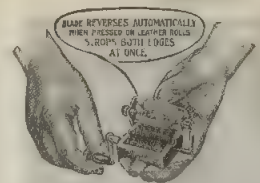
Strop made of black cotton webbing, especially woven for sharpening safety razor blades. All metal parts solid brass, nickel plated. Sharpens both sides at the same time.

Chain and ring hanger, removable metal hand holds on either end of strop, special holders for the different styles of blades with each strop.

	Each	Per Doz.
No. 1M—Length of strop 16 in.; width 2¼in.	$3 00	31 50

One in a cardboard box; weight per dozen 5½ lbs.

SAFETY RAZOR STROPPERS
DUBELEDGE



A small, compact, heavily nickel plated and easily operated stropper. The sharpening rollers are wound spirally with a strip of horse-hide, sharpening the blade with a diagonal stroke. Blade reverses automatically sharpening edges without removing the blade from the machine.

	Per Dozen
No. 4G—For Gillette blades	$49 50
No. 6DD—For Durham-Duplex blades	60 00
No. 5EG—For Ever Ready and Gem Junior blades	49 50

One in a cardboard box; wt. per dozen 4 lbs.

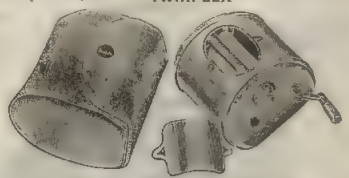
ZIG ZAG AUTOMATIC STROPPER

Stropper equipped for sharpening all standard safety razor blades. Highest grade of leather, suitable for this purpose, used. Metal handle, roughened grip. Cutting of strop impossible, as the slightest change of stroke reverses the blade holder. The curve in the strop gives a barber's stroke. Every stropper guaranteed.

	Per Doz.
No. 1ZZ—Length of strop, 14 in.	$49 50

One in a carton, half dozen in a display box; wt. per doz. 4 lbs.

TWINPLEX



FOR GILLETTE BLADES ONLY

Nickel plated case, 2¾x2¾x1⅛ in.; disappearing handle.

Quick and positive in action. Strops both edges at once, reverses itself and strops other side. The blade is easily inserted and released. The disappearing handle is a clever improvement which considerably reduces the size of the Twinplex.

Metal Nickel Plated Case, Satin Lined.

No.	G200
In less than 1 dozen lots, Each	$11 40
In 1 dozen lots, Each	10 80
In 2 dozen lots, Each	9 20

In Black Leatherette Case.

No.	G600
In less than 1 dozen lots, Each	$11 40
In 1 dozen lots, Each	10 80
In 2 dozen lots, Each	9 20

FOR DURHAM DUPLEX BLADES ONLY

In Black Leatherette Case.

No.	D650
In less than 1 dozen lots, Each	$11 40
In 1 dozen lots, Each	10 80
In 2 dozen lots, Each	9 20

Packed in a cardboard box; weight per dozen about 6 lbs.

SAFETY RAZORS

AUTOSTROP

Consists of silver plated Auto-Strop Safety razor; 12 blades; shell horsehide strop Put up in a neat and compact leather case, velvet lined. Size 1⅝x4½ inches.

	Each
No. 251—Embossed nickel plated case	$5 00 11 25
No. 252S—Embossed polished gun metal finish case	5 00 11 25

One in a cardboard box; weight each ¾ lb.

Consists of silver plated Auto-Strop Safety Razor; 12 blades; shell horsehide strop; rubber set shaving brush and stick of Colgate's shaving soap in silver plated push bottom tube. Put up in a neat and compact case, size 3½x4½ inches. Each

No. 15—Morocco grain black leather case, plush lined $7 50 16 89

One in a cardboard box; weight each 1 lb.

Consists of silver plated Auto-Strop Safety razor; 12 blades; shell horsehide strop; rubber set shaving brush and stick of Colgate's shaving soap in silver plated push bottom tube.

Put up in a neat compact case, size 3¾x5 inches. Each

No. 25—Morocco grain black leather case, plush lined $8 50 19 14

One in a cardboard box; weight each 1 lb.

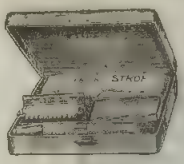
Set consists of gold plated Auto-Strop Safety razor; 12 blades; shell horsehide strop Put up in a neat compact case size 4x4 inches.

	Each
No. 350-G—Plain gold plated case	$5 00 11 25
No. 351-G—Embossed, gold plated case	5 00 11 25

One in a cardboard box; weight each ½ lb.

SAFETY RAZORS

AUTOSTROP

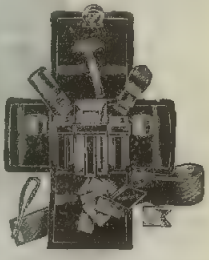


(Illustrating No. 350)

Consists of silver plated Auto Strop Safety razor; 12 blades; shell horsehide strop. Put up in a neat and compact case, size 4x4 inches.

	Each
No. 350—Plain nickel plated case	$5 50 12 36
No. 351—Embossed nickel plated case	5 50 12 36
No. 400 French ivory case	6 00 13 50

One in a cardboard box; weight each ½ lb.



Consists of silver plated Auto-Strop Safety razor in nickel plated case; 12 blades; shell horse-hide strop; rubber set shaving brush and Colgates soap in silver plated push bottom tubes.

Put up in a neat box shaped case. Each

No. 27—Morocco grain black leather case, leather lined $10 00 22 50

One in a cardboard box; weight each 1 lb.

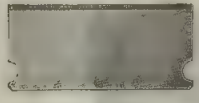
Consists of nickel plated "Auto-Strop" safety razor; 12 blades; shell horsehide strop; indestructible steel trench mirror. Put up in a neat and compact leather case. Size case folded 4x3½ inches.

	Each
	$5 00
No. 7—Black grain leather case	11 25
	5 00
No. 8—Tan leather case	11 25

One in a cardboard box; weight each ½ lb.

RAZOR BLADES

For Auto Strop Safety Razors.



	Per Package
No. 5A$—5 in a pkg.	$0 50 1 14
No. 10A$—10 in a pkg.	1 00 2 25

RAZOR STROPS

AUTOSTROP

Especially intended for stropping Autostrop razors.

	Per Dozen
No. 1A$—Made of best horse-hide	$6 00 13 50

One in a cardboard box.

E. A. WARNING SIGNALS

Warning Signals offer the widest selection of automobile warning signals, for in the many models will be found a horn adaptable to any style and size of car or truck.

Attractive design, strength of materials and reliable workmanship are the strongest features embodied in their construction, and every horn is carefully made and assembled under expert supervision. All parts are made interchangeable.

Are tested under conditions that will never be experienced while in service. The manufacturers absolutely guarantee materials, construction and workmanship.

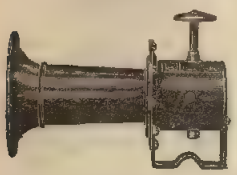
Furnished as regular equipment on a number of the standard automobiles and trucks.

Finish—"All Black" and are supplied in this manner unless otherwise specified.

Brackets—Equipped with brackets as illustrated.

Voltage—Wound for 6 volts, and supplied with wire and push button, ready for installation. Special voltage can be supplied at additional cost.

HAND OPERATED



Noted for simplicity of design and construction. With slight pressure on plunger, a strong and commanding warning note is produced.

No. T6055—Length 9½ in., diameter 5 in., w't each 3½ lbs. . .each $4.70
ONE IN A BOX

MOTOR DRIVEN

Under the Hood Type, the achievement of fifteen years' experience in the manufacture of the best warning signals that can be produced.

No. T6056—Length 10 in., diameter 5 in., w't each 4 lbs. . . . .each $8.00
ONE IN A BOX

Under the Hood Type. Extra large horn with a deep penetrating warning, easily heard for long distances.

No. T6058—Length 12 in., diameter 6 in., w't each 6½ lbs. . .each $14.70
ONE IN A BOX

MOTOR DRIVEN

FOR FORDS

Built special to fit all Ford cars equipped with 6 volt batteries.

Finished in black, equipped with brackets as illustrated, ready for installation.

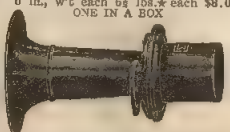
Not furnished with wiring. Wiring is already on Ford Cars.

No. T6057—Length 10 in., diameter 5 in., w't each 4 lbs. . . .each $8.00
ONE IN A BOX

Torpedo model for attachment to outside of the car.

Extra large horn with a deep penetrating warning, easily heard for long distances.

No. F6059—Length 11 in., diameter 6 in., w't each 6½ lbs.★ each $8.00
ONE IN A BOX

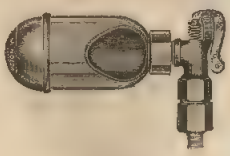


Large bell shaped model for attachment to outside of car.

Extra large horn with a deep penetrating warning, easily heard for long distances.

No. F6060—Length 12 in., diameter 6½ in., w't each 6½ lbs.★ each $8.00
ONE IN A BOX

BUELL EXPLOSION WHISTLES



No. 6070.

No. 6071.

A powerful, practical and perfect warning device, fits in priming cup opening, thereby getting the explosion direct instead of through the exhaust valves. It can be installed on practically all cars without any other parts. On engines not fitted with priming cups such as the Ford, a special spark plug with an opening on the side to accommodate the whistle is furnished

No. 6070—Single tone, whistle complete, ready for installation, w't, each 1 lb. . . . . .each $6.70

No. 6071—Chime tone, whistle complete, ready for installation, w't each 1 lb. . . . . .each $9.30

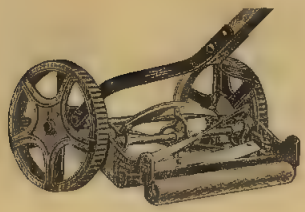
No. 6072—Special Spark Plug for use on engines not having priming cups, w't each 10 oz., extra, each $1.30

ONE SET IN A BOX

★ Items Marked Thus ★ Are Shipped from Factory Only.

F. & N. LAWN MOWERS

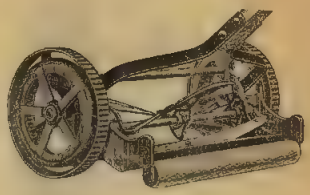
LAWN QUEEN BALL-BEARING



Full open type drive wheels, 9 inches in diameter. Reel 5½ in., four cutting knives, screw adjusting, very easy running. Finish, gold bronze, red decorations.

NO.	Size	Wgt. Each	EACH
12LQ	12 in.	28 lb.	$18 00
14LQ	14 in.	30 lb.	19 50
16LQ	16 in.	34 lb.	20.00

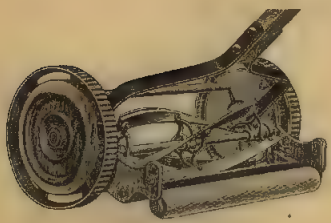
SIGNET PLAIN-BEARING



Open type, 8 in. drive wheels, four knives, finish silvered machine, green wheels and decorations

NO.	Size	Wgt. Each	EACH
12S	12 in.	31 lb.	$14.00
14S	14 in.	33 lb.	14.75
16S	16 in.	37 lb.	15 50

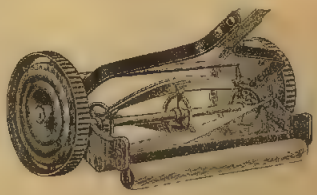
TUXEDO BALL-BEARING



A light weight, efficient ball bearing mower, with closed type drive wheels 8 inches in diam. Reel 5½ in., four revolving knives. Finish, aluminum and gold, blue decorations

NO	Size	Wgt. Each	EACH
12T	12 in.	30 lb.	$16 75
14T	14 in.	32 lb.	17.50
16T	16 in.	36 lb.	18 50

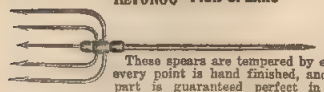
CLOVER LEAF PLAIN BEARING



A popular low priced mower of a new design. Closed type drive wheels 8 in., reel 6½ in. Three knives. Finish, green and gold bronze, green decorations

NO.	Size	Wgt. Each	EACH
12CL	12 in.	31 lb.	$12.75
14CL	14 in.	33 lb.	13.50
16CL	16 in.	37 lb.	14 25

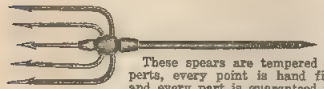
REVONOC FISH SPEARS



These spears are tempered by experts, every point is hand finished, and every part is guaranteed perfect in finish, workmanship and material.

A light spear, combining grace of lines with strength and unexcelled spearing qualities.

No. 27 REVONOC—Special crucible steel, hand forged, 5 prongs, entire length 15 in., length of needle tine 4 in., aluminum shank with threads, brass ferrule ...per dozen $22.50



These spears are tempered by experts, every point is hand finished, and every part is guaranteed perfect in finish, workmanship and material.

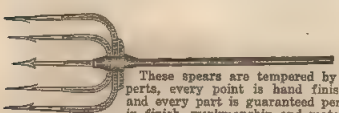
A very handsome spear, perfectly balanced and beautifully finished.

No. 22 REVONOC—Medium size, special crucible steel, hand forged, 5 prongs, entire length 15 in., width 4¼ in., length of needle point tine 4 in., aluminum finish shank with threads, brass ferrule .....per dozen $30.00

These spears are tempered by experts, every point is hand finished, and every part is guaranteed perfect in finish, workmanship and material.

An especially strong spear of medium weight. The aluminum shank, brass ferrule and polished tines making it very attractive.

No. 23 REVONOC—Medium size, special crucible steel, hand forged, 5 prongs, entire length 16 in., width 4¼ in., length of needle point tine 4 in., aluminum finish shank with socket, tines polished, brass ferrule....per dozen $32.40

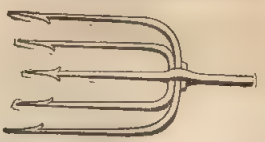


These spears are tempered by experts, every point is hand finished, and every part is guaranteed perfect in finish, workmanship and material.

This is a large, strong spear, designed especially for spearing pike, muskallnge and other big fish. The removable key permits replacing prong as desired.

No. 25 REVONOC—Special crucible steel, hand forged, 5 prongs, entire length 17 in., width 5 in., length of needle point tine 5 in., aluminum finish with key for replacing prong, brass ferrule .....,per dozen $36.00

FISH SPEARS



No. 1—Fairbanks hand-made fish spears, for holding qualities cannot be excelled. 5 tines. (Can be made into a three tine spear, if desired, by removing outside tines and putting in larger wedge.) Made of "black diamond" tool steel, barbs forged on solid tine, hammer pointed. Width about 4¼ in., length of tines about 6 in., length over all 21 in., w't about 1 lb. .....per dozen $36.00

No. 3—Tanged, steel, 5 prongs, 4 in., w't per doz. 3 lbs., per dozen $3 50

No. 10—Socket, malleable iron, 3 prongs, 3½ in., w't per doz. 3 lbs. $3.20

Socket, 5 Prongs.

No. 200—Malleable iron, 4 in., w't per doz. 3½ lbs., per dozen $9.00

No. 4—Steel, 4½ in., w't per doz. 6 lbs.....per dozen 12.00

No. 5—Steel, 5 in., w't per doz. 9 lbs.....per dozen 14.40

FROG SPEARS

No. 11—Socket, steel, 3 prongs, 2½ in., with vest pocket guard, w't per doz. 1½ lbs. .....per dozen $2.50

No. 2—Socket, teesl, 4 prongs, 3 in., with vest pocket guard w't per doz. 2½ lbs. .....per dozen $3.30

CLINCHER GAFFS

Will grip and hold any fish from ¼ to 20 lbs. A humane gaff. Quicker and surer than a landing net.

No. F16—Polished steel heavily nickel plated, length 18 in., per dozen★ $21.60

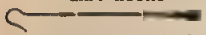
The center acts as a stop when opening and closing the gaff; also as a trigger for springing the gaff, and by coming in contact with the fish or frog, closes the jaws automatically and with lightning rapidity.

The gaff is provided with a socket, to which a handle may be fitted very easily. In most cases a common broom handle or short length of bamboo may be used for this purpose.

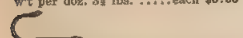
No. 20—Measures 8½ in. between the points of the jaws when open; suitable for landing large fish, per dozen $30.00

No. 21—Measures 5½ in. between the points of the jaws when open; suitable for smaller fish or frogs, per dozen $24.00

GAFF HOOKS



No. 15—Steel, nickel plated, three 7 in. sections which screw together, very strong and easily carried, can be carried in pocket or tackle box, w't per doz. 3½ lbs. .....each $0.80



No. 2—Harrimac, size of hook 7 in long, 2½ in. wide, made from the best spring steel wire, covered heavily with baked on black rubber enamel, jointed wood handle 4 ft long, in three partitioned cloth bag, each $3.40

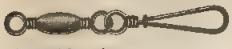
No. 4—Good Luck, size of hook 7 in. long, 2½ in wide, made from best spring steel wire, covered heavily with baked on black rubber enamel, handle 30 in. long, with scored grip and knob on end, in cloth bag, each $2.70

SWIVELS

Brass box.

No. 05—Sizes	6	5	4
Length, in.	1 1/16	¾	⅝
Per gross	$5.60	5.60	5.60
No. 05—Sizes	3	2	1
Length, in.	1	1⅛	1⅛
Per gross	$5.60	5.60	5.60
No. 05—Sizes	1-0	2-0	3-0
Length, in.	1⅜	1 9/10	1¾
Per gross	$5.60	5 60	5.60

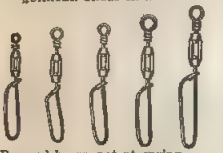
QUARTER GROSS IN A BOX



Blue watch spring.

No. 010—					
Sizes	6	5	4	3	2
Length, in.	1 1/16	¾	⅝	1	1⅛
Per gross	$7.90	7.90	7.90	7.90	7.90

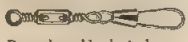
QUARTER GROSS IN A BOX



Bronzed brass, patent spring.

No. 015—Sizes	6	5	4
Length, in.	1 1/16	¾	⅝
Per gross	$7.20	7.20	7.20
No. 015—Sizes	3	2	
Length, in.	1	1¼	
Per gross	$7.20	7.20	

QUARTER GROSS IN A BOX



Brass box, blued steel snap.

No. 025—Sizes	2	3	4
Length, in.	2	1¾	1¾
Per gross	$10.00	10.00	10.00

SIZES 2 AND 3, HALF GROSS; SIZE 4 ONE GROSS IN A BOX

CONNECTING LINKS

Cuts three-fourths size.

Brass, nickel plated.

No. 020—Sizes	1	2	3
Per gross	$3.00	3.00	3.00

ONE GROSS IN A BOX

SWIVEL WEIGHTS

Convenient for quickly adding weight or making bait travel deeper in the water.

No. 026—				
No. of sinker	6	7	8	9
Per dozen	$3.20	3.20	3.20	3.20

No. 026—			
No. of sinker	10	11	12
Per dozen	$2.40	2.40	2.40

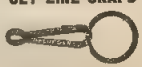
TWO DOZEN IN A PACKAGE

LINE SPREADERS

No. 3—Steel wire, nickel plated box swivel, spreads 18 in., per doz. $1.50

TWO DOZEN IN A BOX

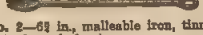
SET LINE SNAPS



No. 21—Brass snap and ring, per gross $3.00

ONE GROSS IN A BOX
QUARTER GROSS IN A BOX

FISH HOOK EXTRACTORS



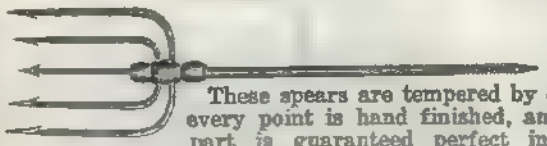
No. 2—6½ in., malleable iron, tinned, single end, for brass, per dozen $2.80

No. 1—7 in., brass, nickel plated, double end, for bass and trout. per dozen $4.00

ONE DOZEN IN A BOX

★ Items Marked Thus ★ Are Shipped From Factory Only.

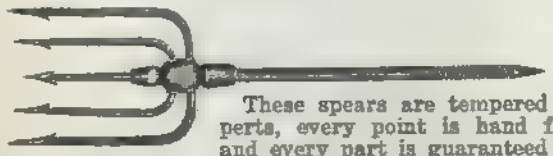
REVONOC FISH SPEARS



These spears are tempered by experts, every point is hand finished, and every part is guaranteed perfect in finish, workmanship and material.

A light spear, combining grace of lines with strength and unexcelled spearing qualities.

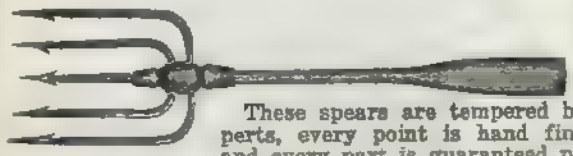
No. 27 REVONOC—Special crucible steel, hand forged, 5 prongs, entire length 15 in., length of needle tine 4 in., aluminum shank with threads, brass ferrule ...per dozen $22.50



These spears are tempered by experts, every point is hand finished, and every part is guaranteed perfect in finish, workmanship and material.

A very handsome spear, perfectly balanced and beautifully finished.

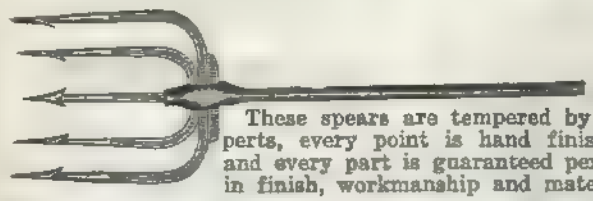
No. 22 REVONOC—Medium size, special crucible steel, hand forged, 5 prongs, entire length 15 in., width 4½ in., length of needle point tine 4 in., aluminum finish shank with threads, brass ferrule .....per dozen $30.00



These spears are tempered by experts, every point is hand finished, and every part is guaranteed perfect in finish, workmanship and material.

An especially strong spear of medium weight. The aluminum shank, brass ferrule and polished tines making it very attractive.

No. 23 REVONOC—Medium size, special crucible steel, hand forged, 5 prongs, entire length 16 in., width 4½ in., length of needle point tine 4 in., aluminum finish shank with socket, tines polished, brass ferrule....per dozen $32.40

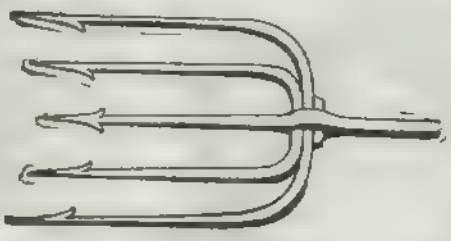


These spears are tempered by experts, every point is hand finished and every part is guaranteed perfect in finish, workmanship and material.

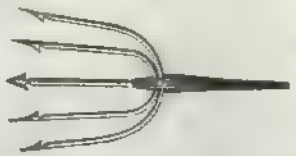
This is a large, strong spear, designed especially for spearing pike, muskallnge and other big fish. The removable key permits replacing prong as desired.

No. 25 REVONOC—Special crucible steel, hand forged, 5 prongs, entire length 17 in., width 5 in., length of needle point tine 5 in., aluminum finish with key for replacing prong, brass ferrule .....per dozen $36.00

FISH SPEARS



No. 1—Fairbanks hand-made fish spears, for holding qualities cannot be excelled. 5 tines. (Can be made into a three tine spear, if desired, by removing outside tines and putting in larger wedge.) Made of "black diamond" tool steel, barbs forged on solid tine, hammer pointed. Width about 4½ in., length of tines about 6 in., length over all 21 in., w't about 1 lb. .....per dozen $36.00



No. 3—Tanged, steel, 5 prongs, 4 in., w't per doz. 3 lbs., per dozen $8 50

No. 10—Socket, malleable iron, 3 prongs, 3½ in., w't per doz. 3 lbs. $6.20

Socket, 5 Prongs.

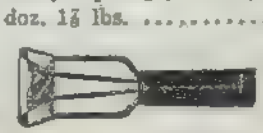
No. 200—Malleable iron, 4 in., w't per doz. 3½ lbs., per dozen $9 00

No. 4—Steel, 4½ in., w't per doz. 6 lbs.....per dozen 12.00

No. 5—Steel, 5 in., w't per doz. 9 lbs.....per dozen 14.40

FROG SPEARS

No. 11—Socket, steel, 3 prongs, 2½ in., with vest pocket guard, w't per doz. 1⅞ lbs. .....per dozen $2.50



No. 2—Socket, teesl, 4 prongs, 3 in., with vest pocket guard w't per doz. 2⅓ lbs. .....per dozen $3.30

SPIT DEVIL OR DEVIL ON WALK

One of the most popular sellers in the line.

Fire Torpedo, about 1 inch in diameter, packed one piece on solid ground and set on with side of foot for a magic display develops, flying around, accompanied by continued reports like platoon fire.

H189 1 in. in diameter, 1 gross in box (no less sold). Gross ..... .70
In 1 gross lots (case) Gross ..... .67

Larger 2 for 5c Size

H190—1½ in. in diameter; ½ gross in box (no less sold). Gross 1.80
In ½ gross lots Gross 1.70

Extra Large 5 Center

H191 2 in. in diameter, ¼ gross in box (no less sold). Gross 3.25
In 5 gross lots Gross 3.00

SAFETY CAP CANNON

H90—Cast iron cap cannon with heavy breech and strong spring securely mounted on wooden base; trigger to be released with string; shoots any size paper caps. Finely gilded, full length 5½ ins.; 1 doz. in a box. Dozen ..... .75

H91—Ammunition made expressly for the Safety Cap Cannon, 60 shots in carton. Per doz. cartons .38

Note—With each dozen cannon, 4 dozen cartons caps must be ordered

BINGO! OFF IT GOES!

Fools the Best of Them.

T2440—A new shooting trick which explodes a percussion cap with a loud bang when disturbed; made of metal throughout, and can be concealed in or under any article; cap goes off when article is opened or removed. 1 dozen in box. Dozen ..... .78

CHINESE PUNK

H17—Length 10 inches, 12 sticks in a bundle. 100 bundles in package. 100 bundles 1.85

ELECTRIC SPARKLERS

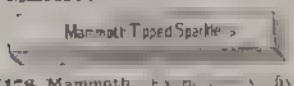
Extra heavy and brilliant stars. Our Sparklers are specially prepared of chemically treated aluminum and steel filings so that age or carrying over for a season will not deteriorate them. We guarantee them as long as kept in a dry place. Sparklers are mailable and do not prejudice your insurance.

LEADER AND GIANT SPARKLERS

H172—Leader—Ten 8 inch sparklers in box, 1 doz. boxes in carton; 120 cartons or 10 gross in case.
Gross boxes ..... .4.50 Dozen boxes ..... .30
In 10 gross lots (case). Gross. 3.35

H176—Giant—Ten 9 inch sparklers in box; 1 dozen boxes in carton, 60 cartons or 5 gross in case.
Gross boxes ..... .6.25 Dozen boxes ..... .55
In 5 gross lots (case). Gross. 5.65

MAMMOTH SPARKLERS



H178 Mammoth ..... 14 inch sparklers in box. ..... dozen boxes in carton.
Gross boxes ..... 8.75 Dozen ..... .78

GIANT SPARKLERS

H180—Giant. Twelve 24 in sparklers in box; 1 doz. boxes in carton. Gross pieces 3.60 Doz. pieces .30

36-INCH GIANT SPARKLERS

H181 36 ..... sparklers ..... heavy ..... 1 ..... stars; 1 dozen in box. Gross pieces..... 7.85 Dozen pieces..... .70

FIREWORK NOVELTIES

All the popular, penny, 5 and 10 cent items, big sellers and nice profit payers. All absolutely reliable and good merchandise

GRASSHOPPERS

Very amusing and always good sellers, jump around in a lively manner when ignited, safe and harmless.

H150 Grasshoppers, 1 gross in a carton. Gross 95

VESUVIUS FOUNTAINS

H198—4 in. high, 2¼ in. in diameter, assorted color paper covered; extra heavy fountain effect; 2 doz. in box.
Gross..... 4.00 Dozen..... .37

H199—Same, larger, 6 in. high, 2½ in. diameter; 2 dozen in box.
Gross..... 6.75 Dozen..... .65

H200—Same, larger, 7⅛ in. high, 2¾ in. diameter; 1 dozen in box
Gross ..... 9.75 Dozen.. .85

CHINESE FOUNTAINS

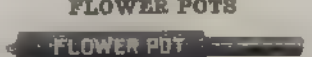
The most beautiful and spectacular 5 and 10 cent fountains made; showers of spangles, stars and sprays, combining to produce a really wonderful effect.

H297—11 inch with pointed stick. Dozen ..... .40

H298—13 inch with pointed stick. Dozen ..... .75

H299—15 inch with pointed stick, extra heavy. Dozen 1.90

FLOWER POTS



Brilliant gold fire and spangles with handles forming bouquet of flowers; 1 dozen in package.

6 in. with handles
Gross ..... 4.25 Dozen ..... .38

10 in. with handles.
Gross..... 7.60 Dozen..... .68

COLORED FIRE

H233—Lithographed iron shapes, box 9½ in. high, 2⅛ ins. in diameter, packed 1 doz. in a box assorted ..... green Doz 85

COLORED FIRE CRACKERS

Heavy paper case, red paper wrapped resembling large cannon cracker; when lit produces bright color fire

H238—3¼ in.; asst. red and green, 2 dozen in box Dozen 40

H239—6⅛ in. asst. red and green, 1 doz. in box Dozen 75

TABLEAU FIRE

Smokeless; for church, school and lodge entertainments

This is absolutely the best tableau fire made; does not smoke or throw off offensive fumes; burns bright red and lasts for a full minute; harmless.

H234—1 dozen in pkge. Doz. .70

BOA CONSTRICTORS

Made of a new composition that does not break; the only snake on the market that remains whole developing.

H145 ½ dozen ..... in carton Gross cartons 4.25 Doz cartons .38

H149 Same ..... Gross cartons 7.20 Doz cartons .65

NOVELTY SNAKE VOLCANO

Something New

H158—Round box 3 in. diameter, foil top; when lit imitation grass is evolved from which 3 large snakes crawl; 1 dozen in package Gross.... 4.80 Dozen 42

RED, GREEN AND SILVER SPRAYS

Beautiful color effects, burn slowly with profuse showers of bright colored stars.

H208—Red and silver sprays, length 8 in., 1 gross in box. Gross ..... .75

H207 — Green and silver sprays; length 8 in.; 1 gross in box Gross ..... .75

H206—Silver sprays; 1 gross in box. Gross ..... .75

H205—Assorted red and silver and green and silver sprays length 8 in., 1 gross in box. Gross..... .75

Put All Orders for Fireworks on Separate Order Sheet from Other Goods

RED AND GREEN TORCHES

For illuminations, carnival displays, and all kinds of parades

H218—1½ minute torch; red; 1 doz. in package. Dozen..... .40

H219—Same as H218; green. Dozen .40

H220—3-Minute Torch; red; 1 doz. in package. Dozen .80

H221—Same as No. H220, green. Dozen .80

H223—6 Minute Torch, red, 1 doz. in package 1.25

H223—Same as No. H222, green. Dozen 1.25

H224—10-Minute Torch; red; 1 dozen in package. Dozen. .1.95

H226—Same as No. H224; green. Dozen 1.95

H226—15 Minute torch, red, 1 doz. in pkge. Dozen 3.50

H227 Same as No. H226, green, 1 doz. in pkge. Dozen 3.50

H228—20 Minute torch; red, 1 doz. in package. Dozen.....4.50

H229—Same as No. H228, green. 1 doz. in pkge. Dozen 4.50

CRAZY CRACKER STICKS

The Novelty of Novelties

H188 5½ inch round stick with composition end; when lit, resembles the continuous explosion of fire crackers; 1 gross in box. Gross ..... .88

RAINBOW SPARKLER WHEEL

H168—5½ inch metal wheel finished in blended colors, stained wood handle, sparkler is inserted in center, wheel is rapidly revolved by thumb screw, producing bright color succession of sparks; length over all 16¾ ins.; ½ dozen in box. Dozen 2.00

ROMAN CANDLES AND SKY ROCKETS

GUARANTEED; carefully made with a view of producing the most satisfactory results and the most brilliant and dazzling effects.

BEACON CANDLES

GUARANTEED CANDLES

Large caliber and superior to the ordinary run of candles; containing the full number of stars designated, each candle discharges effectively brilliant variegated colored stars. Guaranteed by us

Three dozen in package — Gross

3 Ball	9.00
4 "	1 15
5 "	1 60
6 "	2 25
8 "	3.00

One dozen in package

	Gross	Doz
10 "	4 00	.38
12 "	5.40	.48
14 "	6.75	.65
16 "	8.50	.75
20 "	13.50	1 20
30 "	18.25	1.65

Don't overlook our exceptionally low priced china ware.

BEACON ROCKETS

Discharging combinations of variegated colored stars. All rockets from 3 ounce up have cones and fitted with short sticks, nicely packed in boxes, preventing breakage.

Doz in Bundle	Gross	Doz
2 oz. 1	2 00	20
3 oz. 2	3 00	30
4 oz. 2	4 35	40
½-lb. 1	9 00	85
¾ oz. 2	6 75	60
1 lb. 1	12 50	1 20
2 lb. 1 [illegible]		1 75
3 lb. 1 [illegible]		2 65
4 lb. 1 [illegible]		4 50

MINES

Beacon Colored Star Mines brilliant and variegated colors commencing with a successive display of colored stars with a loud report; strongly made well fused and exceptionally brilliant.

COLORED STAR MINES

These mines are all strongly made, well fused, and covered with fancy colored paper; the stars are exceptionally brilliant and explode with a loud report.

1—Height 6 in.; ½ dozen in pkg. Gross .5.00 Dozen .. .43

2—Height 7 in.; ½ dozen in pkg. Gross.....6.25 Dozen..... .55

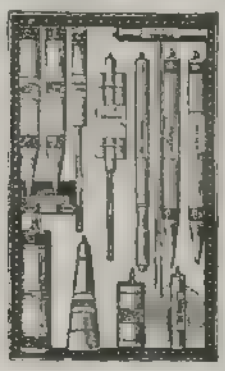
3—Height 8 in.; ½ dozen in pkg. Gross 8.25 Dozen . .75

4—Height 10 in.; wood base; ¼ dozen in pkge Gross....13.50 Dozen.....1.20

5—Height 12 in., wood base; ¼ dozen in pkg Gross....19.20 Dozen. . 1.75

FIREWORKS ASSORTMENTS

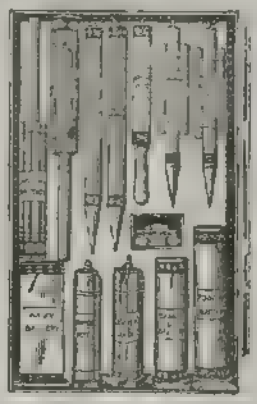
Can be sold by the piece or assortment at harmless novelties with lots of noise in daytime and pretty pieces at night



Packed in cartons of 36 pieces, assorted as follows:

6 pieces colored Shower Candles; 6 pieces select Flower Pots; 6 pieces Vesuvius Fountains, 6 pieces Jewel Italian Fountains; 6 pieces Floral Roses, and 6 pieces Spit Fire.

H156—3 doz. in box Gross 4.50 Dozen .40



Packed in cartons of 24 pieces, assorted as follows

4 pieces Illuminated Shower Candles; 4 pieces, medium Vesuvius Fountains; 4 pieces medium Flower Pots; 4 pieces Jeweled Fountains; 4 pieces Fancy Floral vases, and 4 pieces Colored Caskets.

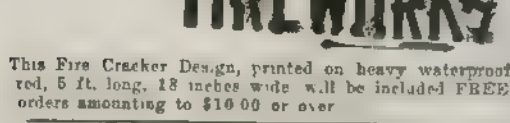
H157 2 doz. in carton Gross 8.50 Dozen 75

Packed in cartons of 24 pieces each assorted as follows

4 pieces extra brilliant large Flower Pots 3 pieces large Vesuvius Fountains, 6 pieces fancy colored Fire Fly Candles 3 pieces Italian Mines; 4 pieces Jewel Fountains and 4 pieces Sapphire Showers.

H158—2 dozen in box. Gross 12.00 Dozen.....1.10

FREE FIREWORKS SIGN



This Fire Cracker Design, printed on heavy waterproof paper in bright red, 5 ft. long, 18 inches wide will be included FREE in all Fireworks orders amounting to $10.00 or over

TRIANGLE AND VERTICAL WHEELS

A whirling combination of [illegible] of brilliant [illegible] of sparks

	Gross	Doz
1-oz.—1 doz. in pkge.	5.00	.43
2-oz.—1 doz. in pkge.	7.75	.72
3-oz.—1 doz. in pkge.	9.50	.85
4 oz. ½ doz. in pkge		1.05

WITH COLORED POTS

	Doz.
8 oz. 1/6 dozen in package	1.75
16-oz.—1/6 dozen in package.	2.00

DOUBLE TRIANGLE

Six heavy charged cases of brilliants, producing interchanging scintillations, rings and angles of fire, while in the center are [illegible] Brilliant [illegible] Packed single, Each 1.00

VERTICAL WHEELS

Produces azure flames and sparkling jets, with variegated color rings

	Doz
8 in.—½ doz. in pkge.....	2.15
10 in.—½ doz. in pkge	3.35

WITH COLORED POTS

12 in.—1/6 doz. in pkge	Each	.50
14 in.—1/6 " " "	Each	.65
16 in. 1/6 " " "	Each	.90

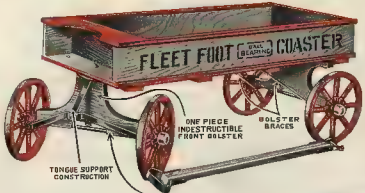
Put All Orders for Fireworks on Separate Order Sheet from Other Goods

FAMOUS MAKES

The cream of top-notch headliners in children's wheel goods—the kinds that sell because they're distinctive and right-priced

Famous "Fleet Foot" Coaster Wagons

Distributed Exclusively by Butler Brothers



Selected hardwood removable bodies with varnished natural finish, red trimmed wing with strong cleats across bottom of bed, heavy braces and 1" round bound axles fastened securely by eye bolts to heavy 2 pc bolster pressed steel fifth wheel, direct bolster braces, strong King bolt serial brake, steel B arch and wood handle.

6 Big Features of "Fleet Foot" Wagons

1. Only 3 bolts to place in setting up.
2. Bolster braces are direct also act as handle washers for wheels.
3. Improved axle construction, axles fastened securely to bolster by eye bolts.
4. Tongue support construction, tongue connects direct to front axles, metal to metal, eliminates creaking and strain, weakening and breaking of front axle bolster.
5. One piece indestructible front bolster, all destructive strain eliminated.
6. Cold rolled pressed steel fifth wheel.

IMPROVED AXLE CONSTRUCTION

F1230

WOOD SPOKE WHEELS PLAIN BEARING—50 in wheels, malleable iron hubs, welded tires of heavy steel stock.

F834—Body 26x14 in. wt. 30 lbs. Each, **$4.50**

WOOD SPOKE WHEELS, BALL-BEARING—Self contained reach 30 in wheels reinforced iron hubs, welded tires heavy steel stock.

			Each
F830—Body	32x10 in.	1 in carton	38 lbs.	$4.40
F831— "	36x16	1 "	40	5.00
F832— "	40x16	1 "	57	5.50

DISC WHEELS, BALL-BEARING—Self contained reach 30 in. rim, constructed disc wheels made on same principle as regular automobile disc wheels, reinforced, black enamel color.

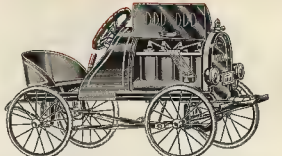
			Each
½ IN. STEEL TIRE—			
F1220—Body	32x16 in.	1 in carton	68 lbs.	$4.40
F1222— "	36x16 "	1 "	80 "	5.00
F1224— "	40x16 "	1 "	92 "	5.50
¾ IN. RUBBER TIRE—			
F1230—Body	32x16 in.	1 in carton	90 lbs.	$5.40
F1231 "	36x16 "	1 "	97 "	6.00
F1232— "	40x16 "	1 "	94 "	6.50

"Ball-Bearing" Velocipedes

"Sampson" maroon enameled, gold striped bar frame, ball-bearing wheels with maroon enameled wire spokes, ½ in. rubber tire, nickel plated hub caps and small guard on front wheel, nickel leather saddle with nickel plated clamp, and springs adjustable to feet, nickel handle bars with forward extension and rubber grips, nickel plated rat trap pedals, drop forged cranks and bicycle bolt. 1 in crate.

	Wheels	Size	Wt.	
F175—10 and 14 in.	2 to 3 yrs.	26 lbs.	Each,	$ 8.50
F176—9 " 24 in.	3 " 5 "	37 "		9.25
F177—24 " 30 in.	5 " 8 "	45 "		10.20

"American National" Autos



F1685—"Winton," 37x13 blue body, yellow striping, underslung front axle, continental steering wheel with hub, gear, sprocket and chain, instrument board, rear with operating levers and "STOP" signal, full panel, full elliptic rear springs, spare tire and wheel with 3 rubber tires on rear, full wire wheel, distributor, 15 in. rear, double spoke wheels, ½ in. rubber tires, nickel plated hub caps. 1 in crate. 90 lbs.

Each, **$10.95**

F1684—"Mercer," 37x13 red body, black gears, yellow striping, underslung front axle, sunspoke, oil steering wheel with hand grips, sprocket and chain, instrument board, rubber cloth seat, rear tire carrier, brass and rear light, gilt stripe, beaded fenders with running board, rear shell opening top, hood and "STOP" signal, bumper, nickel plated radiator, front license tag, 12 in. nickel bearing wood spoke wheels, yellow striping, ¾ in. rubber tires, nickel plated hub caps. 1 in crate. 72 lbs.

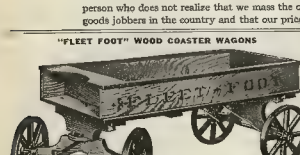
Each, **$12.95**

BUTLER BROTHERS, 495 and 497 BROADWAY, NEW YORK

WHEEL GOODS

The volume of our wheel goods purchases in a single year would stagger the imagination of any person who does not realize that we mass the orders of our five houses, that we are the biggest wheel goods jobbers in the country and that our prices are very much lower than the prevailing market.

"FLEET FOOT" WOOD COASTER WAGONS



Bolsterstaked exclusively by Butler Brothers. Selected hardwood bed or, natural varnish finish, red trim, 4 strong cleats across bottom of bed, best kiln dried lumber, bright red wheels, 3x1¼ tires reinforced with rivets, steel axles, improved malleable iron steering jaw, brass fifth wheel, 4 steel braces supporting bolsters, removable bed

"Fleet Foot Special"—Plain bearings, 2 in. wheels, wood hubs metal trimmed.

F88—Body 32x13 in. 2 in carton, 50 lbs. Each, **$2.75**

With Plain Bearings—12 in. wheels, malleable iron hubs improved construction, welded tires of heavy steel shrunk on metal brake

F89—Body 36x14 in. 1 in carton, 55 lbs. " **3.27**

F70— " 40x18 1 " 85 " " **4.68**

EXTRA 10 IN. WHEELS FOR COASTER WAGONS

Plain Bearing—Extra heavy, with iron hubs cross 2x2¼ in., bent rock elm, tires 3x⅝ wrought steel, welded and shrunk on, riveted, painted bright red F72, F88 and F84 and all coaster wagons with ⅝ in. axles

F24 1 n pkg Each, **38¢**

Ball-Bearing—Self contained ball, cannot be lost, spokes mortised into hubs, with iron hubs, cross 2x2¼ in., best rock elm, tires 3x⅝ wrought steel welded and shrunk on, riveted, painted bright red F72, F88 and F84 and all coaster wagons with ⅝ in. axles

F25—1 pr pkg Each, **58¢**

"OVERLAND" WOOD COASTER WAGONS

Clear white ash, natural finish, trimmed in red with black and green stenciling, removable box, black enameled steel gears, channel arch truss construction, wheels with heavy iron hub, kiln dried hardwood spokes, heavy welded steel pillows and tires, each wheel fitted with 11 cold rolled steel bearings, extra large malleable iron fifth wheel, 1¼ in. round steel axles firmly braced, bare, maple tongue which bends back to permit steering from box, malleable iron brake Each in sealed carton, gears and wheels laid in wagon box.

	Body	Wheels			Each
F88—(Mfrs. 0A),	12x28 in.	8 in.	1 in carton,	24 lbs	**$2.92**
F86—(" 1A),	14x32 "	8 "	1 " "	28 "	**4.69**
F36—(" 2A),	14x38 "	11 "	1 " "	33 "	**4.97**
F37—(" 3A),	16x39 "	11 "	1 " "	39 "	**5.63**

"OVERLAND" COASTER WAGONS
With Roller Bearing Rubber Tire Disc Wheels

Clear white ash, natural finish, trimmed in red with black and green stenciling, removable box, black enameled steel gears, channel arch truss construction, roller tired disc wheels, long distance axles.

						Each.
F135—(Mfrs. 10A)	Body	12x 28 in	8 in. disc wheels,	¾	in rubber tires	**$4.90**
F127—(" 11A),	"	14x32 "	8 "	"	" "	**5.78**
F128—(" 13A),	"	14x44 "	11 "	"	" "	**6.89**
F129—(" 13A)	"	16x36 "	11 "	"	" "	**7.00**

IMPROVED "FLEET FOOT" WOOD COASTER WAGONS
With Steel Ball-Bearing Disc Wheels

NOTE THESE 6 BIG FEATURES

1. Only 4 bolts in place in setting up.
2. Bolster braces are direct, also set in inside washers for wheels
3. Improved axle construction, axle fastened securely to bolster by eye bolts.
4. Unique support construction, tongue supported on heavy iron, metal to metal contact in fifth wheel and tongue, absolutely no wear of wood nuts bolster.
5. Eliminates all play and strain, tongue, bolster and body sets of wagon alike.
6. Cold roll pressed steel fifth wheel

Selected hardwood removable bodies, varnished natural finish red trim, strong cleats across bottom of bed 10 in. rear ball-bearing steel disc wheels, 1x3 in. reinforced tires, heavy bolts, extra fastened securely by eye bolts to 4 piece cold pressed steel fifth wheel, direct steering, long wheel base, 4 steel braces supporting bolsters. Wheels, ball-bearing, rubber tired, self contained ball-bearing cones. Each in fiberboard carton k d

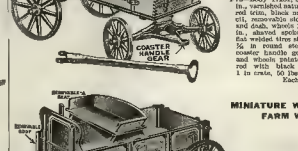
				Each.
F120—Body 32x16 in, wx 36 lbs				**$4.85**
F123— " 36x16 " " 42 "				**5.30**
F124— " 40x16 " " 46 "				**6.20**

"MARATHON" STEEL WAGONS

Beaded sheet steel bodies, securely riveted joints, grooved bottom boards, with wooden cleats, extra heavy indestructible fifth wheel, reinforced front and rear gears, handle stop, spoke pattern steel wheels, painted standard colors, red, green, blue, brown. 2 rear axle bolts through one piece from gear with extra broad head, square neck, hexagon nut. Bright black enameled finish hardwood tongues with steel reach, brass hub bands, gears and wheels striped. Each guaranteed to be free from defects in workmanship and material for one season. Packed all parts inside, in doubtproof cartons. Each guaranteed.

Mfrs.	Size of Body	Size of Wheels	In ship. Wt.	Doz.
F161—Or	7½x12½		56 doz. in carton, 24 lbs	$ 5.60
F103—24	9x18 in	8 and 9 in	½ " " 48 "	9.86
F105—26	11x26 "	8 " 10 "	⅝ " " 56 "	12.15
F107 - 1	13x26 "	10 " 13 "	¾ " " 68 "	18.62
F108—3	15x30 "	12 " 15 "	⅞ " " 80 "	23.40

F112—6 size assortment, one each with 7½x12½, 9x18, 11x26, 13x26 15x30 and 10x32 to bodies Assd 6 in crate 75 lbs. ASSY. 6 wagons, **$3.75**



"CASH AND CARRY" WOOD EXPRESS WAGON

F75—Body 17x34, depth 6¼ in., varnished natural wood red trim, black name stencil, removable side boards and dash, wheels 10 in. with 1¼ in. spokes, 1¼ in. flat welded tire shrunk on, ⅝ in round steel axles, coaster handle gear, body and wheels painted bright red with black stripes 1 in crate, 50 lbs. Each, **$2.98**

MINIATURE WOOD FARM WAGON

F87—Body 18x35 in hardwood frame, seat and dashboard, removable ornamented sides and ends, wheels 14 and 20 in. heavy welded tires malleable iron hub cores and bands, wrought iron seat bracket, ⅞ in round steel axles, 1 in. stout steel handle 1 in crate, 67 lbs. Each **$7.75**

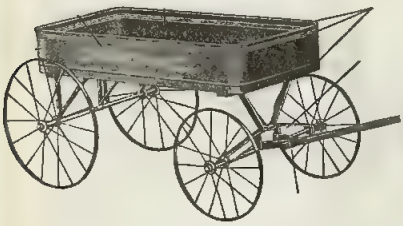
COASTER WAGONS

A famous department, famous for its ability to stand wear and tear. Famous for the low prices that flow from immense 5-house orders—prices that set the pace for all America.

"MARATHON" STEEL WAGONS

12 Big Features of "Marathon" Steel Wagons

1. **Body Size**—Larger than any others
2. **Rear Wheels**—Larger than front wheels and extra strong
3. **Indestructible Fifth Wheel**—Superior construction giving extra strength—cannot wear out and give trouble
4. **Handle Support**—Keeps handle off floor at pulling height.
5. **Front Gear**—Very strong, in one piece with extra tongue brace.
6. **Tongue Irons**—Made of extra heavy gauge steel
7. **Reinforced Wagon Box**—Reinforced in three places with heavy rolls and beading
8. **Bottom Boards**—Matched kiln dried lumber, tongued and grooved and glued.
9. **Wood Cleats**—Extra cleats reinforcing bottom boards
10. **Extra Brace**—Rear axle of all numbers except F101 and F103 has 3 steel braces.
11. **Body Finish**—Bright red enamel finish, with gold stencil outside, applied with air brush, green inside
12. **Natural Hardwood Handle**—With steel pin hand hold (except F101 which has strong twisted wire handle)



Beaded sheet steel bodies, securely riveted joints, gears and wheels bright black enameled finish. Packed two complete (except F101 and F103, all parts inside, in dustproof cartons. Each guaranteed

	Size of Body	Size of Wheels	In Pkg.	Weight	Doz.
F101—(Mfrs. 06).	7½x18½	.....	½ doz.	24 lbs.	$ 6.75
F103— " 04).	9 x18	6 and 9 in.	½ "	26 "	9.75
F105 " 02).	11 x23	8 " 10 "	½ "	16 "	12.45
F107— " 11.	13 x28	10 " 13 "	½ "	23 "	18.00
F109— " 30.	15 x30	12 " 16 "	½ "	35 "	22.50

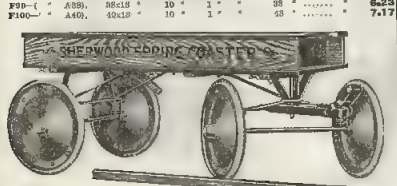
F112 3 size assortment, ranging in size from 7½x18½ to 16x36 in bodies. Asstd. 6 in crate ..... " " ASST. (6 wagons) $7.90

"SHERWOOD" SPRING COASTER WAGONS

Nationally advertised and known, becoming more popular every day. Easily set up, well assorted varnished white ash bodies, 3 piece split proof reinforced bottoms, red trimmed "Thumb screw removable sides and ends to form platform wagon, strong pressed steel frame, firmly riveted, substantial spring shock absorbers on each axle, convenient hand brake

With Spoke Wheels—Red enameled, riveted all steel "Y" spoke, self contained roller bearings in each hub.

	Body	Wheels		Weight	
F97 (Mfrs. A23).	32x15 in.	8 in.	1 in carton.	30 lbs	Each, $5.13
F98—(" A34).	34x14 "	10 "	1 " "	34 "	" 6.50
F99—(" A39).	38x18 "	10 "	1 " "	38 "	" 6.23
F100—(" A40).	40x18 "	10 "	1 " "	43 "	" 7.17



With Double Disc Wheels—Red enameled, double disc, friction proof, self-contained roller bearings, rubber tires, nickel plated hub caps.

	Body	Wheels	Tires	Weight	
F91—(Mfrs. C32)	32x14 in.	8 in.	⅝ in.	31 lbs. , ...	Each, $6.07
F92—(" C34).	34x14 "	10 "	⅝ "	36 "	" 6.80

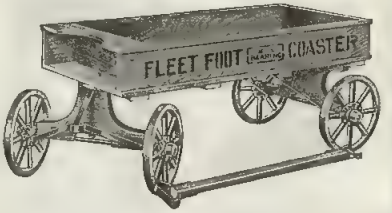
"FLEET FOOT" COASTER WAGONS

Distributed Exclusively by Butler Brothers

Selected hardwood removable bodies, well varnished natural finish, red trimmed wing nuts, strong cleats across bottom of bed, heavy braces and "Y" front bound, axles fastened securely by eye bolts to heavy 1 pc. bolster pressed steel fifth wheel, direct bolster braces, strong King bolt, metal brake, steel "D" grip and wood handle.

6 Big Features of "Fleet Foot" Wagons

1. Only 5 bolts to place in setting up.
2. Bolster braces are direct, also act as inside washers for wheels
3. Improved axle construction, axles fastened securely to bolster by eye bolts
4. Tongue support construction, tongue connects direct to front axles, metal to metal, eliminates dulling and creak, weakening and breaking of front axle bolster
5. One piece indestructible front bolster, all destructive strain eliminated
6. Cold rolled pressed steel fifth wheel.

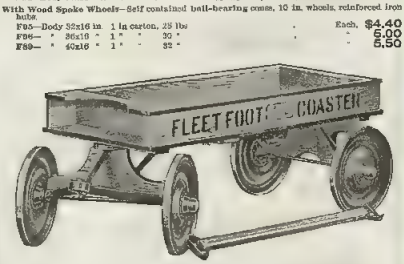


With Wood Spoke Wheels—Plain bearings, 10 in. wheels, malleable iron hubs, welded tires of heavy steel shrunk on

F84—Body 36x16 in., 1 in carton, 30 lbs. ..... Each, Out

With Wood Spoke Wheels—Self contained ball-bearing cones, 10 in. wheels, reinforced iron hubs

F95—Body 32x16 in	1 in carton,	28 lbs	.	Each,	$4.40
F96— " 36x16 "	1 "	30 "	.	"	6.00
F80— " 40x16 "	1 "	32 "	.	"	5.50



With Disc Wheels—Self contained ball-bearing cones 10 in. red enameled disc wheels made on same principle as practical automobile disc wheels, reinforced black enamel hubs

WITH ¾ IN. STEEL TIRE

F120—Body 32x10 in	1 in carton,	28 lbs		Each,	$4.40
F122— " 36x10 "	1 "	30 "		"	4.90
F124— " 40x10 "	1 "	32 "		"	5.50

WITH ¾ IN RUBBER TIRE—

F130—Body 32x10 in,	1 in carton,	30 lbs.....		Each,	$5.40
F131— " 36x16 "	1 "	32 "		"	6.00
F132— " 40x16 "	1 "	34 "		"	6.50

Extra 10 In. Wheels for "Fleet Foot" Coaster Wagons

F54 — Plain bearing, wood spoke wheels Each 55c | F55—Ball-bearing, wood spoke wheels Each 75c | F56—Ball-bearing disc wheels steel tire Each, 75c

MENGEL'S HAY WAGON

F87—19x11 in., ht. 12½ in., red enameled bottom sides and handle, 4 in. wheels, ivory stained removable slat sides. ½ doz. in container, 20 lbs .. Doz. $16.50

WHEEL GOODS

A famous department, famous for the wear and tear its wagons, velocipedes, autos, etc , can stand and still give service Famous for the low prices that flow from immense 5 house orders—prices that set the pace for all America

FAMOUS "FLEET FOOT" COASTER WAGONS

Distributed Exclusively by Butler Brothers

Selected hardwood reasonable bodies well varnished, natural finish, red trimmed wing rails 4 coat gloss varnish gear, selected hardwood bolsters, heavy bronze cast skein from board, also fastened securely by eye bolts in bolster, 36" diameter, 2-inch tread, direct bolster braces

POCKET KNIVES

FLY LOCK

Opened by pressing and sliding a button. Easily opened by one hand: do not break the fingernail; lock when open—lock when closed; will not open in the pocket. Blades of finest steel; expert workmanship.

Stag handle; two blades, spear and pen; brass lined.

NO.	Length	Wt. Doz.	DOZEN
1100	3⅛ in.	1½ lb.	$24.00

Rosewood handle; two blades, large spear and pen; brass lined.

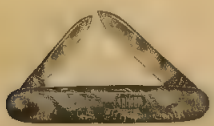
NO.	Length	Wt. Doz.	DOZEN
1101	3⅛ in.	1½ lb.	$24.00

Shell handle; two blades, large spear and pen; brass lined

NO.	Length	Wt. Doz.	DOZEN
1102	3⅛ in.	1½ lb.	$24.00

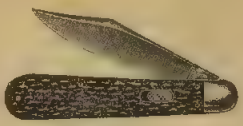
Two blades, large spear and pen; white handle.

NO.	Length	Wt. Doz.	DOZEN
1103	3⅛ in.	1½ lb	$30.00



Gold pearl handle; two blades, large spear and pen; brass lined.

NO.	Length	Wt. Doz.	DOZEN
1104	3⅛ in.	1½ lb.	$24.00



Stag handle; one large clip blade. Steel lined; nickel silver bolster.

NO.	Length	Wt. Doz.	DOZEN
11000	5 in.	2¾ lb.	$27.00

Large spear and pen; black handle.

NO.	Length	Wt. Doz.	DOZEN
1107	3⅛ in.	1½ lb.	$30.00

COMBINATION

Stag handle. Length over all 4⅛ inches. Nickel silver bolsters, brass lining, crucible steel blade, highly tempered. One large spear point blade. One each polished steel gouge, hoof cleaner, screw driver, combination pliers and wire cutters.

NO.	DOZEN
HHH	$30.00

ONE-HALF DOZEN IN A BOX

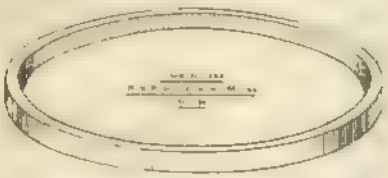
Pistons for Ford Cars

Illustration shows angle cut rings but our pistons are all equipped with step cut rings.

These are turned pistons made of the finest gray iron, accurate in every detail and exact duplicates of the new Ford stock type. Light weight and made to Ford's new specifications. Weight 2 lbs. 9 oz. Standard and all oversizes complete with step cut rings.

		Each
No 3020	3¾ x ¼	$2.80
No 3020A	Oversize .0025 in	2.80
No 3020B	Oversize .005 in.	2.80
No. 3020C	Oversize .010 in..	2.80
No 3020D	Oversize .025 in	2.80
No 3020E	Oversize .031 in	2.80

American Hammered Piston Rings



Individually cast and tested, of special grade close grained gray iron. Every ring is individually tested under the Brinnell system.

One Piece Rings

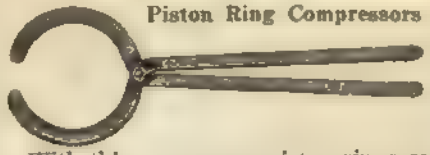
Easily installed and leakless, the American process of hammering assures a permanent and equal pressure against all points of the cylinder walls. Heat does not affect them, comes in a sealed moisture-proof container.

3¾ x ¼ in. Standard ... .each,	$0.75
Oversize .005 . ...each,	.75
Oversize .010 .. . ...each,	.75
Oversize .015 . . . . .each,	.75
Oversize .020 . ...each,	.75
Oversize .025 ... .each,	.75
Oversize .031 . . . .each,	.75
Per set of 12.....	$9.00

Piston Rings for Ford Cars

No.	Description	Each
3023	Standard	$0.15
3023A	.0025 in. oversize.	.15
3023B	.005 in. oversize.....	.15
3023C	.010 in. oversize.....	.15
3023D	.025 in. oversize.....	.15
3023E	.031 in. oversize.....	.15

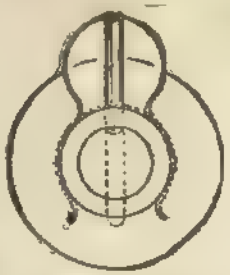
Piston Ring Compressors



With this compressor piston rings can be set in just a fraction of the time ordinarily consumed. A slight hand pressure on handles produces a leverage strong enough to compress even the new and stiff rings with very little effort. Finished in black enamel.

Each $0.65

Crank Ratchet Pins



On account of its unhandy location the crank ratchet pin on the Ford is replaced only with great difficulty. The Jiffy crank ratchet pin does not require riveting when in place, as the steel spring holds it firmly. It can be taken out or replaced in a moment.

Jiffy Crank Ratchet Pin, each.....$0.30

Milwaukee Timers

Accurately designed and assembled. All wearing parts are machine hardened, ground and polished, and fitted to the thousandth of an inch. The insulating ring, of finest Egyptian fibre, is carefully shrunk into place. Grooves are then machined out and the contacts carefully imbedded.

All operations are made with the greatest of care. Each part is tested for accuracy and fit. The finished timer is then tested electrically to determine its workmanship and ability.

Will fit all Ford cars up to and including 1921 models.

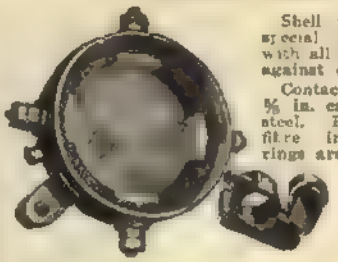
Milwaukee Timers . . each,	$2.10
Extra brushes .. . .each,	.75

Red Star Timers

The contact roller is made of case hardened steel and revolves on a case hardened steel sleeve. Both rollers are of case hardened metal. Timer shell is of stamped steel copper plated. For Ford cars, trucks and tractors.

Each $2.25

Goodrich Timers



Shell is made of special alloy metal with all parts treated against corrosion.

Contact roller is of ⅝ in. case hardened steel. High quality fibre inserts and rings are used.

Complete .....each..$2.00

J. & B. Timers

For all models of Ford cars. Is easily installed, as it is unnecessary to make any changes, due to the fact that it is made to fit in place where old timer is removed

Model T1 ... .each,	$1.65
Extra brushes . .. .each,	.50

Never-Fail Timer Units

NEVER-FAIL

A timer brush which operates successfully in pitted, worn shells. Gives constant contact—a fat, hot spark all the time. Doubles the life of a timer shell. All wearing parts of hardened steel. Fits any standard type shell.

Each $0.50

Ford Switch Keys

Fits coil switches on all models Ford car.

No. 5006 Each $0.05

K-W Ford Coil Units

This is the standard K-W Ford Coil Unit to fit in the regular metal coil boxes.

K-W Ford Coil Unit ....each, $2.75

Genuine K-W Contact Points

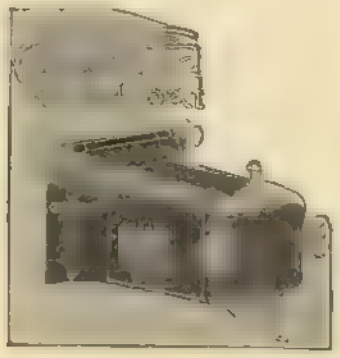
K-W Ford Coil Contact Points and Springs .....per pair, $0.35

K-W Sparkite Contact Points

Give a better spark at slow cranking speed, and a hotter spark at any speed. These points are of a new metal and are larger than the tungsten points.

K-W Sparkite Contact Points and Springs .....per pair, $0.50

Crawford Raincoats for Fords



An apron fastening underneath windshield and extending over hood to keep coil boxes from getting wet. Carried in place at all times ready to use, when not in use may be rolled up with long straps tucked in and held firmly by two snap buttons.

No. 510 Enamel drill $1.00

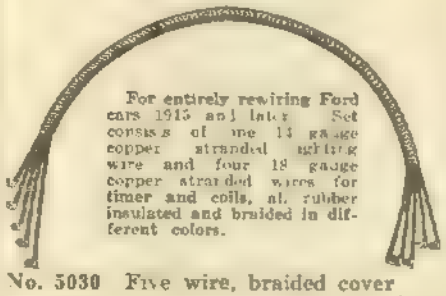
Six Wire Assemblies

This six wire assembly for Ford cars is made of No. 18 gauge copper wire covered with heavy cotton braiding and heavily insulated with the best rubber compound. Each wire has a different colored braid.

Assembly consists of six wires, to use on Ford cars with the self starter.

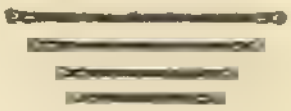
No. 5031 Six wire.....per set, $1.00

Five Wire Assemblies



No. 5030 Five wire, braided cover .....per set, $0.75

Spark Plug Wires



Made of high grade cable, complete with terminals ready for use.

Per set $0.50

Packed One Set in a Box

Goodrich Coil Locks

Goodrich Coil Locks are approved by underwriters for all types of Ford cars, including cars with self starter.

No. 302.....each, $8.00

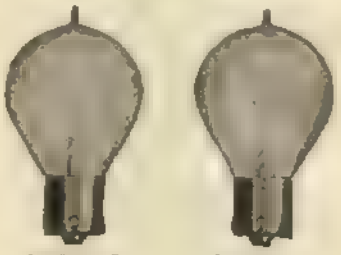
Goodrich Ford Yale Lock

This lock adapted for all T models of Ford cars, and differs from other Yale locks in that screws which fasten the lock are safely covered when car is at standstill.

Each $3.50

One in a Box

Mazda Lamps for Ford Cars



MAZDA C
S-11
Headlight
½ Size
MAZDA-1129

MAZDA B
S-11
Headlight
½ Size
MAZDA-1125

Mazda B for Headlights

Mazda No.	Base	Volts	C.P.	Bulb	Each
1136	D. C.	9	18	S-11	$0.50
1125	S. C.	6-8	15	S-11	.50

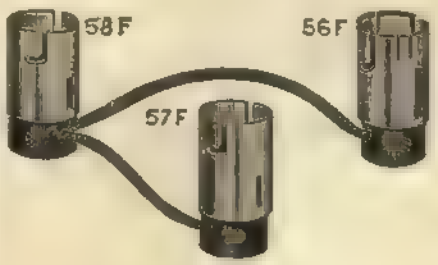
Mazda C for Headlights

1138	D. C.	9	27	S-11	.52
1129	S. C.	6-8	21	S-11	.52

Mazda B for Rear and Auxiliary Headlights

63	S. C.	6-8	2	G-6	.28

Headlight Assembly for Starter Equipped Ford Cars



Assembly, complete $1.35

No. 56F Socket for Head Light, S. C. ..... .30

No. 57F Socket for Dimmer Light, S. C. ..... .30

No. 58F Socket for plug combination, D. C..... .30

Ford Headlight Sockets

Made especially for use on Ford cars. Connections at both ends.

No. 451 D. C. .....each, $0.30

Capped Plugs

The Capped Plug is constructed of hard rubber with a screw cap and is a most desirable fitting where appearance is wanted.

No. 32C Capped plug, single or double contact ....each, $0.25

Elbow Plugs

This elbow plug is the same type of plug furnished as standard equipment on the new Ford headlights. It is made in double contact only. Has set screw terminals so that the wires may be attached without soldering.

Elbow Plugs .....each, $0.35

Lighting Switches

Type N one gang. Primarily for lighting, as pulling out the button closes an individual circuit and pushing it in opens the circuit.

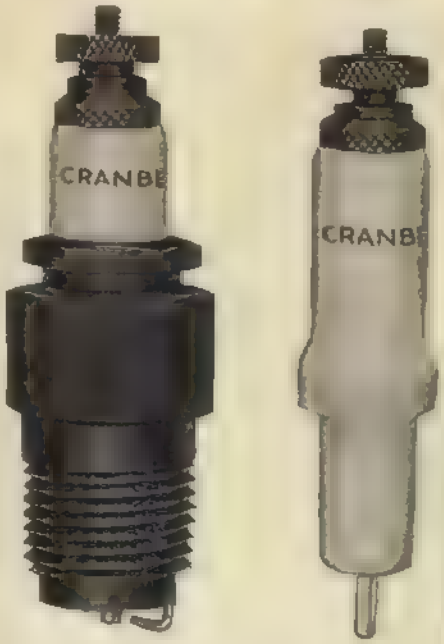
No. 0410 Black .....each, $0.35

Bethlehem Ford Special Spark Plugs

Has long body necessary for use on Ford cars. Can be used on any car using ⅛ in. plug.

	Each
⅛ in. Ford Special	$0.75
Extra cores	.40

Cranberry Spark Plugs and Porcelains



Cranberry Plugs are designed especially for use in Ford motors.

The cores are extra large in diameter, giving greater strength and are less liable to break.

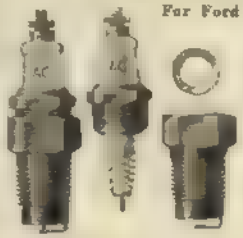
They are separate and cleanable and perfectly insulated.

They are guaranteed to work perfectly in Ford motors or will be replaced at our option.

	Each
Cranberry Ford Special Plug	$1.00
Cranberry Extra Porcelain	.35

AC Two-Piece Spark Plugs

For Ford Cars



A carbon proof, two-piece spark plug with a quarter inch extension that brings the electrodes to their proper location.

Ford Special.....each, $1.25
Extra porcelains with bushings.....each, .75

AC Carbon Proof Spark Plugs

For Ford Cars

The carbon proof porcelain is provided with a number of ribs having saw tooth edges which attain a sufficient high degree of heat to burn away the carbon, thereby keeping the edges free from deposits and breaking up any possible short circuit.

No. 12CPT.. .....each, $1.00

Splitdorf Spark Plugs

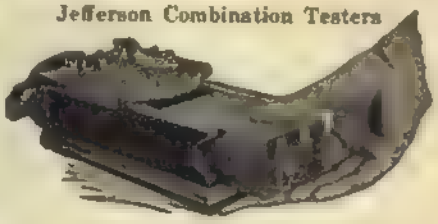
½ Inch Ford

The Plug with the Green Jacket. Imported mica of the highest grade known is used exclusively as insulation, and this enables them to withstand the breaking down effects of high-tension current.

Is the same as the Regular ½ inch, but has a longer body.

½ inch. .....each, $1.25

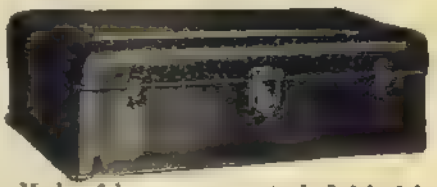
Jefferson Combination Testers



Tests the Ford coil unit under alternating current. Can also be used for testing automobile lamps and spark plugs. Equipped with extension cord and operates on any 100 to 120 volt A. C. lighting circuit.

No. 28 Tester complete.....$11.00

Tool Boxes for Ford Cars



Made of heavy gauge steel, finished in black japan, it has a lock and two suitcase catches. It is long enough to hold a pump and is a very desirable size.

No. 622 22x9x7¼ in.....each, $2.90

One in a Box

Long Life Battery Boxes for Fords

For all models of Ford cars that carry a battery. Fits outside the cradle in which battery is suspended, enveloping the cradle in such a way that it will take care of any irregularities of Ford apparatus. Allows approximately ¾ inch air space on all sides for proper ventilation, which is essential to the life of any battery of this type.

Terminal openings are so arranged that any make of battery can be used. Attaches to the Ford cradle in such a way that it can not be lost. The adaptability and ease in installation are big factors in its favor.

Constructed of heavy sheet steel, 20 gauge; nicely enameled and baked to withstand not only the battery acid, but also all weather conditions, mud, ice and road slush which splash upon it. The Ford battery thus protected maintains greater efficiency and will double or triple the life of the battery.

Each $3.50

Four in a Carton

Electric Head Lamps
Suitable for 1915-1920 Ford Cars

This lamp is adapted to recent models of Ford cars by the special one bracket support. It has a fixed reflector and is focused from the outside. The cord is attached before the parabola shaped and highly polished reflector is inserted, making it dust and rattle proof. Two coats of enamel are baked on the lamp body, which is drawn from a single piece of sheet steel. The bulbs are 15 c. p. Mazdas for 9 volt circuit. Furnished with double wiring only. Has 9 inch round door. Length 13 in.

No. 325 Black .....per pair, $7.50
No. 325BX For new model cars, with double bulb.....per pair, 8.00

Gas Head Lamps
Suitable for Ford Cars

This lamp is substantial in appearance and was designed for the smaller car and light truck. Has a strong penetrating light. Body is drawn from one piece of alloy coated steel with all parts solidly riveted and then given two coats of baked on enamel. Has bezel type reflector attached to door.

Diameter of door, in..... 7⅜
Diameter of glass, in..... 6¼
Distance between props, in..... 7
Weight per pair, lbs..... 8⅝
No. 400 Gas Head Lamps..per pair, $8.00

One Pair in a Carton

Headlight Doors

Frame and lens . . . . each, $0.80

Headlight Reflectors

No. 6585X Headlight reflector only .....each, $1.20

Electric Head Lamps
Suitable for Ford Cars Prior to 1915

Has a fixed reflector, of the type approved by the Society of Automobile Engineers, and can be focused from the outside The parabola shaped reflector is inserted with cord attached, so the lamp is dust and rattle proof. It has a hexagon push button type door. The body is drawn from a single piece of steel and two coats of enamel are baked on. The bulbs are 15 c. p. Mazdas, which operate on a 9 volt circuit. It is furnished with double wiring only. Finished in all black or black and nickel.

No. 600 Diameter of door 9 in., distance between props 7 in..... per pair, $6.50

Round Oil Side Lamps

The body is drawn from a single piece of sheet steel and there is no solder of any sort used, especially adapted to light cars.

No. 440...pair, $4.75

Round Oil Tail Lamps

Diameter of door 4¾ in., height 9¼ in.

No. 441

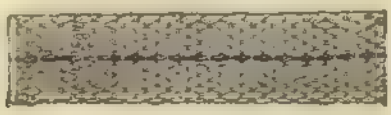
For late model Ford cars; furnished with a special bolt fastener.

Each $2.50

Flat Headlight Glasses

Ford size. .. ..each, $....
Ford size . .....per doz., ...

Lamp Wicks



Made of best quality hard woven cotton fibre, producing a steady flame.

Size, ⅝x7 in.....per gross, $2.20

One Gross in a Carton

Electric Tail Lamps

For 1915 to 1921 Fords. Fastening for lamp is a special bolt and nut to permit its being attached to the oil lamp bracket. Removable lens. Plug with cap. 2 c. p. Mazda bulb. Double contact regularly furnished. Diam. of front 3¼ in., of glass, 3 in

No. 49J.....each, $1.10

Oil Fonts and Burners

For replacing old or damaged fonts and burners in Ford side and tail lamps

No. 6599X Fonts only .....each, $0.60
No. 6460X Burners and wick.each, .30

Dash Lamps

Designed especially for Ford cars. It is furnished with a self-contained switch and a 2 C.P. bulb.

Style J Lamp ....each, $1.00

Every-Day Sellers for Ford Cars

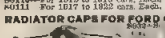
CROWN FENDERS FOR FORD CARS

Made of heavy No. 20 gauge steel, finished with 2 coats of black enamel, baked on. Packed 2 set in crate (2 front, 2 rear), providing dampen in transit.
80160—For pleasure car, 1914 to 1916. Set of 4, $10.50
80178—For pleasure cars, 1917 to 1923. Set of 4, $10.50

HONEYCOMB RADIATORS FOR FORD CARS

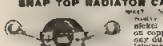
All brass finished with 2 heavy coats of [illegible] which burns enamel fitted with honeycomb [illegible] closely than regular type. Guaranteed against freezing of overheating.
80110—For 1915 to 1916 cars. Each, $13.50
80111—For 1917 to 1923 cars. Each, 13.50

RADIATOR CAPS FOR FORD CARS



[illegible] and polished. Each in carton, $3 50

SNAP TOP RADIATOR CAP



[illegible] nickel plated on copper shell [illegible] trimmed. Each 75c

COMBINATION RADIATOR, HOOD AND SHIELD

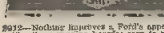
This combination made to convert the 1915 and 1916 Ford cars into the latest model. It gives the Ford car a custom line effect so much desired. The front shield also improves the entire appearance.
80115—Outfit includes Peerless honeycomb radiator, front shield and straight one hood with all fasten[illegible]. Outfit, $24.00

DEMOUNTABLE WHEELS FOR FORDS

Shipped f. o. b. factory Indiana

80022—Set consists of 4 wheels with rims [illegible] spare rim, wrench 24 lug bolts and nuts [illegible] Set $20.00

RUNNING BOARDS FOR FORDS



80125—Nothing improves a Ford's appearance like these running boards; ever to put in last life of car. Kiln-dried hardwood with linoleum and bound with [illegible] in. beaded aluminum moldings. Set $4 50

BRAKE SHOES FOR FORD CARS

81301—One piece cast iron accurately [illegible] to insure perfect steel spring. Pr. 45c
81302—[illegible] with [illegible] Pr. $1.00

HOLLEY CARBURETOR FOR FORD CARS

Standard Equipment on over 3 million Ford Cars.

8497 The model [illegible] This new inlet needle and seat is removable and can be replaced in a minute if damaged. Spray nozzle will start motor on 1st or 2nd turn of crank and give car a quick getaway. Each complete in carton Each, $3.90

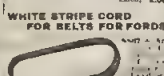
KINGSTON CARBURETOR AND SEPARATOR FOR FORD CARS

8498 Model LK4, most powerful, flexible [illegible] Ford cars. The separator is easily removed and positively prevents water or sediment of any kind reaching [illegible] Kingston Carburetors [illegible] $3.90

TILTING STEERING WHEELS FOR FORD CARS

8498—Wheel 17 in. in diam. and replaces the regular Ford wheel which is only 15 in. Besides allowing more room for getting in and out of car, it gives greater leverage and makes steering much easier. Mounted so properly fit the regular Ford steering column. Each, $5.00
8496—As 8498, but non-tilting. Each, 2.00

WHITE STRIPE CORD FOR BELTS FOR FORDS



[illegible] heavy cords, the cover is made of heavy tire fabric pitted with rubber, allowing the belt to give with the [illegible] Will outwear 3 [illegible] requires [illegible] car or [illegible] For model [illegible] 1917, [illegible] 1922. Each 15c
In 1 doz. lots, [illegible] 12c
8366—For 1921 or 1922 [illegible] In 1 doz. lots, [illegible] 15c

FAN BELT FOR FORD CARS

[illegible] break, not affected by oil, water or heat, for models prior to 1917. Doz. $2.10
★8584—As 85, for 1917, 1918, 1919 and 1920 models, longer belt. Doz. $2.60
84—As 85, for 1921 and 1922 models. Doz. $2.75

M & R TIMER FOR FORD CARS

8522—Rock grain fibre [illegible] way with patented steel [illegible] ring non-corrosive pressed steel case, spring collar [illegible] Each 75c

GOODRICH TIMER FOR FORD CARS

8160—[illegible] wire [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Each $1.50

RED STAR TIMER FOR FORD CARS

8527—[illegible] quenched [illegible] [illegible] [illegible] [illegible] [illegible] Each $1 10

THE BALTIMORE COMMUTATOR FOR FORD CARS HERE IT IS!

[illegible] Each $3 90

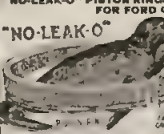
WIRING ASSEMBLY FOR FORD CARS

8525—Consists of complete set of wires for Ford cars, viz., head light and timer wires in five colors and have rubber insulated ferrule eliminating short-circuit, all other ends have copper terminals. Packed, complete set in carton Set, 40c

GENUINE VULCAN SPRINGS FOR FORD CARS

80200—Front Spring, all oil tempered, seven leaves, steel bushings, rebound clips with hexagon bolts and nuts, wt. 17 lbs., painted black. Each, $1.25
80201—Rear Spring, oil tempered, 8 leaves, heavy rebound clip, steel bushings, wt. 18 lbs. Each $4.00

"NO-LEAK-O" PISTON RINGS FOR FORD CARS

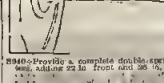


Oil Sealing—A ring with a reason. Many [illegible] lose with close fitting lap joints and special constructed groove around the entire circumference of ring, which fills with oil and forms a seal through which the gas or fire cannot penetrate, giving perfect compression and lubrication, thereby saving oil and eliminating carbon and the frequent repairs from this cause.
8180—Size 3 1/2x3 1/4, 1 doz. in carton. Doz. $4.50
12 doz. lots. Doz. 4.00

TWIN ARM STEELBILT SHOCK ABSORBERS FOR FORD CARS

8477 [illegible] for installing Set, $6.00

DUPLEX SHOCK ABSORBERS FOR FORD TOURING CARS



8940—Provide a complete double spring system. Adding 22 lb. front and 36 lb. rear of [illegible] $12.00

AUTO FOOT RAIL

[illegible] 1, 1¼-in. diam., tubing. Black stamped brackets can be bolted back when not in use. Each 50c

Same Goods for Less Money—
More Goods for Same Money.

Every-Day Sellers for Ford Cars

CORDON JIFFY CUSHION SLIPS FOR FORD TOURING CARS
Easily put on, quickly taken off, washable.

Set. $1.50

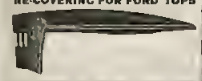
SEAT COVERS FOR FORD CARS
For Model "T," 1915 to 1923.

give Ford owners an their cars at a very

Set. $6.50

B650—As above, for Ford coupe. Set, 6.50
B600—As above, for Ford sedan. Set, 10.00
B110—As B619, made of cotton mohair, dark color, for Ford Touring Car. . Set, $8.00

RE-COVERING FOR FORD TOPS



pot, quarters back, sides and back curtains

$ 5.75
$ 6.00
B30—As B25 for Ford Roadster . . . 4.00

TOP PAD LINING
B615 — To be used with top recovering when old padding is worn or damaged.
Set, $1.80

REGULAR 4-BOW TOP AS FURNISHED WITH FORD CAR

Each, $27.00

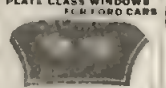
COMPLETE ONE-MAN TOP FOR FORD CARS
Shipped from factory in Va.

$27.50

REAR CURTAINS FOR FORD CARS

$1.22
1.65

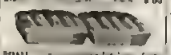
REAR CURTAINS WITH PLATE GLASS WINDOWS FOR FORD CARS



B3617—Made of 32-oz rubber drill with 2 japanned clamped-in frames with beveled plate glasses, also 4x6 in. complete with all necessary fastenings. Fit all Ford touring cars 1912 to 1920. Each $2.90
2.50

SEAT CUSHIONS FOR FORD CARS
Made of same material as cushions furnished with Ford cars when new.

B6612—Front seat cushion. Each $5.45
4.65



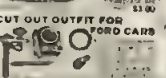
$4.60

DOOR COVERINGS FOR FORDS

attaching. Complete set

$3.00

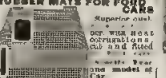
CUT OUT OUTFIT FOR FORD CARS



An iron cut-out, bored to the proper size with a 3-in. opening for pedal pulley 4 ft. of wire cable packed in neat carton with instructions.

Outfit, 65c

RUBBER MATS FOR FORD CARS
Superior quality



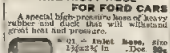
ber with hose ootruations, cup and fitted

ame model as

Each, 90c
Each, $1.75
Each, 3.50

PEDAL RUBBER FOR FORD CARS

RADIATOR OUTLET AND INLET HOSE FOR FORD CARS
A special high-pressure hose of heavy rubber and duck that will withstand great heat and pressure.



Hose, size .Doz. $6c
Hose, size Doz. $1.15

CORK INSERT TRANSMISSION LININGS FOR FORD CARS

piece of cork

ized car. The clattering of it pleces with accessory rivets and instructions

Set, $1.00

WHITE STRIPE TRANSMISSION LINING FOR FORD CARS

B308 — With o
ing made. Not affected by

heavy asbe threads. Gives power and

$1.20

TRANSMISSION LINING FOR FORD CARS

log Box 40c

10c

THE LITTLE STEERSMAN FOR FORD CARS

$1.25

"USA" LOCK FOR FORD CARS

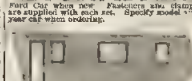
B264—Locks the right ignition can be started. Adjustable

60

COIL PROTECTORS FOR FORDS

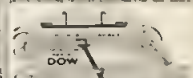
B616—A waterproof apron fastened under the wind shield and extending over the hood, protects the coils from nothing wet. Rolls up when not in 45 cm. 40c

SIDE CURTAINS FOR FORD CARS
Ford Car when new. Fasteners also clamps are supplied with each set. Specify model and year car when ordering.



$4.50
4.00

AUTO BODY BRACE FOR FORD CARS
A Ford necessity that adds new life to the car. Attached in 5 minutes. Fits any Ford car, stops rattle and noise, prevents broken springs, sup-



B4000—Made of heavy angle steel, finished black enamel, complete with instructions

Each, $1.45

DEFENDER AUTO LOCKS FOR FORD CARS

★ B301 — Heavy steel, fits any Ford switch block securely locks coil box, preventing coils being stolen. Positively breaks and is pick proof. Accepted by in-

explains itself. Complete with full instructions.

$2.25 ★ 75c

COMBINATION CRANK HOLDER LOCK AND LICENSE BRACKET FOR FORD CARS

Each, 75c

MICHON ACCELERATOR FOR FORDS

B838 — Most perfect working accele

Each, $1.50

FOLDING AUTO CHAIRS

B100 — Made of electrically welded steel. Right weight

padded. Folds flat height of seat 16 in Open wt. 4½ lbs.

Each $2.25

Every-Day Sellers for Ford Cars

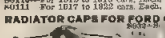
CROWN FENDERS FOR FORD CARS

Made of heavy No. 20 gauge steel, finished with 2 coats of black enamel, baked on. Packed 2 set in crate (2 front, 2 rear), providing dampen in transit.
80160—For pleasure car, 1914 to 1916. Set of 4, $10.50
80178—For pleasure cars, 1917 to 1923. Set of 4, $10.50

HONEYCOMB RADIATORS FOR FORD CARS

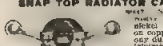
All brass finished with 2 heavy coats of [illegible] which burns enamel fitted with honeycomb [illegible] closely than regular type. Guaranteed against freezing of overheating.
80110—For 1915 to 1916 cars. Each, $13.50
80111—For 1917 to 1923 cars. Each, 13.50

RADIATOR CAPS FOR FORD CARS



[illegible] and polished. Each in carton, $3 50

SNAP TOP RADIATOR CAP



[illegible] nickel plated on copper shell [illegible] trimmed. Each 75c

COMBINATION RADIATOR, HOOD AND SHIELD

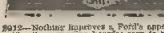
This combination made to convert the 1915 and 1916 Ford cars into the latest model. It gives the Ford car a custom line effect so much desired. The front shield also improves the entire appearance.
80115—Outfit includes Peerless honeycomb radiator, front shield and straight one hood with all fasten[illegible]. Outfit, $24.00

DEMOUNTABLE WHEELS FOR FORDS

Shipped f. o. b. factory Indiana

80022—Set consists of 4 wheels with rims [illegible] spare rim, wrench 24 lug bolts and nuts [illegible] Set $20.00

RUNNING BOARDS FOR FORDS



80125—Nothing improves a Ford's appearance like these running boards; ever to put in last life of car. Kiln-dried hardwood with linoleum and bound with [illegible] in. beaded aluminum moldings. Set $4 50

BRAKE SHOES FOR FORD CARS

81301—One piece cast iron accurately [illegible] to insure perfect steel spring. Pr. 45c
81302—[illegible] with [illegible] Pr. $1.00

HOLLEY CARBURETOR FOR FORD CARS

Standard Equipment on over 3 million Ford Cars.

8497 The model [illegible] This new inlet needle and seat is removable and can be replaced in a minute if damaged. Spray nozzle will start motor on 1st or 2nd turn of crank and give car a quick getaway. Each complete in carton Each, $3.90

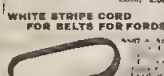
KINGSTON CARBURETOR AND SEPARATOR FOR FORD CARS

8498 Model LK4, most powerful, flexible [illegible] Ford cars. The separator is easily removed and positively prevents water or sediment of any kind reaching [illegible] Kingston Carburetors [illegible] $3.90

TILTING STEERING WHEELS FOR FORD CARS

8498—Wheel 17 in. in diam. and replaces the regular Ford wheel which is only 15 in. Besides allowing more room for getting in and out of car, it gives greater leverage and makes steering much easier. Mounted so properly fit the regular Ford steering column. Each, $5.00
8496—As 8498, but non-tilting. Each, 2.00

WHITE STRIPE CORD FOR BELTS FOR FORDS



[illegible] heavy cords, the cover is made of heavy tire fabric pitted with rubber, allowing the belt to give with the [illegible] Will outwear 3 [illegible] requires [illegible] car or [illegible] For model [illegible] 1917, [illegible] 1922. Each 15c
In 1 doz. lots, [illegible] 12c
8366—For 1921 or 1922 [illegible] In 1 doz. lots, [illegible] 15c

FAN BELT FOR FORD CARS

[illegible] break, not affected by oil, water or heat, for models prior to 1917. Doz. $2.10
★8584—As 85, for 1917, 1918, 1919 and 1920 models, longer belt. Doz. $2.60
84—As 85, for 1921 and 1922 models. Doz. $2.75

M & R TIMER FOR FORD CARS

8522—Rock grain fibre [illegible] way with patented steel [illegible] ring non-corrosive pressed steel case, spring collar [illegible] Each 75c

GOODRICH TIMER FOR FORD CARS

8160—[illegible] wire [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Each $1.50

RED STAR TIMER FOR FORD CARS

8527—[illegible] quenched [illegible] [illegible] [illegible] [illegible] [illegible] Each $1 10

THE BALTIMORE COMMUTATOR FOR FORD CARS HERE IT IS!

[illegible] Each $3 90

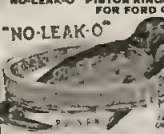
WIRING ASSEMBLY FOR FORD CARS

8525—Consists of complete set of wires for Ford cars, viz., head light and timer wires in five colors and have rubber insulated ferrule eliminating short-circuit, all other ends have copper terminals. Packed, complete set in carton Set, 40c

GENUINE VULCAN SPRINGS FOR FORD CARS

80200—Front Spring, all oil tempered, seven leaves, steel bushings, rebound clips with hexagon bolts and nuts, wt. 17 lbs., painted black. Each, $1.25
80201—Rear Spring, oil tempered, 8 leaves, heavy rebound clip, steel bushings, wt. 18 lbs. Each $4.00

"NO-LEAK-O" PISTON RINGS FOR FORD CARS

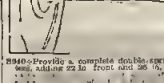


Oil Sealing—A ring with a reason. Many [illegible] lose with close fitting lap joints and special constructed groove around the entire circumference of ring, which fills with oil and forms a seal through which the gas or fire cannot penetrate, giving perfect compression and lubrication, thereby saving oil and eliminating carbon and the frequent repairs from this cause.
8180—Size 3 1/2x3 1/4, 1 doz. in carton. Doz. $4.50
12 doz. lots. Doz. 4.00

TWIN ARM STEELBILT SHOCK ABSORBERS FOR FORD CARS

8477 [illegible] for installing Set, $6.00

DUPLEX SHOCK ABSORBERS FOR FORD TOURING CARS



8940—Provide a complete double spring system. Adding 22 lb. front and 36 lb. rear of [illegible] $12.00

AUTO FOOT RAIL

[illegible] 1, 1¼-in. diam., tubing. Black stamped brackets can be bolted back when not in use. Each 50c

Same Goods for Less Money—
More Goods for Same Money.

Every-Day Sellers for Ford Cars

CORDON JIFFY CUSHION SLIPS FOR FORD TOURING CARS
Easily put on, quickly taken off, washable.

Set. $1.50

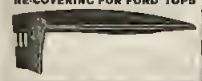
SEAT COVERS FOR FORD CARS
For Model "T," 1915 to 1923.

give Ford owners an their cars at a very

Set. $6.50

B650—As above, for Ford coupe. Set, 6.50
B600—As above, for Ford sedan. Set, 10.00
B110—As B619, made of cotton mohair, dark color, for Ford Touring Car. . Set, $8.00

RE-COVERING FOR FORD TOPS



pot, quarters back, sides and back curtains

$ 5.75
$ 6.00
B30—As B25 for Ford Roadster . . . 4.00

TOP PAD LINING
B615 — To be used with top recovering when old padding is worn or damaged.
Set, $1.80

REGULAR 4-BOW TOP AS FURNISHED WITH FORD CAR

Each, $27.00

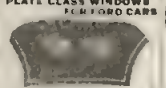
COMPLETE ONE-MAN TOP FOR FORD CARS
Shipped from factory in Va.

$27.50

REAR CURTAINS FOR FORD CARS

$1.22
1.65

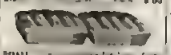
REAR CURTAINS WITH PLATE GLASS WINDOWS FOR FORD CARS



B3617—Made of 32-oz rubber drill with 2 japanned clamped-in frames with beveled plate glasses, also 4x6 in. complete with all necessary fastenings. Fit all Ford touring cars 1912 to 1920. Each $2.90
2.50

SEAT CUSHIONS FOR FORD CARS
Made of same material as cushions furnished with Ford cars when new.

B6612—Front seat cushion. Each $5.45
4.65



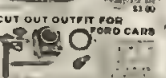
$4.60

DOOR COVERINGS FOR FORDS

attaching. Complete set

$3.00

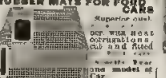
CUT OUT OUTFIT FOR FORD CARS



An iron cut-out, bored to the proper size with a 3-in. opening for pedal pulley 4 ft. of wire cable packed in neat carton with instructions.

Outfit, 65c

RUBBER MATS FOR FORD CARS
Superior quality



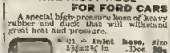
ber with hose ootruations, cup and fitted

ame model as

Each, 90c
Each, $1.75
Each, 3.50

PEDAL RUBBER FOR FORD CARS

RADIATOR OUTLET AND INLET HOSE FOR FORD CARS
A special high-pressure hose of heavy rubber and duck that will withstand great heat and pressure.



Hose, size .Doz. $6c
Hose, size Doz. $1.15

CORK INSERT TRANSMISSION LININGS FOR FORD CARS

piece of cork

ized car. The clattering of it pleces with accessory rivets and instructions

Set, $1.00

WHITE STRIPE TRANSMISSION LINING FOR FORD CARS

B308 — With o
ing made. Not affected by

heavy asbe threads. Gives power and

$1.20

TRANSMISSION LINING FOR FORD CARS

log Box 40c

10c

THE LITTLE STEERSMAN FOR FORD CARS

$1.25

"USA" LOCK FOR FORD CARS

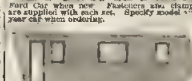
B264—Locks the right ignition can be started. Adjustable

60

COIL PROTECTORS FOR FORDS

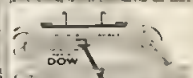
B616—A waterproof apron fastened under the wind shield and extending over the hood, protects the coils from nothing wet. Rolls up when not in 45 cm. 40c

SIDE CURTAINS FOR FORD CARS
Ford Car when new. Fasteners also clamps are supplied with each set. Specify model and year car when ordering.



$4.50
4.00

AUTO BODY BRACE FOR FORD CARS
A Ford necessity that adds new life to the car. Attached in 5 minutes. Fits any Ford car, stops rattle and noise, prevents broken springs, sup-



B4000—Made of heavy angle steel, finished black enamel, complete with instructions

Each, $1.45

DEFENDER AUTO LOCKS FOR FORD CARS

★ B301 — Heavy steel, fits any Ford switch block securely locks coil box, preventing coils being stolen. Positively breaks and is pick proof. Accepted by in-

explains itself. Complete with full instructions.

$2.25 ★ 75c

COMBINATION CRANK HOLDER LOCK AND LICENSE BRACKET FOR FORD CARS

Each, 75c

MICHON ACCELERATOR FOR FORDS

B838 — Most perfect working accele

Each, $1.50

FOLDING AUTO CHAIRS

B100 — Made of electrically welded steel. Right weight

padded. Folds flat height of seat 16 in Open wt. 4½ lbs.

Each $2.25

AUTOMOBILE BODIES
TORPEDO STYLE SPEEDSTER BODY FOR FORD CARS

Will Fit any Model T Chassis.

BODY—Made of clear hardwood, heavily ironed and fully covered with 22 gauge cold rolled automobile steel with all joints and seams reinforced and soldered.

UPHOLSTERING—High grade automobile leather in green or black, with back cushion removable affording entry to large tool compartment in rear of back of seat.

TOOL COMPARTMENT—Large tool compartment back of back cushion easily accessible by removing back cushion.

RADIATOR SHELL AND HOOD—The hood is made with large side opening as illustrated, covered with steel screen wire. Radiator shell is of artistic design, to fit 1909 to 1916 or 1917 to 1920 Ford radiators. (Specify model when ordering).

GASOLINE TANK—The body comes with a large brass filler cap for gasoline tank. The old gasoline tank, which comes as a part of the original Ford equipment may be used, being easily accessable through the opening created by the removal of the back cushion.

Furnished filled and primed in gray base paint, or fully painted, rubbed and varnished to a high gloss in the following colors; Black, Auto Blue, Brewster Green, Stutz Red or Battle Ship Gray.

Note—Price does not include Fenders. Each

No. A-2TR8—With hood, radiator shell and aprons ✤$227 50

One Man Tops For Above Bodies Each

No. A-4T—Made of high grade imitation leather; complete with all fittings body irons, etc. ✤$60 00

Windshields For Above Bodies. Each

No. A-6W Complete with all fittings ✤$45 00

Crated; average shipping weight of bodies 275 lbs.

LEADER MODEL

Will Fit any Model T Ford Chassis.

BODY—Made of clear hardwood, heavily ironed and covered with 22 gauge auto sheet steel, smoothly shaped and formed over wood frame work.

TOOL COMPARTMENT—Large tool compartment rear of back seat easily accessible by removing back cushion.

RADIATOR SHELL AND HOOD—Stream line hood with oblong screened openings in sides and a set of 4 hood clamps. The radiator shell secured in front completely covers Ford radiator.

GASOLINE TANK—The regular Ford gasoline tank is used, being installed in the body in rear of seat back. The seat back being removeable affords easy access to tank. The body is upholstered in a high grade imitation leather, and painted any color. Each

No. A7LSB—Body with hood and shell ✤$294 00

No. A7LT—Top for above body ✤ 60 00

No. A7LW—Windshield for above body ✤ 45 00

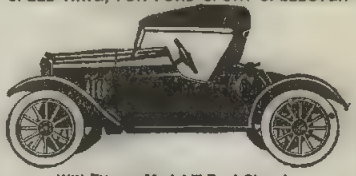
No. A-7LUP—Underslung parts for above body; they lower the car 5 inches giving it a racy like appearance ✤ 37 50

Crated; shipping weight each 400 lbs.

Note—Price does not include fenders.

✤F. O. B. Kentucky Factory Only.

AUTOMOBILE BODIES
SPEED KING, FOR FORD SPORT SPEEDSTER



Will Fit any Model T Ford Chassis.
Note—Price does not include Fenders.

BODY: Made of best hardwood frame, heavily ironed and fully covered with heavy gauge automobile anti-rust steel. Complete with dash, which is part of body, with holes for coil and steering post in proper position and new floor boards.

TOOL COMPARTMENT: In the rear is an extra large tool or baggage compartment reached by a large, well hinged anti-rattle door.

RADIATOR SHELL AND HOOD: Latest streamline hood and radiator shell with concealed hinges. Ventilators on each side and furnished with ornamental radiator cap, the whole outfit being a perfect fit for your old radiator.

GASOLINE TANK: 20 gallon with round ends and heavily soldered seams, and bottom outlet. Complete with large ornamental filler cap.

UPHOLSTERY: High grade automobile artificial leather, fully stuffed with soft heavily stuffed cushion.

TOP: One-Man Speedster Top made of high grade rubber topping material with latest gypsy curtains with nickel frame bevel plate glass in back curtain.

WINDSHIELD: Latest slanting; ventilating windshield of special speedster type.

Body furnished without top and windshield or with top and windshield, primed or fully finished in the following colors: Black, Auto Blue, Brewster Green, Stutz Red or Battleship Gray. When ordering specify color desired. Each

No. A-86—Body, with hood and shell; without top and windshield; primed ✤$117 75

No. A-87—Body, with hood and shell; without top and windshield; painted any color listed above ✤ 146 25

No. A-88—Body, with hood, shell, top and windshield; primed ✤ 222 75

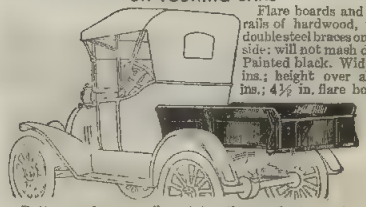
No. A-89—Body, with hood, shell, top and windshield; painted any color listed above ✤ 251 25

No. A-90—Speedster top only, (Ford Rubber) ✤ 60 00

No. A-92—Speedster windshield only ✤ 45 00

Crated; average shipping weight of bodies 180 lbs.

EXPRESS BODIES
FOR ORDINARY FORD CHASSIS, EITHER ROADSTER OR TOURING CARS



Flare boards and cross rails of hardwood, three double steel braces on each side; will not mash down. Painted black. Width 38 ins.; height over all 12 ins.; 4½ in. flare boards.

Bottom and cross rails put together ready to receive sides and ends. Sides and flare rails packed flat, which takes a low rate of freight and is easily bolted together. Each

No. A-14-48—48 inch; shipping wt. 105 lbs. $32 25

No. A-14-60—60 inch; shipping wt. 118 lbs. 36 00

Crated; K. D. flat.

✤F. O. B. Kentucky Factory Only.

EXPRESS BODIES

FOR ORDINARY FORD CHASSIS, EITHER ROADSTER OR TOURING CARS

Flare boards and cross rails of hardwood. Balance of body selected material. Body throughout is well ironed. Flare boards and bottom stripped with wear plates. Chain end gate adjustable to any load. Painted black.

Loading space 43x63 inches; height over all 15 inches.

Base is put together ready to receive sides and ends, which are packed flat to insure a low rate of freight. Easily set up.

	Each
No. A-15—Furnished complete with foot boards and full length lazy back (**Dash not included**); shipping wt. 400 lbs	✣$105 75
Crated; K. D. flat.	
No. A-15C—Cushion for No. 15 body; shipping wt. each 35 lbs	✣ 11 25
Crated.	

FOR ORDINARY FORD CHASSIS, EITHER ROADSTER OR TOURING CARS

With Cab.

Flare boards and cross rails of hardwood. Balance of body selected material, well ironed throughout. Flare boards and bottom stripped with wear plates. Chain end gate adjustable to any load. Deck of cab covered with oil drill, has hardwood posts and substantially bolted together. Painted black.

Loading space 43x63 inches; height over all 15 inches.

Base is put together ready to receive sides and ends, which are packed flat to insure a low rate of freight. Easily set up.

	Each
No. A-19—Furnished complete with foot boards and full length lazy back. (**Dash not included**); shipping wt. 550 lbs	✣$145 50
Crated; K. D. flat.	
No. A-19C—Cushion for No. 19 body; shipping wt. 35 lbs	✣ 11 25
Crated.	

✣F. O. B. Illinois Factory Only.

EXPRESS BODIES

FOR ANY MODEL T FORD CARS

With Top.

Flare boards and cross rails of hardwood. Balance of body selected material, well ironed throughout. Flare boards and bottom stripped with wear plates. Chain end gate adjustable to any load. Top has six hardwood posts, braced both ways with steel braces, which insures a rigid top. Deck covered with black oil drill. Painted black.

Loading space 43x63 inches; height of body 15 inches.

Furnished with five curtains. One small curtain on each side of driver's seat with celluloid lights. Two full length side curtains, and one rear curtain with celluloid lights. All curtains black oiled drill, with straps and buttons for fastening to flare boards and end gate.

	Each
No. A-18—Body complete, except windshield and dash; shipping wt. 650 lbs	✣$199 50
Crated; K. D. flat.	
No. A-18C—Cushion for No. 18 body; shipping wt. 35 lbs	✣ 11 25
Crated.	

FOR FORD TRUCKS

All framing of hardwood, well ironed and bolted to longitudinal sills. Wear strips on platform. Stake panels can be removed for use as platform truck body. Glass both sides and rear of cab. Loading space 60x90 inches.

	Each
No. A-20—One coat priming without windshield and dash; shipping wt. 865 lbs	✣$279 00
No. A-20FP—Full painted black without windshield and dash; shipping wt. 865 lbs	✣ 315 00
No. A-20-22EC—With No. 22 enclosed cab without dash; shipping wt. 1130 lbs	✣ 411 75
Crated; K. D. flat.	
No. A-20C—Cushion for all No. 20 bodies; shipping weight 38 lbs	✣ 12 00
Crated.	

✣F. O. B. Illinois Factory Only

SINGLE BARREL TRAP GUNS

L. C. SMITH

SPECIALTY TRAP GRADE

Barrel—Nitro blued steel or Damascus steel, compensating ventilated top rib, automatic ejector, any bore desired, chambered for 2¾, 2⅞ or 3 in. shells.

Stock—Fine quality walnut, full or half pistol or straight grip to order, checkered grip and fore-end.
Frame—Beautifully engraved, hammerless.

SPECIALTY GRADE

The compensating ventilated top rib automatically adjusts itself for the 70 degrees difference between the barrel and rib during constant shooting and so cannot buckle the barrel. The sides of the rib are made parallel to insure quick and accurate sighting.

No. F2ST—12 gauge, 30, 32 or 34 in. barrel, w't 7⅛ to 8¼ lbs.★ .....each **$235.90**

EAGLE GRADE

The decoration, while not elaborate, is of a nature to give the style that classes it far above the usual. On the left lock plate appears a ring-necked pheasant in bold relief against a frosted back ground; and on the right a duck in full flight. The top and bottom of the frame are ornamented with scroll work of artistic design.
No. F3ET—12 gauge, 30, 32 or 34 in. barrel, w't 7⅛ to 8¼ lbs.★ .....each **$321.20**

CROWN GRADE

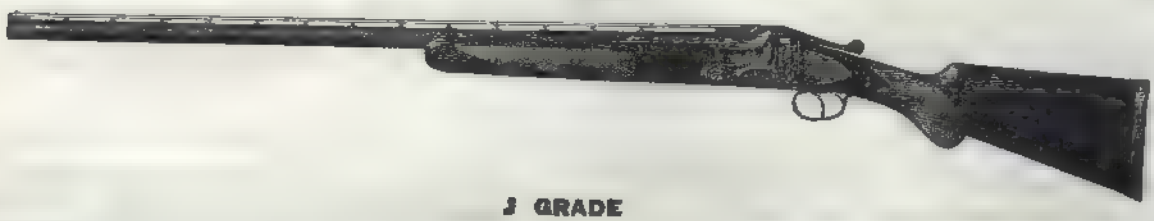
The detail of the gold inlay and engraving is delicate and pleasing to the most critical eye.
No. F4CT—12 gauge, 30, 32 or 34 in. barrel, w't 7⅛ to 8¼ lbs.★ .....each **$443.30**

MONOGRAM GRADE

The engraving, embodying scroll and relief work, is of the utmost distinctiveness both in design and execution.
The barrels are chosen of Monogram steel with a view to strength, service, proper balance and quick handling. The stock is from imported walnut, carefully finished, and is in keeping with the entire gun.

No. F5MT—12 gauge, 30, 32 or 34 in. barrel, w't 7⅛ to 8¼ lbs.★ .....each **$634.70**

FOX



J GRADE

Barrel—Highest grade Chromox Fluid steel; sliding ventilated top rib; automatic ejector.
Frame—Beautifully engraved; heavy tapered steel cross bolt; one-piece nickel steel hammer; Coil springs throughout.
Stock—Fine quality walnut, full or half pistol or straight grip to order, checkered grip and fore-end.

No. FJTE—12 gauge, 30 or 32 in. barrel, w't 7⅛ to 8¼ lbs.★ .....each **$264.50**

A wonderfully, close, even shooting gun with the highest quality of workmanship and finish throughout.

★ Items Marked Thus ★ Are Shipped From Factory Only.

DOUBLE BARREL SHOT GUNS

ITHACA HAMMERLESS

Field Grade.

Barrels—Blued smokeless steel, double thick nitro breech, both barrels full choke or left full choke and right modified choke bored, matted hollow ground rib with bolted extension, plain extractor.

Stock—Black walnut, good color, well finished, half pistol grip, hand checkered stock and fore-end, ornamented rubber butt plate.

Frame—Case hardened, automatic safety and all locks forged from same steel as used on higher grade guns, mechanical construction is the same blued guard.

No. 59—12 gauge, 30 or 32 in. barrel, w't 6½ to 8½ lbs., each $62.40

No. 1659—16 gauge, 28 or 30 in. barrel, w't 6½ to 7 lbs., each $62.40

No. 2059—20 gauge, 28 or 30 in. barrel, w't 5½ to 6¾ lbs., each $62.40

Barrels—Imported nitro blued steel barrels, both choked, matted hollow ground rib, locking bolt extension, plain extractor.

Stock—Black walnut and fore-end checkered, full pistol grip, capped, ornamented rubber butt plate.

Frame—Case hardened, automatic safety catch, blued guard, frame top lever, fore-end iron and guard line engraved.

No. 61—12 gauge, 30 in. barrel, w't 7½ to 8 lbs., each $79.15

STEVENS' HAMMERLESS

Barrels—High Pressure Compressed steel, bored for nitro powders, matted extension rib, left barrel full choke, right barrel modified choke bored.

Stock—Varnished American walnut, checkered half pistol grip and fore-end, length 14 in., drop 3 in.

Frame—Case hardened ornamented with scrolls, top lever and bolt one piece, locking through extension rib, spiral mainspring, automatic safety, all parts drop forged.

No. 335—12 gauge, 30 or 32 in. barrel, w't 7¾ to 8¼ lbs., each $48.60

No. 16335—16 gauge, 28 or 30 in. barrel, w't 7½ to 8 lbs., each $48.60

No. 20335—20 gauge, 28 in. barrel, w't 6 to 6½ lbs., each $54.00

STEVENS' HAMMER

Barrels—High pressure compressed steel, bored for nitro powder, matted extension rib, left barrel full choke, right barrel modified choke bored.

Stock—Varnished American walnut, checkered half pistol grip and fore-end, length 14 in., drop 3 in.

Frame—Case hardened ornamented with scrolls, top lever and bolt in one piece locking through extension rib, low circular hammers, rebounding locks, coil mainsprings, all parts drop forged.

No. 235—12 gauge, 30 or 32 in. barrel, w't 7¾ to 8¼ lbs., each $41.50

No. 16235—16 gauge, 28 or 30 in. barrel, w't 7½ to 8 lbs., each $41.50

★ Items Marked Thus ★ Are Shipped from Factory Only.

FOX DOUBLE BARREL SHOT GUNS

HAMMERLESS

FOX, STERLINGWORTH STANDARD

Barrels—Sterlingworth fluid compressed steel, both barrels full choke bored.
Stock—American walnut full pistol grip, capped and checkered, length 14 in., drop at heel 2¾ in., hard rubber butt plate, patent snap, fore-end checkered.
Frame—Has all FOX features.

No. 75S—12 gauge, 30 in. barrels, **plain extractor,** w't 7⅛ to 7¾ lbs. ..... each $ 80.00
No. 75SE—12 gauge, 30 in. barrels, **automatic ejector,** w't 7⅛ to 7¾ lbs. ..... each 101.30
No. 1675S—16 gauge, 30 in. barrels, **plain extractor,** w't 6¾ to 6⅞ lbs. ..... each 80.00
No. 1675SE—16 gauge, 30 in. barrels, **automatic ejector,** w't 6¾ to 6⅞ lbs. ..... each 101.30
No. 2075S—20 gauge, 28 in. barrels, **plain extractor,** w't w't 5⅝ to 6¼ lbs. ..... each 80.00
No. 2075SE—20 gauge, 28 in. barrels, **automatic ejector,** w't 5¾ to 6¼ lbs. ..... each 101.30

FOX, STERLINGWORTH FIELD

Barrel—Sterlingworth fluid compressed steel, left barrel full choke, right barrel modified choke bored.
Stock—American walnut, full pistol grip, capped, length 14 in., drop at heel 3 in., hard rubber butt plate, patent snap fore-end.
Frame—Has all FOX features.

No. 75F—12 gauge, 28 in. barrel, **plain extractor,** w't 6¾ to 7 lbs. ..... each $ 80.00
No. 75FE—12 gauge, 28 in. barrels, **automatic ejector,** w't 7⅛ to 7¾ lbs. ..... each 101.30
No. 1675F—16 gauge, 28 in. barrels, **plain extractor,** w't 6 to 6½ lbs. ..... each 80.00
No. 1675FE—16 gauge, 28 in. barrels, **automatic ejector,** w't 6¾ to 6⅞ lbs. ..... each 101.30
No. 2075F—20 gauge, 28 in. barrel, **plain extractor,** w't 5¾ to 6 lbs. ..... each 80.00
No. 2075FE—20 gauge, 28 in. barrel, **automatic ejector,** w't 5¾ to 6 lbs. ..... each 101.50

FOX

Barrels—Genuine Krupp fluid steel, concave matted rib with rotary extension, any bore desired.
Stock—Handsome dark English walnut straight or pistol grip, hard rubber butt plate, automatic safety, Deeley and Edge pattern fore-end, perfectly balanced.
Frame—Engraved and finished in every detail.

No. F7AF—12, 16 or 20 gauge, 26, 28, 30 or 32 in. barrel, **plain extractor,** w't 6½ to 8 lbs.★ ..... each $104.00
No. F7AFE—12, 16 or 20 gauge, 26, 28, 30 or 32 in. barrel, **automatic ejector,** w't 6½ to 8 lbs.★ ..... each 125.30

Barrels—Genuine Krupp fluid steel tested and guaranteed for strength and accurate shooting qualities, concave matted rib with rotary bolted extension, any bore desired.
Stock—Selected curly dark English walnut, grain beautifully brought out in finish, solid rubber butt plate, automatic safety, Deeley and Edge pattern fore-end, extra fine diamond pattern checkering on grip, panels, and fore-end.
Frame—Engraving is work of an artist, it stands out clear and beautiful in design.

No. F7CFE—12, 16 or 20 gauge, 26, 28, 30 or 32 in. barrels, **automatic ejector,** w't 5½ to 8 lbs.★ ..... each $196.40

SINGLE TRIGGER MECHANISM

No. F7FK—Fox-Kautzky, fitted to any grade Fox gun, new or old, additional★ ..... each 55.20

★ Items Marked Thus ★ are Shipped from Factory Only.

Iver Johnson Double Barrel Hammerless

Shot Guns

Barrels—Special steel, browned, with top-bolt extension and re-enforced drop forged steel breech, finely matted flat-top rib; 30 in. left barrel full choke, right barrel modified choke bored, 32 in. both barrels full choke bored.

Stock—English black walnut, with pistol grip, carefully machined, shaped, checkered and hand finished, 14 inch with about 3 inch drop, genuine hard rubber butt plate.

Frame—Case hardened steel of high tensile strength, the design of the frame which is of the heavy breech type is such that the interior rear portion of the breech wall is re-enforced by a heavy vertical wall of metal, solid with the frame itself. This construction adds unusual strength to the frame at the point of greatest strain. Top snap action with new top-bolt barrel fastening, the bolt has a firm bearing on the entire area of the barrel extension, which, in itself, is a part of the solid steel forged breech of the barrels, and provides an unusually strong and substantial barrel fastening. Has coil mainspring incased within the solid wall of the sides of the frame and completely protected from friction and so mounted as to provide a uniformly strong, smooth and even action when in operation All working parts are drop forged, accurately machined.

No. 65—12 gauge, 30 or 32 in, barrel, weight about 7 lbs. .....each $53.00

NEST EGGS

OPAL

Heavy opal glass; exact size of a real chicken egg.

Per Gross

No. 0G—One gross in a carton. ... $10 20

Cartons will not be broken; wt. per gross 24 lbs.

LICE KILLING

An almost exact imitation of a real chicken egg. Contains a very powerful disinfectant which will absolutely expel all lice and vermin. Per Dozen

No. 12—Weight per dozen 2 lbs..... $2 04

One dozen in a cardboard display box.

SULPHATE OF LIME

Made from pure sterilized sulphate of lime. Keeps the nests in a clean and healthy condition. Has a neat and smooth appearance and in color, size and shape, it is almost an exact duplicate of a real chicken egg.

No.	SL
Per Gross	$8 70

One gross in a carton; weight per gross about 20 lbs.

EGG TESTERS

Made of IX tin, all seams electrically welded; very simple and efficient. There is positively no danger of cooking part of the contents of the egg while testing, as the tester is equipped with a sheet of mica that separates the egg from the flame. Fits any No. 2 burner.

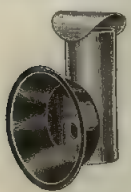
Per Dozen

No. 72—Height 5½ in..... $6 30

Packed loose; weight per dozen 3 lbs.

EGG CANDLERS

Made from heavy grade bright tin plate; pans, black japanned, chimneys are locked together with a double seam; hoods are so shaped and attached to chimney giving proper combustion with a good strong light. Fitted with a cushion ring at the observation hole in the pan and chimney preventing jarring of eggs. Pans are securely bolted to chimneys.



For Coal Oil.

Per Dozen

No. 0—Can be used with any lamp or lantern with No. 2 burner..$31 50

One in a carton.

For Electricity.

Per Dozen

No. E—Can be used with any standard size electric socket and globe; painted wood base, fastened with screws through hole in rim of pan..$31 50

One in a carton.

EGG CANDLERS

For Acetylene Burners.

Per Dozen

No. A—Fitted with acetylene burner ready for connecting; painted wood base, fastened with screws to rim of pan..$47 25

One in a carton.

EGG CRATES

HUMPTY DUMPTY

Made of heavy hardwood slats assembled with heavy steel wire. No tools or nails required to set up. Fig. 1—Crates folded, flat. Fig. 2—Crates set up, closed. Fig. 3—Crates set up, open. Fig. 4—Crates ready for shipment.

Nos.	3	6	9	12	15	30
Egg capacity, doz	3	6	9	12	15	30
Wt. per doz., lbs	41	51	60	76	90	168
Per Dozen.	✚$12 60	✚15 45	✚15 75	✚16 50	✚18 00	✚31 50

Half dozen in bundle, complete with fillers.

FILLERS FOR HUMPTY DUMPTY EGG CRATES

Made of pressed corrugated paper, suitable for all size crates.

Per Case

No. F—Case contains 120 fillers and 144 flats..... ✚$14 25

Weight per case about 17 lbs.

LEG BANDS

PERFECTION

Made of 26 ga. aluminum, highly polished; suitable for any size fowl. When properly folded, it forms a double lock that is positive in its grip and which it is impossible for the fowl to loose. Come numbered from 1 to 100.

Nos.	1-25	26-50	51-75	76-100
Numbered from	1 to 25	26 to 50	51 to 75	76 to 100
Wt. per 100, ozs.	8	8	8	8
Per 100			$1 50	

25 in a cardboard box; assorted numbers as described above.

CHALLENGE

Made of aluminum, polished. Easily attached to any size fowl. Forms a positive lock which cannot be loosened by the fowl. Come numbered from 1 to 100.

Nos.	01-25	026-50	051-75	076-100
Numbered from	1 to 25	26 to 50	51 to 75	76 to 100
Wt. per 100, ozs.	6	6	6	6
Per 100			$1 50	

25 in a cardboard box; assorted numbers as described above.

✚F. O. B. Michigan Factory Only.

FRICTION TOYS

Roadster—10½x4½-c3¾ in., red body, gilt running board and wheels, gilt trim and radiator, green seat and back, blue chauffeur.
F3329—½ doz. in box. Doz. **$7.25**

Trolley Car—11¾x4½x5¾ in., orange enameled body, green top, yellow wheels.
F3334—½ doz. in box. . .Doz. **$7.36**

Tricky Duck—7¼x4x6¾ in., gilt bill and wheels, green and yellow enameled body, orange wings, red head, runs straight or in circle.
F3380—½ doz. in box Doz. **$7.36**

Coaster Bus—9¾x3½x4¾ in., green cloth disc wheels, body with brown sweater, cap and stockings, yellow trousers and shoes.
F3306—¼ doz. in box. . . . Doz. **$7.25**

Locomotive and Tender—18x6x8½ in., red enameled body, gilt wheels and trim.
F3305—½ doz. in box Doz. **$8.85**

Battleship—16x8¼x7¾ in., white enameled body and hull, green water line, 4 cannon and 4 orange smokestacks, gilt wheels.
F3386—½ doz. in case. . . . Doz. **$8.85**

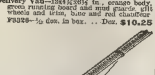
Aeroplane—17x13¾x5 in., yellow body and side wheels, red propeller, tail and wings, blue canopy, red, white and blue insignia, red and blue aviator.
F3328—½ doz. in box. . . . . Doz. **$8.85**

Touring Car—13x5x6¼ in., green body and top, gilt running board, wheels trim, green and red chauffeur
F3327—½ doz. in box Doz. **$8.85**

Auto Truck—15x5x5¼ in., blue body, yellow wheels, mud guards, running board and trim, red and blue chauffeur, loaded with miniature grocery packages.
F3307—½ doz. in box. . . . .Doz. **$8.85**

Hook and Ladder—15x5x5½ in., orange body, green running board and guards and trim, one 7 in. yellow ball, red and wheels, green and red chauffeur
F3317—½ doz. in box Doz. **$6.85**

Delivery Van—13x4½x6¼ in., orange body, green running board and mud guards, gilt wheels and trim, horse and red chauffeur
F3326—½ doz. in box. . . Doz. **$10.25**



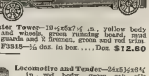
Auto Hook and Ladder—17x4½x6¼ in. red body, green running board, mud guards and radiator, 4 gilt ladders, wheels and trim, blue and red drivers.
F3330—½ doz. in box Doz. **$12.60**

Locomotive and Tender—24x5½x8¾ in., red body, green cab, gilt wheels and trim.
F3310—½ doz. in box. Doz. **$12.80**

Auto Tire Engine—16x7x9½ in., pulley on enamel body, gilt wheels, driving and belt. 7 in. red ladders, red boiler, painted chauffeur and fireman.
F3323—½ doz. in box. . .Doz. **$12.80**

Limousine—12x5½x6¾ in., red body, green running board, mud guards, door and roof, chauffeur, gilt wheels and trim
F3312 ½ doz. in box Doz. **$12.60**

Water Tower—19½x6x7¼ in., yellow body and wheels, green running board, mud guards and 4 firemen, green and red trim
F3315—½ doz. in box. . . .Doz. **$12.60**



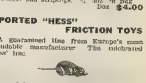
Locomotive and Tender—24x5½x8¾ in., red body, green cab, gilt wheels and trim.
F3310—½ doz. in box. Doz. **$12.80**

AUTO TRUCK

Frame — 10 x 4½ red enameled body, gilt wheels and stripes, 4½ ins. in size started by one or three pushes. runs a long distance.
Doz. **$4.00**

IMPORTED "HESS" FRICTION TOYS

A guaranteed line from Europe's most dependable manufacturer. The celebrated "Hess" line.



Mouse—3 in., mouse color figure, wire gilt started by one or three pushes. runs a long distance.
F3376—1 doz. in box Doz. **+84**

Motor Boat—6 in., heavy metal, red enamel finish, black stripes, heavy driving wheel with mechanical spring shaft.
F3371—½ doz. in box . . . .Doz. **+2.25**

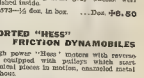
"Hessmobile" — 7¼ in. yellow enameled body, black and white stripes, extra heavy tin, nickeled lamps and hood, large fan casting and nickeled sound by crank, runs back ward or forward.
F3372—½ doz. in box Doz. **+4.50**

Motor Boat—12½ in., heavy metal, 3 color enameled finish, deck cabin and wheel, extra well finished, heavy driving wheel with mechanical spring shaft.
F3379—½ doz. in box. . . . .Doz. **+4.80**

Limousine—9¾ in., dark green enameled body with yellow and white stripes, black top and mud guards, gray wheels with colored hubs.
F3373—½ doz. in box. ....Doz. **+6.50**

IMPORTED "HESS" FRICTION DYNAMOBILES

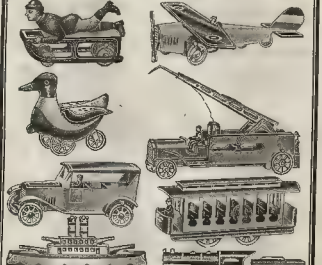
High power "Hess" motors with reverse lever, equipped with pulleys which start mechanical pieces in motion, enameled metal throughout.



F3384 10½x2½ in. stained wood base, bk. 2½ in. 3½x3 in. motor with trip hammer and pile driver. ½ doz. in box.
Doz. **+6.75**

"High Power" Friction Toy Assortment

A specially selected assortment of the very best numbers in our regular line. Proportioned to sell out evenly. You can get higher prices on some of these items than noted below.



F3333—Assd as follows:

½ doz.	Coaster Boy to retail at	$1 00
1 "	Tricky Duck to retail at	1 00
1 "	Battleship to retail at	1 00
1 "	Touring Car to retail at	1 00
1 "	Trolley Car to retail at	1 00
½ "	Locomotive and tender to retail at	1 00
1 "	Aeroplane to retail at	1 00
1 "	Limousine to retail at	1 50
½ "	Hook and Ladder to retail at	1 50
½ "	Water Tower to retail at	1 50
½ "	Fire Engine to retail at	1 50
		12 00

Total 21 pcs in asst. Each asst. in carton.

Total Retail Value. $23.09
Your Price 7.72

A3877. (1¾ doz., **$15.25**

Announcement

Items marked with the Maltese Cross (✠) in 1921 had not arrived at the early date we went to press. In many cases they will be in when we receive your order. Those that are not in will be placed on Back Order and we will notify you regarding each number so that you can keep on Back Order or make a different selection.

MECHANICAL TOYS

We have never offered as many big bargains in Mechanical Toys in all our 45 years as we show right here. This is more than ever the best line to buy from in America.

Climbing Monkey 8½ in. yellow vest, trousers and cap blue cloth, red sash, automatically climbs a 36 in. string; each in box

P3280—1 doz. in pkg ... Doz. $3.75 ... **39**

Horse and Cart—7½ in. cart, blue outside, yellow inside, open spoke yellow wheels; dapple horse with Hitho saddle and bridle, long yellow

P3296—3 doz. in box ... Doz. $1.25

"Total Value" $2.50

Toy Auto 3 styles, 8½x3, 9½x3, nickeled radiator and cowl, 3 color Hitho body, red and green gear, black wheels, strong spiral springs, trimmed straight or in fancy

P3273—¼ doz. in box ... Doz. $1.95

Racing Auto 9x2 in. bright red Hitho body with 2 blue stripes, yellow wheels, chauffeur, long spring action, each in box

P3285—¼ doz. in pkg ... Doz. $2.10

Butterfly—Cell in natural colored wings, yellow body and wheels, wings flutter when drawn across the floor, strong spiral motor, each in box

P3287—¼ doz. in pkg ... Doz. $2.10

Grinder—4½ in. red and blue figure, 3 in. grindstone and stand, 2¾x4½ in. base, grinds real sparks by turn of wheel, each in box

P3271—¼ doz. in pkg ... Doz. $2.25

Fargoe Boy 6½ in. red, yellow and black figure, 21x5½ in. wheelbarrow with yellow spoke wheels and wood handle, box has 2 holes to insert natural limb and shake a brown tree sprite when used as box

P3280—½ doz. in pkg ... Doz. $2.50

Tip Top Porter—11 in. fancy figure with red hat walks in natural manner pushing 21 in. wicker wheel chair on rubber wheels. Can be filled with candies, etc., each in box

P3283—½ doz. in pkg. Doz. $3.95

Dashing Mexican 9½ in. black & white hitho clothing, red hat, black & white spoke wheels, with driver of green seat, white horse, 12 in. long, running in spring curves about as very eccentric in their path

P3254—¼ doz. in pkg ... Doz. $4.35

Limousine—11x5½x6½, red and black body hinged doors with brass railing on running board, rubber tires wheels, hitho cloth four rare straight or in circle, each in box

P3250—½ doz. in pkg ... Doz. $3.90

Hand Car—6 in., gray car, red in red and blue figures with painted spoke wheels and lever action, yellow guide wheels and lever, 1 feeble action, each in box

P3284—¼ doz. in pkg ... Doz. $4.20

other spring pusher at station pushes car down track overhead trolley

P3289—¼ doz. in box ... Doz. $8.75

Kid Flyer—9x6 in., red and blue enameled boy with painted hair sits on brown soap box, 2 wheels in front, 1 in back, steering action, easily moved by pulling strong concealed string pushes a natural manner

P3277 ¼ doz. in pkg ... Doz. $4.25

"Krazy Car"—7½x3½ in., racing, gray lithographed type body, chauffeur, disc wheels, long running springs, auto action, easily moved by pulling strong concealed string pushes a natural manner each in box

P3287—½ doz. in pkg ... Doz. $4.40

Kiddie-ka-Car 9x6 in. red, blue and white body, 2 wheels in front, 1 in back, steering action with low cast red glass wheels and steering gear, new long action cords work by pull of steering bar, by turns of cords, by turns of cords, by turns of cords, each in box

P3276—¼ doz. in pkg ... Doz. $4.25

"HOME-RUN BABE"

P3245—9½x3½x8 in. fine figure with red cap in red suit with black trousers, 12 in. stance, 24 in. bat, complete with 3 balls, green field, low base with hitho cloth, green base, balls each in box

P3245—¼ doz. in pkg ... Doz. $4.75

Trolley System—6¾x8 in., red car, 4 in. wheels, 2 in. trolley on tin line 17 in. red overhead type for dog, red station at one end, metal supports, 2 in. spring for spring bumper on

Doz. $8.75

Mechanical Toy Assortment

A tractor-lock assortment of absolutely the best sellers in our mechanical toy line from 10c to $1.00, including 2 well known numbers that can be retailed at 10c each with a substantial profit.

P3270—Mechanically perfect sold as a higher retail price than noted below and vest pocket size

2	doz. Marbles to retail at 10c	
2	" Tops to retail at 10c	
2	" Whistles to retail 10c	
1	" Grinder to retail at 25c	
½	" Racing Auto to retail at 25c	
½	" Coon Jiggers to retail at 50c	

Total Retail Value $24.00
Your Profit, ... $9.65

Many of the pictures in this assortment can be found in our catalog

Free Hitho included with

½ doz.	Baby Mills to retail at 50c
1 "	Jumper toys to retail at 50c
½ "	Tractors to retail at 50c
1 "	Hand Cars to retail at 50c
1 "	Aeroplane to retail at $1.00

ASST (10 doz.) **$22.45**

CLIMBING MONKEY

Beautifully Lithographed. Finest mechanical action. Perfect in every detail. Extra big value. Double the size of monkey which formerly retailed for 25c.

P3263—10c 10½ in., 5-color Hitho, red & white sailor vest, decorated cap, blue cloth pants, automatically climbs a string, each in box. Doz. $2.00

Auto Fire Engine—11½x5½ in. x 5 in. Dealer No. chassis, blue body, 3 blue disc wheels, 2 tiny fire or hand guns, extra strong spring

P3265—1 in box ... Each, $1.60

Coupe—11x4½ in., heavy enamel steel, blue body, gilt trim, black roof, nickeled metal fenders, gilt running boards and bumper, red disc wheels, rubber tires, extra wheel, drum head lamps, gilt trim, nickeled radiator, "Speed" signal in front and blue painted chauffeur, gilt steering wheel, green top rider, long action, each in box

P3275—1 in box ... Each, $1.65

Auto Hook and Ladder—18x5 in., white body red stripes, red disc wheels, rubber tires, Hitho fireman rubber covered front bumper "Hi Hi" nickeled radiator, nickeled headlight, when bumper strikes anything it automatically stops

P3266—1 in box ... Each, $1.75

"DAPPER DAN" COON JIGGER

The best and most attractive mechanical dancer. Big improvement over anything in the market

P3284—8¼ in., 7-color Hitho finish, natural features, painted hands, gray hat, red & white striped coat, white spats, orange cane. Blue & white striped pants, red spots. Shoes are stitched in. Nine striped yellow platform with negro figures and words "Dapper Dan," lever operation speed regulator. Each in box

Doz. $48.00 Doz. **$4.25**

Aeroplane—18 in. long, 10 in. wing spread, all steel construction type, gray metal finish, bullseye lights, yellow celluloid propeller, adjustable tail, pilot, metal seat

P3288—¼ doz. in pkg ... Doz. **$8.25**

STAR VALUE

Aeroplane—15x12x5½ in. run on floor, red wings, yellow body, blue rudder, silver red, white and blue bullseye on wings and tail, propeller revolves, laminated rubber tire fly leather wheels

P3269—1 in box ... Each $1.00

Auto Fire Engine—11½x5½ in. x 5 in. Dealer No. chassis, blue disc wheels, extra 2 tiny fire or hand guns, extra strong spring

P3265—1 in box ... Each, $1.60

Coupe—11x4½ in., heavy enamel steel, blue body, gilt trim, black roof, nickeled metal fenders, gilt running boards and bumper, red disc wheels, rubber tires, extra wheel, drum head lamps, gilt trim, nickeled radiator, "Speed" signal in front and blue painted chauffeur, gilt steering wheel, green top rider, long action, each in box

P3275—1 in box ... Each, $1.65

Auto Hook and Ladder—18x5 in., white body red stripes, red disc wheels, rubber tires, Hitho fireman rubber covered front bumper "Hi Hi" nickeled radiator, nickeled headlight, when bumper strikes anything it automatically stops

P3266—1 in box ... Each, $1.75

*KEROSENE ENGINES

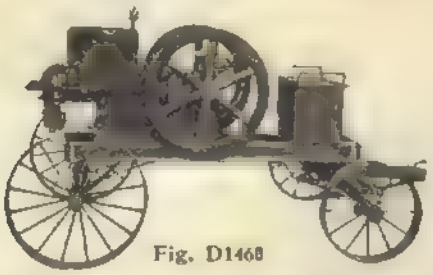


Fig. D1460

FULLER & JOHNSON, MODEL K, PORTABLE

Easy to Start

Consists of a Model K kerosene engine mounted on team truck, made entirely of steel. The seat serves as a battery box and also a tool box. Trucks are very rigid and strong, have solid steel axles, reinforced with I beams, strong circle fifth wheel, four braces to the rear axle.

Regular equipment consists of kerosene tank in base, plain pulley muffler, dry batteries, spark coil, switch, wrenches, crank, except on 12 h.p., cylinder oiler, grease cups, seat tool box, tongue, accessories and instructions.

Horsepower	5	7	9	12
Each	$290.00	380.00	500.00	675.00
Speed, r.p.m.	450	400	385	325
Pulley, inches	12x6	16x8	18x8	18x8
Front wheels, inches	24x4	24x4	24x4	26x4
Rear wheels, inches	32x4	32x4	32x4	36x4
Weight, pounds	1450	1850	2400	3050

Magnetos, Low Tension, Gear Driven; for Model K Portable Kerosene Engine

1½ horsepower—no batteries	extra, $10.00
3 to 5 horsepower—no batteries	extra, 14.00
7 horsepower—no batteries	extra, 15.00
9 to 12 horsepower, with starting batteries	extra, 21.00

*GASOLINE ENGINES

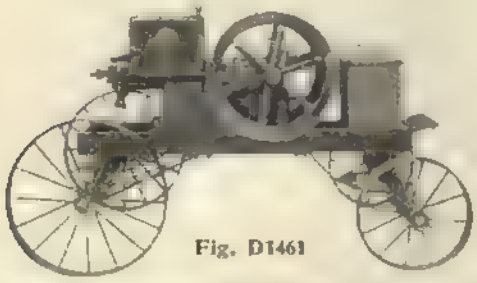


Fig. D1461

FULLER & JOHNSON, MODEL N, PORTABLE

Easy to Start

Consists of Model N gasoline engine mounted on all steel team truck. Seat serves as a battery and tool box. Axles on truck are solid steel reinforced with I beams. Equipment consists of tank, plain pulley, muffler, battery box, batteries, wires, switch, spark coil, wrenches, crank, except 12 h.p. cylinder oiler, grease cups; accessories and instructions; also tongue.

Horsepower	5	7	9	12
Each	$270.00	355.00	470.00	640.00
Speed, r.p.m.	450	500	385	325
Pulley, inches	12x6	16x8	18x8	18x8
Front wheels, inches	24x4	24x4	24x4	26x4
Rear wheels, inches	32x4	32x4	32x4	36x4
Weight, pounds	1400	1800	2350	3000

Magnetos, Low Tension, Gear Driven; for Model N Portable Gasoline Engine

1½ horsepower—no batteries	extra, $10.00
3 to 5 horsepower—no batteries	extra, 14.00
7 horsepower—no batteries	extra, 15.00
9 to 12 horsepower, with starting batteries	extra, 21.00

*Not carried in stock; will ship from factory.

*KEROSENE SAW RIGS

Fig. D1462

FULLER & JOHNSON, MODEL K, PORTABLE

Easy to Start

A Model K kerosene engine. All steel saw outfit, mounted on all steel trucks. Saw is designed for sawing cordwood or polewood into stove wood. Saw can be removed and engine can be used as regular portable. Sawyer feeds saw without touching the wood. Table hooks up for moving.

Regular equipment consists of Model K engine with plain pulley, kerosene tank in base, dry batteries, spark coil, switch, wrenches, crank (except 12 h. p.), cylinder oiler, grease cups, seat, tool box, tongue, saw table, balance wheel, belt, belt tightener and saw mounted on truck; also instructions.

Nos.	755K	775K	795K	7125K
Horsepower	5	7	9	12
Each	$415.00	505.00	630.00	795.00
Speed, r.p.m.	450	400	385	325
Engine pulley, inches	20x6	20x8	20x8	22x8
Saw diameter, inches	24	26	28	30
Front wheels, inches	24x4	24x4	24x4	26x4
Rear wheels, inches	32x4	32x4	32x4	36x4
Weight, pounds	2050	2400	2950	3550

Magnetos, Low Tension, Gear Driven; for Model K Portable Kerosene, Saw Rig Engine

1½ horsepower—no batteries	extra, $10.00
3 to 5 horsepower—no batteries	extra, 14.00
7 horsepower—no batteries	extra, 15.00
9 to 12 horsepower, with starting batteries	extra, 21.00

*GASOLINE SAW RIGS

Fig. D1463

FULLER & JOHNSON, MODEL N, PORTABLE

Easy to Start

Consists of Model N gasoline engine, mounted on all steel truck. Saw is designed for sawing cordwood or polewood into stovewood. Saw can be removed and engine can be used as a regular portable. Sawyer feeds saw without touching the wood. Table hooks up for moving equipment. Gasoline engine with plain pulley, truck, seat tool box, saw table, saw, belt tightener, balance wheel, belt, tongue, muffler, battery box, batteries, wires, switch, spark coil, wrenches, crank, except 12 h.p., cylinder oiler, grease cups, accessories and instructions.

Nos.	755N	775N	795N	7125N
Horsepower	5	7	9	12
Each	$395.00	480.00	600.00	760.00
Speed, r.p.m.	450	400	385	325
Pulley, inches	20x6	20x8	20x8	22x8
Saw diameter, inches	24	26	28	30
Front wheels, inches	24x4	24x4	24x4	26x4
Rear wheels, inches	32x4	32x4	32x4	36x4
Weight, pounds	2000	2350	2900	3500

Magnetos, Low Tension, Gear Driven; for Model N Portable Gasoline Engine

1½ horsepower—no batteries	extra, $10.00
3 to 5 horsepower—no batteries	extra, 14.00
7 horsepower—no batteries	extra, 15.00
9 to 12 horsepower, with starting batteries	extra, 21.00

*Not carried in stock; will ship from factory.

*FRICTION CLUTCH PULLEYS

For All Models K and N Gasoline and Kerosene Engines

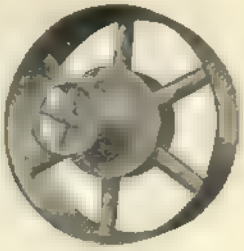


Fig. D1464

These clutch pulleys are the very best, most durable and safest. All mechanism is enclosed. To engage clutch pull out on hand wheel. To disengage push in on hand wheel. Prices below are to be added to price of engine when engine is to be equipped with friction clutch instead of plain pulley. When a friction clutch pulley is supplied as an extra, separate from engine, an additional charge of 10% is made to price given on friction clutch pulleys. If plain pulley is later returned to us credit will be given to equal this advance.

No. 1 Shaft Type, Fits on Crank Shaft. For 1½ and 3 Horsepower, with 4 Inch Face

Diameter, inches	5	6	7	8	10
Each	$15.00	16.50	18.00	19.50	21.00
Weight, pounds	20	25	30	35	40

For 5 and 7 Horsepower, with 6 Inch Face

Diameter, inches	12	14	16	18	20
Each	$23.00	25.50	28.00	30.00	32.50
Weight, pounds	60	70	80	90	100

Fig. D1465

Flywheel type. Bolts to flywheel on engine.

For 9 to 12 and 15 Horsepower, with 8 Inch Face

Diameter, inches	16	18	20	22	24
Each	$47.00	49.50	52.00	54.50	57.00
Weight, pounds	145	160	180	190	210
Diameter, inches		26	28	30	32
Each		$59.50	62.00	64.50	67.00
Weight, pounds		230	250	270	290

For 20 and 25 Horsepower, with 10 Inch Face

Diameter, inches	18	20	22	24	26
Each	$61.00	64.00	67.00	70.00	73.00
Weight, pounds	245	255	280	300	325
Diameter, inches		28	30	32	34
Each		$76.00	79.00	82.00	85.00
Weight, pounds		345	360	380	400

NOTE—The above sizes of clutch pulleys are stock sizes; friction clutch pulleys larger in diameter or with wider face than listed above can be furnished at an additional price.

*Not carried in stock; will ship from factory.

*AIR COMPRESSORS

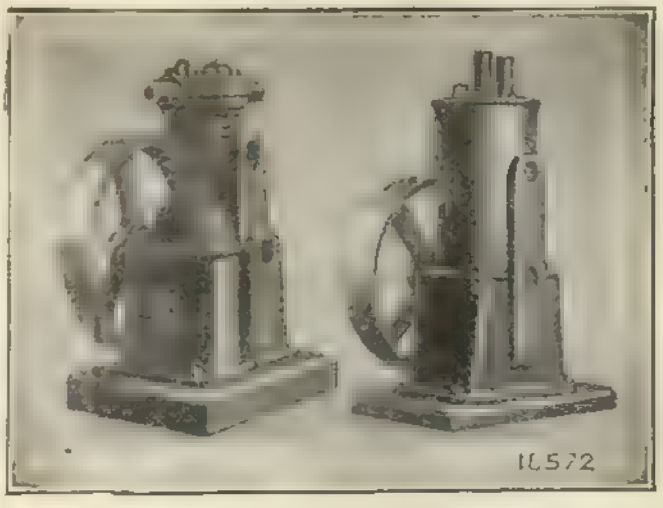


Fig. D1466
Air Cooled Type

Fig. D1467
Water Cooled Type

INGERSOLL-RAND CO.

Imperial Type Fourteen for Belt Drive

An air compressor for either intermittent or continuous service, where air is required in small quantities. For industrial plants, garages, power plants or for operating machines such as the monotype. Easy to install, independent of attendance and economical of power; is of the single stage, single acting, self oiling, enclosed, center crank type. Unit consists of a sturdy main frame wholly enclosing the main bearings, crank shaft and connecting rod and providing a basin for the automatic lubrication system. Air compressing cylinder seats on top of main frame secured by stud bolts. The absence of cross heads and stuffing boxes gives easy access to the valves and an effective oiling system. Special high grade anti-friction metal die cast bearings, carefully fitted, reduce frictional losses. Seats for shaft bearings are cast integral with the main frame, reinforced by ribbed supports and bored to take die castings. Bearings are kept flooded with oil by the automatic splash lubrication system. Crank shaft and connecting rod are drop forged steel. A renewable two piece die casting takes the wear at crank pin end of connecting rod, adjustment by removable shims; long wrist pin bearings in piston eliminate wear at this point. For compressors driven by electric motor, automatic starters are furnished to order at extra cost and built in each case to suit the current and voltage employed. Full information for this equipment when so ordered must be given

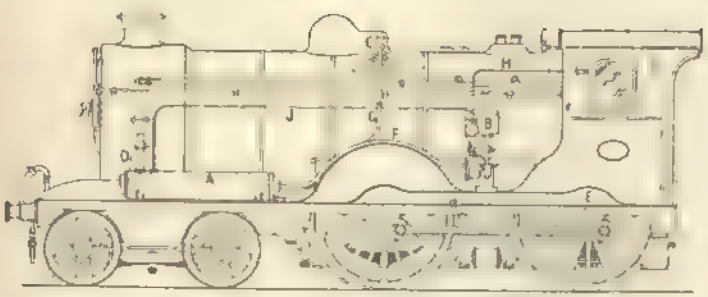
Cylinder diameter, in.	2½	3½	4½	6	6
Cylinder stroke, in.	3	4	5	6	6
Each	$65.00	100.00	150.00	300.00	275.00
Method of cooling	Air	Res.	Res.	Res.	Circ. Water
Maximum speed revolutions per minute	700	550	500	450	450
Piston displacement, cubic feet per minute, maximum rating	6	12.2	23	44	44
Horsepower required at 100 pounds air pressure	1.3	2.5	4.35	8	8
Belt wheel diameter, inches	12	16	20	24	24
Belt wheel face, in.	2¼	3¼	4½	5½	5⅜
Weight, pounds	70	155	310	575	505

*Not carried in stock; will ship from factory.

G. & J. WEIR, LTD., Cathcart, GLASGOW.

Spécialistes en machines auxiliaires.

Fournisseurs des Ministères de la Marine et de la Guerre Britanniques, ainsi que les Gouvernements de la Belgique, du Brésil, du Chili, de la Chine, du Danemark, de la France, de la Grèce, de la Hollande, de l'Italie, du Japon, de la Norvège, de la Roumanie, de la Russie, du Siam, de l'Espagne, de la Suède, des Etats-Unis d'Amérique, de la République Argentine, etc.



A—Feed Heater.
B—Pump.
C—Spray Valve.
D—Exhaust Steam to Heater.
E—Pump Suction.
F—Pump Discharge to Heater.
G—Discharge, Heater to Boiler.
H—Steam to Heater.
J—Exhaust, Pump to Heater.

A—Réchauffeur d'eau d'alimentation.
B—Pompe.
C—Pulvérisateur.
D—Vapeur d'échappement au réchauffeur.
E—Aspiration de la pompe.
F—Refoulement de la pompe.
G—Sortie de l'eau du réchauffeur.
H—Vapeur au réchauffeur.
J—Vapeur d'échappement de la pompe au réchauffeur.

SYSTEME "WEIR" d'Alimentation de Chaudières et de Rechauffage d'Eau d'Alimentation pour Locomotives.

L'accroissement de rendement demande aux locomotives aujourd'hui, ainsi que la necessité de réaliser le maximum d'economie de combustible, ont amene les ingenieurs a accorder une attention spéciale aux problemes de l utilisation de toutes les unités de chaleur perdue. La plus grande proportion de la chaleur inutilisée est perdue dans la vapeur d'echappement, et la moindre partie de cette chaleur que l'on peut arriver a employer represente une economie directe de combustible. De nombreux essais ont ete faits en vue d'appliquer des systemes de rechauffage d'eau d'alimentation aux chaudieres de locomotives, et une analyse de ces diverses tentatives prouve que les echecs ont ete dûs aux modeles peu satisfaisants des rechauffeurs d'eau d'alimentation, et à l'incapacite de l'injecteur, et des types de pompes alimentaires indépendantes employes jusqu'ici pour refouler l eau chaude d'une manière satisfaisante.

Se basant sur leur longue expérience dans les questions de rechauffage d'eau d'alimentation et de construction de pompes, MM. G. & J. Weir, Ltd, ont concentre leurs efforts sur l étude d'un systeme de rechauffage d'eau d'alimentation de locomotives, systeme qui a vaincu toutes les difficultes rencontrees jusqu'a present. Le pourcentage d'economie realise par le systeme "Weir" varie naturellement d apres les conditions, mais les résultats obtenus avec installations en service regulier indiquent une economie directe de 8 a 12 pour cent, a laquelle vient s'ajouter une economie qu'il est difficile de calculer, et qui resulte dans l'amelioration de la production de vapeur et du fonctionnement de la chaudiere.

Les avantages du systeme "Weir" sont les suivants :—En employant de l'eau d'alimentation à une temperature inferieure à 15.5 degres centigrade dans le tender pour tous types de locomotives faisant usage de vapeur saturee ou surchauffee, on obtient, pour le même travail de la locomotive, une économie de combustible de pas moins de 10 pour cent., ou alternativement, pour une consommation egale de combustible, une augmentation de puissance d'evaporation de la chaudiere de 10 pour cent.; la pompe alimentaire procure un degré de flexibilité et de sureté d'alimentation qu aucun injecteur d'alimentation ne peut atteindre, une diminution generale de reparations de chaudiere et de frais d entretien ; et une augmentation tres marquee de rendement des locomotives, surtout pour un service dur.

Les gravures representent la pompe alimentaire verticale "Weir" pour locomotives, et un diagramme du systeme "Weir" appliqué a une locomotive moderne. Si on le desire, il peut être fourni des pompes du modele horizontal.

Le systeme "Weir" a été fourni à 30 des plus importantes compagnies de chemins de fer du monde entier, entre autres : Bombay, Baroda, and Central India Co. ; the Egyptian State Railways ; London, Brighton and South Coast Railway ; Great Indian Peninsula Railway ; Union of South Africa Railway ; Midland Railway ; Great Eastern Railway ; Antofogasta and Bolivia Railway, etc.

Des renseignements et dessins pour toutes installations speciales seront fournis sur demande.

GALVANIZED WELL BUCKETS

RIVOMIC Red banded, well, 26 gauge iron, galvanized.

Full Half-Dozen Bundles

Nos.	NN102	NN122
Quarts	10	12
W't per doz., lbs.	36	42
Per dozen	$11.00	11.50

Less Than Bundles

Nos.	N102	N122
Per dozen	$11.00	11.50

Capacity 10 qts., w't per doz. 29 lbs.

No. NN101—Full half dozen bundles, per dozen $6.50

No. N101—Less than bundles, per dozen $6.50

GALVANIZED STOCK PAILS

Full Half Dozen Bundles.

Nos.	NN616	NN618
Quarts	16	18
Size, in.	13½×9½	14½×9½
W't doz. lbs.	35	39
Per dozen	$9.00	10.00

Less Than Bundles.

Nos.	N616	N618
Per dozen	$9.00	10.00

GALVANIZED CEMENT PAILS

Extra heavy, galvanized, with special riveted ears and heavy bail, double braced bottom, size 12x10½ in., 14 qt., w't per doz. 80 lbs.

WITHOUT TOP HOOP

No. NN147—Full half dozen bundles, per dozen $19.20

No. N147—Less than bundles, per dozen $19.20

WITH TOP HOOP

No. NN1147—Full half dozen bundles, per dozen $24.00

No. N1147—Less than bundles, per dozen $24.00

GALVANIZED FIRE PAILS

Round bottom, lettered for fire only. Either plain galvanized or painted red outside.

12 Qt., 10½x10½ In., W't Per Doz. 32 Lbs.

Galvanized

No. NN212—Full half dozen bundles, per dozen $7.00

No. N212—Less than bundles, per dozen $7.00

Red.

No. NN212R—Full half dozen bundles, per dozen $8.40

No. N212R—Less than bundles, per dozen $8.40

Conical, lettered for fire. Either plain galvanized or painted red outside.

12 Qt., W't Per Doz. 23 Lbs.

Galvanized

No. NN213—Full half dozen bundles, per dozen $10.00

No. N213—Less than bundles, per dozen $10.00

Red.

No. NN213R—Full half dozen bundles, per dozen $12.00

No. N213R—Less than bundles, per dozen $12.00

GALVANIZED WELL BUCKETS

REVONOC Red banded, well, 26 gauge iron, galvanized.

Full Half-Dozen Bundles

Nos.	NN102	NN122
Quarts	10	12
W't per doz., lbs.	36	42
Per dozen	$11.00	11.50

Less Than Bundles

Nos.	N102	N122
Per dozen	$11.00	11.50

Capacity 10 qts., w't per doz. 29 lbs.

No. NN101—Full half dozen bundles, per dozen $6.50

No. N101—Less than bundles, per dozen $6.50

GALVANIZED STOCK PAILS

Full Half Dozen Bundles.

Nos.	NN616	NN618
Quarts	16	18
Size, in.	13½×9½	14½×9½
W't, doz. lbs.	35	39
Per dozen	$9.00	10.00

Less Than Bundles.

Nos.	N616	N618
Per dozen	$9.00	10.00

GALVANIZED CEMENT PAILS

Extra heavy, galvanized, with special riveted ears and heavy bail, double braced bottom, size 12×10¼ in., 14 qt., w't per doz. 80 lbs.

WITHOUT TOP HOOP

No. NN147—Full half dozen bundles, per dozen $19.20

No. N147—Less than bundles, per dozen $19.20

WITH TOP HOOP

No. NN1147—Full half dozen bundles, per dozen $24.00

No. N1147—Less than bundles, per dozen $24.00

GALVANIZED FIRE PAILS

Round bottom, lettered for fire only. Either plain galvanized or painted red outside.

12 Qt., 10¼×10¼ In., W't Per Doz. 22 Lbs.

Galvanized

No. NN212—Full half dozen bundles, per dozen $7.00

No. N212—Less than bundles, per dozen $7.00

Red.

No. NN212R—Full half dozen bundles, per dozen $8.40

No. N212R—Less than bundles, per dozen $8.40

Conical, lettered for fire. Either plain galvanized or painted red outside.

12 Qt., W't Per Doz. 23 Lbs.

Galvanized

No. NN213—Full half dozen bundles, per dozen $10.00

No. N213—Less than bundles, per dozen $10.00

Red.

No. NN213R—Full half dozen bundles, per dozen $12.00

No. N213R—Less than bundles, per dozen $12.00

GALVANIZED WATER PAILS

REV-O-NOC—Made of Tight Galvanized, Copper Bearing Rust Resisting Steel, and thoroughly soldered these pails are easiest kept clean, and longest lived, making them superior to all for scrub and general purpose pails.

REV-O-NOC RED BANDED

26 Gauge, Galvanized, Seams Soldered, Riveted Ears, Heavy Bail, Wood Grip. Full Dozen Bundles.

Nos.	NN6108	NN6120	NN6140	NN6160
Size, in.	10×9½	11×9½	11½×9½	12×10½
Quarts	8	12	14	16
W't per doz., lbs.	37	40	41	45
Per dozen	$11.50	12.60	13.50	14.40

Less Than Bundles.

Nos.	N6108	N6120	N6140	N6160
Per dozen	$11.50	12.60	13.50	14.40

CRUSO MEDIUM WEIGHT

Extra quality competition galvanized after made up.

Full Dozen Bundles

Nos.	NN1312	NN1314
Quarts	12	14
Size, in.	11×10	11½×10½
W't per doz., lbs.	32	34
Per dozen	$8.40	9.00
Nos.	**NN1316**	**NN1318**
Quarts	16	18
Size, in.	11½×11	12½×11½
W't per doz., lbs.	37	47
Per dozen	$9.60	11.00

Less Than Bundles

Nos.	N1312	N1314
Per dozen	$11.00	12.10
Nos.	**N1316**	**N1318**
Per dozen	$8.40	9.00

COMPETITION GRADE

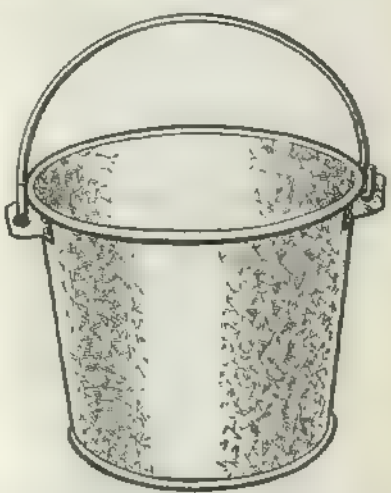
Galvanized after made, wrought ears, wire bail.

Full Dozen Bundles

Nos.	NN8	NN10	NN12
Quarts	8	10	12
Size, in.	10×8½	10½×9	11×10
W't doz., lbs.	18	24	26
Per dozen	$4.00	4.50	5.00
Nos.	**NN14**		**NN16**
Quarts	14		16
Size, in	11½×10½		11½×11
W't per doz., lbs.	27		29
Per dozen	$5.50		7.20

Less Than Bundles

Nos.	N8	N10	N12
Per dozen	$6.50	7 60	8 25
Nos.		**N14**	**N16**
Per dozen	$4.00	4.50	5.00



EXTRA HEAVY

Galvanized after made, with heavy bail and wing ears.

Full Dozen Bundles

Nos.	NN512	NN514
Quarts	12	14
Size, in.	11½×9½	12×10
W't per doz., lbs.	42	48
Per dozen	$9.60	10.80
Nos.	**NN516**	**NN520**
Quarts	16	20
Size, in.	13×11	12¾×12½
W't per doz., lbs.	51	56
Per dozen	$12.00	13.20

Less Than Bundles

Nos.	N512	N514
Per dozen	$14.30	15 95
Nos.	**N516**	**N520**
Per dozen	$9.60	10.80

*GASOLINE OUTFITS
NON-MEASURING

This outfit is designed especially to meet the need for a gasoline outfit for the private garage owner. It is durable, efficient and of extraordinary merit.

The pump is of the standard non-measuring, lift handle design. Made largely of brass with valves carefully ground and all parts fitted by expert workmen.

It works easily and discharges almost a steady stream. It stands over two feet high on a substantial base and is fitted with a non-drip faucet, lock and key.

The underground tank to be used in connection with this pump is made of galvanized steel and is fitted with fill pipe having automatic valve, lock, removable strainer and inner tube.

Type 9. Non-measuring pump only without tank or hose, weight 50 pounds ..... each, **$16.00**

Type 9. With 120 gallon tank, weight 150 pounds, each, **61.00**

10 Ft. ¾ Inch Gas Hose with portable nozzle..... each, **17.00**

SELF MEASURING

Standard Inside Outfit

A convenient system for drawing gasoline within the building where it is used, the storage tank being placed on the outside or under the floor.

The pump is of easy action, standard self measuring design, having adjustable stops for gallons, half gallons and quarts

It is built of the best materials and is very sturdy. Is regularly equipped with discharge register counting to ten, non-drip faucet, lock and key

The tank is of the famous Milwaukee "Kant-Leek" construction and is provided with interior suction pipe with outside connections, double foot valves for holding the line full of liquid, fill pipe with inner tube, strainer, fill cap with removable strainer, automatic vent valve, gauge stick and lock. All gasoline tanks bear underwriters' label.

Type 33. Self measuring pump only, without tank or hose, weight 100 pounds..... each, **$112.00**

Type 33. With 60 gallon tank, weight 150 pounds ..... each, **144.00**

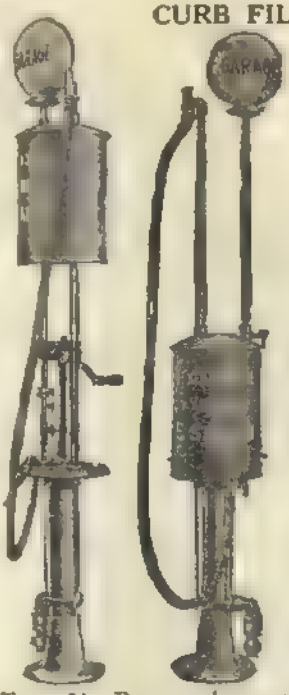
Type 33. With 120 gallon tank, weight 200 pounds.. ..... each, **158.00**

Type 33. With 280 gallon tank, weight 375 pounds. ..... each, **216.00**

10 Ft. Gasoline Hose with nozzle..... **23.00**

*Not carried in stock; will ship from factory.

*GASOLINE OUTFITS
CURB FILLING STATION



With Electrically Illuminated Sign

A speedy, accurate gasoline curb outfit which is very attractive and entirely satisfactory.

The pump is of the standard self measuring design having instantly adjustable stops for one gallon, half gallon and quart. A discharge register is furnished which automatically counts ten.

When pump is in use the cover is held suspended by a spring latch and when not in use the cover can be lowered and securely locked, preventing meddling and enclosing all operating parts, including the filling nozzle on the end of the hose.

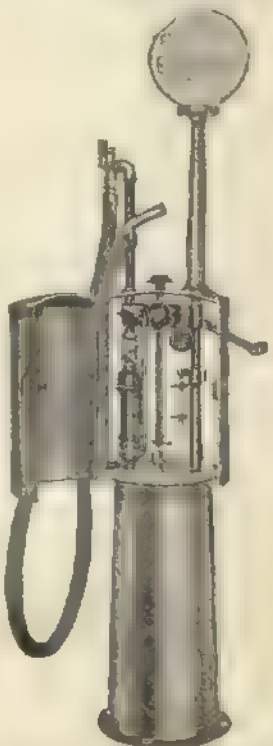
The pump works remarkably easy and delivers a heavy stream.

Ten feet of special gasoline hose with portable fill nozzle is included. A hose draining valve empties the hose instantly after pumping ceases.

The tank is of the Milwaukee "Kant-Leek" construction and has all the desirable conveniences.

Type 34. Pump only, no tank, weight 180 lb....each, **$153.00**
Type 34. With 120 gallon tank, weight 280 lb.. each, **202.00**
Type 34. With 280 gallon tank, weight 390 lb....each, **247.00**
Type 34. With 550 gallon tank, weight 630 lb...each, **363.00**
Gallon Recording Meter.....each, **28.00**
Gasoline Filter **19.00**

ROADWAY FILLING STATION



This is a very speedy and extremely accurate outfit and at the same time an attractive trade getting installation.

The pump is of the standard self measuring design with the usual stops. A gallon recording meter is provided which keeps accurate count of gasoline pumped up to 100,000 gallons and then repeats, but cannot be set back

A discharge register, counting to ten records individual sales. An efficient filter is built into the outfit. Ten feet of special gasoline hose with portable fill nozzle is provided for filling directly into the car.

The tank is of the Milwaukee "Kant-Leek" construction and is equipped with fill pipe having automatic vent valve, lock and key, inner tube and removable strainer. A measuring gauge is included. An interior suction pipe having special foot valve is also furnished.

Electric sign is an extra, priced separately.

Type 37. Pump only, no tank, weight 225 lb. . each, **$262.00**
Type 37. With 120 gallon tank, weight 325 lb . each, **313.00**
Type 37. With 280 gallon tank weight 435 lb each, **403.00**
Type 37. With 550 gallon tank, weight 675 lb...each, **512.00**
Electric Sign. Weight 20 pounds . . each, **15.00**

*Not carried in stock; will ship from factory.

*GASOLINE OUTFITS

ROADWAY FILLING STATION

Rapid Delivery Five Gallon Continuous Motion Speed Pump

This outfit provides the fastest hand operated method of filling motor cars and is the very next thing to an electric pump in speed.

Without any special effort on the part of the operator, a speed of 15 gallons per minute is attained.

The pump is handsomely finished in a hard baked enamel with nickel trimmings. Adjustable measuring stops enable the operator to draw accurately one, two, three, four or five gallons at a single stroke. The measuring stops can be sealed to prevent tampering with the measuring device.

Slightly over twelve turns of the crank delivers five gallons. To return the plunger, only two revolutions of the crank in the same direction are necessary. The crank handle is always turned forward—never backward.

A gallon recording meter keeps an accurate record of every gallon pumped, up to million gallons, then repeats and cannot be set back. It is included without any extra charge.

A very large discharge register indicates each gallon pumped up to 20 and is set back to zero before starting.

A large and efficient filter is provided which removes any particles of water or dirt which may be in the gasoline.

When not in use, the cover is raised and securely locked with the hose nozzle inside. Thus neither the hose nor the mechanism can be tampered with by unauthorized persons

Standard equipment with no extra charge includes the meter, filter, 10 foot 1¼ inch metal hose with portable filling nozzle and electrically illuminated sign.

The tank is built by the "Kant-Leek" process of galvanized Apollo steel and carries the underwriters' label. It is fitted with fill pipe having automatic vent valve, lock, removable strainer and inner tube. A measuring stick is included. The interior suction pipe is provided with special double foot valves which insure the accuracy and continued priming of the pump.

Type 36. Pump only with electric sign, weight 345 pounds .....each, **$386.00**

Type 36. With 280 gallon tank, weight 735 pounds.....each, **508.00**

Type 36. With 550 gallon tank, weight 1150 pounds.....each, **629.00**

Type 36. With 820 gallon tank, weight 1450 pounds.....each, **674.00**

Type 36. With 1075 gallon tank, weight 1720 pounds .....each, **757.00**

NOTE—Type 36 can be furnished with motor drive. Control, fast or slow, is readily accomplished, making a perfect filling pump of accuracy and durability.

*Not carried in stock; will ship from factory.

*LUBRICATING OIL OUTFITS

SELF MEASURING

Designed for storage of lubricating oil in garages, stores or factories, affording a means of accurate measuring both clean and durable.

The pump has adjustable stops for quarts, pints or half pints. Is equipped with a non-drip faucet and is handsomely finished in black enamel.

The tank is of heavy metal solidly welded into one seamless piece avoiding all leakage. It is very durable under rough usage.

A float measuring gauge is provided. The filling basin is fitted with removable strainer, grate and dust proof cover. The tank is green enameled.

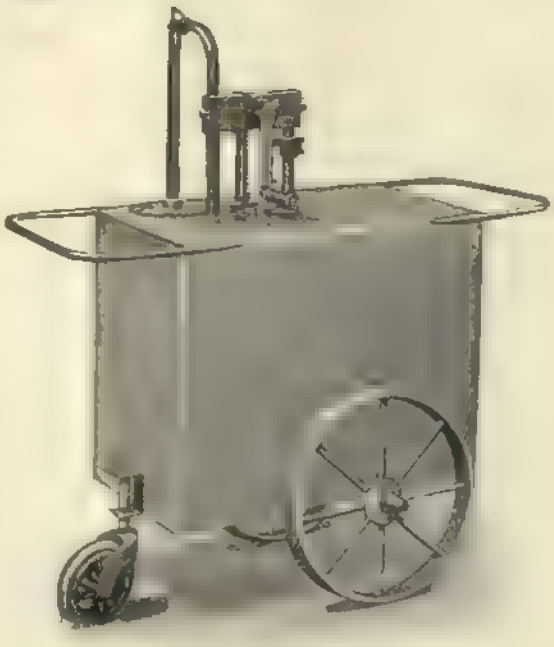
A detachable portable wheel base is furnished as an extra only.

The tank measures 35 x 24 inches.
Capacity 55 gallons.
Shipping weight 125 pounds.

Type 12. As described....each, **$51.00**

PORTABLE TANK BASES

For style 12 tanks.....each, **$10.00**



*PORTABLE WHEEL OIL TANKS

An economical and absolutely safe method of handling oil at various parts of a building or at the curb. Designed for use in garages, factories and railroad shops. The wheels are large and it is easily moved about. There is a brake supplied to hold it stationary.

The tank is a one piece seamless "Kant-Leek" and is equipped with a fill basin and magnetic gauge. Finished in olive green enamel.

The pump is self measuring with usual stops. Complete with non-drip faucet, lock and key.

Type 62. Holds 60 gallons, weight 375 pounds..each, **$140.00**

*Not carried in stock; will ship from factory.

GEO. KENT, Ltd., 119, HIGH HOLBORN, LONDON, W.C. 1.

Codes: Lieber, Engineering, A.B.C. (5th Edition).
Telegrams: "Kentobin, London."
Telephone: Museum, 4262.
Works: LUTON, BEDS., ENGLAND.

The Centrifugal CLEAR VIEW SCREEN.

FIG. 1.

This apparatus provides a look-out window through which a PERMANENTLY CLEAR VIEW may be obtained either with the naked eye or with binoculars IN SPITE OF RAIN, SNOW OR FLYING SPRAY.

In the ordinary way using binoculars in bad weather is unsatisfactory; in the open they are soon put out of action by the lenses becoming blurred; behind a window they are useless on account of rain or spray streaming down the glass.

By means of a rapidly revolving glass disc driven by a small electric motor, rain, snow or spray is instantly thrown off, and perfect transparency is maintained.

Made in two patterns—the Hood Pattern, as illustrated in Fig. 1, and the Window Pattern, as shown in Fig. 2.

The Hood Pattern is self-contained and forms a revolving shelter. This pattern can be fixed in any convenient position aboard ship, and commands an all-round view.

The Window Pattern, fixed in a suitable frame, is mounted in a window of the Wheel House, or other suitable position.

In use on largest steamship lines.

FIG. 2.

PRICE of the HOOD PATTERN, complete with electric motor, which is fixed inside the pillar - £48 10s. f.o.b English Port. All that is necessary to install this type is to run the wires to the motor and fix the standard by means of ordinary coach-screws.

WINDOW PATTERN. Complete with electric motor - £32 f.o.b. English Port.

PARAVENT CENTRIFUGE A VUE CLAIRE

Cet appareil consiste en une fenêtre extérieure à travers laquelle on obtient une vue toujours distincte, soit à l'œil nu, soit au moyen de jumelles EN DÉPIT DE LA PLUIE NEIGE OU DES EMBRUNS.

L'usage de jumelles par mauvais temps ne donne pas satisfaction. A l'extérieur, les verres sont très rapidement recouverts de buée, et cette dernière intercepte la vue, lorsqu'on est protégé par une fenêtre ordinaire les jumelles ne servent plus à rien à cause de la pluie ou des embruns qui coulent le long des verres.

A l'aide d'un disque en verre tournant rapidement sous l'action d'un petit moteur électrique la pluie la neige ou les embruns sont immédiatement rejetés, et l'on conserve une transparence parfaite.

Se fait en 2 modèles: le modèle à capote, représenté par la gravure 1 et le modèle pour fenêtre représenté par la gravure No 2.

Le modèle à capote forme un dispositif indépendant et constitue un abri pivotant. Ce modèle peut être fixé à n'importe quel endroit d'un bateau et permet de regarder dans toutes les directions.

Le modèle pour fenêtre, fixé dans un cadre approprié, peut être monté dans une des fenêtres de la timonerie ou à tout autre position convenable.

En usage sur les plus grandes lignes de navigation.

Prix du modèle à capote complet, avec moteur électrique fixé dans le pilier: Frs 1212,50 f.o.b. port anglais.

Pour installer ce type, il suffit de relier les fils au moteur et de fixer le pied au moyen de tire-fonds ordinaires.

Prix de modèle pour fenêtre complet avec moteur électrique: Frs 800 f.o.b. port anglais.

PARAVIENTOS DE VISTA CLARA CENTRÍFUGOS.

Este aparato constituye una ventana ó vidriera que proporciona una vista clara permanente bien á simple vista ó valiéndose de anteojos ó binoculares á pesar de la lluvia de la nieve ó espuma del mar.

En el uso general el empleo de binoculares en mal tiempo dá poca satisfacción, al aire libre, pues á menudo no funcionan á la perfección por empañarse las lentes. Detrás de una vidriera ó ventana son generalmente inútiles á causa de la lluvia ó del rocío que corre por el cristal.

Por medio de un disco de cristal que gira rápidamente y que está accionado por un motor eléctrico desaparece instantáneamente la lluvia la nieve ó el rocío quedando siempre el cristal mantenido así una transparencia perfecta.

Se construye en dos modelos, el tipo "Hood" ó de capota como se muestra en la figura 1 y el tipo ventana, ilustrado en la Fig. No. 2.

El modelo de capota "Hood" es autocontenido y forma un refugio giratorio. Este modelo puede colocarse en cualquier posición que se desee abordo del navío y contiene una vista clara en todo al rededor.

El modelo de vidriera o ventana fijo en un bastidor apropiado va montado en una vidriera de la timonera ó en otra posición conveniente.

En uso en los mas grandes líneas de navegación.

Precio del modelo de capota o "Hood" completo, con motor eléctrico que se suministra fijo en el interior del pilar £48 10s. f.a.b. en puerto inglés.

Todo lo que es preciso para instalar este modelo es hacer los alambres al motor y fijar el pedestal por medio de tirafondos ordinarios.

Modelo de vidriera o ventana. Completo con motor eléctrico £32 f.a.b. puerto inglés.

"CUM-BACK" TOY

F2976—2¼x2¼ in. tin ends, litho cardboard body; when rolled on floor or down incline it returns. 1 doz. in box..... Doz **78c**

CELLULOID RETURN BALL

F4449—2 in combination pink & white, blue & white etc., attached long elastic. Asstd. 2 doz. in box. (Total 48c) Doz **42c**

WOOD PERFORMING FIGURES

Boxers—3½ in. painted figures, movable arms on 4¾x1 in. green platform, by working buttons men box naturally
F3678—1 doz. in box.
Doz. **$1.10**

Punching Bag Toy—4¾ in painted athlete, movable arms on 6½x1½ green wood platform, brown wood bag suspended on wire, upright athlete punches bag when button is pressed
F3679—1 doz. in box.
Doz. **$1.10**

FAST SELLING PENNY NOVELTIES

Cigar Whistle—4 in. brown tissue paper covered cardboard, red band
F3552—1 gro. in box. Gro. **76c**

F3551 F3001

Pewter Bird Whistle—1¾ in. extra loud noise, pewter bird on top
F3551—1 gro in box. Gro **82c**
Cricket Asstd. green and gold embossed tin, imitates cricket.
F3001 Asstd. 1 gro. in box.
Gro. **80c**

Western Jumpers—1 in. red and green loaded celluloid capsules, turn over & jump.
F3014—1 gro. in box... Gro **85c**

Toy Watch—1½ in metal case, stamped winder and printed paper dial
F3023—1 gro in box. Gro **67c**

Putty Blower 8½ in. bright heavy tin wood mouthpiece.
F3012—½ gro. in pkg. Gro **98c**

Wood Whistle—5½ in. turned and polished wood stained, with grip, makes loud noise
F3007—1 gro. in box... Gro **98c**

Police Whistle—1¾ in., shaped mouthpiece, heavy metal, shrill call
F3252—½ gro. in box.
Gro. **$1.10**

"MAR JEAN" TOY WATCHES On Hanging Display Cards

F3819—1¾ in nickel plated case, printed round dial, oval celluloid face, nickeled chain with lapel button 4 doz. on hanging display card in pkg. ..... Doz. **36c**
(Total 70c)

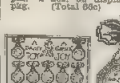
F3815—1 in. octagon gilt case, printed high luster dial, black patent leather strap, gilt buckle 2 doz. on display card in pkg (Total 75c) Doz. **38c**

F3826—1¾ in. octagon embossed gilt case, auto and airplane design on back, printed dial, celluloid face 7¾ in. leather fob with gilt ornament 1 doz. on display card in pkg. . . . . Doz. **66c**

F3816—1¾ in. octagon, embossed gilt case, printed dial, celluloid face, long fine link gilt neck chain 1 doz on hanging display card
Doz. **75c**

TOY WATCHES WITH CHATELAINE PINS On Display Cards

F3811—1 in octagon gilt case, high luster printed dial, gilt chatelaine pin. 4 doz. on display card in pkg. (Total 60c) Doz. **33c**



F3826—1¾ in. octagon fancy embossed gilt case, printed dial celluloid face, dove design chatelaine pin. 1 doz on display card in pkg.
Doz. **45c**

TOY WRIST WATCHES On Display Cards

F3824—1¾ in. round nickel plated case, protected dial with celluloid face, sun bevel white dial, adjustable khaki cloth strap. 1 doz. on display card ..... Doz. **36c**

F3818—1¼ in., round gilt case, printed dial, solid color French ivory case, red, white and blue, leather straps with nickel buckles. 1 doz on display card in pkg. 3 doz in pkg (Total $1.14) Doz **38c**

RED PAINTED WOOD CHAIRS AND ROCKERS

Painted bright red, varnished and striped crocks. F640. Well made and finished. Packed in heavy shipping cartons which prevents breakage and insure safe delivery.

F641—Rocker, 12 in. seat (to) ½ in. ½ doz in carton, 9 lbs.
Doz. **$3.75**

F644 F645

Chair and Rocker—Ht. 19 in., seat 9½ in., ht. from floor, 9 in. ½ doz. in carton.
F644—Chair Doz **$6.00**
F645—Rocker **6.75**

WIRE TABLE

Very strong and substantial—practically indestructible.

F746—Top 9x16, ht. 17¾ in. oxidized brass finish steel wire base. 5 ply veneer, oak finish top 2 in. bdr. 14 lbs.
(Total $5.00) Each. **$2.50**

UT-TO-DATE TRANSFER PICTURES

Excellent colorings, guaranteed to transfer. 15 pictures on 8½x13¾ sheets 12 sheets on display card

Fruits, Animals and Historical Topics—6 styles, birds, animals, fruits, tutti-frutti, historical events and brass buttons
F3006—Asstd 1 gro in pkg
Gro. **89c**

Circus and "Humpty Dumpty" Subjects—8 styles, daddies, Mom kids circus, Riddle Rag fields, kid sports and Humpty dumpty
F3001—Asstd 1 gro in pkg
Gro **89c**

RED ENAMELED TOY TABLES

Bright red painted, highly varnished, substantial throughout. Shipped K. D. in crates.

Twisted Legs, Plain Top—
F373—Top 14x10, ht. 10½ in. ½ doz. in crate ..... Doz **$4.25**
F374—Top 17x13, ht. 13 in. ½ doz. in crate . . . .Doz **$8.00**

Turned Legs, Stenciled Top—knob drawer opens
F375—Top 21x18, ht. 18 in. ½ doz. in crate. . . Doz **$19.00**

GIBBS' WELL KNOWN STEEL TOYS

The prices we name on the well known high quality Gibbs' toys are the lowest you can find anywhere

GIBBS' FAMOUS AUTOMATIC TOPS

All metal tops with automatic spring winders

F2423—(Mfrs. 1). "Old Glory" 5 in. circum. red, white and blue enamel striped, white stars, spins on either end. 2 doz. in box.
(Total $1.60) Doz. **75c**

F2425—(Mfrs. No. 2) Merry whir humming, yellow enameled steel bodies with variegated striped cardboard whirlwinds when placed against tops revolve with hum. 1 doz in box. Doz. **$1.35**

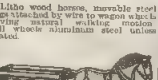
F2427—(Mfrs No 12 "Dixie Dancers" humming, 10 in circum yellow enameled steel bodies with vari color stripes spins bottoms bounce with dancing motion 1 doz in box.
Doz. **$1.35**

F2424—(Mfrs. 13) Never stop humming, 10 in. circum., red, white blue and yellow enamel striped. Runs when spinning. 1 doz. in box.....Doz. **$1.15**

F2426—(Mfrs. 14.) "Rainbow" humming, 10 in. circum., blue, white, and yellow enamel striped top, with red yellow black, blue and green discs, produces beautiful color effects 1 doz. in box
Doz. **$1.35**

F2428—(Mfrs. No. 21) Musical, gird 12½ in. very deep body ½ doz. in box
Doz.

GIBBS' WALKING HORSE WITH CART



Litho wood horse, movable steel legs attached by wire to wagon wheels giving natural walking motion. All wheels aluminum steel unless noted.

F2501—Pacing Bob, (Mfrs. 20) Length 17½ in., ht. 9½ in., red enameled wood cart 4 doz. in box
Doz **$4.00**

GIBBS' DERBY RIDER PUSH TOY

F2516—Mfrs. 25. Length 8½ in. 7½ in. finished with 8 bright enameled colors, wood body horse, metal spoke wheels legs and all in swing arms 24 in wood handle Horse steps at a brisk pace when pushed along floor ½ doz in box
Doz. **$4.00**

GIBBS' STEEL TOY WAGONS

Aluminum wheels front wheels turn under

F2523—(Mfrs. 25). E. N. Daisy Express Steel, 9½x5½ in. red enameled outside yellow inside

F2522—(Mfrs. 20) Fairy hay wood, 10x5 in., red enameled

OUR GUARANTEED PRICES Make Buying Easier for YOU.

MECHANICAL & AUTOMATIC TOYS

As long as there are children there will be playthings—playthings not only during the holidays but all the year, and Automatic toys with their strong appeal are well adapted to keep your toy department humming 12 months of the year.

TOY STEEL AUTOS

Auto Assortment—8 styles, limousine grocery wagon and ambulance, litho in 6 colors, 6x3x3½
F2563—Assrtd 4 doz. in box. ..Doz. 84c

Mechanical Toy Autos—Bright litho body open spoke wheels attached by key, strong motor, sprung, chauffeur, runs straight or in a circle.
F2248—6x3x3 in 1 doz. in box
Doz. $1.35
F2247—8x2 1/2x3 1/2 in ½ doz. in pkg
Doz. $2.75

TOY STEEL TELEPHONE

F2561 Ht. 7 in., red and black enameled, adjustable mouthpiece, 3½ in. receiver, long string. 1 doz. in box. .Doz. 84c

TOY "PLAPHONE"

F2564—Ht. 9 in. 3½ in. nickel plated base, black enameled tube, receiver and adjustable mouth piece, nickel plated bell. Bell rings by moving receiver up and down. Heavy green insulation wire 6 doz. in box
Doz $8.00

"PANAMA" MARBLE OPERATED AUTOMATIC PILE DRIVER

F2674—"Panama," ht. 17 in., heavy steel chute, imit pile driver, marble receiver and frame, bright enameled, 18 in. green and red chute with yellow lettering, black and yellow imitation pile driver, green marble receiver easy running pulleys and weight. Complete with marbles. ¼ doz. in box
Doz. $5.25

NOVELTY "SAND BOAT" WAGON

F2815—Ltd½ in., blue painted, gilt trimmed, boat shape, 5 in. red disc wheels, steel axles, 24 in. double snap-on wire handle, red shovel, each in box. ¼ doz. in pkg
Doz. $4.25

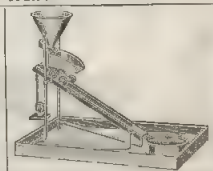
NOVELTY BUTTERFLY STEEL TOYS

Steel litho wings move when pushed along floor, green disc wheels, 2½ in. wood handle

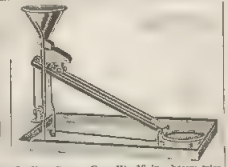
	Wings	Wheels	In Pkg.	Doz.
F2355	4½ in.	2 in.	½ doz.	$0.97
F2356	6½	3	¼	2.10

SAND OPERATED AUTOMATIC TOYS—All sand toys in cardboard boxes that can be used as trays.

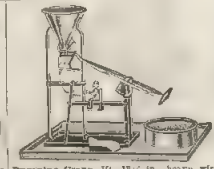
"Dumping Sandy"—Ht. 14 in., heavy steel frame hopper and car, footed base, 4x4 in. red and green enameled hopper, 4 in. blue and white enameled car. Complete with scoop and can of sand.
F2899—½ doz. in box.....Doz. $6.90



"Sandy Andy"—Ht. 12 in., heavy wire frame and uprights, steel hopper and car, 4 in. red and green enameled hopper, 5 in. green enameled car, 4 in. yellow base and green enameled. Complete with can of sand.
F2854—½ doz. in box ....Doz $7.00



Incline Dump Car—Ht. 18 in., heavy wire frame and uprights, steel hopper, incline and car, 18 in. red and green enameled hopper, 5 in. green enameled refined incline, 5 in. yellow base and green enameled car, complete with large can of sand.
F2497—¼ doz. in box. .. Doz. $10.26



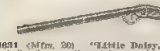
Dumping Crane—Ht. 18½ in., heavy wire frame, heavy steel hopper, buckets, man and base, 5 in. green and red enameled hopper yellow and blue enameled bucket, enameled man, red and green enameled base. Complete with box of sand
F2894—½ doz. in box.....Doz. $10.25

AIR RIFLES AND TOY FIREARMS

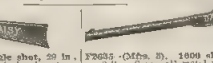
We first demanded quality then we demanded price from the manufacturer—we got both and here the results are shown in well known dependable goods at prices not touched by any other jobber.

THE FAMOUS "DAISY" AIR RIFLES

The following numbers represent the best sellers from the well known "Daisy" line. All models will shoot either air rifle shot or darts, except F2631, which is for shot only. All with walnut stocks and accurately sighted



F2631 (Mfrs. 20) "Little Daisy," single shot, 29 in., 1 lb. 7 oz., all metal parts blued steel, breat action. ½ doz. in pkg
Doz. $7.20

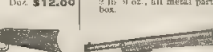


F2635 (Mfrs. 5). 1000 shot, automatic repeater 36 in., 2 lbs., 6 oz., all metal parts polished nickel steel lever action. 1 in box .....Each, $2.00

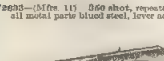
F2632—(Mfrs. 12). Single shot, 31½ in., 1 lb. 8 oz., nickel plated barrel, blued steel, lever action. ½ doz. in pkg
Doz. $12.00

F2636—(Mfrs. 33) 1000 shot, automatic repeater, 36 in., 2 lb. 9 oz., all metal parts blued steel, lever action. 1 in box .....Each, $2.25

F2633—(Mfrs. 11) 350 shot, repeater, 31½ in., 1 lb. 11 oz., all metal parts blued steel, lever action. ½ doz. in pkg
Doz. $16.00



F2637—(Mfrs. 25). New pump action, 50 shot automatic repeater, 37 in., 3½ lbs., all metal parts blued steel, adjustable rear sight. 1 in box .....Each, $3.33



F2634—(Mfrs. 30) 500 shot, automatic repeater 33 in., 2 lb. 7 oz., all metal parts blued steel lever action. 1 doz. in pkg
Doz. $20.00

F2638—(Mfrs. 40) Military model, 50 shot, length with bayonet 46 in., 3½ lbs., all metal parts blued steel lever action, fitted carry with sling swivels and bayonet with barrel rubber tip, heavy canvas shoulder strap with adjustable buckle and fasteners. 1 in box
Each, $3.33

"UPTON" AIR RIFLE—Gun Metal Finish

Guaranteed against all defects of materials and workmanship.

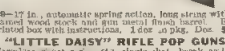
F2621 Single shot military air rifle, spring action, length 37 in., automatic safety device, prevents recoil or discharge unless trigger is pulled, 1 in box
Each, $1.00

AIR RIFLE SHOT

Drop Shot

Boy Scout "Dip" Shot—2 in. ½ in. shell tube with perforated side sliding base to permit shot to be taken out one at a time, 4 oz. of shot.

TARGET AUTOMATIC POP GUN

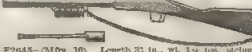


F2639—17 in., automatic spring action, long string with cork stained wood stock and gun metal finish barrel, packed in printed box with instructions, 1 doz. in pkg. Doz. $2.25

"LITTLE DAISY" RIFLE POP GUNS

Have lever action, single shot, break action all metal parts blued steel walnut stock, snap with cork and string.

F2643—(Mfrs. 10), 17 in., ½ doz. in carton ...Doz. $3.20



F2645—(Mfrs. 16). Length 31 in., wt. 3¼ lbs. sliding detachable rubber tip bayonet, repeating pump action.
Doz. $7.20

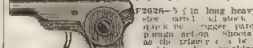
AUTOMATIC WATER PISTOLS

F1686 "Sure Shot," 5½ in. bright nickel finish metal body and grip, dummy trigger, brass barrel, lever action on side. Shoots 1 or several streams. 1 in box.
Doz. 42c

F1682 "Daisy Automatic" 7½ in. gun metal finish steel body, pearl grip, corrugated pistol grip, trigger action operates like genuine automatic pistol, shoots single repeating or large continuous stream. Each in carton with directions. ½ doz. in box.
Doz. $3.50

"SCOUT" AUTOMATIC TOY PISTOL

Note: As no caps are used fireworks license is not necessary to sell this item.

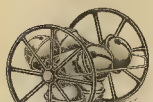


F2628—5½ in. long heavy blued steel barrel, wood stock, shaped pistol grip, copper plated firing action. Shoots as fast as the trigger can be pulled,

GONG CHIMES AND BELL TOYS

We do not break packages

Stick Chimes



Per doz.

N26726—CHIMES WITH SLEIGH BELLS—Nickeled wheels and bells 5 inch wheels and six ⅝ inch bells 2 dozen in box, not broken..... 3 50

Per doz.

N26739—PULL CHIMES—Assorted, 2 kinds, walking horse, elephant and rooster attached to red metal wheels with bell chime. Length 9½ inches..... 4 36

Per doz.

N26741—JOCKEY FLOOR CHIME—Jockey painted in colors. Nickeled wheels and bell. Length, 8½ inches..... 8 00

Per doz.

N26743—PUSH TOY—Wheels and bells, Nickel plated. Carpeted steel frame, 16 inches. 1 dozen in package, not broken..... 4.00

N27065—BELL CHIME—With stick handle cast metal horse with Indian rider, on two wheel platform, height including handle, 22 inches. ½ dozen in box, not broken 7.84

Per doz.

N26728—GONG CHIMES WITH HORSES—Nickel finish, 3 inch wheels, 1¾ inch gong. Complete with horse. 1 dozen in package, not broken..... 4 00

Per doz.

N26740—JOCKEY FLOOR CHIME—Jockey painted in colors. Nickeled wheels and bells. Length, 7¼ inches. ½ dozen in package not broken..... 7 60

Per doz.

N26742 SINGLE SEE-SAW BELL TOY—Image and frame lacquered in colors. Red and wheels nickel plated. ½ dozen in package, not broken..... 3 00

Per doz.

N26744—ROUGH RIDER PUSH CHIME—Rough rider painted in colors, carpeted steel frame, wheels and horse nickel plated. Wood handle..... 4 36

Per doz.

N26738—PULL CHIMES Assorted, 2 kinds, average length 7½ inches. Nickel plated wheels and wheels 1 dozen in package not broken..... 4.20

Per doz.

N26727—GONG CHIMES WITH PULL WIRES—Nickeled wheels and gongs 1¾ inch wheels and 2¼ inch gong. ½ dozen in box, not broken..... 7.33

Per doz.

N26729 GONG CHIMES WITH HORSE—Single horse, nickeled, 3¼ inch wheels, 3¼ inch gong. ½ dozen in package, not broken..... 9 00

Per doz.

N26732—PUSH STICK GONG CHIMES—3 inch wheels, 3 inch gongs, nickeled. 1 dozen in box, not broken..... 4.00

N26735—PUSH STICK GONG CHIMES—4½ inch wheels 3¼ inch gongs, nickeled ½ dozen in box, not broken..... 8.50

GIBBS' TOYS

Per doz.

N26502—DAISY CART Length of cart, 5 inches, height of handle, 20 inches, in packages of 12..... 2.64

No. 8 TEETER KIDS TOY

GIBBS TOY

A TOY WITH LOTS OF ACTION

Per doz.

N26505—TEETER KIDS Strength made of metal with wood base, painted in bright colors, figures white as it must be will see saw a long time. There is nothing to get out of order. Height 6½ inches. 1 dozen in box..... 3.92

Per doz.

N26507 DAISY EXPRESS WAGON—Lithographed tin sides, iron wheels, with 16 inch painted iron handle size of wagons, 5¼x3¾ inches, ½ dozen in box..... 7 36

No. 29 "Desert Rider" Push Toy

Per doz.

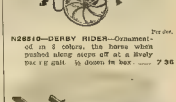
N26510—DERBY RIDER—Ornamented in 3 colors, the horse when pushed along scoots off at a lively pace. ½ gross in box..... 7 36

Per doz.

N26503—HAY CART—Size, 4x8 inches. 1 dozen in box..... 3.36

Per doz.

N26508—HAY WAGON—Painted in colors. Length 12½ inches. ½ dozen in box..... 7 30



Per doz.

N26511 DOLL SULKY—Beautifully finished and striped in six colors. Length 24½ inches. Height 7 inches. ½ dozen in box, not broken..... 7 30

No. 5 SWINGING GIRL TOY

Per doz.

N26504 — SWINGING GIRL TOY—Strongly made of tin tail with wood base finished in 9 colors. When set in motion figure will swing back and forth along a long line, making the child novel recreation of the toy. Height 24 inches. 1 dozen in box. Per doz..... 3.36

A TOY WITH LOTS OF ACTION

GIBBS TOY

Per doz.

N26506—CART WITH HORSE—When drawn over floor horse paces. Length, 13 inches, 6 in package..... 7.36

Per doz.

N26509 BUTTERFLY PUSH TOY—Moving of wheels raises and lowers the wings. Full length 24 inches. ½ dozen in box..... 7 30

No. 30 DOLL SULKY

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Toy Pianos, Drums and Chimes

TOY PIANOS

We do not break packages.

N26814-26

Each

N26824—BABY GRAND PIANO— With 13 keys, size 9 inches high, 13¾ inches wide, 23⅝ inches deep..... 3.20

N26826—BABY GRAND PIANO— With 13 keys, size 11⅝ inches high, 23 inches wide, 16⅜ inches deep... 4.00

N26854

Each

N26854—TOY PIANO—12 ivory keys. Mahogany finish. Size 11x13 inches..... 4.50

N26856—TOY PIANO—14 ivory keys. Mahogany finish. Size 12¾x14¾ inches..... 5.00

N26858—TOY PIANO—15 ivory keys. Mahogany finish. Size 14⅜x15 inches..... 9.00

N28732-32

Each

N28732—TOY PIANO Gilt embossed panels. Rosewood finish. 18 keys. Size 19¾x15¾x10 inches. Weight 21½ lbs. Packed in wooden case....13.80

N28733—TOY PIANO—Gilt embossed panels. Rosewood finish. 25 keys. Size 19¾x21¾x11 inches. Weight 27¾ lbs. Packed in wooden case..... 29.40

Piano Stool

N26826

Per doz.

N26826—TOY PIANO STOOL—Mahogany finish, weight 19 ounces..... 11.80

Send in Your Holiday Orders Early While Our Stocks Are Complete

Drums

DRUM ASSORTMENT

N28713-24

Per doz.

N28713—TIN DRUM—Highly lithographed in bright colors. 7 inches in diameter. Packed 2 dozen in package, not broken..... 4.50

N28715

N28714—TIN DRUM—Highly lithographed in bright colors. 9 inches in diameter. Packed 1 dozen in package, not broken..... 9.00

N28716

Per doz.

N28715—DRUM Constructed of Flemish wood and highly finished. Has metal tightening rods and fiber heads. 12 inches in diameter. Packed ¼ dozen in package, not broken..... 13.76

Each

N28717 Same as N28715, 15 inches in diameter. Packed ¼ dozen in package, not broken..... 2.70

N28718-29

Each

N28718—DRUM—Flemish wood, leather ears, one sheep and one calf fiber head, size 11 inches. Packed ¼ dozen in package, not broken..... 2.90

N28719—Same as N28718, 13 inches in diameter. Packed ¼ dozen in package 3.20

N28720-2

Each

N28720—DRUM Natural wood, well polished. Leather tightening ears, one sheep and one calf head 11 inches in diameter. Packed ¼ dozen in package, not broken..... 3.60

N28721 Same as N28720, 13 inches in diameter. ¼ dozen in package, not broken..... 5.00

Each

N28723—BASS DRUM—Nickel plated steel, white cord, nickel board leather ears, two sheepskin heads, double shoulder slings. Boy Scout Band printed in large red letters on one head. Drumstick, pair of cymbals, one of which is attached to drum. Drumstick, cymbals and cymbals to be played together. 16 inches in diameter. Each in carton..... 8.50

N28725—DRUM—Nickel plated steel, white cord, leather ears, two sheepskin heads, double shoulder slings. Boy Scout Band printed in large red letters on one head. Drumstick, pair of cymbals, one of which is attached to drum. Drumstick, cymbals and cymbals to be played together. 18 inches in diameter. Each in carton..... 17.50

Per set, of 1 doz.

N28715—DRUM ASSORTMENT Consisting of one dozen excellently made drums. Including 4 Springtime design, 7¾-inch drums with fiber heads. 3 Boy Scout, 9-inch fiber head drums. 3 Xmas Design, 10-inch fiber head drums. 2 Wild West 11-inch fiber head drums. Leather tightening ears. Complete with well seasoned, and balanced sticks. Packed 1 dozen in carton, and not broken..... 11.88

Musical Drum

N28722

Per doz.

N28722—MUSICAL DRUM One of the most novel toys ever invented. All tunes which can be played by an experienced drummer, can be played on the drum without sticks, by any one. Will produce far better results in the hands of a child, than the ordinary drum. Brass lacquered shell, decorated in colors, 7¼ inches in diameter. White cord, leather ears, two sheepskin heads. ¼ dozen in package, not broken..... 17.50

Musical Push Chimes

N26850-51-52

Per doz.

N26850—FLOOR CHIMES Lithographed corrugated barrel. Steel fork with offset to prevent scraping on wheels, steel and nickelplate. Size 4¼x4¼, 4 chimes in box, not broken..... 6.80

N26851—Same as N26850 Size 4¾x 5¼ inches. 3 dozen in package, not broken..... 9.50

N26852—Same as N26850. Size 7¼x6 inches. ½ dozen in package, not broken..... 17.00

Chenille Wheel Roller Chimes

N26730

Per doz.

N26730—CHENILLE COVERED WHEEL GONG CHIMES—3 inch wheels, 1¾ inch gauge, nickeled. 1 dozen in box, not broken..... 4.00

N26731

Per doz.

N26731—CHENILLE COVERED WHEEL GONG CHIMES—4 inch wheels, 2⅜ inch gauge, nickeled. ¼ dozen in package, not broken..... 8.50

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

DRUMS

ALL METAL DRUMS

Juvenile and Circus Designs

These are exclusively our designs and values—made our sizes and prices.

Exceptionally well made. All numbers except P700 lithographed in juvenile designs, white enameled heads, black hoops, brass cord head adjustment each with 3 smooth finish drum sticks. In corrugated display cartons.

P700—5¾ in. 3 doz. in carton.
Doz. *92c
(Total $2.76)

P764—7 in. 2 doz. in carton.
Doz. $1.85
(Total $3.70)

P782—11 in. diam. 1 doz. in carton.
Doz. $4.25

P793 13 in., leather ears, nickel drum sticks, ½ doz. in carton Doz. $5.85

METAL BODY DRUM ASSTS.

P807—6 styles, 7½ in. metal body, fiber head and bottom, Hoy Scout, U. S. A., clown and plain designs, black painted hoops with gold stripes, cord adjustment with leather ears, sticks, web belt and hook. 1 doz. in carton.
12 lbs. Doz. $4.50

P810—Metal body, fiber end, bright colored National Boy Scout, circus, colonial, soldier, Indian and teddy bear designs, black painted wood hoops, nickel plated steel hoops, cord adjustment, leather ears, web belts and sticks as follows:

½ doz.	7 in.	to retail at $0.50,
1	9	1.00
½	11	1.50

Total retail value $10. Assrd. 1 doz. in carton 16 lbs. Doz. $6.25

METAL BODY DRUM ASSORTMENT

P813—Metal bodies, fiber heads and bottoms, bright colored National Boy Scout, circus, colonial, soldier, Indian and teddy bear designs, silver, gilt and colored bands, black hoops with gold stripe, cord adjustment and leather ears, web belts and sticks as follows. Assrd. as follows:

½ doz.	7½ in.	to retail for $0.50
1	9	.75
1	10	1.00
½	11	1.50

Total retail value $15.00. 1½ doz. in asstt. 26 lbs. ASSTT (1½ doz.) $8.95

SHEEP HEAD METAL BODY DRUM

F776—2 sizes, 9 in., imitation ash, metal body, fiber head and bottom 6 and 8½ in., gilt striped black wood hoops, cord leather ears, red, white, blue web belt and sticks. ½ doz. in crate, 15 lbs. Doz. *7.75

"BOY SCOUT BAND" BASS DRUM

Nickel plated shells, sheepskin head and bottoms, black painted wood hoops, cord adjustment with hooked ears, white head with snow scene, web straps, drum sticks, words "Boy Scout Band." 1 in carton.

Size	Wt.	Each
F788—14 in.	5 lbs.	$3.75

CALFSKIN HEAD DRUMS

F788—2 in., calfskin head, sheep bottom, 6 in. high steps, nickel plated shell, black hoops, steel set bands, web belt, hardwood sticks. 1 in box, 4 lbs.
Each. $3.45

F785—13 in calfskin head and bottom, 23577 nickel plated shell, black painted wood hoops, nickel plated steel band, adjusting rod, hip rest and belt hook, pair of polished hardwood sticks. 1 in box, 4 lbs.
Each. $5.25

Are you interested in a plan to get rid of your excess stock, see page 431

GIBBS' TOYS

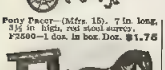
Every one carries Gibbs' toys and all that we ask is that you compare our prices with those of any other distributer

GIBBS' WALKING HORSE, WAGON & CART TOYS

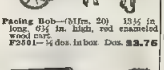
All wheels aluminum steel unless stated

Pony Pacer—(Mfrs. 15). 7 in. long, 3½ in. high, red steel surrey.
F2560—1 doz. in box. Doz. $1.75

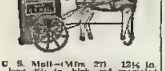
Pacing Bob—(Mfrs. 20) 13½ in. long, 6¾ in. high, red enameled wood cart.
F2561—¼ doz. in box. Doz. $3.75



U. S. Mail—(Mfrs. 27) 13½ in. long, 6½ in. high, red enameled steel wagon, black roof, open back, front and side windows.
F2562—½ doz. in box. Doz. $4.00



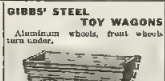
English Pony Cart—(Mfrs. 40) 13¾ in. long, 8½ in. high, yellow and red enameled steel cart.
F2563—½ doz. in box. Doz. $3.00



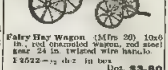
(Mfrs 50) 19 in. long, 6¼ in. high, 6¼ in. red enameled steel wood wagon, red gear, steel wheels. Metal wood horse with movable steel legs attached by wire to wagon which gives natural walking motion each in box.
F2564—¼ doz. in pkg. Doz. $7.50

GIBBS' STEEL TOY WAGONS

Aluminum wheels, front wheels turn under.



Fairy Hay Wagon. (Mfrs 20) 10x6 in., red enameled wagon, red steel gear 5 in. twisted wire handle.
F2622—½ doz. in box.
Doz. $3.00



Daisy Express Wagon. (Mfrs. 25) 14½ in. red enameled outside yellow inside, black stencil on each side, blue steel gear 24 in. twisted wire handle.
F2623—½ doz. in box.
Doz. $3.75

GIBBS' "NEVER STOP" SEESAW

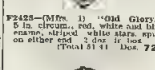
F2516—(Mfrs 35). 18 in high all steel, bright tan enameled with striped colors, 12 in cross piece with boy and girl figures, pedals act on fly rewinds toy each in carton ¼ doz. in box Doz. $6.40

GIBBS' FAMOUS AUTOMATIC TOPS

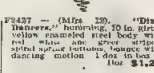
All metal tops with spring winders.

F2425—(Mfrs. 1) "Old Glory," 5 in. circum., red, white and blue enamel, raised white stars, spun on either end 2 doz. in box
(Total $1.44) Doz. 72c

F2427 — (Mfrs 15). "Dixie Darkey," humming, 10 in. girth, yellow enameled steel body with red white and green stripes, spiral spiral bottom, leaves with dancing motion 1 doz in box
Doz $1.20



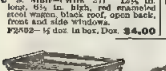
F2424—(Mfrs 15), "Never Stop", humming, 10 in. circum., red, white, blue and yellow enamel striped. 2 doz. in box
Doz. $1.15



F2129 — (Mfrs. 10). "Rainbow," humming, 10 in girth, yellow body, blue and white, and red and white stripes, yellow, red, black, blue and green discs, produces beautiful color effects 1 doz. in box..... Doz. $1.25

"Merry Whirl" Yellow enameled steel body with red white and blue stripes, cardboard whirl-shield when placed against top revolves with it. 1 doz. in box
F2423 Mfrs. 91 Humming, green 10 in. Doz. $1.25
F2426—(Mfrs 23) Musical circus 12½ in Doz. $2.85

F2428—(Mfrs. 21). "Egyptian Dancer," musical, 12½ in girth, very deep steel body with red white and blue and green white and red, spiral spring top to bounce with dancing motion. ½ doz in box Doz. $3.25



GIBBS' DERBY RIDER PUSH TOY

F2515—(Mfrs 29). 8 in. long, 7½ in high finished with 8 bright enameled colors, wood body horse, metal jockey, wheels, legs and all moving parts, 24 in. wood handle. Horse steps at a lively gait when pushed along floor. ½ doz. in box
Doz. $3.75

IRON TOYS

You will be agreeably surprised to see how many numbers we have pushed down into the pre-war price ranges. A study of these prices will show you that we have done what other jobbers could not do.

POPULAR PRICED IRON TOY ASSORTMENTS

Painted in bright colors. Note that we assort 3 or more styles to most numbers.

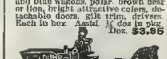
F3060—3 styles, aver. 4½ in., auto coal truck and milky with drivers. Assrd. 1 doz. in box. Doz. **78c**

F3068—3 styles, 8¼ in., red, white and blue wagons, polar brown bear or lion, bright attractive colors, detachable doors, gilt trim, drivers. Each in box. Assrd. ½ doz. in pkg. Doz. **$3.85**

F3071—6 styles, aver. 8 in. ice wagon, hansom, safety, limousine, buck board and auto. Assrd. ½ doz. in box. Doz. **$1.90**

"FORDSON" IRON TOY

F3103—6 in. long, 4¼ in. high, 3½ in. wide, heavy iron with attractive enamel finish, gray body and engine, gilt trim, miniature driver with polished hat and cuffs, steering wheel, wheels 1¾ in. and 2⅝ in. high. ½ doz. in box. Doz. **$3.90**



F3079—3 styles, aver. 9¼ in., ice dump and coal cars, gilt trim, drivers. Assrd. ¼ doz. in box. Doz. **$4.25**

F3113—13½x3½ in., yellow body red wheels, black horse and driver. ½ doz. in box . . Doz. **$6.00**

FIRE ENGINES

F3143—17x5 in., white body, red wheels, gilt trim, 3 horses, gong, driver. 1 in box. Each, **$1.00**

F3146—20½x8 in., white body, gilt trim, red wheels, tank, tires, 3 horses, gong, hose, driver and fireman, moveable steam wheel. 1 in box. Each, **$1.65**

PAINTED IRON TRAINS

F3150—Coach Passenger Trains—14 in., black engine and tender, gilt trim, 3 red coaches. ½ doz. in box Doz. **$2.00**

HOOK AND LADDER TRUCKS

F3134—16x3 in., blue body, yellow wheels, gilt trim, 3 horses, 2 yellow steel ladders, driver and stove leg man. ¼ doz. in box. . . . . Doz. **$4.40**

F3144—21½x5 in., white body, red wheels, imit. tires, 2 horses, two 16 in. wood ladders, detachable uprights, drive and steering man. 1 in box . Each, **$1.10**

F3138—18x6 in., yellow body red wheels, imit. tires, 2 horses, two 16 in. wood ladders, detachable uprights, driver and steering man. ½ doz. in box. . . . . Doz. **$3.50**

F3149—23x7 in. nickel plated body red wheels, 16 in. tires, 3 large galloping horses, 3 wood ladders, detachable uprights, gong, driver and steering man, steering wheel 1 in box. . . . . Each, **$2.25**

CASE LOT IRON TOY ASSORTMENT

F454—110 pcs., comprises fire dept. toys, limousines, locomotives, passenger cars, ice and coal wagons, trains, iron ranges, etc. Assrd. as follows

36 pcs. to retail at	10c	$ 3 60	Assrt. (110 pcs.)
64 " "	25c	16 00	
10 " "	50c	5 00	
1 " "	$1 00	1 00	**$21.00**
2 " "	$1 50	3 00	
		$ 30 00	

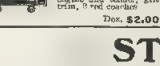
Your Profit $9.00 Total Suggested Retail Value, $30.00

STEEL TOYS

Every number here is an unusual bargain They sell so fast that it is hard to keep them in stock even in the spring. Right now you need a good stock of each number.

STAR VALUE

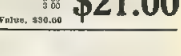
Telephone Ht. 7 in., red & black enameled, adjustable mouth piece 2½ in. receiver long string. F2501 1 doz. in box Doz. **84c**



"Pay-As-You Enter" Trolley—7½x2 in., four 1¼ in. brassed double wheels, 3½ in. trolley pole, 3 color litho body. F2590—1 doz. in box Doz. **86c**

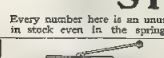
Horse and Wagon—10x3½ in., 3-in. sheet, wide litho in 4 colors, dapple gray steel horse, driver, two ⅞ and two 2½ red open spoke wheels, turning front axle. F2571—1 doz. in box Doz. **82c**

Wagon—6½x3½ in., deep body, green inside, heavy steel balance, red enameled solid wheels, steering front axle, heavy wire loop for handle, assrd. litho nursery pictures. F2531 1 doz. in box . . . Doz. **80c**

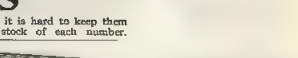


STAR VALUE Locomotive and Tender 10½ in., 1¼x¾ red litho body engineer, 8 yellow disc wheels and brim. F2542—1 doz. in box. Doz. **95c**

Pullman Car—8½ in. green enamel body, black top with 4 units of ventilators, yellow trim, 4 blue wheels, open windows, painted floors. F2543—1 doz. in box Doz. **84c**



Auto—2 styles, aver. 7½ in., dump cart and delivery auto, bright color litho. Assrd. F2547—1 doz. in box . . . . . Doz. **89c**

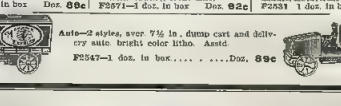


"Mother Goose" Wagon—4½x3¾ in. body, high sides with Litho nursery pictures, green bottom, four 3½ in. red enameled solid wheels, steering front axle, 17 in. red painted turned wood handle. F2538—1 doz. in box Doz. **$1.90**

Noisy Butterfly—Wings 9 in., wheels 5 in., steel, the wings move when pushed along their green disc wheels, 20½ in. wood handle. F2555—1 doz. in pkg. Doz. **84c**

STEEL LOCOMOTIVE AND TENDER

An exact miniature of the real locomotive and tender. Priced to give you an extra profit



F2353—20½x3x5½ in., heavy sheet steel, baked bright red enamel body, gilt and green stripes, 12 open spoke gilt wheels, each in box 2 in pkg. (Total $1 76) Each, **88c**

Street Car—16½x6x8 in., heavy sheet steel, extra strong construction, 4 gilt wheels, baked bright yellow and green enamel finish, red stripe, each in box. F2554—½ doz. in pkg. Doz. **$9.00**

Made in Our Own Factory ELEPHANT BRAND Overalls & Coats

Unless specified in description, all Overalls packed 1 doz. in bundle, asstd. sizes, as follows: 1 pair each 34x33, 34x34, 36x32, 36x33, 36x34, 38x32, 38x33, 38x34, 40x32, 40x33, 42x32 and 42x33.

All numbers listed below made as follows: Wide apron on double-stitched Bandeau Front, 3-button fly, 2 large front pockets, 2 hip, 1 rule and 1 combination watch and pencil pocket, double-stitched throughout.

All Coats packed 1 doz. in bundle, asstd. sizes, as follows:

SIZES

Quant. in Reg Sizes					
36	38	40	42	44	
2	2	3	3	2	

Quant. in Extra Sizes			
40	42	44	46
2	4	4	2

GS5834 GS5832 GS5514 GS46.

High Railroad Back Detachable Web Insert Straps High Railroad Back Double Front

240 WEIGHT DOUBLE AND TWIST INDIGO BLUE DENIM

High Railroad Back, wide shoulder straps, double brass loops.
GS5834—Assorted 32 to 44. 1 doz. in bdl. . . . Doz. **$11.25**

GS535—Same as above, but in solid sizes 36 or 38. ½ doz. in bdl. . . . Doz. **11.25**

GS5834X—Same as above, but in solid sizes 36 or 38. ½ doz. in bdl. . . . Doz. **11.75**

GS5834XX—Solid sizes 40 48 or 44. ½ doz. in bdl. . . . . Doz. **12.25**

SPLENDID WEIGHT KHAKI DRILL

High Railroad Back, wide shoulder straps, double brass loops.
GS5184—Asstd. sizes 34 to 42. 1 doz. in bdl. . . . Doz. **$10.87½**

240 WEIGHT DOUBLE AND TWIST INDIGO BLUE DENIM

Detachable web insert straps, wide shoulder straps, double brass loops.
GS5832—Assorted 32 to 44. 1 doz. in bdl. . . . Doz. **$11.25**
GS5835—Same as above, but in solid sizes 36 or 38. ½ doz. in bdl. . . . Doz. **11.25**
GS5832X—Same as above, but in solid sizes 36 or 38. ½ doz. in bdl. . . . Doz. **11.75**
GS5832XX—Solid sizes 40 48 or 44. ½ doz. in bdl. . . . Doz. **12.25**

"Stifel" Weight Double and Twist Indigo Blue Denim Coats—good, serviceable, heavy weight, full cut coats, with 2 large pockets and 1 watch pocket. The 5-oz. weight of "Stifel" Indigo Blue Overalls is used in these coats.
GS5135—Asstd. sizes 36 to 44. 1 doz. in bdl. . . . Doz. **$11.25**
GS5135X—Same as above, but in solid sizes 36 or 38. ½ doz. in bdl. . . . Doz. **11.75**

SPLENDID WEIGHT STIFEL'S INDIGO BLUE AND WHITE STRIPED DRILL

High Railroad Back, wide shoulder straps, double brass loops.
GS5834—Assorted 32 to 44. 1 doz. in bdl. . . . Doz. **$11.25**

GS5835—Same as above, but in solid sizes 36 or 38. ½ doz. in bdl. . . . Doz. **11.25**

GS5832X—Same as above, but in solid sizes 36 or 38. ½ doz. in bdl. . . . Doz. **11.75**

GS5834XX—Solid sizes 40 48 or 44. ½ doz. in bdl. . . . Doz. **12.25**

Coats to Match GS5135—Same cut, shaped bottom, 2 large pockets and 1 watch pocket. 4 pearl buttons on front. 4 pearl buttons on cuffs. 1 watch pocket. Full cut throughout.
GS5135C—Asstd. sizes 36 to 44. 1 doz. in bdl. . . . Doz. **$11.25**

240 WEIGHT DOUBLE AND TWIST INDIGO BLUE DENIM

Large Double Front which extends down to knee, high Railroad Back, wide shoulder straps, full of large loops. Assorted sizes 32 to 44. 1 doz. in bdl. . . . Doz. **$12.00**
GS5835—Same as above, but in solid sizes 36 or 38. ½ doz. in bdl. . . . Doz. **12.00**
GS5835X—Solid sizes 36 or 38. ½ doz. in bdl. . . . Doz. **12.50**
GS5835XX—Solid sizes 40, 42 or 44. ½ doz. in bdl. . . . Doz. **13.00**

MEN'S BLUE DENIM COATS

GS5832C and GS5834X Blue Denim Coats match all Indigo Blue Overalls on this page.

Overalls packed solid or assorted sizes. Coats packed assorted sizes only.

GIBRALTAR BRAND

TRIPLE STITCHED

Overalls & Coats—Made in Our Own Factory

TRIPLE STITCHED

Triple stitched throughout, reinforced with wide pocketing tape at top of bibs, where the straps join the garment. 1 piece continuous fly and riveted side openings—will not rip. Assstd. size Overalls packed 1 doz., as follows unless otherwise stated in descriptions: show 1 pair each 34x33, 34x34, 36x32, 36x33, 36x34, 38x32, 38x33, 38x34, 40x33, 40x33, 42x32 42x33

GS5207—Big Railroad Back, Indigo Blue Denim, apron on double stitched bandeau front 2 extra big hip pockets with watch pocket, 1 rule pocket, 3 button fly, 2 inch shoulder straps, high railroad back, brass suspender fastenings 2 brass loops. Assstd. sizes 32 to 42. 1 doz. in bundle . . . . . Doz. **$15.00**

GS107—As GS5206, but in solid sizes 32 or 34. ½ doz. in bundle. . . . Doz. **15.00**

GS107X—As GS5206, but in solid sizes 36 or 38. ½ doz. in bundle. . . . Doz. **15.50**

GS107XX—As GS5206, but in solid sizes 40, 42 or 44. ½ doz. in bundle. . . . Doz. **16.00**

GS5206—Big White Back Indigo Blue Denim large apron on double stitched bandeau front 3 front pockets, 1 watch pocket, 1 rule pocket and one in pocket on the 2 sewn legs, 3 button fly, wide web chain web insert suspender straps 2 brass buttons at side openings. Solid and Large. Will give splendid satisfaction to wearer. Assstd. sizes 34 to 42. 1 doz. in bundle . . . . . Doz. **$15.00**

GS5206—As GS5206, but in solid sizes 32 or 34. ½ doz. in bundle . . . . . Doz. **$15.00**

GS206X—As GS5206, but in solid sizes 36 or 38. ½ doz. in bundle . . . . . Doz. **15.50**

GS206XX—As GS5206, but in solid sizes 40, 42 or 44. ½ doz. in bundle. . . . Doz. **16.00**

COATS TO MATCH

GS206C—Coats to match GS5206 White Back Indigo Blue Denim 4 pockets all of which have watch pocket with lid, pearl side cuffs, large roomy collar, cut full and large, sleeves full of room, triple stitched where the strain is the greatest. Assstd. sizes 36 to 44. 1 doz. in bundle. . . . Doz. **$15.00**

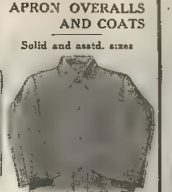
GS206CX—Coats as GS5206C, but in assstd. sizes 40 to 46. 1 doz. in bundle. . . . Doz. **15.50**

OVERALLS AND COATS—MADE IN OUR OWN FACTORY

FULL SIZES AND QUALITY GUARANTEED

MEN'S INDIGO BLUE DENIM APRON OVERALLS AND COATS

Solid and asstd. sizes



★GS23—Apron, Indigo Denim, 5 pockets, double stitched. Asstd. sizes 34 to 44. 1 doz. in bundle. Doz. **$8.75**

GS23XX—Same, 2 sizes 40, 42 or 44, doz. in bundle. Doz. **$9.50**

GS24C—Coat to match GS23, 2 pockets, sizes 34 to 44. Doz. **$8.75**

GS24CX—Same size coats as GS24C, but in asstd. sizes 46 to 46. Doz. **$9.50**

1 Piece Overall Suits

Assorted sizes 36 to 46. Packed 1 doz. to bundle.

GS195—Splendid weight Khaki Drill, all seams pointed and felled, full cut, 2 pieces, 10 pieces total, combination watch and pencil pocket on 1 leg, 2 front, 2 hip, 2 back pockets. Triple stitched. Doz. **$19.50**

GS196—As GS195, but in 220 weight Blue Indigo white back Drill. Doz. **$19.50**

SPECIAL NOTICE

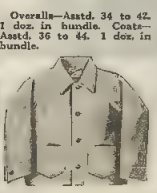
In apron overalls you will also find listed numbers which are packed in SOLID SIZES, ½ doz. in bundle. They can be ordered in ANY size, viz: Waist measures from 32 to 44, inseam measures from 32 to 44. Specify solid sizes wanted, otherwise we will send asstd. sizes.

Indigo Blue Denim "Extra Stout" Apron Overalls

Asstd. sizes 32 to 44. 1 doz. in bundle

G8734—Apron, Indigo Blue Denim, double stitched bands, front, 6 pockets, rail road back brass fasteners. Doz. **$12.00**

WHITE DRILL OVERALLS AND COATS



Overalls—Asstd. 34 to 42. 1 doz. in bundle. Coats—Asstd. 36 to 44. 1 doz. in bundle.

GS38S—Apron, splendid weight Drill, 2 front, 1 hip, 1 rule, 1 watch and pencil pocket on bib, bench strap, ribbed back, double stitched. Doz. **$8.75**

GS38XC—Coats to match GS38S. Doz. **$8.75**

MEN'S INDIGO BLUE STRIPE OVERALLS AND COATS

Overalls asstd. sizes 34 to 42. Coats asstd. sizes 36 to 44. 1 doz. in bundle

GS12F—Apron, splendid weight, wide apron on banded front, 5 pockets, buttonhole on bib, wide suspender straps, double stitched throughout. Doz. **$8.75**

GS26C—Band, good weight, double front, extends below knee, 5 pockets, 3-button fly, double stitched throughout. Doz. **$8.75**

GS11XC—Coats to match GS38C and GS12F overalls. Doz. **$8.75**

YOUTHS' APRON OVERALLS

Asstd. sizes 26 to 32, unless otherwise stated. 1 doz. in bdl.

GS67U GS17S GS-4

Large Apron—White shoulder straps, 2 front and 1 hip pocket, riveted button trimmed, strong ly sewed.

GS17—Blue and White Striped Hickory ..... Doz. $6.87½

GS17d—Sized Blue and White Dotted Striped Drill ..... Doz. 6.87½

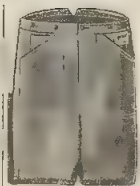
★GS67U—Good weight Indigo Blue Denim ..... Doz. 6.87½

GS67US—As GS67U, but in solid sizes 28 or 29, ½ doz. in bdl. ..... Doz. 6.87½

GS67USX—As GS67U, in solid sizes 30 or 32, ½ doz. in bdl. ..... Doz. 7.12½

GS74—220-weight double and twist Indigo Blue Denim, web insert detachable suspender straps, brass fasteners 2 swinging, 2 hip, 1 rule and 1 combination pocket on bib, riveted buttons at side, 2 seam ings. Triple stitched Pantaloon cu. legs Doz. **$12.50**

MEN'S INDIGO BLUE DENIM BAND OVERALLS



Asstd. sizes 34 to 42. 1 doz. in bundle.

GS11C—Band, 210 weight double and twist Indigo Denim, double front, wide rule, rule below knee, 6 pockets, stayed crotch, riveted buttons, double stitched throughout.

Doz. **$10.87½**

For BROWNIE OVERALL See Page 52

Brownie One-Piece Overall Suits

Asstd. sizes 4 to 8 years. 1 doz. in bundle.

GS193—Khaki Drill, attached pointed end collar, drop back, 2 patch pockets, riveted button trimmed. Doz. **$8.25**

GS192—Indigo Blue double and twist Denim. Doz. **$8.25**

GS188—Sized Blue and White Drill. Doz. **$8.25**

GS190—Blue and White Pin check. Doz. **$8.25**

Youth's One-Piece Overall Suits

Asstd. sizes 28 to 34. 1 doz. in bundle

GS191—Strong weight Khaki Drill attached pointed collar, large shoulder gusset, ribbed and stayed banded front, drop back, 2 pockets. Doz. **$11.25**

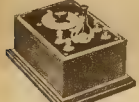
GS196—Sized Blue and White Drill. Doz. **$11.25**

GS197—Blue and White Pin check. Doz. **$11.25**

GS192—Indigo Blue double and twist Denim. Doz. **$11.25**

Radio Sets

Audiola Crystal Detector Receiving Set



N27205

N27205—The Audiola Crystal Detector Receiving Set is a compact and sturdy little outfit. The 2½-plate variable condenser permits of sharp and accurate tuning. Has a phosphor-bronze perfect contact adjusting wave whisker, and a crystal detector of the finest grade of galena. Has binding posts securely held in place. A tap switch is provided. Fittings are nickel plated, and the panel is finished in black. Head phones are not furnished with this set. It may, however, be used with any pair of phones having the usual 2000-ohm resistance windings. Size 6¾ inches long, 4¾ inches wide, 4¾ inches high. Shipping weight, 2 pounds. Each **2.00**

Gilbert Crystal Detector Set

N27200

N27200—GILBERT CRYSTAL DETECTOR SET—Exceedingly well adapted to the use of all beginners in radio work. The only equipment necessary to operate it is sufficient wire and insulators to erect an aerial. The outfit consists of a tuning coil, crystal detector, and a pair of sensitive radio telephones with head bands. No batteries are required. It will receive waves varying in length from 200 to 600 meters. The receivers range is approximately 15 or 20 miles for stations using spark transmitters, but with telephonic transmitters the range is much greater. Enclosed in a handsome solid mahogany cabinet. Size 6¾ x 7¾ x 6¾ inches. Each **20.00**

Professional Receiving Set

N27201

N27201—GILBERT'S PROFESSIONAL RECEIVING SET—With the outfit of telephone messages can be received from a considerable distance. It is an extremely simple outfit to operate, resulting as little mechanical knowledge as any set on the market. The set is a very sensitive receiving set. Has a condenser of ample capacity and is provided with tuning coil augmented with variometer. Wave length may be varied from 200 to 600 meters. Two coils are included. The telephone type of tuning coil is used in this set. The coils are wound in a strong formwork and braced. They fit into a fine position on two brass rods. The set is mounted on a wood base 14x8½ inches. All wood parts are finished with an attractive rich mahogany finish. Binding posts are of nickel plated black composition and the binding posts, switch lever, screws and nuts are of the finest. The wiring on the bottom of the set is carefully protected by a board which may be easily removed. The price does not include the detector tube shown in the cut, but this is necessary to operate as well as a battery, all of which must be added. A pair of head phones, as at right, are also extra. Each **33.50**

Gilbert Amplifier

N27203

N27203—GILBERT AMPLIFIER—The amplifier is designed to be used in conjunction with the Receiving outfit when the signals being received are weak and hard to hear. The Gilbert amplifier is the Audiola Frequency type, will work effectively with any receiving set. Has a Navarre-type transformer, standard ratio. The set is made of highly polished oak cabinet, size 6¾x7¼x6¾ inches. The panel is hard composition finished in black and fitting are superb. Each **16.50**

AMPLIFIER is furnished without tubes.

Gilbert 2000-Ohm Head Phones

N27202

N27202—GILBERT 2000 OHM HEAD PHONES—Sensitive telephone receivers play an important part in successful operation with a long range receiving set. The Gilbert phones are especially constructed for radio work. Part of the sensitiveness of this head phone is due to the special magnet steel which is used in the permanent magnets, and to the fine grade of soft iron which makes up the pole pieces. The shell is aluminum and the ear pieces of insulating compound. The latest designed head band light and comfortable, and easily adjusted. Each **9.00**

These Head Phones can be used with any set shown on this page.

Gilbert 2-Step Amplifier

N27204

N27204—GILBERT 2-STEP AMPLIFIER—The Gilbert 2-step amplifier is designed to be used in conjunction with the Receiving outfit when the signals being received are weak and hard to hear. The 2-step amplifier is the Audiola Frequency type, will work effectively with any receiving set. Has a Navarre-type transformer, standard ratio. The set is made of highly polished oak cabinet, size 6¾x7¼x6¾ inches. The panel is hard composition finished in black and all fittings are superb. Each **16.50**

AMPLIFIER is furnished without tubes.

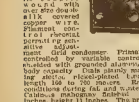
Showing Gilbert Crystal Detector Receiving Set N27200 connected to a Navarre Vacuum Tube Detector and 2-Volt storage battery and a B battery.

Showing N27201 Professional Receiving Set complete with head phones, 6-Volt storage battery and detector tubes.

Monroe Regenerative Receiving Set

N27206

N27206—MONROE REGENERATIVE RECEIVING SET—Single circuit tuner consists of an 11 plate rotary vernier condenser variable from .0001 to .0011 mfd. and a fine double silk covered copper wire. Filament control permits regulation of the



N27206

primative. Grid condenser Primary inductance tank controlled by variable control switch. Secondary shielded with grounded aluminum plate to prevent body capacity. Dials plainly marked. Inductance switch, nickel-plated binding posts. Wave length range of the set is from 150 to 1,000 meters, controlling wave lengths from 150 to 1,000 meters. Has a panel of mahogany finished. The size is 7x7½ inches, height 11 inches. The price does not include detector tube A or B batteries and head set. **49.00**

SPECIAL NOTICE: N27206 Monroe Receiving set needs to make it complete for operation one only Detector Tube, one B Battery, 22½ Volts, one 6-Volt storage battery, one pair of head phones, and sufficient wire and insulators to erect aerial.

The illustration shows interior of N27206 set.

Monroe Radio Sets

Monroe Receivers use the well known Armstrong Regenerative Circuit and are licensed under the Armstrong Patents. The utmost care is exercised in their construction and they represent that excellence in craftsmanship and Radio Engineering that has made the "Monroe" the recognized leader in moderate priced receiving sets. They have conclusively demonstrated a daylight range of 170 miles with 100 watt station transmitting, and a night range of 1,000 miles. These sets are exceptionally low priced considering their range, efficiency and satisfactory operation

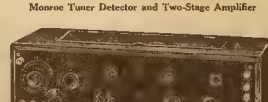
Monroe Two-Stage Amplifier

Each

N27207

N27207 MONROE TYPE TWO-STAGE AMPLIFIER is designed to be used in conjunction with N27206 Tuner Detector Receiving Set. This instrument consists of two high grade Audio amplifying transformers, two sockets mounted on a bakelite base and two filament control rheostats permitting resistive adjustments of the vacuum tubes. In addition to the extras needed for N27206 Receiving Sets, it must have two amplifying tubes and a B 45-Volt battery, which are not included in the price **49.00**

Monroe Tuner Detector and Two-Stage Amplifier



Each

N27206—MONROE TUNER DETECTOR AND TWO-STAGE AMPLIFIER—The tuner detector has for its base N27206 receiving set, and in addition an amplifier consisting of 2 high-grade Audio Frequency transformers, 2 sockets mounted on a bakelite base, 2 filament control rheostats which permit resistive adjustment of the vacuum tubes. This instrument is entirely independent of the cabinet and may be easily taken out by removing 4 small screws. Wave length from 150 to 700 meters. Normal range under favorable conditions during fall and winter 150 to 1,000 miles. The instrument is put up in a mahogany finished, well constructed cabinet, size 21¾x7¾x7 inches. The cabinet with its two-stabilized control is easily operated, and with the addition of a loud speaking horn, will receive telephone messages and music from broadcasting stations and can be heard throughout an average size room. The set needs to make it complete for operation one detector tube, two amplifying tubes, one B battery 22½ volts, one B battery 67½ volts, one 6-Volt storage battery, one head set.

Each

Note. N27202 Head Phones can be used on any of these Radio Receiving Sets.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

See Feb. 18th issue of Saturday Evening Post and Feb. 4th Literary Digest for Gilbert Thinlarm advertisement

The Gilbert Thinlarm

A Trade Winner

This new Gilbert creation — the only thin model alarm clock made — has jumped into favor from the start.

Remember how quickly the old high-wheel bicycle disappeared when the "safety" came in? How many high-wheel bikes do you see today?

The Gilbert THINLARM is far more saleable than the old-fashioned, bulky alarm clock. Whether it's claw-hammers or clocks, your trade wants the latest, especially when it's the *best.*

The Gilbert THINLARM is up-to-the-minute in looks, workmanship and dependable timekeeping. There is no other alarm clock like it — or *nearly* like it.

The slender Gilbert THINLARM embodies many new and exclusive features, to win new trade for you. Ask your jobber to show you a sample, and to tell you about the Gilbert Sales Plan, Gilbert Selling Helps and Gilbert Advertising.

William L. Gilbert Clock Co.

Winsted, Conn.

"Makers of good clocks since 1807"

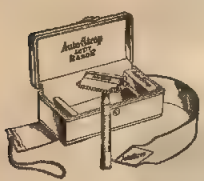
Gilbert Clocks

AUTO-STROP SAFETY RAZORS

Prices on Application

The razor that has revolutionized the safety razor business. Not an old razor rebuilt nor a "cheap" new set, but a real value accomplished by economical manufacture. The razor frame, blades and strop are the same as those furnished in the regular $5.00 sets excepting that the frame is nickel plated instead of gold or silver plated, and has a new model adjustable guard.

Model C—Valet, Auto Strop Razor, consists of nickel plated self stropping razor, three genuine Valet Auto Strop blades and one horsehide strop. The razor and blades are packed in an attractive metal case, beautifully finished in black, and velvet lined. The strop is packed in an individual carton, and the entire outfit is contained in a handsomely lithographed carton, per dozen *$18.00*



STANDARD OUTFIT

Cases of black, maroon, blue, green or red leather plush and satin lined. Size 1¾×4½ inches.

No. 600—Silver plated self-stropping razor, 12 blades, shell horsehide strop .....per dozen sets *$60.00*

ONE IN A BOX
ONE DOZEN IN A CARTON

FLAT METAL SET

These gold plated sets are especially designed and are an exceptionally good value. They are very attractive and desirable—take up but little space—making same especially attractive to the traveling salesman, tourist or camper. Strong and substantial.

Gold plated case, highly polished, gold plated blade box with **one extra auto-strop blade,** gold plated auto-strop safety razor with blade, selected leather strop, case is lined with purple velvet and satin, measures 3¼×3 1⁹⁄₁₆×1⅝ in. when closed. Each set in a purple flannel bag.

No. 350Q—Plain polished dome top case .....per dozen *$60.00*

No. 351Q—Diamond design embossed top case with name plate for engraving .....per dozen *$60.00*

ONE IN A CARTON

EMBOSSED METAL CASE

Size of case 4½×2×1⅛ in., lined with purple velvet and satin; the top of the case is artistically embossed, contains a silver plated self-stropping auto strop safety razor; shell horsehide strop, and twelve blades.

No. 251—Nickel plated case, per dozen sets *$60.00*

No. 264S—Gun metal finish case, per dozen sets *$60.00*

ONE IN A BOX
HALF DOZEN IN A CARTON

STANDARD OUTFIT IN METAL CASE

Heavily nickel plated and polished metal case of plain design, lined with purple velvet and satin, containing silver plated Self Stropping Razor, 12 Auto Strop Blades and specially prepared, selected leather Strop.

Put up in flannel bag.

No. 50½—W't per doz. 7¾ lbs., per dozen *$60.00*

ONE IN A BOX
ONE DOZEN IN A CARTON

MILITARY OUTFIT

Consists of silver plated self-stropping razor, 12 blades, fine quality leather strop, and oval non-breakable metal trench mirror which is hung on a leather tab which also serves as a hanger. Put up in a pocket edition flexible folding case. Measures 3¼×4½×¾ in., when closed, w't per doz. 6 lbs.

No. 7—Black leather, per dozen *$60.00*

No. 8—Genuine pigskin, per dozen *$60.00*

ONE IN A BOX
HALF DOZEN IN A CARTON

GILLETTE SAFETY RAZORS AND BLADES

Prices on Application

NEW IMPROVED

(Patented Jan. 13, 1920)

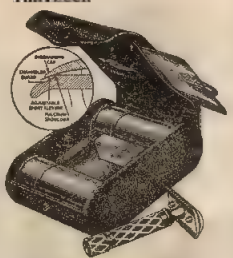
ARISTOCRAT

Imitation white ivory case and blade box, case $3\frac{15}{16}\times2\frac{5}{16}\times1\frac{1}{4}$ inches, purple velvet and satin lined, complete with New Improved razor and 12 double edged blades, (24 shaving edges.)

Aristocrat — Gold plated razor, per dozen *$72.00*

ONE IN A BOX

TRAVELER



A complete shaving outfit. Black genuine leather covered case, purple velvet and satin lined, $5\times3\frac{5}{8}\times1\frac{1}{4}$ in., complete with **New Improved** razor, 12 double edged blades (24 shaving edges) in nickel plated blade box, mixed badger hair lather brush and stick shaving soap in nickel plated metal containers.

Traveler — Triple silver plated razor, dozen *$80.00*

ONE IN A BOX

GILLETTE BLADES

Double edged wafer blades, highest quality, each blade in an individual envelope.

No. 6—Six blades in a sealed package, per dz. pkgs. *$6.00*

No. 12 — Twelve blades in a sealed package, per dz. pkgs *$12.00*

NO. 6, 1½ DOZEN PACKAGES. NO. 12 FIVE-SIXTHS DOZEN PACKAGES IN A CARTON.

DOZEN PACKAGES IN A CARTON

OLD TYPE GILLETE SAFETY RAZORS

THESE RAZORS DO NOT HAVE THE NEW IMPROVED GUARD AND CAP

BROWNIE

OLD TYPE

Imitation leather covered metal case $4\times2\times\frac{5}{8}$ in. Complete with Old Type razor and 3 double edged blades (6 shaving edges) in sealed packet.

Brownie — Nickel plated razor, dull finish .....per dozen *$12.00*

ONE IN A BOX

PIONEER

OLD STYLE

Leatherette covered case, purple lined, $3\frac{5}{8}\times2\frac{1}{8}\times1\frac{1}{4}$ in. Complete with Old Type Razor and 6 double edged blades (12 shaving edges).

Pioneer-Silver Plated Razor, dull finish, 2 blade boxes to match case .....per dozen *$30.00*

ONE IN A BOX

POCKET EDITION

OLD TYPE

Nickel plated metal case, purple lined $4\times2\frac{1}{8}\times\frac{3}{4}$ in. Complete with Old Type Razor and 6 double edged blades (12 shaving edges) in sealed packet.

Pocket Editon—Silver plated razor, dull finish, per dozen *$36.00*

ONE IN A BOX

GILLETTE SAFETY RAZORS AND BLADES

Prices on Application

NEW IMPROVED

(Patented Jan. 13, 1920)

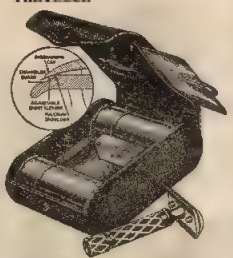
ARISTOCRAT

Imitation white ivory case and blade box, case $3\frac{15}{16}\times2\frac{5}{16}\times1\frac{1}{4}$ inches, purple velvet and satin lined, complete with New Improved razor and 12 double edged blades, (24 shaving edges.)

Aristocrat — Gold plated razor, per dozen *$72.00*

ONE IN A BOX

TRAVELER



A complete shaving outfit. Black genuine leather covered case, purple velvet and satin lined, $5\times3\frac{5}{8}\times1\frac{1}{4}$ in., complete with **New Improved** razor, 12 double edged blades (24 shaving edges) in nickel plated blade box, mixed badger hair lather brush and stick shaving soap in nickel plated metal containers.

Traveler — Triple silver plated razor, dozen *$80.00*

ONE IN A BOX

GILLETTE BLADES

Double edged wafer blades, highest quality, each blade in an individual envelope.

No. 6—Six blades in a sealed package, per dz. pkgs. *$6.00*

No. 12 — Twelve blades in a sealed package, per dz. pkgs *$12.00*

NO. 6, 1½ DOZEN PACKAGES. NO. 12 FIVE-SIXTHS DOZEN PACKAGES IN A CARTON.

DOZEN PACKAGES IN A CARTON

OLD TYPE GILLETE SAFETY RAZORS

THESE RAZORS DO NOT HAVE THE NEW IMPROVED GUARD AND CAP

BROWNIE

OLD TYPE

Imitation leather covered metal case $4\times2\times\frac{5}{8}$ in. Complete with Old Type razor and 3 double edged blades (6 shaving edges) in sealed packet.

Brownie — Nickel plated razor, dull finish .....per dozen *$12.00*

ONE IN A BOX

PIONEER

OLD STYLE

Leatherette covered case, purple lined, $3\frac{5}{8}\times2\frac{1}{8}\times1\frac{1}{4}$ in. Complete with Old Type Razor and 6 double edged blades (12 shaving edges).

Pioneer-Silver Plated Razor, dull finish, 2 blade boxes to match case .....per dozen *$30.00*

ONE IN A BOX

POCKET EDITION

OLD TYPE

Nickel plated metal case, purple lined $4\times2\frac{1}{8}\times\frac{3}{4}$ in. Complete with Old Type Razor and 6 double edged blades (12 shaving edges) in sealed packet.

Pocket Editon—Silver plated razor, dull finish, per dozen *$36.00*

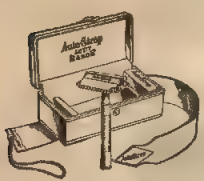
ONE IN A BOX

AUTO-STROP SAFETY RAZORS

Prices on Application

The razor that has revolutionized the safety razor business. Not an old razor rebuilt nor a "cheap" new set, but a real value accomplished by economical manufacture. The razor frame, blades and strop are the same as those furnished in the regular $5.00 sets excepting that the frame is nickel plated instead of gold or silver plated, and has a new model adjustable guard.

Model C—Valet, Auto Strop Razor, consists of nickel plated self stropping razor, three genuine Valet Auto Strop blades and one horsehide strop. The razor and blades are packed in an attractive metal case, beautifully finished in black, and velvet lined. The strop is packed in an individual carton, and the entire outfit is contained in a handsomely lithographed carton, per dozen *$18.00*



STANDARD OUTFIT

Cases of black, maroon, blue, green or red leather plush and satin lined. Size 1¾×4½ inches.

No. 600—Silver plated self-stropping razor, 12 blades, shell horsehide strop .....per dozen sets *$60.00*

ONE IN A BOX
ONE DOZEN IN A CARTON

FLAT METAL SET

These gold plated sets are especially designed and are an exceptionally good value. They are very attractive and desirable—take up but little space—making same especially attractive to the traveling salesman, tourist or camper. Strong and substantial.

Gold plated case, highly polished, gold plated blade box with **one extra auto-strop blade,** gold plated auto-strop safety razor with blade, selected leather strop, case is lined with purple velvet and satin, measures 3¼×3 1⁹⁄₁₆×1⅝ in. when closed. Each set in a purple flannel bag.

No. 350Q—Plain polished dome top case .....per dozen *$60.00*

No. 351Q—Diamond design embossed top case with name plate for engraving .....per dozen *$60.00*

ONE IN A CARTON

EMBOSSED METAL CASE

Size of case 4½×2×1⅛ in., lined with purple velvet and satin; the top of the case is artistically embossed, contains a silver plated self-stropping auto strop safety razor; shell horsehide strop, and twelve blades.

No. 251—Nickel plated case, per dozen sets *$60.00*

No. 264S—Gun metal finish case, per dozen sets *$60.00*

ONE IN A BOX
HALF DOZEN IN A CARTON

STANDARD OUTFIT IN METAL CASE

Heavily nickel plated and polished metal case of plain design, lined with purple velvet and satin, containing silver plated Self Stropping Razor, 12 Auto Strop Blades and specially prepared, selected leather Strop.

Put up in flannel bag.

No. 50½—W't per doz. 7¾ lbs., per dozen *$60.00*

ONE IN A BOX
ONE DOZEN IN A CARTON

MILITARY OUTFIT

Consists of silver plated self-stropping razor, 12 blades, fine quality leather strop, and oval non-breakable metal trench mirror which is hung on a leather tab which also serves as a hanger. Put up in a pocket edition flexible folding case. Measures 3¼×4½×¾ in., when closed, w't per doz. 6 lbs.

No. 7—Black leather, per dozen *$60.00*

No. 8—Genuine pigskin, per dozen *$60.00*

ONE IN A BOX
HALF DOZEN IN A CARTON

WATER COOLERS

SANITARY WATER BAGS

Constructed with steel wire holder and sliding clamp which securely fastens the spout and completely seals the open end of the bag.

These bags are made of material having the peculiar property of holding water and yet exuding enough moisture to prevent the sun from having any effect on the water inside.

First and second time filling, water will evaporate quite rapidly, after which bag is in condition to hold water indefinitely.

Guaranteed to keep water cool for forty-eight hours.

EGYPTIAN, REGULAR PATTERNS

Nos.	7	8	10	9
Height, in.	10	16	21	23½
Width, in.	12	12	12	15½
Cap., gal.	1	2	3	5
W't, doz., lbs.	9½	13	16½	22
Per dozen	$19.60	26.40	39.50	29.60

EGYPTIAN, AUTO SHAPES

Nos.	7A	18
Height, in.	10	11½
Width, in.	12	16
Cap., gal.	1	2
W't, doz., lbs.	9½	13
Per dozen	$19.60	26.40

WATER COOLERS

All wood U. C. patented, quarter sawed white oak, finished in beautiful golden oak with galvanized steel hoops.

The construction is double, in fact a barrel within a barrel, with a dead air chamber between all inner and outer walls. Large lever faucet.

Nos.	F901	F902	F903
W't, lbs.	14	20	21
Capacity, gal.	1	2	3
Each	$12.00★	14.40★	16.80★
Nos.	**F906**	**F910**	**F913**
W't, lbs.	36	60	80
Capacity, gal.	5	10	15
Each	$21.60★	33.60★	36.00★
Nos.	**F920**	**F925**	**F930**
W't, lbs.	100	115	125
Capacity, gal.	20	25	30
Each	$43.20★	48.00★	52.80

ONE IN A CASE

Carry a line of goods upon which you can rely.

The dealer who carries H. S. B. & Co. Brands marks his store as a place where the better goods are sold.

A house with over sixty-seven years' experience stands back of our brands.

WATER COOLERS

Glazed stoneware, sanitary and as easily cleaned as a china plate nickel plated faucet.

Nos.	T706	T708	T7010	T7012
Capacity, gal.	6	8	10	12
Height, in.	15	16	18	20
Diam, base, in.	11½	11½	12½	14
W't, lbs.	36	42	52	64
Each	$4.60	5.30	6.00	6.60
Nos.	**T706**	**T708**	**T7010**	**T7012**
Capacity, gal.	6	8	10	12
Height, in.	15	16	18	20
Diam, base, in.	11½	11½	12½	14
W't, lbs.	36	42	52	64
Each	$7.10	8.60	10.00	11.20

ONE IN A CRATE

Galvanized steel body japanned, assorted colors, nickel plated brass push button faucet, double walls insulated.

Nos.	T202	T203	T204
Capacity, gal.	2	3	4
Height, in.	17½	19½	22
Diam. of base, in.	10½	11½	12½
W't, lbs.	16	17	22
Each	$4.80	5.40	6.50
Nos.	**T206**	**T208**	**T210**
Capacity, gal.	6	8	10
Height, in.	24½	28	29½
Diam. of base, in.	14½	16	17½
W't, lbs.	25	43	48
Each	$7.80	9.60	12.00

WEIGHTS INCLUDE CRATE
ONE IN A CASE

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WATER COOLERS

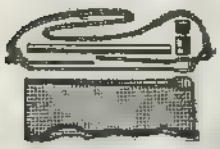
SANITARY WATER BAGS

Constructed with steel wire holder and sliding clamp which securely fastens the spout and completely seals the open end of the bag.

These bags are made of material having the peculiar property of holding water and yet exuding enough moisture to prevent the sun from having any effect on the water inside.

First and second time filling, water will evaporate quite rapidly, after which bag is in condition to hold water indefinitely.

Guaranteed to keep water cool for forty-eight hours.



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Nos.	7	8	10	9
Height, in.	10	16	21	23½
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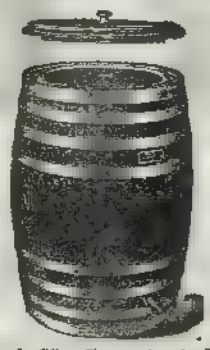

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The construction is double, in fact a barrel within a barrel, with a dead air chamber between all inner and outer walls. Large lever faucet.

Nos.	F901	F902	F903
W't, lbs.	14	20	21
Capacity, gal.	1	2	3
Each	$12.00★	14.40★	16.80★
Nos.	**F905**	**F910**	**F915**
W't, lbs.	35	60	80
Capacity, gal.	5	10	15
Each	$21.60★	33.60★	36.00★
Nos.	**F920**	**F925**	**F930**
W't, lbs.	100	115	130
Capacity, gal.	20	25	30
Each	$43.20★	48.00★	52.80

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ONE IN A CRATE

Galvanized steel body japanned, assorted colors, nickel plated brass push button faucet, double walls insulated.

Nos.	T202	T203	T204
Capacity, gal.	2	3	4
Height, in.	17½	19½	22
Diam. of base, in.	10½	11½	12½
W't, lbs.	16	17	22
Each	$4.80	5.40	6.50

Nos.	T206	T208	T210
Capacity, gal.	6	8	10
Height, in.	24½	28	29½
Diam. of base, in.	14½	16	17½
W't, lbs.	25	43	48
Each	$7.80	9.60	12.00

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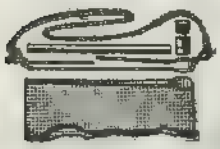

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Cap., gal.	1	2	3	5
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Per dozen	$19.60	26.40	39.50	29.60

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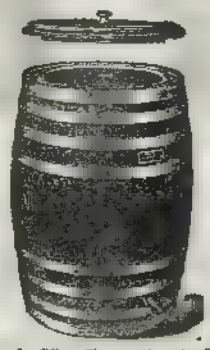

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Capacity, gal.	5	10	15
Each	$21.60★	33.60★	36.00★
Nos.	**F920**	**F925**	**F930**
W't, lbs.	100	115	130
Capacity, gal.	20	25	30
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Capacity, gal.	6	8	10
Height, in.	24½	28	29½
Diam. of base, in.	14½	16	17½
W't, lbs.	25	43	48
Each	$7.80	9.60	12.00

WEIGHTS INCLUDE CRATE
ONE IN A CASE

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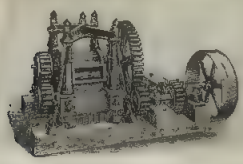
CANE MILLS

GLOBE—Steam Power.

With Double Back Gearing, Rubber Springs Steel Shaft and Brass Boxes.



These mills are capable of grinding the largest of tropical cane. They are light running and are of extra strength in proportion to their capacity.

The rolls are adjustable to any size cane by means of set screws.

The main roll is flanged and serrated, making the entire length of roll available, and rendering choking impossible.

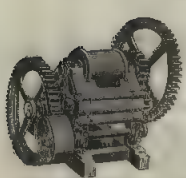
All necessary bolts, washers, monkey wrench and oil can are furnished with each mill.

Pulley 24x6 inches. Speed 80 to 100 revolutions per minute.

Nos.	5	6	7	8
Engine or Motor H. P.	2	4	5	7
Cap. cane per 12 hrs., tons	6	9	12	18
Cap. juice per 12 hrs., gal.	810	1250	1600	2400
Dia. large rolls, in.	8	10	10	12
Dia. small rolls, in.	6	8	8	10
Length of rolls, in.	8	10	12	16
Dia. shaft main roll, in.	2½	3	3	4
Dia. shaft minor roll, in.	2¼	2½	2½	3½
Approx. wt. each, lbs	1800	1935	2220	3300
Each	✦369 00	✦546 00	✦630 00	✦870 00

Shipped loose.

JUMBO



With Double Back Gearing.

Designed to meet the demand for a small power mill. The large roll is flanged so as to give full width of rolls for pressing. The rolls are grooved which insures regular and positive feed. By means of set screws the rolls are adjusted for large or small canes. High grade babbitt is used in the boxes. Roll boxes and counter shaft boxes are very strong.

Pulley 18x6 inches; speed 240 revolutions per minute; diameter large roll 8 in.; diameter small roll 6 in.; length roll 8 in.; diameter large roll shaft 2 7/16 in.; diameter small roll shaft 1 15/16 inches. The mill requires 3 to 5 horse power to operate.

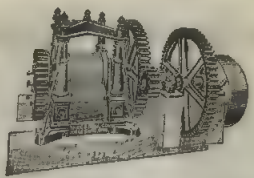
No.	J88
Capacity, tons per 12 hrs.	4 to 6
Shipping weight each, lbs	650
Each	✦$195 00

Shipped loose.

✦F. O. B. Ohio Factory Only.

CANE MILLS

GLOBE—For Gasoline Engine Power.



Fitted to gearing of extremely high ratio, thus adapting the mill to driving by means of the ordinary fast running gasoline engine or other high speed motive power. Housings are firmly seated in the bedplate; crushing strains are carried wholly by wrought iron stay bolts running between housings and bedplate, leaving to the cast iron parts only the duty of keeping the various parts in position and alignment. Heavy and substantial bridge plate joining housings at their top, prevents any lateral movement and insures ample strength.

Gears are heavily shrouded to near their pitch line; gears are proportioned for minimum friction with maximum durability.

Roll shafts are of large diameter and run in accurately boxed gun metal boxes, which may be oiled conveniently without interruption of operation.

Rolls are of hard and close grained iron insuring the best possible crushing and grinding surface. Roll pressure is regulated by means of heavy set screws, permitting proper adjustment to any size of cane. Main roll has ample flange, certain prevention from choking.

Nos.	10	20	30	40
Engine or Motor H. P.	3	5	7	9
Dia. large wheels, inches	8	10	10	12
Dia. small wheels, inches	6	8	8	10
Length, large wheels, ins.	8	10	12	16
Length, small wheels, ins.	8	10	12	16
Dia. shaft, main roll, ins.	2½	3	3	4
Dia. shaft, minor roll, ins.	2¼	2½	2½	3½
Dia. pulley, inches	24	24	24	26
Speed pulley R. P. M.	244	244	244	225
Cap. tons cane per 12 hrs.	6	9	12	18
Cap. gal. of juice per 12 hrs.	810	1250	1600	2400
Approx. wt. each lbs.	1330	2060	2350	3450
Each	✦$378 00	✦585 00	✦666 00	✦978 00

Shipped loose.

BAGASSE CARRIERS AND FEED TABLES

For Globe Cane Mills.

	Carriers.		Feed Tables.	
Nos.	1BC	2BC	1T	2T
For mill number	1G	2G		2P
Length, feet	10	10	41	4
Each	✦104 25	✦126 00	✦10 35	✦14 70

Shipped loose.

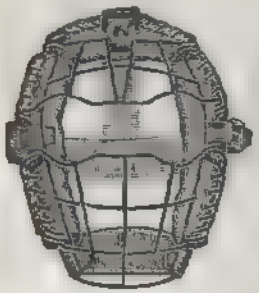
✦F. O. B. Ohio Factory Only.

Prices on Application

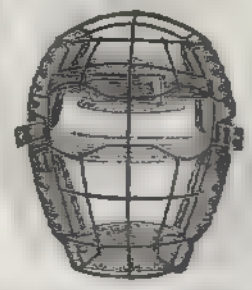
GOLDSMITH MASKS—BODY PROTECTORS—LEG GUARDS

Used by professional major and minor league catchers; the frame is constructed to allow absolute free vision; made from cold drawn, annealed steel wire, dull finished; all joints are electrically welded, imparting great strength.

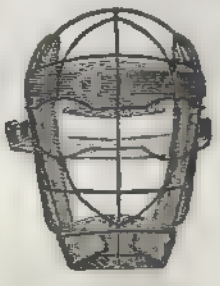
No. 267—Heavy, electric welded steel wire dull finished; removable sunshade; soft, hair-filled cushion; made to conform to the face; a strong well-built mask for absolute protection .....each *$5.00*



No. 266—Open vision style of heavy, cold drawn steel, with welded joints; hair padded, face fitting leather cushions; elastic web head-piece, with adjustable straps,
each *$4.00*



No. 261—A light, yet well constructed youth's mask; strong electric welded black steel frame; laced, leather side pads; adjustable head and forehead pieces .....each *$2.50*



YOUTH'S

No. 257—Made of strong, black enameled wire, with welded joints; leather side and chin pieces; adjustable head-piece; .....each *$2.00*

No. 254—Good serviceable electric welded light gauge black enamel wire, well made leather side and chin pads. Adjustable elastic head straps .....each *$1.50*

No. 7—Moulded sole leather knee cap; leg piece of drab buff finished cowhide, padded and stiffened with willow reeds; light in weight,
per pair *$11.00*

No. 4—Heavy moulded leather knee cap, felt lined; leg piece made of light, but strong reeds, well padded and covered with heavy white canvas
per pair *$10.00*

No. 300—Padded; made of strong khaki cross-stitched and firmly stuffed; designed to come well up over the shoulders and to fit the body perfectly; has adjustable back and shoulder straps; will absorb the hardest blow .....each *$8.00*

No. 200—Youth's model. Made of strong khaki, cross stitched and firmly stuffed. Same pattern throughout as No. 300, Big League model but smaller in design,
each *$6.50*

No. 175—Padded, heavy canvas, cross-stitched and fitted with heavy cane reeds, backed by best quality felt padding, adjustable back and shoulder straps,
each *$5.50*

UMPIRE PROTECTORS

No. 400—Padded model of strong khaki, cross stitched and firmly stuffed; will give ample protection,
each *$9.00*

Prices on Application

GOLDSMITH BASEMEN'S MITTS

No. 100LK—Professional, Medium Size Model; made of the finest golden brown horseshide obtainable; very soft and pliable, with a deep, ready-broke pocket, which lends itself to instant play; made with the professional model panel back, with an additional guard of sole leather at the top for protection of fingers; has full laced edge, with rawhide lace, and the patented Goldsmith wrist protector; used by many professionals .....each *$9.00*

No. 148—Very popular with amateurs; best quality horsehide throughout, with professional model panel back; double stitched throughout three-quarter laced edge and ready-broke ball pocket; built for service, each *$5.00*

No. 145—Well made of strong chrome tanned grain leather; padding is so arranged as to produce a natural ball pocket; three-quarter leather laced edge; Goldsmith patented wrist protector and hold fast finger grips, each *$4.00*

ABOVE, ONE IN A BOX

No. 101BK—The palm is made of highest grade cowhide; the back and fingers of selected horsehide; special asbestos pad and Goldsmith patented "Hold-Fast" finger grips which insure a firmer grip; fully laced for adjusting padding; Patented wrist protector; a wonderful mitt; correct in design and perfect in material and workmanship, each *$7.00*

No. 102W—Constructed of the finest grade of selected glove horsehide; professional panel back; finest asbestos felt pad; full laced edge; a glove for fast play, and sure and accurate fielding .....each *$7.50*

No. 153—A special model representing an unusual value; made of carefully selected horsehide throughout with professional model panel back; the felt pad is arranged to produce a ready formed ball-holding pocket; three-quarter laced; Goldsmith patented wrist protector; a well balanced mitt .....each *$6.00*

ABOVE, ONE IN A BOX

No. 103CV—"Bull Dog," light in weight; extremely flexible; an especially designed model with a fielder's glove thumb; best quality horsehide; high grade felt pad; three-quarter laced edge, double stitched seams; has the patented wrist protector .....each *$7.50*

No. 132—A well shaped mitt with fielder's thumb and professional panel back; well padded with deep pocket; laced edge for adjusting pad; double stitched ....each *$3.50*

No. 131—A strong substantial mitt of best quality mitt leather; snug fitting, light in weight and correctly padded; three-quarter laced edge, each *$3.00*

No. 123—Full size; strong chrome leather front and fingers; back of best quality duck; full laced edge; leather strap and buckle at the wrist, each *$2.00*

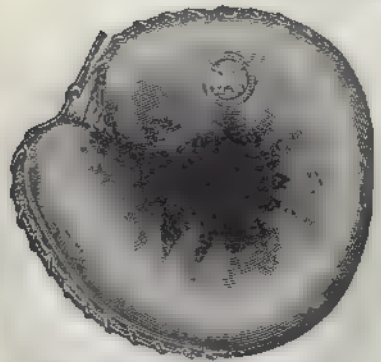
No. 114—Laced at thumb, buckle and strap ..... each *$1.50*

ABOVE, ONE IN A BOX

No. 110—Glove for the little shaver. Medium size, leather front. Khaki back-laced at thumb, ea. *$1.00*

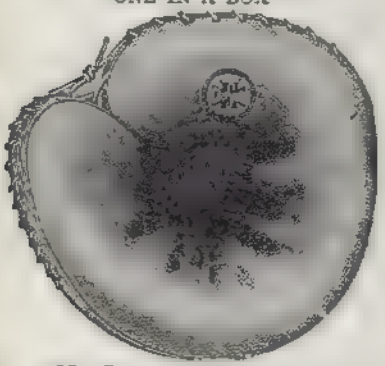
GOLDSMITH CATCHERS' MITTS

Prices on Application



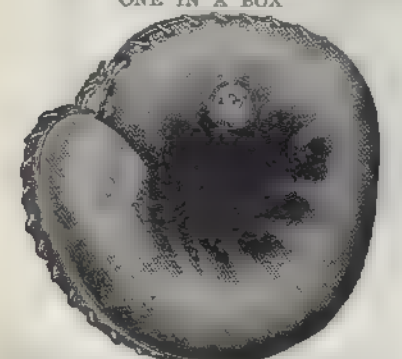
No. 14A—An exceptionally high grade mitt of selected golden tan cowhide. Scoop model. Best quality asbestos felt padded. Linen cord stitched throughout. Goldsmith patented wrist protector. Full raw hide laced edge. A mitt that will give long and satisfactory service, each *$12.00*

ONE IN A BOX

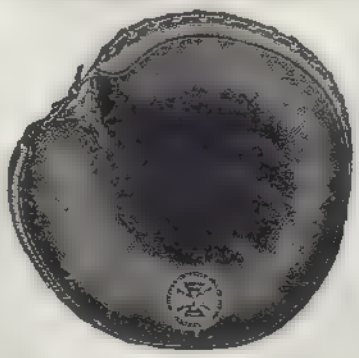


No. 15M—Scoop model. Best quality heavy pearl cow hide. Highest grade layer asbestos felt padding. Natural ball holding pocket. Full leather laced edge. Goldsmith patented wrist protector..each *$11.00*

ONE IN A BOX



No. 230—Semi-Pro Model. An exceptionally attractive mitt of genuine white cowhide. Good quality asbestos felt padding that will withstand hard pounding. Full leather laced edge for re-arranging padding. Goldsmith patented wrist protector, each *$6.00*



No. 234—A large, well made mitt, perfectly shaped, and of excellent wearing qualities. Choice heavy black cowhide, double stitched and well padded. Full laced edge. Deep roomy, lace-adjusting, ready-broke pocket *$7.00*

No. 226—A mitt for hard service. The palm is selected cowhide back and fingers firm, strong grain leather. Double stitched. Laced edge with rawhide lace for adjusting padding. Patented wrist protector. A great favorite, each *$5.00*

No. 185—Good quality sheepskin palm and fingers, leatherette edge and cloth back. Laced at thumb, each *$2.00*

No. 187—Good quality black mitten, leather throughout, well padded with natural ball pocket. Leather buckle and strap .....each *$2.50*

ONE IN A BOX

No. 182—Youth's size. Strong, chrome tanned leather palm and fingers. Leatherette edge and khaki back. Laced at thumb, each *$1.00*

HALF DOZEN IN A BOX

No. 210—Palm and fingers made of good quality cowhide, double stitched throughout. Well padded with full laced edge. Patented thumb lacing for adjusting ball pocket .....each *$4.50*

No. 209—An attractive well built mitt of best grade black cowhide. Double stitched throughout. Well padded to form a natural ball pocket. Full laced edge with waxed lace. Goldsmith patented wrist protector, each *$4.00*

No. 205—Palm and fingers made of good mitten leather throughout. Double stitched. Well padded with full laced edge. Goldsmith wrist protector .....each *$3.50*

No. 188—Good grade chrome tanned leather throughout. Laced edge for arranging for padding. Buckle and strap .....each *$3.00*

Championship Emblems

—GOLDSMITH—

TROPHY CUPS—WATCH FOBS

Are presented free of charge to the winning club of any league having adopted and used the Goldsmith Official League Ball throughout their schedule; the cups, as well as the Fobs, are distinctive and of high quality, and should prove an encouragement for the formation of amateur leagues; a special contract giving full particulars and details will be sent upon request.

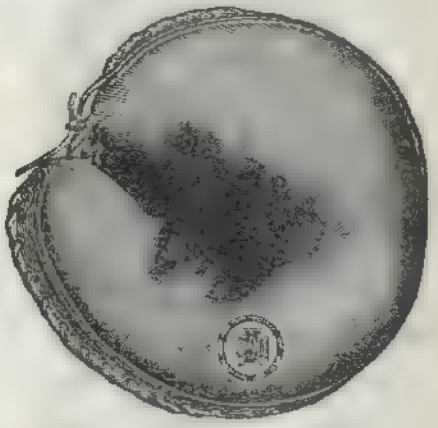
Prices on Application

GOLDSMITH "PROFESSIONAL MODEL" CATCHERS' MITTS

No. 10 CM—"Chief Meyers" Model; Designed and used by "Chief Meyers," former famous National League catcher. Moulded, scoop shape, of selected tan, waterproofed cowhide. Stitched with extra heavy waxed linen thread. The pad is of special construction, consisting of layers of absorbent felt on a foundation of flexible cowhide. This pad will absorb the pounding of the fastest pitching. The patented (Oct. 24, 1916) Goldsmith Finger Grips and the patented wrist protector prevent turning and slipping. Light in weight and easily handled. Full laced edge with rawhide lacing .....each *$14.00*

ONE IN A BOX

Rar.den
Cincinnati Reds



No. 11R—"Walter Schmidt" Model; made of specially tanned and waterproofed cowhide. Hand made asbestos felt pad backed with leather that will not break down. Stitched throughout with heavy waxed linen cord. Full rawhide laced edge. Goldsmith patented buckle protector. A perfect well balanced mitt correct in design and warranted to give long service.
each *$12.00*

ONE IN A BOX

No. 12EG—"Schang" Model; a light weight but well constructed mitt of selected tough olive cowhide. Made on the popular moulded scoop shape pattern. Goldsmith patented "Finger-Grips;" Especially built pad of the best absorbent felt, which will stand heavy wear. Rawhide thumb lace for adjusting size and depth of pocket; full laced edge with rawhide lacing .....each *$10.00*

ONE IN A BOX

No. 13WC—"Bill Killifer" Model, stop the fast ones with this high grade professional mitt made of genuine selected cowhide. Thin edge scoop model. Fits the hand snugly and is light in weight. Asbestos felt pad. Full laced edge. Goldsmith patented wrist protector keeps the glove from turning and prevents chafing of the wrist.
each *$9.00*

ONE IN A BOX

Prices on Application

GOLDSMITH "PROFESSIONAL MODEL" CATCHERS' MITTS

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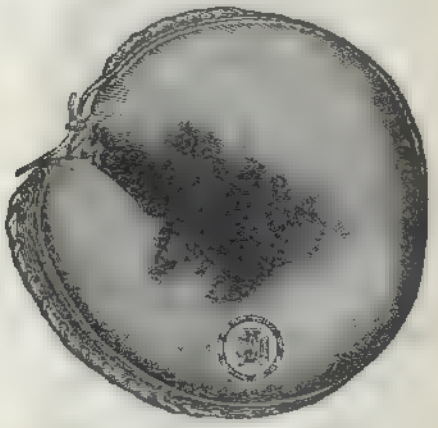
Cincinnati Reds



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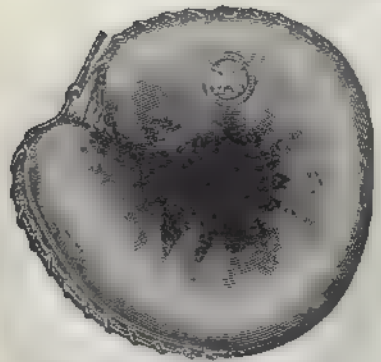
GOLDSMITH CATCHERS' MITTS

Prices on Application



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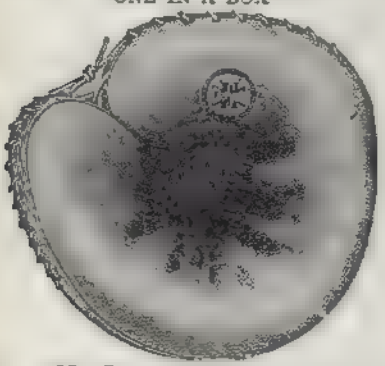

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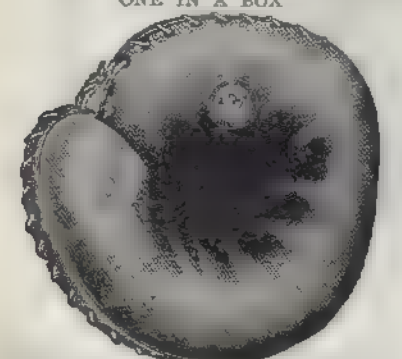
ONE IN A BOX



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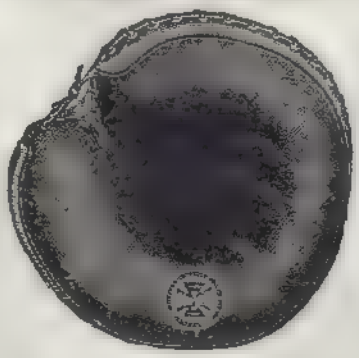

No. 234—A large, well made mitt, perfectly shaped, and of excellent wearing qualities. Choice heavy black cowhide, double stitched and well padded. Full laced edge. Deep roomy, lace-adjusting, ready-broke pocket *$7.00*

No. 226—A mitt for hard service. The palm is selected cowhide back and fingers firm, strong grain leather. Double stitched. Laced edge with rawhide lace for adjusting padding. Patented wrist protector. A great favorite, each *$5.00*

No. 185—Good quality sheepskin palm and fingers, leatherette edge and cloth back. Laced at thumb, each *$2.00*

No. 187—Good quality black mitten, leather throughout, well padded with natural ball pocket. Leather buckle and strap .....each *$2.50*

ONE IN A BOX

No. 182—Youth's size. Strong, chrome tanned leather palm and fingers. Leatherette edge and khaki back. Laced at thumb, each *$1.00*

HALF DOZEN IN A BOX

No. 210—Palm and fingers made of good quality cowhide, double stitched throughout. Well padded with full laced edge. Patented thumb lacing for adjusting ball pocket .....each *$4.50*

No. 209—An attractive well built mitt of best grade black cowhide. Double stitched throughout. Well padded to form a natural ball pocket. Full laced edge with waxed lace. Goldsmith patented wrist protector, each *$4.00*

No. 205—Palm and fingers made of good mitten leather throughout. Double stitched. Well padded with full laced edge. Goldsmith wrist protector .....each *$3.50*

No. 188—Good grade chrome tanned leather throughout. Laced edge for arranging for padding. Buckle and strap .....each *$3.00*

Championship Emblems

—GOLDSMITH—

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Prices on Application

No. 73—"Oil Tanned". Try this model for greater fielding confidence; made from especially selected strong tan glove leather, leather lined throughout with welted seams, well padded, laced wrist for adjusting padding to suit wearer .....each *$4.00*

No. 70—Helps you grab the ball right, high grade horsehide that will give unusual wear; correctly padded, full leather lined throughout, leather welted seams and laced wrist *$3.50*

ONE IN A BOX

No. 69—A corking good glove which is an aid to your game; choice flexible smoked chrome tanned grain leather, leather lined throughout, strongly stitched leather welted seams, full laced wrist .....each *$3.25*

No. 67—High grade chrome tanned grain leather, leather lined throughout, leather welted seams, well padded for instant use, laced at wrist, a large and serviceable model, each *$3.00*

ONE IN A BOX

No. 43—Full size, of black chrome tanned leather, palm lined with good grade leather, leather welted seams, well padded with flexible felt, laced wrist .....each *$2.50*

No. 57—Best quality pearl glove leather, the glove full leather lined, correctly padded with felt to make a natural pocket .....each *$3.00*

No. 50—Oak chrome glove leather, leather lined palm, back felt lined, well padded throughout, strongly stitched, welted seams, each *$2.50*

ONE IN A BOX

No. 37—Selected glove leather, well padded throughout, leather lined palm, leather welted seams, each *$2.25*

No. 34—Good grade smoked glove leather, well padded leather lined palm, welted seams, strongly stitched .....each *$2.25*

No. 29—Good quality sheepskin, palm lined with leather, best felt padding, welted seams .....each *$2.00*

No. 27—Good quality black glove leather, palm lined with leather, well padded to make a ready broke pocket .....each *$1.75*

ONE IN A BOX

No. 20—Outseam style, large size glove of good quality tan glove leather, palm lined with leather, well padded .....each *$1.50*

THREE IN A BOX

No. 17—Youth's size glove, black leather, leather lined palm, flexible padding, a good value, each *$1.00*

No. 14—A glove for the small boy, tan leather throughout, outseam style, felt padded throughout, each *$0.75*

ONE DOZEN IN A BOX

Prices on Application

GOLDSMITH

FIELDERS' GLOVES

No. 8SF—Wilbur Cooper Model. A large ready broke oil tanned model of the best quality horsehide. Full leather lined. Laced with leather laces between thumb and index finger, correctly padded with ready broke pocket. Laced wrist for re-adjusting padding,
each $6.00

No. 9RL—J. Clyde Milan Model. An exceptionally well made glove of the best quality cream horsehide. Tan welted seams. Full leather lined, correctly padded throughout. Comfortable and roomy. Full leather laced wrist for re-adjusting padding. A big league design,
each $6.00

No. 10HG—Max Carey, short fingered model. Made of the best quality pearl horsehide. Tan welted seams. Full laced leather lined. Lightly padded throughout. Laced wrist for re-adjusting padding. A splendid glove for hard wear,
each $5.50

No. 72—A splendid large size model of genuine black horsehide. Tan leather welted seams. Full leather lined. Correctly padded with ready broke ball holding pocket,
each $3.50

No. 68—Especially well made of the best quality buff horsehide. Palm and front of fingers leather lined. Leather welted seams. A large, well proportioned model that will withstand hard wear,
each $3.00

Prices on Application

GOLDSMITH "PROFESSIONAL MODEL" FIELDERS' GLOVES

No. 1TB—The "Peer" of All; a combination infielder's and first baseman's glove; made of the finest horsehide, waterproof and oil tempered; out-seam stitched with heavy linen cord; has special web fingers and ready-broke pocket; finest kid leather lining with highest grade felt padding; full laced wrist, allowing adjustment of padding to suit the wearer; a glove of exceptional wearing qualities, each $7.50

No. 2KB—Hans Wagner Model; an extra large, long fingered, easy-fitting model; made of the finest tan horsehide; well padded in thumb and heel; stitched throughout with heavy linen thread; leather welted seams; oil tempered by special process, adding life as well as flexibility to the leather, it is ready-broke for immediate use; full kid lined and padded with the best quality felt; full laced wrist ....each $7.00

ABOVE, ONE IN A BOX

No. 3B—"Pat Duncan" Model; a very full and roomy model for the player who prefers an easy fitting model; made of the finest glove tanned horsehide; very soft and pliable; leather lined throughout, with welted seams; correctly padded and ready-broke for immediate use; the laced wrist permits the padding to be adjusted as desired, each $5.50

No. 4K—"Walter Johnson" Model; this glove represents a masterpiece of workmanship; the material is finest black flexible horsehide, with full kid lining; slightly raised heel, no padding in the palm, producing a natural ready-broke, ball-holding pocket; rawhide laced wrist; made to slip on and start playing, each $5.50

ABOVE, ONE IN A BOX

No. 5XL—"Carl Mays" Model; the leather used in this glove is genuine drab velvet finish horsehide; full leather lined, with tan welted seams; sewed with strong linen cord; snug fitting and lightly padded in thumb heel and little finger, producing a natural pocket laced wrist for adjusting padding; a glove which will give satisfactory service .....each $7.00

No. 6G—"Bigbee" Model; scoop up the hot ones with this short fingered model; especially adapted to infield play; cream finish horsehide, full leather lining; no padding in palm, insures a firmer grip; laced at wrist for adjusting pad; a very high grade glove .....each $5.00

No. 7DW—"Roush" Model; made of finest Golden Brown Cowhide; out-seam stitched with heavy linen cord; kid leather lining, with highest grade felt padding; full laced wrist allowing adjustment of padding; a glove of exceptional wearing qualities .....each $5.00

ABOVE, ONE IN A BOX

THE TRADE MARK

GUARANTEED ATHLETIC GOODS — TRADE — GOLDSMITH — MARK — CINCINNATI, OHIO, U.S.A.

The Goldsmith Guarantee

Is an expression of our faith and confidence in the quality and workmanship of every article bearing the Goldsmith Trade Mark.

Any article which may prove unsatisfactory or develop a defect during use will be repaired or replaced if returned express charges or return postage prepaid.

P. Goldsmith's Sons Cincinnati, Ohio, U. S. A.

Some of the Many Major League Players Who Use Goldsmith Goods

ALEXANDER—Chicago Cubs

SALLEE—New York Giants

GEORGE SISLER—St. Louis Browns

KERR—Chicago White Sox

GOLDSMITH OFFICIAL LEAGUE BASE BALLS

Liven up your game. Get more speed and action. Get real playing satisfaction by using a Goldsmith Official League Ball. Official for use in all game, in organized ball, has been used by twenty professional Leagues as their Official Ball.

Made with a pure para rubber center wound with wool yarn under tension which produces a ball just the necessary resiliency. Expert supervision and constant inspection insure uniformity. Especially selected tough horsehide cover hand stitched with red and black waxed linen cord. Positively guaranteed to give not less than eighteen innings service without ripping, softening or losing its shape, and to conform to the official specifications in every detail. Each ball wrapped in tissue paper, separately boxed and sealed according to official regulations. Weighs 5 ozs. and measures 9 in. in circumference.

No. 97—W't per doz. 4 lbs. .....each *$2.00*

ONE IN A BOX, ONE DOZEN IN A CARTON

REACH OFFICIAL LEAGUE BASE BALLS

The American League uses this ball exclusively.

A guarantee of its quality.

Guaranteed to last a full game of nine innings and give entire satisfaction.

THE CORK CENTER BALL

Used Exclusively by the American League.

The individual quality of this ball is so well known to the entire Base Ball World that detailed description is unnecessary. Exact conformity with official specifications makes it Official for all games. Guaranteed to last a full game of nine innings and give entire satisfaction. Weighs 5 oz.and measures 9 in. in circumference.

No. 0—Reach, w't per doz. 4 lbs. .....per dozen $32.00

ONE IN A BOX, ONE DOZEN IN A CARTON

GOLDSMITH BASE BALLS

No. 89—American League Ball. Selected wool yarn wound over a pure rubber center. Genuine horsehide cover handstitched with red and green waxed cord. A ball of unusual elasticity and durability, of regulation size and weight. Guaranteed for nine full innings. Each ball packed in a separate sealed carton .....each *$1.50*

No. 94—Junior Official League Ball. A league ball slightly under regulation size. Rubber center wound with wool yarn. Red and black stitched horsehide cover.

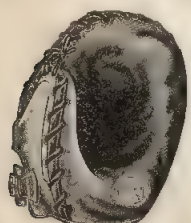
Guaranteed nine innings. Wrapped in tissue and separately boxed, each *$1.50*

No. 91—Official Municipal League Ball; a ball of unusual merit; pure para gum center, wound with fine quality wool yarn; horsehide cover, with red and blue stitching; tested for weight and size, and warranted offcial in every respect; wrapped in tissue and packed in separate sealed cartons .....each *$1.25*

Prices on Application

GOLDSMITH BASEMEN'S MITTS

No. 100LK—Professional, Medium Size Model; made of the finest golden brown horsehide obtainable; very soft and pliable, with a deep, ready-broke pocket, which lends itself to instant play; made with the professional model panel back, with an additional guard of sole leather at the top for protection of fingers; has full laced edge, with rawhide lace, and the patented Goldsmith wrist protector; used by many professionals .....each *$8.00*



No. 148—Very popular with amateurs; best quality horsehide throughout, with professional model panel back; double stitched throughout three-quarter laced edge and ready-broke ball pocket; built for service, each *$5.00*

No. 145—Well made of strong chrome tanned grain leather; padding is so arranged as to produce a natural ball pocket; three-quarter leather laced edge; Goldsmith patented wrist protector and hold fast finger grips, each *$4.00*

ABOVE, ONE IN A BOX

No. 101BK—The palm is made of highest grade cowhide; the back and fingers of selected horsehide; special asbestos pad and Goldsmith patented "Hold-Fast" finger grips which insure a firmer grip; fully laced for adjusting padding; Patented wrist protector; a wonderful mitt; correct in design and perfect in material and workmanship, each *$7.00*

No. 102W—Constructed of the finest grade of selected glove horsehide; professional panel back; finest asbestos felt pad; full laced edge; a glove for fast play, and sure and accurate fielding .....each *$7.50*

No. 153—A special model representing an unusual value; made of carefully selected horsehide throughout with professional model panel back; the felt pad is arranged to produce a ready formed ball-holding pocket; three-quarter laced; Goldsmith patented wrist protector; a well balanced mitt .....each *$6.00*

ABOVE, ONE IN A BOX

No. 103CV—"Bull Dog," light in weight; extremely flexible; an especially designed model with a fielder's glove thumb; best quality horsehide; high grade felt pad; three-quarter laced edge, double stitched seams; has the patented wrist protector .....each *$7.50*

No. 132—A well shaped mitt with fielder's thumb and professional panel back; well padded with deep pocket; laced edge for adjusting pad; double stitched ....each *$3.50*

No. 131—A strong substantial mitt of best quality mitt leather; snug fitting, light in weight and correctly padded; three-quarter laced edge, each *$3.00*

No. 123—Full size; strong chrome leather front and fingers; back of best quality duck; full laced edge; leather strap and buckle at the wrist, each *$2.00*

No. 114—Laced at thumb, buckle and strap .....each *$1.50*

ABOVE, ONE IN A BOX

No. 110—Glove for the little shaver. Medium size, leather front, Khaki back laced at thumb, ea. *$1.00*

Prices on Application

GOLDSMITH MASKS—BODY PROTECTORS—LEG GUARDS

Used by professional major and minor league catchers; the frame is constructed to allow absolute free vision; made from cold drawn, annealed steel wire, dull finished; all joints are electrically welded, imparting great strength.

No. 267—Heavy, electric welded steel wire dull finished; removable sunshade; soft, hair-filled cushion; made to conform to the face; a strong well-built mask for absolute protection .....each *$5.00*

No. 266—Open vision style of heavy, cold drawn steel, with welded joints; hair padded, face fitting leather cushions; elastic web head-piece, with adjustable straps, each *$4.00*

No. 261—A light, yet well constructed youth's mask; strong electric welded black steel frame; laced, leather side pads; adjustable head and forehead pieces .....each *$2.50*

YOUTH'S

No. 257—Made of strong, black enameled wire, with welded joints; leather side and chin pieces; adjustable head-piece; .....each *$2.00*

No. 254—Good serviceable electric welded light gauge black enamel wire, well made leather side and chin pads. Adjustable elastic head straps .....each *$1.50*

No. 7—Moulded sole leather knee cap; leg piece of drab buff finished cowhide, padded and stiffened with willow reeds; light in weight, per pair *$11.00*

No. 4—Heavy moulded leather knee cap, felt lined; leg piece made of light, but strong reeds, well padded and covered with heavy white canvas per pair *$10.00*

No. 300—Padded; made of strong khaki cross-stitched and firmly stuffed; designed to come well up over the shoulders and to fit the body perfectly; has adjustable back and shoulder straps; will absorb the hardest blow .....each *$8.00*

No. 200—Youth's model. Made of strong khaki, cross stitched and firmly stuffed. Same pattern throughout as No. 300, Big League model but smaller in design, each *$6.50*

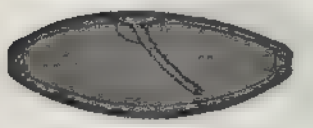
No. 175—Padded, heavy canvas, cross-stitched and fitted with heavy cane reeds, backed by best quality felt padding, adjustable back and shoulder straps, each *$5.50*

UMPIRE PROTECTORS

No. 400—Padded model of strong khaki, cross stitched and firmly stuffed; will give ample protection, each *$2.00*

GOLDSMITH FOOT BALL GOODS

RUGBY BLADDERS



Guaranteed pure gum rubber.

No. 4—Size 4, for Nos. 5S and 5L balls, w't per doz. 1¼ lbs., per dozen $14.80

No. 2—Size 5, for Nos. 5G, 5K, 5T and 5H balls, w't per doz. 2 lbs., per dozen $13.00

No. 1—Intercollegiate, size 5, for Nos. 5RS and 5F balls, w't per doz. 2 lbs. .....per dozen $14.80

PACKED LOOSE

LACING NEEDLES

No. 4—Regulation .....each *$0.05*

RAWHIDE LACES

No. 10—40-inch length....each *$0.10*
No. 8—30-inch length....each *.05*

SHOULDER HARNESS

Are made to fit the body easily and snugly. Protection, durability and lightness are the cardinal points of superiority. Best grade sole leather, stiffened shoulder caps and collar bone protection, heavy white or gray felt padding, combined with scientific construction make them without an equal. Their use gives added confidence and makes for better play.

No. 31—For linesman; perfect protecton in scrimmage and rough play; designed by a prominent coach, the chief feature of this pad is the double thickness of white felt padding which covers chest and collarbone; faced with solid sole leather; shoulder caps are molded sole leather; patented "Jiffy" lacing; light and won't bind .....each *$6.50*

ONE IN A BOX

No. 20—A "high" and "prep" school pad that really protects; solid sole leather over chest and collar bone, with moulded leather shoulder caps; well padded throughout with gray felt; a pad that can't be beat, each *$5.00*

ONE IN A BOX

No. 18—Light weight model for fast work; solid leather shoulder caps; sole leather over collar bone; well padded with gray felt...each *$4.00*

ONE IN A BOX

HELMETS

No. 50—The favorite helmet of many colleges and universities; selected tan six-ounce harness leather; solid moulded top, ears and back; padded with white felt; leather lined sweatband, elastic forehead adjustment, each *$6.50*

No. 43—Made of heavy black waterproof sole leather, hand moulded and stiffened; best white felt padding; well ventilated; elastic forehead adjustment; adjustable chin strap .....each *$5.00*

ONE IN A BOX

No. 41—A soft light weight model of black leather, lined throughout with good grade white felt; hand moulded and stiffened ear tabs; adjustable elastic chin strap, correctly ventilated .....each *$4.50*

No. 29—Black moulded top and ear tabs; gray felt padded; adjustable chin strap .....each *$3.00*

ONE IN A BOX

GOLDSMITH OFFICIAL RUGBY FOOT BALLS

Prices on Application

Guaranteed for two full games and to comply with the official specifications, official for use in any game. Used by the leading universities throughout the country.

OFFICIAL "SURE-GRIP"

(Patented)

The ball with the patented stitching, the biggest improvement in foot ball construction in years. Made with a heavy seven-ply waxed linen cord stitching along the seams. Positively prevents stretch and affords a "sure-grip." The leather is the finest imported English Tempered Hide, backed with two heavy specially constructed linings. Shaped with small pointed ends. With pure gray gum bladder, leather lace and lacing needle.

No. 5RS—Each $10 50

ONE IN A BOX

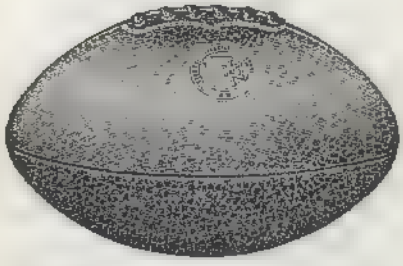
OFFICIAL INTERCOLLEGIATE

The ball for better punting and passing. Designed and constructed by experts, with small nicely tapered ends which permit a firmer hold for accurate forward passing. Made of the finest imported English Process Tempered Hide, backed with two heavy especially constructed linings which prevent stretch. Stitched throughout with seven ply linen cord. Carefully inspected and tested for weight, size and shape. A ball for fast play. With pure gray gum bladder, leather lace and lacing needle.

No. 5F—Each $10.00

ONE IN A BAG

GOLDSMITH RUGBY FOOT BALLS



No. 5G—A very durable ball of American pebble grain cowhide, backed with a heavy canvas lining which prevents stretch; stitched with heavy linen cord; regulation size and weight; pure gray gum bladder, leather lace and lacing needle .....each $6.00

No. 5T—A ball for hard and rough usage, good quality, genuine pebble grain pig skin, backed with a heavy canvas lining; stitched throughout with linen cord, regulation size, packed with pure gray gum bladder, leather lace and lacing needle, each $5.00

ONE IN A BOX

No. 5K—A heavy pebble grain foot ball leather, reinforced with a strong canvas lining, is used in this ball; made regulation size; very serviceable; complete with pure gray gum bladder .....each $3.00

No. 5H—Made of selected pebble India grain leather with canvas lining; strongly stitched throughout; regulaton size; a ball that will give exceptional service; with pure gray gum bladder .....each $2.50

ONE IN A BOX

No. 5S—A medium sized ball, of pebble grain foot ball leather; linen stitching throughout and canvas backing; complete with good grade gum bladder .....each $2.25

No. 5L — Especially selected tan leather, reinforced with a canvas backing; a very serviceable ball for the little fellow; complete with good grade pure gray gum bladder, each $2.00

ONE IN A BOX

GOLDSMITH OFFICIAL RUGBY FOOT BALLS

Prices on Application

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(Patented)

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No. 5RS—Each *$10.50*

ONE IN A BOX

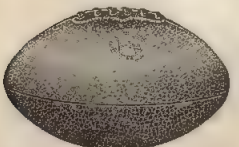
OFFICIAL INTERCOLLEGIATE

The ball for better punting and passing. Designed and constructed by experts, with small nicely tapered ends which permit a firmer hold for accurate forward passing. Made of the finest imported English Process Tempered Hide, backed with two heavy especially constructed linings which prevent stretch. Stitched throughout with seven ply linen cord. Carefully inspected and tested for weight, size and shape. A ball for fast play. With pure gray gum bladder, leather lace and lacing needle.

No. 5F—Each *$10.00*

ONE IN A BAG

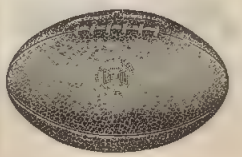
GOLDSMITH RUGBY FOOT BALLS



No. 5Q—A very durable ball of American pebble grain cowhide, backed with a heavy canvas lining which prevents stretch; stitched with heavy linen cord; regulation size and weight; pure gray gum bladder, leather lace and lacing needle .....each *$6.00*

No. 5T—A ball for hard and rough usage, good quality, genuine pebble grain pig skin, backed with a heavy canvas lining; stitched throughout with linen cord, regulation size, packed with pure gray gum bladder, leather lace and lacing needle, each *$5.00*

ONE IN A BOX



No. 5K—A heavy pebble grain foot ball leather, reinforced with a strong canvas lining, is used in this ball; made regulation size; very serviceable; complete with pure gray gum bladder .....each *$3.00*

No. 5H—Made of selected pebble India grain leather with canvas lining; strongly stitched throughout; regulaton size; a ball that will give exceptional service; with pure gray gum bladder .....each *$2.50*

ONE IN A BOX

No. 5S—A medium sized ball, of pebble grain foot ball leather; linen stitching throughout and canvas backing; complete with good grade gum bladder .....each *$2.25*

No. 5L — Especially selected tan leather, reinforced with a canvas backing; a very serviceable ball for the little fellow; complete with good grade pure gray gum bladder, each *$2.00*

ONE IN A BOX

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RUGBY BLADDERS

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No. 2—Size 5, for Nos. 5G, 5K, 5T and 5H balls, w't per doz. 2 lbs., per dozen $13.00

No. 1—Intercollegiate, size 5, for Nos. 5RS and 5F balls, w't per doz. 2 lbs. .....per dozen $14.80

PACKED LOOSE

LACING NEEDLES

No. 4—Regulation .....each *$0.05*

RAWHIDE LACES

No. 10—40-inch length....each *$0.10*
No. 8—30-inch length....each *.05*

SHOULDER HARNESS

Are made to fit the body easily and snugly. Protection, durability and lightness are the cardinal points of superiority. Best grade sole leather, stiffened shoulder caps and collar bone protection, heavy white or gray felt padding, combined with scientific construction make them without an equal. Their use gives added confidence and makes for better play.

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ONE IN A BOX

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ONE IN A BOX

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No. 43—Made of heavy black waterproof sole leather, hand moulded and stiffened; best white felt padding; well ventilated; elastic forehead adjustment; adjustable chin strap .....each *$5.00*

ONE IN A BOX

No. 41—A soft light weight model of black leather, lined throughout with good grade white felt; hand moulded and stiffened ear tabs; adjustable elastic chin strap, correctly ventilated .....each *$4.50*

No. 29—Black moulded top and ear tabs; gray felt padded; adjustable chin strap .....each *$3.00*

ONE IN A BOX

Prices on Application

No. 73—"Oil Tanned". Try this model for greater fielding confidence; made from especially selected strong tan glove leather, leather lined throughout with welted seams, well padded, laced wrist for adjusting padding to suit wearer .....each *$4.00*

No. 70—Helps you grab the ball right, high grade horsehide that will give unusual wear; correctly padded, full leather lined throughout, leather welted seams and laced wrist *$3.50*

ONE IN A BOX

No. 69—A corking good glove which is an aid to your game; choice flexible smoked chrome tanned grain leather, leather lined throughout, strongly stitched leather welted seams, full laced wrist .....each *$3.25*

No. 67—High grade chrome tanned grain leather, leather lined throughout, leather welted seams, well padded for instant use, laced at wrist, a large and serviceable model, each *$3.00*

ONE IN A BOX

No. 43—Full size, of black chrome tanned leather, palm lined with good grade leather, leather welted seams, well padded with flexible felt, laced wrist .....each *$2.50*

No. 57—Best quality pearl glove leather, the glove full leather lined, correctly padded with felt to make a natural pocket .....each *$3.00*

No. 50—Oak chrome glove leather, leather lined palm, back felt lined, well padded throughout, strongly stitched, welted seams, each *$2.50*

ONE IN A BOX

No. 37—Selected glove leather, well padded throughout, leather lined palm, leather welted seams, each *$2.25*

No. 34—Good grade smoked glove leather, well padded leather lined palm, welted seams, strongly stitched .....each *$2.25*

No. 29—Good quality sheepskin, palm lined with leather, best felt padding, welted seams .....each *$2.00*

No. 27—Good quality black glove leather, palm lined with leather, well padded to make a ready broke pocket .....each *$1.75*

ONE IN A BOX

No. 20—Outseam style, large size glove of good quality tan glove leather, palm lined with leather, well padded .....each *$1.50*

THREE IN A BOX

No. 17—Youth's size glove, black leather, leather lined palm, flexible padding, a good value, each *$1.00*

No. 14—A glove for the small boy, tan leather throughout, outseam style, felt padded throughout, each *$0.75*

ONE DOZEN IN A BOX

Prices on Application

GOLDSMITH

FIELDERS' GLOVES

No. 8SF—Wilbur Cooper Model. A large ready broke oil tanned model of the best quality horsehide. Full leather lined. Laced with leather laces between thumb and index finger, correctly padded with ready broke pocket. Laced wrist for re-adjusting padding,
each $6.00

No. 9RL—J. Clyde Milan Model. An exceptionally well made glove of the best quality cream horsehide. Tan welted seams. Full leather lined, correctly padded throughout. Comfortable and roomy. Full leather laced wrist for re-adjusting padding. A big league design,
each $6.00

No. 10HG—Max Carey, short fingered model. Made of the best quality pearl horsehide. Tan welted seams. Full laced leather lined. Lightly padded throughout. Laced wrist for re-adjusting padding. A splendid glove for hard wear,
each $5.50

No. 72—A splendid large size model of genuine black horsehide. Tan leather welted seams. Full leather lined. Correctly padded with ready broke ball holding pocket,
each $3.50

No. 68—Especially well made of the best quality buff horsehide. Palm and front of fingers leather lined. Leather welted seams. A large, well proportioned model that will withstand hard wear,
each $3.00

Prices on Application

GOLDSMITH

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Prices on Application

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ONE IN A BOX

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ONE IN A BOX

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No. 14—A glove for the small boy, tan leather throughout, outseam style, felt padded throughout, each *$0.75*

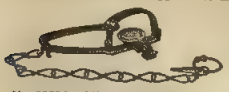
ONE DOZEN IN A BOX

STEEL GAME TRAPS

VICTOR

Although less expensive than the Newhouse, these are the best Traps to be had at the price.

The Professional Trapper will use the Newhouse, but Farmers and Amateur Trappers, who find a cheaper Trap answers their needs, are satisfied with the Victor; Victor Traps are supplied with Patent Steel Wire Chains.

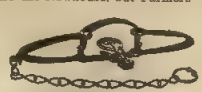


No. 3325A—SINGLE SPRING

Size 0—For Rat, Gopher, Weasel, etc.
Size 1—For Muskrat, Skunk, Opossum, etc.
Size 1½—For Mink, Skunk, Raccoon, etc.

Size Nos.	0	1	1½
Spread Jaws, In.	3½	4	4⅝
Diam. Pan, In.	1⅝	1⅝	2⅛
Lgth. Trap, In.	6⅜	8	9¾
Lgth. Chain, In.	16½	18½	20
Wt. Doz., Lbs.	5	7½	10½
Per Dozen	$3.42	4.02	6.10

Size 0 —10 Dozen in Bus. Basket
Size 1 — 8 Dozen in Bus. Basket
Size 1½— 5 Dozen in Bus. Basket



No. 3325B—DOUBLE SPRING

Size 2—For Fox, Raccoon, Fisher, etc.
Size 3—For Coyote, Fox, Badger, etc.
Size 4—For Lynx, Coyote, Badger, etc.

Size Nos.	2	3	4
Spread Jaws, In.	4⅝	5¼	5⅞
Diam. Pan, In.	2½	2⅝	2⅞
Lgth. Trap, In.	14⅝	17	19
Lgth. Chain, In.	20	22	23
Wt. Doz., Lbs.	13¼	21½	34½
Per Dozen	$8.42	14	28 17.20

Size 2—15 Dozen in Barrel.
Size 3—10 Dozen in Barrel.
Size 4— 4 Dozen in Barrel.

No. 3325C—HIGH GRIP

The wide Double Jaws rarely break bones, and grip so high up on a Muskrat or Skunk that he cannot twist or gnaw out.

For Skunk, Muskrat, Mink, Raccoon, etc.

Size Nos.	91	91½
Spread of Jaws, In.	4¾	5⅝
Diam Pan, In.	1⅝	2¼
Length Trap, In.	8	8
Length Chain, In.	19½	19½
Weight Dozen, Lbs.	8	12
Per Dozen	$6.34	9.02

Size 91 —35 Dozen in Barrel.
Size 91½—23 Dozen in Barrel.

GIANT

With Wide Spreading Jaws that catch way up on Animals Leg; Patented Humped Cross prevents freezing or accumulation of mud, dirt, etc.

For Skunk, Muskrat, Mink, etc.

No.	3325D4
Spread of Jaws, In.	4⅞
Diam. of Pan, In.	2¼
Length Trap, In.	8½
Length Chain, In.	20
Weight Dozen, Lbs.	8¼
Per Dozen	$8.12

Seven Dozen in Basket

TRAP SETTING CLAMPS

JUMP

Malleable Iron with heavy Double Wire Lock; Especially suitable for setting all sizes of Oneida Jump Traps.

No. 3325E
Length Over-all, In. 9
Weight Dozen, Lbs. 3½
Per Dozen $4 00

Open Stock

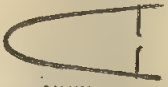
No. 3325F—NEWHOUSE

Malleable Iron, Natural Finish; Size 2½ for Traps smaller than No. 3322H; Sizes 4½ and 6 for larger Traps.

Size, In.	2½	4½	6
Wt. Doz., Lbs.	3½	9½	24
Per Dozen	$5.62	13.74	22.88

Open Stock

FUR STRETCHERS



GALVANIZED

Made of Galvanized, 8 Gauge Spring Wire; Stamped Steel Prongs; Simple in construction and extremely durable; Can be used for Muskrat, Skunk or Opossum Skins. Per Dozen

No. 3325H—Length 20 in., Length Prongs 3⅝ in. ... $3.78

Open Stock; Wt. 3½ Lbs. Dozen

TREE TRAPS

No. 3325J—NEWHOUSE

For use on logs or in trees; Ratchet Jaw prevents Trap from opening after animal is caught. Made of Steel with strong Steel Springs. Per Dozen

Size 0—For Weasel, Ermine. $8.12
Size 1—For Mink, Marten.. 9.74
Size 2—For Opossum, Skunk. 11.12
Size 3—For Coon, Lynx... 14.24

Open Stock; Wt. 13 to 17 Lbs.

GOPHER TRAPS

NEWHOUSE

Stamped, Spring Steel Body; 10 Gauge Steel Wire Ring; Fitted with flat Steel Lever and three Prongs, securely Riveted; Can be easily set and kills quickly. Per Dozen

No. 3325K—Diam. Ring, 2⅝ in., Width Spring, 1 in. $4.34

One Dozen in Box
Weight 2¾ Lbs Dozen

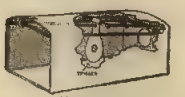
O. K.

Red Stained Hardwood Body; Flat Galvanized Steel Trigger; Heavy Coppered Steel Coil Springs; Trigger and Loop. Per Dozen

No. 3325P—Size 6¼x4x3 in. $4 50

Open Stock

Weight 8 Lbs. Dozen



NOX-ALL

Not Stocked at Duluth

Strong, Durable Enameled Steel Body; Electrically Welded. New Improved Trigger prevents Gopher from filling Trap without being caught; All working parts are on inside; Trap can be entirely covered with dirt Per Dozen

No. Δ3325P4—Size 5½x2¾ by 2¾ in. $3.50

One Dozen in Package
Weight 5 Lbs. Dozen

CINCH

Not Stocked at Duluth

Crucible Steel Spring Jaws and Working Parts; 4½x1¼ in. Sheet Steel Base Plate; Black Japanned Finish. Per Dozen

No. Δ3325L—For Gophers, etc; Length Over-all 12 in.; Weight 12 Lbs. Dozen.. $13.00

No. Δ3325M—For Moles; Length Over-all 10 in.; Weight 10 Lbs. Dozen.. 13.00

One Dozen in Box

GOPHER TRAPS

MACABEE

Not Stocked at Duluth

Heavy Steel Spring Wire, Enameled Finish; Two Prongs, Tinned Steel Lever Per Dozen

No. Δ3325R—Length 6 in. $3.50

One Dozen in Box; Weight 3 Lbs. Dozen

MOLE TRAPS

OUT O' SIGHT

Not Stocked at Duluth

Malleable Iron, Japanned Finish; Steel Wire Spring and Trigger; Steel Lever Per Dozen

No. Δ3325T—Height 8 in., Width 5½ in. $19.50

One in Box; Weight 24 Lbs. Dozen

REDDICK

Flat, Tinned Steel Frame; Six Prongs; Steel Coil Springs, Painted Black. Per Dozen

No. 3325V—Height 24 in., Width between Bars 3½ in.; Length of Prongs 5½ in.; ⅝ in. Flat Steel Frames. $18.00

Half Dozen in Crate
Weight 18½ Lbs. Dozen

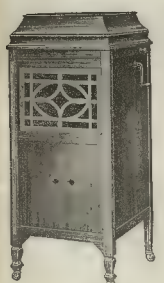
ΔPortland Stock Only, or, for Factory Shipment, F. O. B. Oneida, N. Y.

"GRAND OPERA" PHONOGRAPHS

Universal Tone Arm—Plays All Records Without Extra Attachments

Don't pay more than these prices for your phonograph line. When you pay more you generally pay for a name on which much advertising money has been spent. But you don't get any better tone nor any longer life. Music experts tell us that "Grand Opera's" in tone and construction are second to none. You can see for yourself the beautiful lines of our models and extraordinary prices.

All wood tone chambers, speed regulator, special brake and special tone modifier. Each and every machine is fully guaranteed



Ht. 43 in., width 19 in., depth 21½ in., good grade double spring worm gear driven motor, 12 in turntable, nickel plated tone arm and parts. 1 in case, 115 lbs.

	Each
F8700—Mahogany F8702—Fumed oak.	$38.25

Ht. 43 in., width 19 in., depth 21½ in., double spring worm gear motor, 12 in. turntable, nickel plated tone arm and parts, automatic stop, piano hinge top. 1 in case, 125 lbs

	Each
F8725—Mahogany F8727—Fumed	$45.00

Ht. 46 in., width 21 in., depth 22 in., double spring micrometer adjusted motor, 12 in. turntable, nickel plated tone arm and parts, automatic stop, piano hinge top, solid carved legs. 1 in case, 175 lbs.

	Each
F8705—Mahogany F8707—Fumed oak	$58.25

Ht. 50 in., width 23 in., depth 26 in., double spring micrometer adjusted motor, 12 in. turntable, nickel plated tone arm and parts, automatic stop, piano hinge top, solid carved legs, hand carved posts. 1 in case, 160 lbs

	Each
F8710—Mahogany..... F8712—Fumed oak.....	$74.00

PHONOGRAPH NEEDLES

Non-Rustable—Polished steel, 100 needles in envelope. 10 envs in box.

	Per M
F8540—Loud.. .. .. F8541 Medium	45c

Jewel Needles—Domestic manufacture. 1 in envelope.

	Each
F8535—Pathe full tone. F8536—Pathe half tone F8537—Edison phant... ...	15c

"Wall Knife" Needle Asst—Steel, medium, loud, extra loud, 50 needles in pkg., enough for 500 records, sell for 15c per pkg., retail value $9.00

F8542 -5 doz. pkgs. on display stand
ASST. (5 doz. pkgs.), **$3.40**

Ht. 51 in., width 23 in., depth 26 in., triple spring motor, 12 in turntable, gold plated tone arm and parts, automatic stop, piano hinge top, lock and key, hand carved corner posts on top and bottom, carved grille. 1 in case, 190 lbs.

F8720—Mahogany .....Each, **$110.00**

"GRAND OPERA" PHONOGRAPHS

Universal Tone Arm Plays All Records Without Extra Attachments

These cabinets combine strength as well as beauty. All panels are inserted in a continuous frame that makes the cabinet absolutely wearproof—a feature to be found only in the highest priced models of recognized makes and music experts tell us that the tone of "Grand Operas" is second to none.

Tone chambers of all wood construction, speed regulator, special brake and tone modifier. The panels are 5 ply, either genuine mahogany or quarter sawed oak (except F8700-02 which are genuine oak). The mahogany cabinets are hand rubbed to a polished finish and the quartered oak cabinets are waxed fumed finish. Each machine is fully guaranteed.

Ht. 43 in., width 19 in., depth 21½ in., double spring worm gear driven motor, 12 in. turntable, nickel plated tone arm and parts. 1 in case, 115 lbs.

F8700—Mahogany
F8702 Fumed oak . . } Each $40.00

Ht. 43 in., width 19 in., depth 21½ in., double spring worm gear motor, 12 in. turntable, nickel plated tone arm and parts, automatic stop, piano hinge top. 1 in case, 135 lbs.

F8725—Mahogany . . . . . } Each $45.00
F8727—Fumed oak . . . . }

Ht. 45 in., width 21 in., depth 22 in., double spring motor, electric adjusted motor 12 in. turntable, nickel plated tone arm and parts, automatic stop, piano hinge top, solid carved legs. 1 in case, 145 lbs.

F8705—Mahogany
F8707—Fumed oak } Each $58.25

Ht. 50 in., width 24 in., depth 25 in., double spring motor, electric adjusted motor 12 in. turntable, nickel plated tone arm and parts, automatic stop, piano hinge top, solid carved legs, hand carved corner posts. 1 in case, 160 lbs.

F8710—Mahogany . . . . . } Each $72.00
F8712—Fumed oak . . . . . }

Ht. 51 in., width 23 in., depth 26 in., triple spring motor, 12 in. turntable solid plated tone arm and parts, automatic stop, piano hinge top, lock and key, hand carved corner posts on top and bottom, carved grille. 1 in case, 190 lbs.

Each
F8720—Mahogany
F8722—Fumed oak } $110.00

PERIOD DESIGN CONSOLE PHONOGRAPH

Height 3 ft., length 44 in., depth 24 in., 5 ply walnut and brown mahogany veneer, edges inlaid with patterned horn and engraved lines, genuine high grade hand rubbed piano finish, metal parts oil fire finish, equal to concert grand pianos. Each

F8695 Mahogany
F8695 Walnut } $90.00

PRICE TICKET EVERY ARTICLE

Price tickets are the least expensive and most effective form of advertising. Price tickets turn shoppers into buyers.

TALKING MACHINE NEEDLES

Non-Rustable—Polished steel, 100 needles in envelope, 10 envs. in box. Per M

F8540—Loud
F8541 Medium } 45c

"Wall Kane" Assisted, needle medium, loud, cries loud 50 needles in pkg., enough for 500 records, retail value $2.00

F8962—6 doz. pkgs. on display stand
A8ST (5 doz. pkgs.) $3.40

TALKING MACHINE RECORD ALBUM

12 pockets, strong and durable wine color covers, gold lettering. 1 in pkg.

F8851—For 10 in. records Each $0.80
F8852 12 " " .85

HARMONICAS & ACCORDIONS

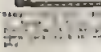
Every person that comes into your store — whether child or grownup — is a prospective customer for these high grade well known imported harmonicas. And they are packed in mighty attractive boxes. To carry a complete line of Hohner, Pohl and Hotz goods is to give the best values to be had anywhere.

POPULAR PRICED IMPORTED HARMONICAS

The market's most complete showing of the best known brands such as the Pohl and Hotz.

F8481—(Mfrs. 160). Pohl, 4 in., 10 holes, 8 reeds, brassed zinc plates, nickel plated covers, each in box. 1 doz. in pkg. Doz. **42c**

F8482— Doz. **48c**



F8483— pkg.

F8485—(Mfrs. 105). 4 in., 20 holes, 12 reels, brassed zinc plates, chromized frame, finely nickel plated covers, open back. 1 doz. in box or **24c**

F8486—(Mfrs. 107). Pohl, 5 in., 32 holes, 16 reeds, brassed plates, open ends, finely nickel plated covers, each in box. ½ doz. in pkg. Doz. **$1.20**

M. HOHNER'S HARMONICAS

All have brass plates and nickel plated covers. NOTE—In comparing prices on Hohner goods note that our 2½% 10 days terms apply. This brand enjoys a world wide reputation. Has been on the market and has given absolute satisfaction for the past sixty-four years, and is guaranteed perfect in tone and construction.

F8440—(Mfrs. 50M) "Old Favorite," 4¼ in., 10 double holes, 20 reeds. ½ doz. in box Doz. **$4.00**

F8445—(Mfrs. 34 ed ½ doz. in pkg. "New Best" Doz. **$4.00**

F8441 — (Mfrs. 132). "Hohner Band," 4¾ in., 10 holes, 20 reeds. ½ doz. in box. Doz. **$4.25**

F8451 — (Mfrs. 1896). "Marine Band, 4¾ in., 10 holes, 20 reeds. ½ doz. in pkg Doz. **$4.50**

F8442 — 1 in., fine tremolo, 10 double holes, 32 reeds, plated cover, carried in stock. box **$6.00**

F8446 — (Mfrs. 150). "Marine Band, tremolo, 6¾ in., 32 double holes, 64 reeds. ½ doz. in pkg. Doz. **$6.00**

F8448 — (Mfrs. 151). "Marine Band, tremolo, 6¾ in., 16 double holes, 32 reeds. ½ doz. in box. Doz. **$9.00**

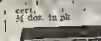
F8442 — (Mfrs. 1896½). "Up-to-Date," 10 double holes, 20 reeds. in pkg. Doz. **$7.50**

F8471—(Mfrs. 03) Hotz "United Service," 4¾x1¼ in., 10 double holes, 20 reeds, brassed plates, heavy reaver nickel plated covers, ½ doz. in carton Doz. **$3.75**

F8444 — full reed cert. ½ doz. in pkg **$8.00**

F8444 — **$8.00**

F8444 — full reed cert. ½ doz. in pk **$10.00**



F8444 — frs 600) "Echo" 5-reed tremolo, 2 reed reeds **$10.00**

F8448—(Mfrs $101), "Harmonette," 4¼ in., 14 double holes, 28 tremolo reeds, harp shape resonator or sound box. ½ doz. in pkg. Doz. **$12.00**

F8444 — **$12.00**

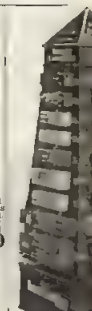
F8455—(Mfrs. 185). "The Collath," 7½x1¾ in., 24 double holes, 48 reeds. ½ doz. in pkg Doz. **$15.00**

— **$18.00**

M. HOHNER HARMONICA ASSORTMENTS

F8436—(Mfrs. 410). 3 styles, assd. 1 doz. genuine Hohner harmonicas in three different styles, assted in handsome flat display carton. Retail at 50c each. Assd. 1 doz. in carton Doz. **$4.10**

1 doz. in box. Retail at 50c each Doz. **$4.50**
F8436 Mfrs. 450) Retail at $1.00 each. **$8.50**



F8438—(Mfrs. 000) Stand 28 in. high, 10¾ in. square at base, 6¾ in. square at top, revolves 3½ hrs on one winding. Mahogany finish, 36 harmonicas assorted keys, each in glass tube, arranged to pyramid by rows, complete. Total price plainly shown on stand. All numbers displayed on stand can be replaced from our regular lists. Assd. 36 harmonicas as follows:

1 doz.	@	$
1 "	"	
1 "	"	
1 "	"	
1 "	"	
1 "	"	
1 "	"	
1 "	"	
1 "	"	
1 "	"	
1 "	"	
1 "	"	

Total retail value $13.50
ASST (36 harmonicas and stand) **$26.50**

F8437—(Mfrs 400) Collapsible display cabinet, comprises three wooden trays finished in rich mahogany when open displays 38 harmonicas. Assd as follows

		Total
16 to retail at	$0.50	$ 8.00
20 " "	.50	10.00
9 " "	.75	6.50
10 " "	1.00	10.00
Total Retail Value		

Assd. 38 in display cabinet.
ASST. 38 pcs **$18.00**

GENUINE M. HOHNER ACCORDIONS

Nickel corner protectors, patent self-adjusting [illegible]. These accordions enjoy a world wide reputation for to be perfect in tone and constructio

F8491 Mfrs. 373), 6¼x10½ in. high, polished chromized key board and frames, colored panels, double fan bows, 10 nickel button keys, 2 bellows, 2 reeds, 2 metal stops. 1 in box. Each, **$2.85**

F8491 (602) 6¾x12 in., highly polished chromized frames and keyboards, [illegible] finish silver panel, double bellows, 19 nickel button keys, 2 basses, 4 sets of reeds, 2 metal stops. 1 in box **$4.70**

F8491 top [illegible] of reeds, [illegible] **$3.60**

F8491 [illegible] **$6.00**

M. Hohner Organette or Blow Accordion

F8490 Length 15 [illegible] when closed, 10 keys, 2 bass keys, all finely nickel plated, metal mouthpiece and bell. 1 in carton Each. **$1.50**

HOTZ "HAPPY DAYS" ASSORTMENT

Harmonicas to retail at 50c, in attractive display carton

F8435—(Mfrs 0 1 [illegible] cover- ed [illegible] in telescope [illegible] ½ doz. in [illegible] **$1.75**

BOOK CASES

—BLUE GRASS— SECTIONAL

Consists of four solid, set up sections of different heights to take different sized books, one O. G. crown and one scroll Colonial base. Each case contains the following book sections:

Two sections, height 9 inches; one section, height 11 inches, and one section, height 13 inches. All sections are 34 inches wide over all and 11 inches deep. This case is interchangeable with other standard makes. The outside of the case is made of the best selected stock. The interior is of hard maple, built up stock, to prevent warping and twisting. The finish is of heavy three-coat work, rubbed and polished. The workmanship and material throughout are the best. A perfect working door is one of the most important points to be considered in a sectional bookcase. The ball-bearing door used cannot bind, stick or draw hard. The intermembering of the top rail of one section with the bottom rail of the section above forces into perfect perpendicular alignment and also makes the case air-tight and dust proof.

CASES COMPLETE

Each

No. BG1S4SGO—Quarter sawed oak, golden oak finish; case complete $90 75

No. BG1S4SFO—Quarter sawed oak, fumed finish; case complete 90 75

No. BG1S4SM—Birch, mahogany finish; case complete 90 75

One stack complete in a crate; weight per stack 100 lbs.

LIBRARY CASES

GRAND RAPIDS

Double strength glass in doors; adjustable shelves, with moulded edges. Casters furnished. A simple plain pattern of exceptional value.

Height 54 inches; width 24 ins.

Each

No. GR10-GO—Plain oak with quarter sawed front, polished golden oak finish ..... ✚$60 75

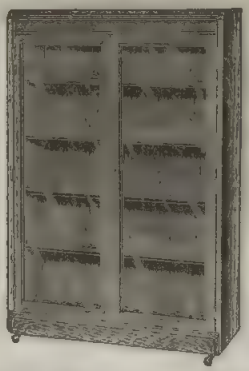
No. GR10-FO—Plain oak with quarter sawed front, fumed oak finish ..... ✚ 60 75

One in a crate; shipping weight each 125 lbs.

✚F. O. B. Michigan Factory Only.

LIBRARY CASES

GRAND RAPIDS



Double strength glass in doors; adjustable shelves with moulded edges and nicely finished. Casters furnished.

A neat plain pattern, well made and finely finished.

Height 54 inches; width 34 inches. Each

No. GR11-GO Plain oak with quarter sawed front, polished golden finish ..... ✚$78 75

No. GR11-FO—Plain oak with quarter sawed front, fumed oak finish. ..... ✚ 78 75

One in a crate, shipping weight each 150 lbs.

GRAND RAPIDS

Double strength glass in doors; adjustable shelves, with moulded edges and nicely finished. Casters furnished.

An exceptionally well constructed case, extremely attractive of design and finish.

Height 60 inches; width 50 inches. Each

No. GR16-M—Genuine mahogany veneered, dull finish ✚$193 00

One in a crate; shipping weight 150 lbs.

✚F. O. B. Michigan Factory Only.

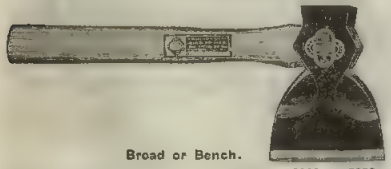
HATCHETS

—BLUE GRASS—

Special steel body, hardened poll, extra quality crucible steel bit, hand tempered and tested, sharpened ready for use. Rustless black finish and labeled. Extra quality second growth hickory handles.

—BLUE GRASS—PHANTOM BEVEL

Rustless Black Finish, Polished Head and Edge.



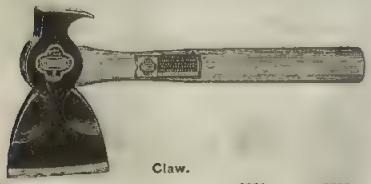
Broad or Bench.

Nos.	2091	2092	2093
Size	1	2	3
Width cut, in	4	4½	5
Length over all, in	14½	15½	16
Weight per dozen, lbs.	22	28	33
Per Dozen	$55 50	63 00	69 00

Half dozen in a cardboard box.

—BLUE GRASS—PHANTOM BEVEL

Rustless Black Finish, Polished Head and Edge.



Claw.

Nos.	2031	2032
Size	1	2
Width cut, in	3⅛	3⅜
Length over all, in	13¾	14
Weight per dozen, lbs.	22	26½
Per Dozen	$46 50	48 00

Half dozen in a cardboard box.

—PINE KNOT—

Soft steel body, hardened poll, special grade crucible steel bit, tempered and tested, sharpened ready for use. Fire bronzed body and poll, polished bit and face, labeled. Extra white hickory handles.

—PINE KNOT—Fire Bronzed.

Shingling, Regular Pattern.

Nos.	3110	3120
Size	1	2
Width cut, inches	3⅛	3¼
Length over all, in	13	14
Weight per dozen, lbs.	20	25
Per Dozen	$40 50	42 00

Half dozen in a cardboard box.

HATCHETS

—PINE KNOT—

Steel body, hardened poll, special grade crucible steel bit, tempered and tested, sharpened ready for use. Fire bronzed body and poll, polished bit and face, labeled. Extra white hickory handles.

—PINE KNOT—Fire Bronzed.

Half, Regular Pattern.

Nos.	3210	3220
Size	1	2
Width cut, inches	3½	3¾
Length over all in	13	14
Weight per dozen, lbs	22	25
Per Dozen	$43 50	45 00

Half dozen in a cardboard box.

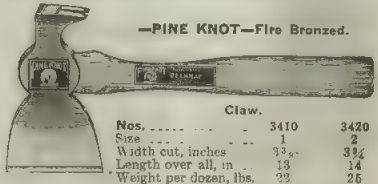
—PINE KNOT—Fire Bronzed.

Lathing, Regular Pattern. Checkered head.

Nos.	3310	3320
Size	1	2
Width cut, inches	2¼	2½
Length over all, in	12½	13
Weight per dozen, lbs.	17	19
Per Dozen	$40 50	42 00

Half dozen in a cardboard box.

—PINE KNOT—Fire Bronzed.

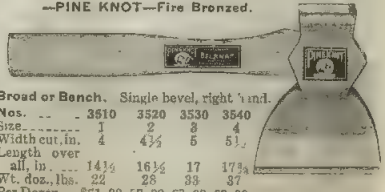


Claw.

Nos.	3410	3420
Size	1	2
Width cut, inches	3⅜	3¾
Length over all, in	13	14
Weight per dozen, lbs.	22	25
Per Dozen	$43 50	46 50

Half dozen in a cardboard box.

—PINE KNOT—Fire Bronzed.



Broad or Bench. Single bevel, right hand.

Nos.	3510	3520	3530	3540
Size	1	2	3	4
Width cut, in.	4	4½	5	5½
Length over all, in	14½	16½	17	17⅞
Wt. doz., lbs.	22	28	33	37
Per Dozen	$51 00	57 00	63 00	69 00

Half dozen in a cardboard box.

HATCHETS
—MOHAWK—

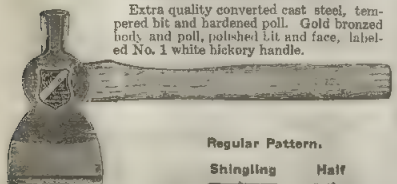
Forged from one piece tool steel. Hardened poll. Gold bronzed body and poll, polished bit and face. No. 2 second growth white hickory handles.

—MOHAWK—Gold Bronzed.

	Regular Pattern. Shingling		Half		Lathing
Nos.	4110	4120	4210	4220	4310
Size	1	2	1	2	1
Width cut, ins.	3½	3⅞	3¼	3¾	2½
Lgth. overall, ins.	13	14	12½	13	12
Weight doz., lbs.	20	25	22	25	18
Per Dozen	$34 50	37 50	37 50	39 00	34 50

	Broad or Bench Claw		Single bevel, right hand.		
Nos.	4410	4420	4520	4530	4540
Size	1	2	2	3	4
Width cut, inches	3½	3⅞	4¼	5	5½
Length over all, inches	13	13¾	15½	16¾	17¼
Weight per dozen, lbs.	22	25	28	33	37
Per Dozen	$39 00	40 50	49 50	55 50	66 00

Half dozen in a cardboard box.



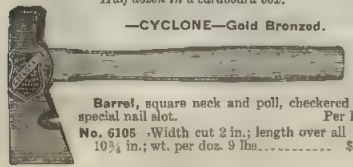
—CYCLONE—Gold Bronzed.

Extra quality converted cast steel, tempered bit and hardened poll. Gold bronzed body and poll, polished bit and face, labeled No. 1 white hickory handle.

	Regular Pattern. Shingling		Half	
Nos.	6110	6120	6210	6220
Size	1	2	1	2
Width cut, ins.	3⅝	3¾	3¼	3½
Lgth. over all, ins.	13	14	13	14
Weight doz., lbs.	18	22	19	22
Per Dozen	$18 00	18 75	18 75	21 00

	Broad or Bench Claw		Single bevel, right hand.	
Nos.	6410	6420	6520	6530
Size	1	2	2	3
Width cut, ins.	3¼	3¾	4¼	5
Lgth. over all, ins.	13	14	14½	15
Weight dozen, lbs.	19	23	28	33
Per Dozen	$21 00	21 75	26 25	29 25

Half dozen in a cardboard box.

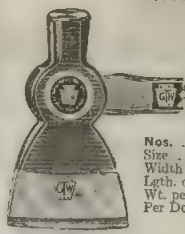


—CYCLONE—Gold Bronzed.

Barrel, square neck and poll, checkered head, special nail slot. Per Dozen

No. 6105 .Width cut 2 in.; length over all 10¾ in.; wt. per doz. 9 lbs. $18 00

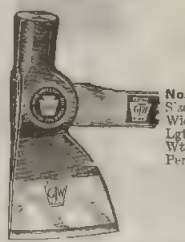
HATCHETS



GRIFFITH (GERMANTOWN),
Olive Bronzed, Polished Bit.
Regular Pattern.

First quality, solid forged tool steel, hardened poll, tempered bit, white hickory handles.

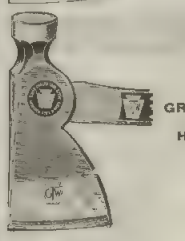
	Shingling.	
Nos.	326	328
Size	1	2
Width cut, in.	3½	3⅞
Lgth. over all, in.	13	14
Wt. per doz., lbs.	20	26
Per Dozen	$43 44	45 42



Half.

Nos.	336	338	340
Size	1	2	3
Width cut, in.	3¼	3½	3¾
Lgth. over all, in.	13	14	14
Wt. per doz., lbs.	22	24	30
Per Dozen	$45 42	47 40	49 35

Half doz. in a cardboard box.



GRIFFITH (GERMANTOWN),

Half, Octagon neck and bell poll.

	Fire Bronzed.		
Nos.	317½	318	318½
Size	1	2	3
Width cut, inches	3¼	3½	3¼
Length over all, in.	13	14	13½
Weight per doz., lbs.	22	24	30¼
Per Dozen	$53 19	56 85	60 24

Half dozen in a cardboard box.

GRIFFITH (GERMANTOWN),

Half, Haines Pattern.

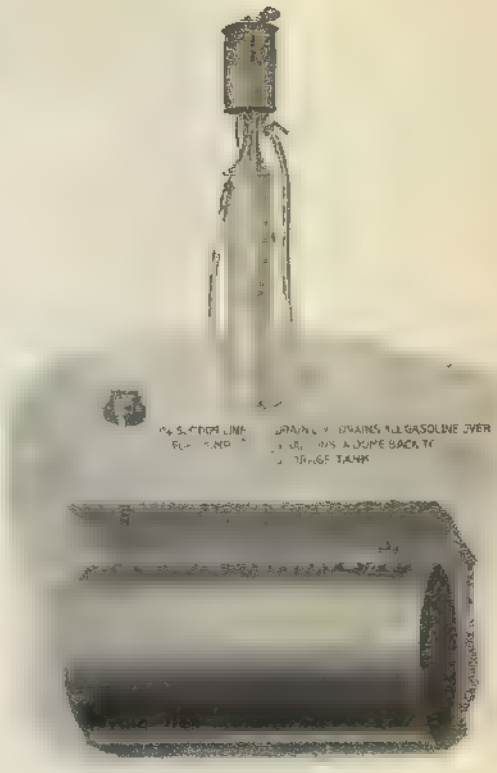
Adze eye, round neck, bell poll, thin bit.

No.	316
Size	2
Width cut, inches	3½
Length over all, inches	12¼
Weight per dozen, lbs.	20
Per Dozen	$65 19

Half dozen in a cardboard box.

GROETKEN VISIBLE GASOLINE DISPENSER

Built for service and heavy duty. **Column** of gray iron 52 inches high, 10 inches in diameter; fitted with door leading to supply line of tank connection. **Dome** of close grained gray iron, with solid top and bottom base; glass cylinder 10x18x¾ inches with measurements marked in white on red background; adjustable standpipe in glass cylinder automatically drains all surplus gasoline back to storage tank detachable pedestal between column and dome. **Pump** for filling dome is compact and rigid; fitted with extra long falcon; 4x8 inches seamless brass cylinders brass valves and ⅝-inch brass piston rods; brass stuffing box and gland 1x1¼-inch; special treated cup leather to withstand gasoline; phosphor bronze spring behind cup leather on piston plunger; 1¼-inch suction line; 1-inch discharge line, double screen filter with drain cock



Groetken Complete Visible Measuring Gasoline Dispenser; not including hose or electric light attachment; wgt. 200 lbs..... Each $217.50

Groetken Electric Light Attachment; including wiring, weatherproof socket and shade, wgt 12 lbs Each 14 25

8 ft. length 1-inch Triplex All Metal Lined Duck Covered Hose; wgt 20 lbs Each 17 25

BOILER PLATE TANKS

Are durably constructed and rust resisting; all tanks are tested and inspected at factory before shipping; provided with proper openings, fill pipe, strainer and locking cap

No. 1B—Boiler Plate Tanks; capacity 250 gals.; size 30x84 ins ; No. 10 gauge steel; wgt. 550 lbs ..... Each $100.00

No. 2B—Boiler Plate Tanks; capacity 400 gals ; size 36x96 ins.; No. 10 gauge steel; wgt. 730 lbs..... Each 132 00

No. 3B—Boiler Plate Tanks; capacity 550 gals.; size 42x96 ins.; No. 10 gauge steel; wgt 800 lbs..... Each 160 00

No. 4B—Boiler Plate Tanks; capacity 700 gals.; size 42x120 ins ¼-in. steel; wgt. 950 lbs..... Each 200 00

No. 5B—Boiler Plate Tanks; capacity 850 gals ; size 42x144 ins ; ⅜-in. steel; wgt. 1050 lbs..... Each 225.00

No. 6B—Boiler Plate Tanks; capacity 1000 gals ; size 42x168 ins., ⅜-in steel; wgt. 1200 lbs..... Each 255 00

GALVANIZED TANKS

Welded by oxygen acetylene process, no soldered or riveted seams to leak, tested and inspected at factory before shipping; provided with proper openings, fill pipe, strainer and locking cap.

No. 1G Galvanized Tanks; capacity 250 gals , size 40x48 ins , No 14 gauge steel wgt 190 lbs Each $ 85 00

No. 2G Galvanized Tanks; capacity 400 gals ; size 38x57 ins , No 14 gauge steel, wgt 290 lbs Each 108 00

No. 3G Galvanized Tanks; capacity 550 gals , size 42x95 ins ; No 14 gauge steel, wgt 340 lbs Each 125 00

F. O. B. Aurora, Ill. Second class freight.

MILWAUKEE PUMPS

TYPE 11

Self-Measuring Barrel Pump

May be inserted either into the 1½-inch or 2 inch opening of any ordinary steel barrel or drum, and is securely fastened by means of two thumb screws

Pump can be set and sealed to measure quarts, pints and half-pints A strong, durable lock prevents drawing oil except by authorized persons. Non-drip faucet provided Weight approximately 45 pounds.

	Each
One only	$24 00
Lots of 6	23 50
Lots of 12	23 50
Lots of 24	22 00

TYPE 12

Lubricating Oil Outfit

This is one of our most popular lubricating oil outfits. It is just the right thing for the retailer's use. Is made only in one size, of 55 gallons capacity Has quart self-measuring pump with adjustable stops for pints and half-pints. Has non-drip faucet, measuring gauge, dust-proof cover and strainer

In lots of one	Each	$42 00
In lots of three	Each	41 00
In lots of six	Each	40 00
In lots of 12	Each	36 00
In lots of 24	Each	34 00
Detachable Portable Wheel Base	Each	9 00

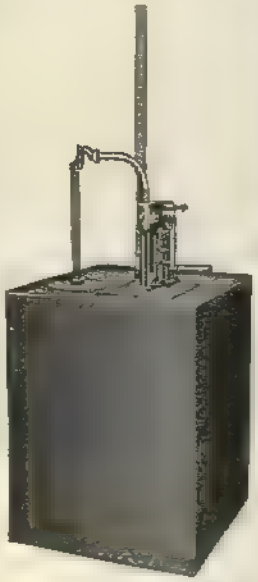
Portable Wheel Base

TYPES 13 and 14

Lubricating Oil or Kerosene Tanks

These outfits provide an economical system for storing and handling lubricating oil, kerosene, etc. Pumps have locks and keys Have self-measuring pumps, non-drip faucets, measuring gauge, dust-proof covers. Type 13 has pump with stops for gallons, half-gallons and quarts; Type 14, quarts, pints and half-pints.

60 gallon size can be equipped with a portable wheel base if desired, at $10 00 extra



TYPE 13

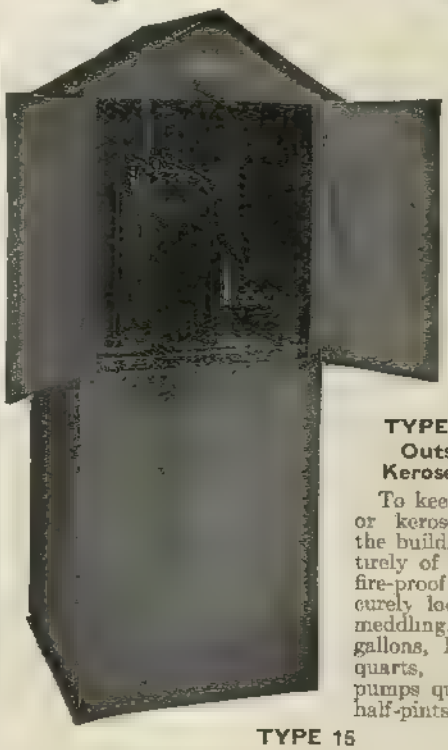
Self-Measuring Gallon Pump on Heavy Steel Square Floor Tank

60 Gals	Each	$ 76 00
120 Gals	Each	94 00
180 Gals	Each	112 00
280 Gals	Each	149 00
Gal Rec. Meter; extra	Each	22 00

TYPE 14

Self-Measuring Quart Pump on Square Floor Tank

10 Gals	Each	$ 34 00
30 Gals	Each	48 00
60 Gals	Each	60 00
120 Gals	Each	78 00
180 Gals	Each	96 00
280 Gals	Each	125 00
Quart Rec. Meter, extra	Each	18 00



TYPES 15 and 25

Outside Oil or Kerosene Cabinets

To keep lubricating oil or kerosene outside of the building. Made entirely of heavy metal, is fire-proof and can be securely locked to prevent meddling. Type 15 pumps gallons, half-gallons and quarts, and Type 25 pumps quarts, pints and half-pints.

TYPE 15

All Enclosed Cabinet; Square Tank With Self-Measuring Gallon Pump

60 Gals	Each	$ 99 00
120 Gals	Each	115 00
180 Gals	Each	132 00
280 Gals	Each	170 00
Gal Rec. Meter, extra	Each	22 00

TYPE 25

All Enclosed Cabinet; Square Tank With Self-Measuring Quart Pump

60 Gals	Each	$ 82 00
120 Gals	Each	99 00
180 Gals	Each	115 00
Quart Rec. Meter; extra	Each	18 00

PARTS FOR GUY'S DROPPER LAMPS

REFLECTORS

No. 28. Polished brass, 2½ inches deep, equipped with lock nut .....each, $0.25

No. 28SL. Polished brass, 2½ inches deep, equipped with lock nut and self lighter attachment.....each, .35

MISCELLANEOUS SUNDRIES FOR GUY'S DROPPER LAMPS

No. 30. Nickel plated reamer cases, extra long, two dozen size .....each, $0.05
No. 24. Tip reamers, 12 dozen in a package.....each, .05
No. 26. Tip reamers, 1 dozen in reamer case.....each. .05
No. 28. Tip reamers, 1 only in reamer case,.....each, .10
No. 20. Wire brush cleaners, 100 in a box.....each, .10
No. 63. Lava tips, 1 dozen in a box.....per dozen, .30
No. 53. Brass tips, lava center, 1 dozen in a box..each, .05
No. 75. Flints; 1 dozen in a box.....each, .05
No. 68. Felts for lamps; 1 dozen in a box.....each, .05
No. 64. Brass felt holders; 1 dozen in a box.....each, .05
No. 128. Extra bottoms, round knurled.....each. .20
No. 130. Extra bottoms, hexagon .....each, .20

GUY'S DROPPER REPAIR OUTFITS

An assortment of lamp supplies most frequently called for by the miner; also the repair parts most liable to become lost or worn out, which require replacement. Conveniently arranged in strong, durable cardboard box with hinged cover.

No. 1 Outfit contains: 6 dozen gaskets, 2 dozen felts, 1 dozen each felt holders and screens, 12 dozen lava tips, 2 dozen reamer cases, 3 dozen reamers, 1 dozen tip cleaners, 6 dozen flints, ½ dozen lighters complete, 1 dozen water stoppers, 1 dozen hexagon nuts, 1 dozen springs, 1 dozen lighter caps, 1 dozen rivets, 1 dozen reflector nuts.

No. 1 Outfits contain assortment as above.... ...each, $20.70

RUBBER GASKETS

FELT PACKING

FELT HOLDERS

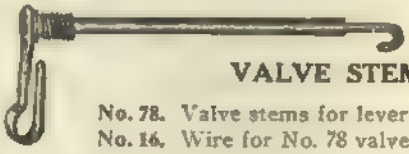
No. 60. Rubber gaskets .....each, $0.03
No. 62. Felt packing .....each, .03
No. 64. Felt holders .....each, .05

PARTS FOR JUSTRITE LAMPS

REFLECTORS

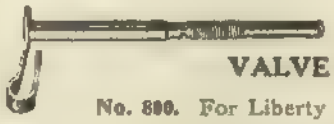
Lights the gas with a rub of the hand. Size 2½ inches, has lighter attached, is adjustable to fit around tip holder by means of tightening screw in collar.

No. 26. Brass .....each, $0.25
No. 27. Nickel plated .....each, .30
No. 172. Extra flints .....each, .05



VALVE STEMS

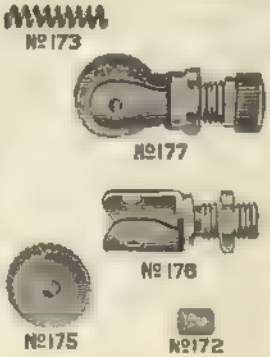
No. 78. Valve stems for lever feed lamps..each, $0.25
No. 16. Wire for No. 78 valve stem.....each, .03



VALVE STEMS

No. 800. For Liberty feed lamps, complete.....each, $0.25

PARTS FOR LIGHTER

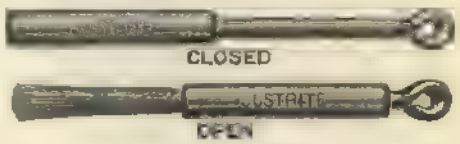


No. 172. Flints, each. $0.05
No. 173. Springs, each. ..... .03
No. 174. Caps, each. ..... .05
No. 175. Wheels, each. ..... .05
No. 176. Fork and nut, each..... .10
No. 182. Hexagon nut, each. ..... .02
No. 177. Lighter complete, each.. .10

LAVA TIPS

JEWEL METALS TIPS

No. 66. Lava tips with air holes.....each, $0.03
No. 28. Jewel metal tips; shell is made of brass with lava burner insert, cannot break or crack.....each, .05



TIP CLEANERS

Fifty rustproof, hard steel wires, protected by a sliding cover.

No. 37. Tip cleaners .....each, $0.10

TIP REAMERS

No. 145. One dozen in metal tube.....per tube, $0.65
No. 150. Empty cases, brass, nickel plated.....each, .05

REPAIR OUTFITS

FOR JUSTRITE MINERS' CARBIDE LAMPS

Contents of No. 1 Repair Outfits

6 dozen No. 60 gaskets
6 dozen No. 62 felts
1 dozen No. 64 felt holders
3 dozen No. 66 lava tips
3 dozen No. 28 metal tips
3 dozen No. 172 flints
1 dozen No. 173 springs
1 dozen No. 174 screw caps
1 dozen No. 182 hex. nuts
½ dozen No. 177 lighters complete
2 dozen No. 37 tip cleaners

These outfits are in a heavy cardboard box, covered with waterproof paper, reinforced corners, strong and durable

No. 1. Repair outfits .....each, **$6.75**

No. 2. Repair outfits, contain same articles as No. 1, approximately one-half quantity.....each, **4.00**

Contents of No. 3 Repair Outfits

100 No. 60 gaskets
100 No. 62 felts
12 No. 64 felt holders
144 No. 66 tips
100 No. 28 tips
24 No. 22 tip cleaners
48 No. 37 tip cleaners
72 No. 16 wires
9 No. 78 valve stems
36 No. 145 reamers
12 No. 177 lighters
24 No. 172 flints
12 No. 173 springs
12 No. 174 screw caps
12 No. 176 forks and nuts
12 No. 181 water caps
12 No. 182 hex. nuts
4 No. 113 valve stems

In handsome metal show case with glass cover and drawer opening from back. White enameled finish

No. 3. Repair outfits.....each, **$25.00**

MATCH BOXES

No. 75. Round, seamless brass, nickel plated, 2⅞ x 1⅛ inches .....each, **$0.15**

POCKET CARBIDE CANS

Made of light steel, tin coated, ribbed double seamed and sliding cover, air tight, concaved to fit the boot or hip pocket. Holds full day's supply.

No. 77. Capacity 10 oz. carbide. .....per dozen, **$1.80**

CARBIDE FLASKS

No. 23. Made of heavy tin, double seamed, strong and durable. Oval shape, size 6¼ x 2 x 3 in. Knurled screw cap. Capacity 1 lb. Large opening and empties freely, per doz., **$3.00**

CALCIUM CARBIDE

Always packed in blue and gray substantial sheet steel drums and cans. Each drum is equipped with a screw top which can be easily replaced in position, so that the carbide remaining in the drums will be thoroughly protected from air and moisture. Will keep indefinitely if protected from air and moisture

In Cans

In Drums

FOR MINERS' LAMPS

Is specially selected and perfectly adapted for use in lamps. Because of its high gas yield, special selection, uniform size, freedom from dust, and its uniform quality, is the most economical and satisfactory carbide for use in miners' lamps.

Union Brand—First Quality

Miners' Lamp. 2 lb. cans, 24 cans to case, Union grade .....per case, $.. .
Miners' Lamp. 25 lb. drums, Union grade..per drum, ..
Miners' Lamp. 100 lb. drums, Union grade, per drum, ...

Cameo Brand—Second Quality

This is a medium grade and can be furnished in 100 lb. drums.

Miners' Lamp. 100 lb. drums, Cameo grade, per drum, $ ..

In 2 Lb. Cans

In 10 Lb. Cans

FOR AUTOMOBILE AND BICYCLE LAMPS

Half-inch is specially selected and sized for use in bicycle lamps, motorcycle generators and other small pieces of portable acetylene apparatus.

One inch is uniform in size and quality and is adapted for use in automobile generators and large automobile lamps

½ in., 2 lb. cans, 24 cans to case, Union grade..per case, $.
½ in., 10 lb. cans, 6 cans to case, Union grade..per case, .
1 in., 10 lb. cans, 6 cans to case, Union grade...per case, ..

Electrolite—Second Quality

½ in., 10 lb. cans, 6 cans to case.....per case, $....

G. R. TURNER, Ltd.,

Langley Mill, NOTTINGHAM, ENGLAND.

Manufacturers of Railway Rolling Stock and Mining Machinery of every description.

Fabricants de matériel roulant de chemin de fer et machineries pour mines en tout genre.

Constructores de Material Rodante de Ferrocarriles y Maquinaria para Minas de toda clase

Telegrams } "Turner, Langley Mill" Telephone Nos. } 31 and 35, Langley Mill. Code } A.B.C. (5th Edition

SPECIALITIES:—

Railway Wagons of every description with Steel or Wood Frames.

Carriage Underframes.

Horse Boxes, Brake Vans, etc

Light Railway Plant and Wagons of every description.

(OD)

SPECIALITIES:

Points and Crossings, Turntables, etc.

Iron and Brass Castings.

Iron and Steel Forgings.

Wagon Repairs by Contract or otherwise.

(UX)

(SA)

SPÉCIALITÉS:—

Wagons de chemin de fer en tout genre avec châssis en acier ou en bois.

Châssis de voitures.

Wagons-écuries, fourgons à bagages etc

Installations de voies étroites et wagons en tout genre

Aiguillages et croisements, plaques tournantes, etc.

Fontes de fer et de laiton.

Pièces forgées de fer et d'acier.

Réparations de wagons par entreprise ou autrement

(PE)

ESPECIALIDADES

Vagones de Ferrocarril, de todas clases, con armazones de acero ó madera

Bastidores para Carruajes

Vagones para Caballerias, Vagones-frenos, etc

Instalacion de vias estrechas y vagones de toda clase.

Agujas y Cruces, Placas giratorias, etc.

Piezas Fundidas de Hierro y Latón.

Piezas Forjadas de Hierro y Acero

Reparaciones de vagones por contrato ó de otra manera

For Mining Machinery, see page 74 in the Mining and Colliery Plant Section.
Pour Machinerie Minière voir page 74 dans la Section Installations de Mines et Houillères.
Para Maquinaria de Minas, veáse la página 74 en la Sección Instalaciones para Minas y Hulleras.

GEO. SALTER & Co., LTD., West Bromwich, ENGLAND.

CRANE WEIGHING MACHINE.

Machine à peser pour grues. Báscula para grúa

No 98.

Made in sizes from 10 Cwt. to 50 Tons. Can be supplied fitted with Hook instead of Shackle.

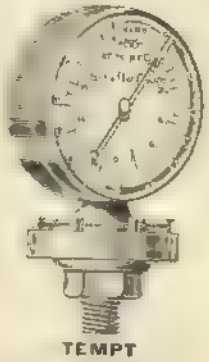
Grandeurs variables pour poids de 508 kilos à 50,802 kilos. Peut être fournie munie d'un crochet au lieu d'une boucle

Construida en tamaños desde 508 kilos á 50.802 kilos Pueden suministrarse con gancho en vez de grillete.

As approved by the Board of Trade

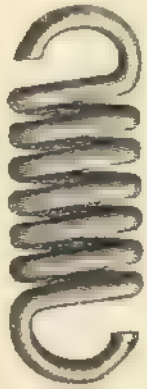
(TEETH)

(TAINT)
No. 2. PATTERN BOURDON GAUGE.
No 2. *Manomètre Bourdon*
No 2. Manómetro Bourdon



TEMPT
STEAM SCHAFFER GAUGE.
Manomètre Schaffer pour vapeur
Manometro de vapor Schaffer

RASTRICKS PATENT SCRAPER
(THICK)
Racloir breveté Rastrick
Rascador, patente Rastrick



TEPID
VALVE SPRING.
Ressort pour soupapes.
Resorte para válvula

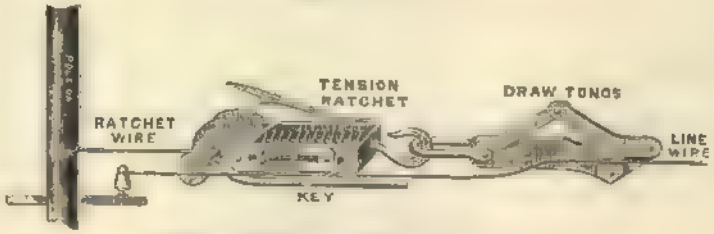
(THEME

GROVER WASHER.
(THROB)
Rondelle Grover
Arandela Grover.

(TILED)

THACKRAY WASHER
TIGER
Rondelle Thackray.
Arandela Thackray.

(TINGE
VALVE SPRING.
Ressort pour soupapes.
Resorte para válvula



TENSION RATCHET AND DRAW TONGS. (TOQUE
Rochet de tension et tendeur pour fils de fer
Trinquete de tensión y tensor de alambre.

LOCOMOTIVE BALANCE
(TONGS
Balance à ressort de locomotive.
Balanza para locomotora.

DYNAMOMETER. (TRAMP
Dynamomètre
Dinamometro.

LOCOMOTIVE BALANCE
(TRIBE)
Bascule à ressort de locomotive.
Balanza para locomotora

PRICES AND PARTICULARS ON APPLICATION.
Prix et Renseignements adressés sur demande. Precios y detalles á petición.

HANDLES

ROGERS AUGER

Malleable iron body. Single steel set screw. Ash handles. Holds all ordinary bit and auger sizes.

No. 3. Length 16 inches. Weight per dozen, 17 lb.... .....per dozen, **$20.00**

One quarter dozen in a box

SOCKET FIRMER CHISEL

Selected hickory, assorted, for ⅛ to 2 inch socket firmer chisels.

No. 6533. Weight per dozen, 1¼ lb.. ... ...per dozen, **$0.90**

One dozen in a box

SOCKET FRAMING CHISEL

Selected hickory, with iron ferrules, assorted for ¼ to 2 inch socket framing chisels.

No. 6538. Weight per dozen, 2½ lb.....per dozen, **$1.50**

One dozen in a box

FILE

Lutz Beat-Em-All

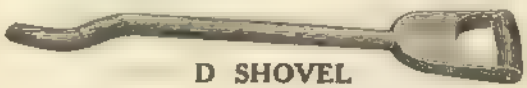
Selected hardwood polished steel ferrules. Ferrules cannot be lost. Files remain rigid in handle. Guaranteed not to split, no matter how hard files are driven in.

Nos.	1	2	3	4
For files, inches	3 to 6	6 to 8	8 to 12	12 to 18
Weight per dozen, lb	⅝	1⅛	2	2½
Per dozen	$1.20	1.50	1.60	1.70

One dozen in a box

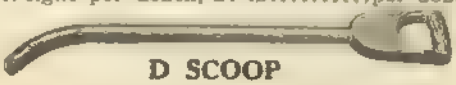
D SHOVEL

X Grade. Cleveland pattern wood D coal shovel, bent and riveted. Selected ash. Weight per dozen 24 lb. .....per dozen, **$14.00**



D SHOVEL

X Grade. Wood D shovel, bent and riveted. Selected ash. Weight per dozen, 24 lb.....per dozen, **$14.50**

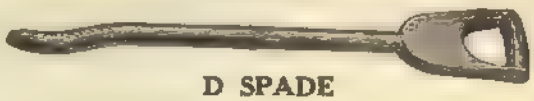


D SCOOP

No. 1 Grade. Wood D scoop, bent and riveted, seasoned ash. Weight per dozen, 24 lb.....per dozen, **$12.50**

All above, one dozen in a bundle

HANDLES



D SPADE

No. 1 Grade. Wood D spade, bent and riveted, seasoned ash. Weight per dozen, 27 lb.....per dozen, **$12.00**

D DITCHING SPADE

No. 1 Grade. Wood D ditching spade, bent and riveted, seasoned ash. Weight per dozen, 18 lb..... .....per dozen, **$11.50**

D SPADING FORK

No. 1 Grade. Wood D spading fork, bent and riveted, seasoned ash, chucked and bored. Weight per dozen, 22 lb.....per dozen, **$11.50**

D COKE AND COAL FORK

X Grade. Wood D coke and coal fork, bent and riveted, selected ash, with heavy strap ferrules and caps attached. Weight per dozen, 30 lb..per dozen, **$23.00**

D MANURE FORK

No. 1 Grade. Wood D manure fork, bent and riveted, seasoned ash, chucked and bored. Weight per dozen, 20 lb.....per dozen, **$11.50**

LONG BENT SHOVEL

X Grade. Long bent shovel, double bend, selected ash. Length 4½ feet. Weight per dozen, 30 lb.... .....per dozen, **$11.00**

No. 1 Grade. Long bent shovel, double bend, seasoned ash. Length 4½ feet. Weight per dozen 30 lb. .....per dozen, **9.50**

LONG BENT MANURE FORK

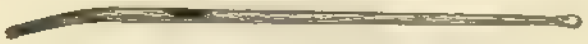
X Grade. Long manure fork, bent, selected ash, chucked and bored. Length 4½ feet. Weight per dozen, 22 lb.....per dozen, **$9.00**

No. 1 Grade. Long manure fork, bent, seasoned ash, chucked and bored. Length 4½ feet. Weight per dozen, 22 lb.....per dozen, **7.50**

Long bent manure fork handles continued on following page

All above, one dozen in a bundle

HANDLES



LONG BENT MANURE FORK

With Strap Ferrule and Cap

X Grade. Selected ash, with strap ferrule and cap attached. Length 4½ feet. Weight per dozen 25 lb. .....per dozen, **$ 7.70**

XX Grade. Extra selected ash, with strap ferrule and cap attached. Length 4½ feet. Weight per dozen, 25 lb.....per dozen, **15.00**

LONG BENT MANURE FORK

With Plain Ferrule and Cap

X Grade. Selected ash, with plain ferrule and cap attached. Length 4½ feet. Weight per dozen 25 lb. .....per dozen, **$11.50**

STRAIGHT HAY FORK

No. 1 Grade. Seasoned ash, chucked and bored. Length 6 feet. Weight per dozen, 25 lb.....per dozen, **$9.50**

GOOSENECK HOE

No. 1 Grade. Seasoned ash, chucked and bored. Length 5 feet. Weight per dozen, 16 lb.....per dozen, **$5.00**

PLANTERS' EYE HOE

No. 1 Grade. Seasoned ash. Length 4½ feet. Weight per dozen, 17 lb.....per dozen, **$8.00**

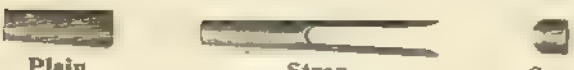
CRONK'S HOE AND DIGEZY MATTOCK

No. X Grade. Selected ash. Length 5 feet. Weight, per dozen, 16 lb.....per dozen, **$11.00**

GARDEN RAKE

No. 1 Grade. Seasoned ash, chucked and bored. Length 6 feet. Weight per dozen, 25 lb.....per dozen, **$6.78**

FERRULES AND CAPS



Plain Ferrules. For spading, manure and hay forks. Weight per dozen, 2 lb.....per dozen, **$1.80**

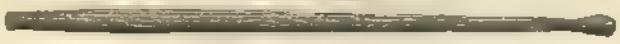
Strap Ferrules. For spading, manure and hay forks. Weight per dozen, 4 lb.....per dozen, **4.50**

Caps. For use with plain or strap ferrules. Weight per dozen, 2½ lb.....per dozen, **.90**

D TOPS

No. D. All iron malleable D tops, iron grip. Weight per dozen, 8 lb..... ..... per dozen, **$5.00**

HANDLES



PEAVY AND CANT HOOK

Made of selected stock and nicely finished

Hickory Peavy Handles

Size 2½ in. x 4½ ft. Weight per dozen, 60 lb. per dozen, **$20.00**
Size 2¾ in. x 4½ ft. Weight per dozen, 65 lb. per dozen, **24.00**
Size 3 in. x 4½ ft. Weight per dozen, 70 lb. per dozen, **30.00**

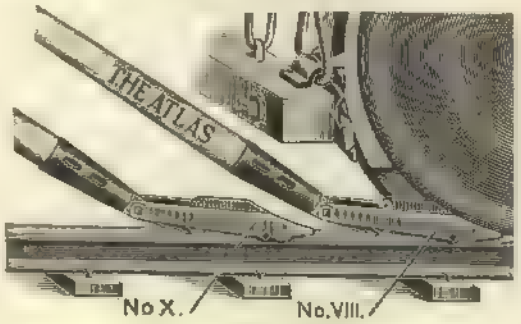
Ironwood Peavy Handles

Size 2½ in. x 4½ ft. Weight per dozen, 55 lb. per dozen, **$20.00**

Hickory Cant Hook Handles

Size 2½ in. x 4½ ft. Weight per dozen, 60 lb. per dozen, **$20.00**
Size 2¾ in. x 4½ ft. Weight per dozen, 65 lb. per dozen, **24.00**

CAR MOVERS



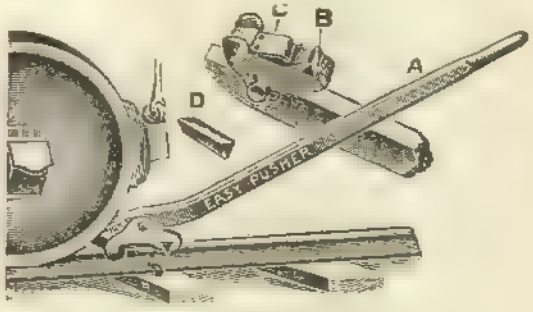
ATLAS

This compound lever arrangement acts on the car wheel so far from its contact with the rail that the moving force is utilized to roll it forward, instead of wasted in an effort to raise it from the track.

The metal parts are malleable iron and steel, and are guaranteed. The handle is of the best selected hard or sugar maple. It can be turned and all four corners used. One extra spur with each mover.

Will move a car farther at a stroke, and with less effort than any other car mover. Gets under the lowest brakes.

Atlas Car Mover. Fine tool steel spur, with extra spur. Weight about 18 lb.....each, **$11.50**
Extra Spurs.....each, **.60**



THE EASY

The "Easy" is of best material. The bar is steel; the shoe malleable; the bit is the finest tool steel; also the spring.

The heel has lugs extending downward on both sides of the rail so as to hold it firmly in position and prevents its slipping sideways. The triangular bit or steel cuts into the rail when pressure is applied and prevents slipping backward even though the rail is icy, greasy or wet.

This bit can be inverted. Each one has three sharpened edges. When the pressure is released, the steel spring lifts the steel bit from the rail, thus preventing it from being dulled by sliding over the rail when following the wheel. Two triangular steels with each pusher.

Easy Car Mover. Length 5½ feet. Weight each 20 lb. .....each **$9.00**
Extra Steel Bits . . . . . **.50**

HAND POWER ELEVATORS

With three Cables, two for Hoisting and the third for Counter Balance. This cable is of the higest grade of "Standard Hoisting Cable" and is composed of 6 strands with 19 wires per strand. The Hand Rope is Manila and of large diameter. The Platform is equipped with Safety Dogs which prevent the descent of car in case of breakage of Hoisting Cables.

One Cast Iron Hand Rope Wheel with Brake Pulley cast integral; One Cast Iron Gear and Pinion, each accurately lathe bored on Anti-Friction Roller Bearings. The Winding Drums are constructed of high grade Maple Staves (carefully turned and grooved for proper travel of cable) securely fastened between cast iron heads. The Brake is Positive in action and can be operated from the Platform or any floor within the travel of the elevator. The machinery is fitted in a wood frame constructed of 3x12 in. timbers.

The Platform is constructed of hardwood throughout and thoroughly braced with Wrought Iron Braces.

Prices include suitable counterweight and are for Complete Outfits, except for Timbers. These can be purchased from your local lumber dealer thus saving freight. Each elevator is furnished with a complete blue-print and directions for the installation of the elevator.

Prices are for One Story Travel; for each Additional Story add $20.00. In ordering give Size of Platform, Capacity, and total travel distance of Platform.

Nos.	F740A	F740B	F740C	F740D	F740E	F740F	F740H	F740J	F740K	F740L
Size Car, Ft...	4x4	4x5	3½x8	4½x5½	4x6	5x5	5x6	6x8	6x7	8x3
Cap., Lbs.	1000	1500	1500	1500	1500	1500	1500	1500	1500	1500
Each	$370.00	370.00	390.00	390.00	420.00	410.00	430.00	440.00	450.00	470.00

F. O. B. Minneapolis

Directions for Measurements—Send Sketch showing height of each story from floor to floor travel of Elevator, and in top story the height from floor to ceiling, where Overhead Machinery is located; the floor opening must be 12 in. wider postway than you want the car in the clear and 2 in larger front and back. The minimum head room required for Overhead Machinery of Hand Power Elevator is 11 feet.

DUMB WAITER OUTFITS

+SEDGWICK AUTOMATIC BRAKE

Outfit includes Machine Mounted on Platform ready to erect, with necessary Rope Guards; Car with Guide Shoes and Thimble and Staple for Rope; Adjustable Counter Weight to balance Car properly; Guide Runs for both Car and Counterweight, for total height of 20 feet or less; all Ropes and Flexible Wire Rope Cables.

For heavier service than ordinary, for Hospitals, Hotels, Restaurants, etc., will give good service up to 200 Lbs., One Pound Pull on the Geared Outfit raises from 4 to 10 Lbs. of load; Steel Shafting; Roller Bearings; Seasoned Ash Car; Automatic Brake does not lock fast, but is applied and regulated by load, holding at any point.

+No. F740M—SINGLE FACE; Geared

Size Nos.	1	2	3	4
Hand Wheel Diam., In.	16	20	24	30
Car Dim. Outside Width, In.	20	24	28	34
Car Dim. Outside Depth, In.	16	20	24	30
Space Required, Width, In.	23	27	31	37
Space Required, Depth, In.	19	23	27	33
Wt. Complete Outfit, Lbs.	400	450	500	550
Machine Only, Each	$170.00	180.00	190.00	200.00
Outfit Complete, Each	280 00	320.00	360 00	400.00
Add for Extra Height, per ft.	1.80	2.00	2.40	2.80

+No. F740N—DOUBLE FACE; Geared

Size Nos.	1	2	3	4
Hand Wheel Diam., In.	16	20	24	30
Car Dim. Outside Width, In.	20	24	28	34
Car Dim. Outside Depth, In.	16	20	24	30
Space Required, Width, In.	23	27	31	37
Space Required Depth, In.	20	24	28	34
Wt. Complete Outfit, Lbs.	400	450	500	550
Machine Only, Each	$190.00	200.00	210.00	220.00
Outfit Complete, Each	310 00	350 00	390.00	430.00
Add for Extra Height, per ft.	2.80	3.00	3.30	3.90

+No. F740P—SINGLE FACE; Not Geared

Size Nos.	1	2	3	4
Hand Wheel Diam., In.	16	20	24	30
Car Dim. Outside Width, In.	20	24	28	34
Car Dim. Outside Depth, In.	16	20	24	30
Space Required, Width, In.	23	27	31	37
Space Required, Depth, In.	19	23	27	33
Wt. Complete Outfit, Lbs.	250	300	350	450
Machine Only, Each	$ 80.00	100.00	120.00	140.00
Outfit Complete, Each	160.00	200.00	240 00	280 00
Add for Extra Height, per ft.	1.05	1.20	1.35	1.50

+No. F740R—DOUBLE FACE; Not Geared

Size Nos.	1	2	3	4
Hand Wheel Diam., In.	16	20	24	30
Car Dim. Outside Width, In.	20	24	28	34
Car Dim. Outside Depth, In.	16	20	24	30
Space Required, Width, In.	23	27	31	37
Space Required, Depth, In.	20	24	28	34
Wt. Complete Outfit, Lbs.	250	300	350	450
Machine Only, Each	$ 90.00	115.00	140.00	170.00
Outfit Complete, Each	180.00	225 00	270.00	320.00
Add for Extra Height, per ft.	1.50	1.65	1.80	1.95

SIMPLEX

A good, serviceable, low priced outfit, for light work, or for use where a reasonable amount of care may be expected in handling; Suitable for any height; Car is strong, light, and well finished, with Guide Shoes and Thimble and Staple for Rope.

Complete outfit includes Machine, mounted on Platform, ready to erect; Necessary Rope Guards; Car, with Guide Shoes, etc.; Adjustable Counterweight; Guide Runs, for both Car and Counterweight for total height of 20 ft. or less over-all, and all Ropes for same height.

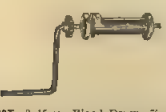
SINGLE FACE

Size Nos.	1	2	3	4
Diam. Hand Wheel, In.	16	20	24	30
Outside Dimensions of Car, In.	20x16	24x20	28x24	34x30
Space Required In.	23x19	27x23	31x27	37x33
Weight, Complete Outfit, Lbs.	250	300	350	450
No. P740R4—Machine Only, Each	$ 45.00	60.00	80.00	100.00
+No. F740R6—Outfit Complete, Each	120.00	160.00	200.00	240 00
Add for Extra Height, Foot	1.05	1.20	1.35	1.50

+Above Sizes, F. O. B. Poughkeepsie, N. Y., Carried in Stock at Factory ready for immediate shipment

+WOOD HOISTS

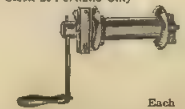
Carried in Stock at Portland Only



Each

No. F740T 3x15 in. Wood Drum, ¾ in. One-piece Cold Rolled Steel Crank and Shaft. Drum fastened with Eyebolt; 3 in. Cast Iron Pinion Keyed to Shaft, with Dog. Three 4 in. Sheaves and Bolts $3.50

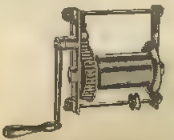
Weight 9 Lbs. Each



Each

No. F740V 3x11 in. Wood Drum, with Cast Iron Flanges fastened to ¾ in. Steel Shaft and Crank. Cast Iron Bearings; Complete with Two 4 in. Sheaves and Bolts $9 00

Weight 15 Lbs. Each



Each.

No. F740W ... ity 450 Lbs., Higl. Geared. For any Size Well Hole. All Cast Iron except Malleable Iron Crank Handle; Complete with Three 4 in. Sheaves and Bolts $17.00

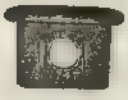
Weight 30½ Lbs. Each

TOOL WEDGES

Malleable iron, natural finish.

No. 1742—Light axe, 1½ oz., 2 in. long, 1 5/16 in. deep, head 5/16 in. wide, w't per gro. 15½ lbs.,
per gross $8.00

TWO DOZEN IN A BOX



Malleable iron, natural finish.

No. 1747—Hammer or hatchet, ¾ oz., 1 5/16 in. long, ¾ in. deep, head 5/16 in. wide, w't per gro. 4½ lbs.,
per gross $5.00

THREE DOZEN IN A BOX

Malleable Iron, Natural Finish.

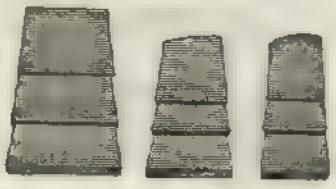
No. 1705—Hammer, for sizes 0, 1 and 1½ NAIL HAMMERS, cross pattern, wedges the handle against the eye of the tool in **four directions,** a very secure hold; length 1 5/16 in., width ¾ in., depth ¾ in., w't per gross 3¼ lbs. .....per gross $1.60

ONE GROSS IN A BOX. WE DO NOT BREAK BOXES

H.S.B. & CO. REV-O-NOC

We Stand Behind the Brand.

TOOL WEDGES



Malleable iron, natural finish, plain wedge pattern, cross ribbed to hold securely.

No. 1704—Hammer, for sizes 2 and 3 nail hammers, length 5/16 in., depth 1 5/16 in., w't per gross 1¼ lbs.,
per gross $1.30

No. 1703—Hammer, for medium and large machinists and riveting hammers, length 7/16 in, depth 1 1/16 in., w't per gross 1 lb.,
per gross $1.00

No. 1702—Hammer, for small machinists and riveting hammers, length ⅜ in., depth 1 1/16 in., w't per gross ¾ lb. .....per gross $0.80

ONE GROSS IN A BOX. WE DO NOT BREAK BOXES

Our reputation founded on over sixty-seven years' business stands back of the OVB brand.

All goods branded OVB are guaranteed to be of highest quality material and workmanship and free from imperfections.

In selling OVB articles there is a profit for you and satisfaction to your customers.

WHITE MASONS' TAPE

Rubberized Fabric, ¾ in. Wide, Similar to Tire Tape.

White Mason tape is used for wrapping the fingers and hands of stone masons, bricklayers, mechanics and kindred trades. Is also used for wrapping tool handles, baseball bats, etc.

The strong friction, wearing and insulating qualities of this tape, together with its light color, makes its particularly adapted for interior work in the electrical line.

No. 2½—½ lb. roll, w't per doz. 3 lbs.,
per dozen $3.60

ONE ROLL IN A CARTON; 100 LBS. IN A CASE

AXE RACKS

Can be used on the counter or on the wall by supporting with brackets. For counter use a fine display can be made by placing two racks back to back. The rack is ornamental and attractive, and will save its cost by keeping axes off the floor, away from the dirt and sprinkler.

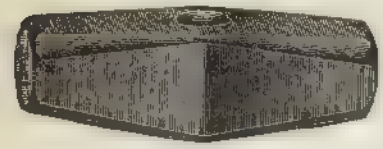
No. F15 Briggs—Semi-circular, hard wood, painted red, base 22½x11½ in., height 13 in., holds up to sixteen handled and sixteen unhandled axes, w't each 16 lbs.,
each★ $7.50

ONE IN A FIBRE SHIPPING CARTON

NOTE—We do not give away Axe Racks as premiums.

★ Items Marked Thus ★ Are Shipped From Factory Only.

STRIKING HAMMERS

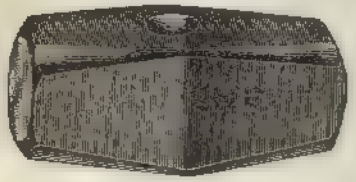


Regular or Nevada long pattern, solid forged steel, polished faces, oil finish.

Nos.	863	864	865	866
W't, lbs.	3	4	5	6
Per dozen	$8.65	11.50	11.50	11.50

Nos.	867	868	8610	8612
W't, lbs.	7	8	10	12
Per dozen	$13.45	15.35	19.20	23.05

LOOSE



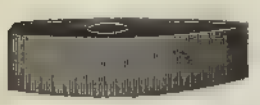
Oregon short pattern, solid forged steel, polished faces, oil finish.

Nos.	874	875	876
W't, lbs.	4	5	6
Per dozen	$11.50	11.50	11.50

Nos.	877	878	8710	8712
W't, lbs.	7	8	10	12
Per dozen	$13.45	15.35	19.20	23.05

LOOSE

MASON'S HAMMERS



Solid Forged Steel, Polished Faces Oil Finish.

Nos.	954	955	956
W't, lbs.	4	5	6
Per dozen	$17.30	19.80	23.75

BLACKSMITHS' HAND HAMMERS

ENGLISH PATTERN, solid forged steel, polished face, oil finish.

Nos.	2922	2923
W't, lbs.	2	3
Per dozen	$7.90	9.50

LOOSE

BLACKSMITHS' SLEDGES

Solid forged steel, cross pein, polished face, oil finish.

Nos.	1304	1306	1308
W't, lbs.	4	6	8
Per dozen	$11.50	11.50	15.35

Nos.	1310	1312
W't, lbs.	10	12
Per dozen	$19.20	23.05

LOOSE

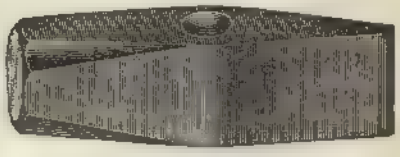
Solid forged steel, double face, oil finish, polished faces.

Nos.	1604	1606	1608
W't, lbs.	4	6	8
Per dozen	$11.50	11.50	15.35

Nos.	1610	1612	1614	1616
W't, lb.	10	12	14	16
Per dozen	$19.20	23.05	26.90	30.70

LOOSE

STONE SLEDGES

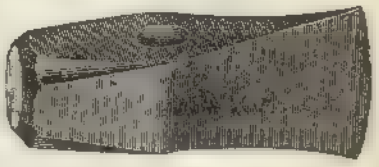


Solid forged steel, polished face, oil finish.

Nos.	9210	9212
W't, lbs.	10	12
Per dozen	$19.20	23.05

LOOSE

WOOD CHOPPERS' MAULS

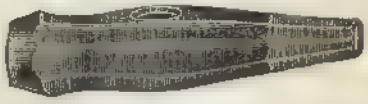


Oregon pattern, oval eye, solid forged steel, polished face, oil finish.

Nos.	2135	2136	2137	2138
W't, ea., lbs.	5	6	7	8
Per dozen	$14.40	17.30	20.15	23.05

LOOSE

SHIP OR TOP MAULS



Solid Forged Steel, Polished Faces Oil Finish.

Nos.	1565	1566
W't, lbs.	5	6
Per dozen	$16 65	19.95

LOOSE

H.S.B.&CO. REV-O-NOC

We Stand Behind the Brand.

Best Selling Auto Padlocks

MILLER
No. 950 Assortment

Consisting of one and one-sixth doz. selected best selling Miller Padlocks mounted on Steel Display Panel, as shown.

HERE is your most profitable line of Auto Padlocks—attractively displayed on Steel Panel 21" x 9¼". Self-sellers, with a splendid margin.

While most auto accessories are only a *convenience* to the car owner, dependable padlocks are a *necessity*—the market for these Miller locks is ready and waiting for you.

Order through your jobber today —or write us for information. We furnish valuable Sales Helps to every Miller Padlock dealer.

MILLER LOCK CO., Philadelphia, Pa., U. S. A.

MILLER PADLOCKS

Say you saw it in GOOD HARDWARE

HARRINGTON AND RICHARDSON REVOLVERS

MODEL 1904, center fire, double action, rubber stock, octagon barrel.

Use 32 S. & W. and 38 S. & W. cartridges.

32 CALIBER, 6 SHOTS

NICKEL PLATED.

No. 4132—2½ **in.** barrel, w't 16 oz. . ....each **$7.50**
No. 4232—4½ **in.** barrel, w't 17 oz. .. ..each **8.00**

BLUED.

No. 4132B—2½ **in.** barrel, w't 16 oz. ....each **$7.50**
No. 4232B—4½ **in.** barrel, w't 17 oz. .....each **8.00**

38 CALIBER, 5 SHOTS

NICKEL PLATED.

No. 4138—2½ **in.** barrel, w't 16 oz. .. . ..each **$7.50**
No. 4238—4½ **in.** barrel, w't 17 oz. .....each **8.00**

BLUED.

No. 4138B—2½ **in.** barrel, w't 16 oz. .....each **$7 50**
No. 4238B—4½ **in.** barrel, w't 17 oz. .....each **8.00**

ONE IN A BOX

Double action, 2½ in. octagon barrel, rubber stock.

Uses 22 short or long and 32 S. & W. cartridges.

22 CALIBER, 7 SHOTS

1906 Model.

NICKEL PLATED.

No. 2122—Rim fire, w't 10 oz. .....each **$7.50**

BLUED.

No. 2122B—Rim fire, w't 10 oz. .....each **$7.50**

32 CALIBER, 5 SHOTS

1905 Model.

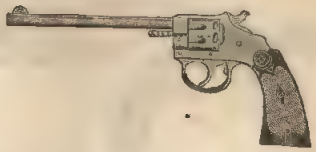
NICKEL PLATED.

No. 2132—Center fire, w't 11 oz. .....each **$7.50**

BLUED.

No. 2132B—Center fire, w't 11 oz. .....each **$7.50**

ONE IN A BOX



MODEL 1906, double action, rim fire, new rubber target grip stocks.

Use 22 short and long rim fire cartridges.

22 CALIBER, 7 SHOTS

NICKEL PLATED.

No. 2622Q—6 **in.** octagon barrel, w't 12 oz. ....each **$9.70**

BLUED.

No. 2622BQ—6 **in.** octagon barrel, w't 12 oz. . each **$9 70**

ONE IN A BOX

TARGET, automatic action, hammer, premier small frame, new rubber target grips.

22 CALIBER, 7 SHOTS

NICKEL PLATED.

No. 4622TQ—6 **in.** barrel, w't 17 oz. .....each **$17.80**

BLUED.

No. 4622BTQ—6 **in.** barrel, w't 17 oz. .....each **$17.80**

ONE IN A BOX

HARRINGTON AND RICHARDSON REVOLVERS

HAMMER, premier small frame, automatic double action, rubber stock.

22 CALIBER, 7 SHOTS

NICKEL PLATED.

No. 4622—3 in. barrel, w't 13 oz. .....each $15 00
No. 5822—4 in. barrel, w't 13½ oz. .....each 15.60
No. 5922—5 in. barrel, w't 14 oz. .....each 16.00

BLUED.

No. 4622B—3 in. barrel, w't 13 oz. .....each $15.00
No. 5822B—4 in. barrel, w't 13½ oz. .....each 15.60
No. 5922B—5 in. barrel, w't 14 oz. .....each 16.00

32 CALIBER, 5 SHOTS

NICKEL PLATED.

No. 4532—2 in. barrel, w't 12 oz. .....each $15.00
No. 4632—3 in. barrel, w't 12 oz. .....each 15.00
No. 5832—4 in. barrel, w't 12½ oz. .....each 15.60
No. 5932—5 in. barrel, w't 13 oz. .....each 16.00

BLUED.

No. 4532B—2 in. barrel, w't 12 oz. .....each $15.00
No. 4632B—3 in. barrel, w't 12 oz. .....each 15 00
No. 5832B—4 in. barrel, w't 12½ oz. .....each 15.60
No. 5932B—5 in. barrel, w't 13 oz. .....each 16.00

ONE IN A BOX

Gold finished cylinder, pearl handle, automatic double action.

Use 32 S. & W. and 38 S. & W. cartridges.

HAMMERLESS

22 CALIBER, 7 SHOTS

NICKEL PLATED.

No. 4622GCP—3 in. barrel, **Premier small frame,** w't 13 oz. .....each $19.50

32 CALIBER, 5 SHOTS

NICKEL PLATED.

No. 4632GCP—3 in. barrel, **Premier small frame,** w't 13 oz. .....each $19.50

38 CALIBER, 5 SHOTS

NICKEL PLATED.

No. 4738GCP—3½ in. barrel, w't 15 oz. .....each $19.50

HAMMERLESS

22 CALIBER, 7 SHOTS

NICKEL PLATED.

No. 5522GCP—3 in. barrel, w't 13 oz. .....each $21.00

32 CALIBER, 5 SHOTS

NICKEL PLATED.

No. 5532GCP—3 in. barrel, w't 13 oz. .....each $21 00

38 CALIBER, 5 SHOTS

NICKEL PLATED.

No. 5538GCP—3½ in. barrel, w't 17 oz. .....each $21.00

ONE IN A BOX

HAMMER, regular automatic, double action, rubber stock.

Nos. 4732, 4732B, 4832, 4832B, 4932 and 4932B, also adapted for 32 S. & W. long center fire cartridges.

32 CALIBER, 6 SHOTS

NICKEL PLATED.

No. 4732—3½ in. barrel, w't 16 oz. .....each $15 00
No. 4832—4 in. barrel, w't 18 oz. .....each 15.50
No. 4932—5 in. barrel, w't 19 oz. .....each 16.00

BLUED.

No. 4732B—3½ in. barrel, w't 16 oz. .....each $15 00
No. 4832B—4 in. barrel, w't 18 oz. .....each 15.50
No. 4932B—5 in. barrel, w't 19 oz. .....each 16.00

38 CALIBER, 5 SHOTS

NICKEL PLATED.

No. 4738—3½ in. barrel, w't 15 oz. .....each $15.00
No. 4838—4 in. barrel, w't 17 oz. .....each 15.50
No. 4938—5 in. barrel, w't 18 oz. .....each 16.00

BLUED.

No. 4738B—3½ in. barrel, w't 15 oz. .....each $15.00
No. 4838B—4 in. barrel, w't 17 oz. .....each 15 50
No. 4938B—5 in. barrel, w't 18 oz. .....each 16.00

ONE IN A BOX

HAMMERLESS, automatic, double action, rubber stock.

22 CALIBER, 7 SHOTS

NICKEL PLATED.

No. 5422—2 in. barrel, w't 12 oz .....each $16.50
No. 5522—3 in. barrel, w't 13 oz. .....each 16.50

BLUED.

No. 5422B—2 in. barrel, w't 12 oz. .....each $16.50
No. 5522B—3 in. barrel, w't 13 oz. .....each 16.50

32 CALIBER, 5 SHOTS

NICKEL PLATED.

No. 5432—2 in. barrel, w't 12 oz. .....each $16.50
No. 5532—3 in. barrel, w't 13 oz. .....each 16 50

BLUED.

No. 5432B—2 in. barrel, w't 12 oz. .....each $16.50
No. 5532B—3 in. barrel, w't 13 oz. .....each 16.50

38 CALIBER, 5 SHOTS

NICKEL PLATED.

No. 5538—3½ in. barrel, w't 17 oz. .....each $16.50

BLUED.

No. 5538B—3½ in. barrel, w't 17 oz. .....each $16.50
No. 5638B—4 in. barrel, w't 18 oz. .....each 17.00

ONE IN A BOX

HARRINGTON AND RICHARDSON REVOLVERS

YOUNG AMERICA, small frame, double action, rubber stock.

Use 22 short or long and 32 S. & W. cartridges.

22 CALIBER, 7 SHOTS

NICKEL PLATED.

No. 4122—2 in. octagon barrel, **rim fire,** w't 8 oz., each $6.80

32 CALIBER, 5 SHOTS

NICKEL PLATED.

No. 4332—2 in. octagon barrel, **center fire,** w't 9 oz., each $6 80

ONE IN A BOX

AMERICA, center fire. Double action, large frame, octagon barrel, rubber stock.

32 CALIBER, 6 SHOTS

NICKEL PLATED.

No. 2632—2½ in. barrel, w't 16 oz. .....each $6.80
No. 2932—4½ in. barrel, w't 18 oz. .....each 7.40

32 CALIBER, 5 SHOTS

NICKEL PLATED.

No. 2638—2½ in. barrel, w't 16 oz. .....each $6.80
No. 2938—4½ in. barrel, w't 18 oz. .....each 7.40

ONE IN A BOX

YOUNG AMERICA, center fire, safety hammer, double action, small frame, octagon barrel, rubber stock.

Use 32 S. & W. short C. F. and 38 S. & W. cartridges.

32 CALIBER, 5 SHOTS

NICKEL PLATED.

No. 3132—2 in. barrel, w't 9 oz. .....each $6.80

32 CALIBER, 6 SHOTS

NICKEL PLATED.

No. 5132—2½ in. barrel, w't 16 oz. .....each $6 80

38 CALIBER, 5 SHOTS

NICKEL PLATED.

No. 5138—2½ in. barrel, w't 15 oz. .....each $6.80

ONE IN A BOX

VEST POCKET, safety hammer, small frame, double action, 1½ in. barrel, rubber stock.

22 CALIBER, 7 SHOTS

NICKEL PLATED.

No. 3322—Rim fire, w't 7 oz. .....each $6.80

32 CALIBER, 5 SHOTS

NICKEL PLATED.

No. 3232—Center fire, w't 8 oz. .....each $6.80

ONE IN A BOX

SMITH AND WESSON REVOLVERS

Military and Police, model 1905, jointless frame, simultaneous ejecting, square butt, checkered wood stock, double action.

32-20 CALIBER, 6 SHOTS

NICKEL PLATED.

No. 6532WSB—4 in. barrel, w't 30½ oz. ....each $49.60
No. 6732WSB—5 in. barrel, w't 31½ oz .....each 49.60

BLUED.

No. 6432WSB—4 in. barrel, w't 30½ oz. ....each $49.60
No. 6632WSB—5 in. barrel, w't 31½ oz. ....each 49.60
No. 6832WSB—6 in. barrel, w't 32½ oz. ....each 49.60

38 CALIBER, 6 SHOTS

BLUED.

No. 6438SB—4 in. barrel, w't 29 oz. .....each $49.60
No. 6638SB—5 in. barrel, w't 30 oz. .....each 49.60
No. 6838SB—6 in. barrel, w't 31½ oz. .....each 49.60
No. 6838SBT—6 in. barrel, fitted with Payne front and rear sights, w't 31½ oz. .....each $56.80

NICKEL PLATED.

No. 6538SB—4 in. barrel, w't 29 oz. .....each $49.60
No. 6738SB—5 in. barrel, w't 30 oz. .....each 49.60

ONE IN A BOX

SINGLE SHOT TARGET PISTOL

This arm contains the new design lockwork which gives a perfect pull.

No. 9022—22 cal., single shot, 10 in. barrel, blued, checked wood stock, shoots 22 short, 22 long and 22 long rifle either black or semi-smokeless, w't 26 oz.,
each $44.80

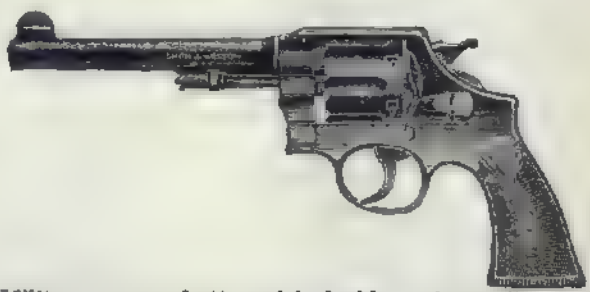
ONE IN A BOX

Model 1911, heavy frame target, hand ejector, jointless frame, simultaneous ejecting, double action.

Use 22 short, long, long rifle and extra long cartridges.

No. 6922SBT—22 cal., short, long, long rifle and extra long cartridges, 6 shots, blued, 6 in. barrel, square checkered wood stock, inlaid with S. & W. gold monogram, fitted with S. & W. target sights, w't 23 oz., each $50.40

ONE IN A BOX



Military square butt model, double action, solid frame, swing out cylinder, adapted for 44 S&W Special cartridges.

No. 6844SB—44 caliber, 6 shots, 6½ in. barrel, blued, square butt walnut checked stock, w't 38½ oz., each $56.00

ONE SET IN A BOX

U. S. Army Model 1917, double action, solid frame, swing out cylinder, adapted for the new 45 AUTO-RIM cartridges or regular 45 Automatic Pistol cartridges WITH CLIPS.

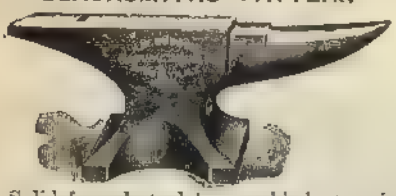
No. 6945SB—45 caliber, 6 shots, 5½ in. barrel, blued, walnut checked square butt stock, w't 36 ozs., each $56.00

ONE IN A BOX

ANVILS

GUARANTEED for one year against breakage at waist, tail or horn; tempered to suit majority of smiths, but temper is not guaranteed

BLACKSMITHS' PATTERN



Solid forged steel top, welded at waist to solid forged base, making a solid forged anvil, long slim horn and heel **80 to 200 pounds in stock; others from factory.**

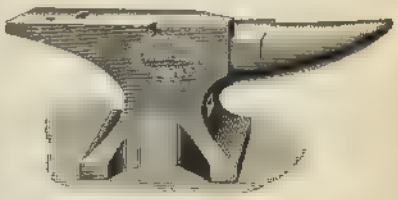
Blacksmiths' Pattern — Base
sizes . . . . . Pound $ . . .

FARRIERS' CLIP HORN

Solid forged anvil same as blacksmiths pattern with made clip horn and long narrow face.

Farriers' Pattern — Base
sizes . . Pound $

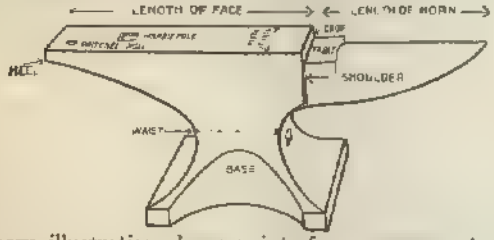
PLOWMAKERS' PATTERN



Solid forged anvil, same as blacksmiths pattern, special pattern for plow work

Plowmakers' Pattern - Base
sizes Pound $

MEASUREMENTS FOR SPECIAL ANVILS



Above illustration shows points for measurements when ordering special anvils. Anvils manufactured of unusual dimensions take additional charge; will be pleased to quote prices on any special size

VULCAN ANVILS

Body cast from best Lake Superior Charcoal iron; face one solid piece of tool steel, thoroughly welded to body, accurately ground and tempered; horn made entirely of tough untempered steel. **Nos. 6, 8** and **10** in stock; others F. O. B Chicago, Ill

Nos	4	5	6	7	8	9	10
Wgt. in lbs.	40	50	60	70	80	90	100
Each	$10 50	12 00	13 00	14 50	16 00	18 00	20 00

APPROXIMATE DIMENSIONS OF ANVILS

Blacksmiths' Pattern

Wgt. Lbs.	Face Inches	Horn Inches	Hardie Hole	Pritchel Hole
80	3½x12	8½	¾	5/16
100	3⅝x13½	9	¾	7/16
125	3⅞x15	10	⅞	9/16
150	4 x16½	10½	⅞	9/16
175	4¼x17	11	1	9/16
200	4 ½x18	11½	1⅛	11/16
250	4¾x20	12½	1 ⅛	11/16

Farriers' Clip Horn

Wgt. Lbs.	Face Inches	Horn Inches	Hardie Hole	Pritchel Hole
100	3½x14½	10	¾	7/16
125	3⅝x16	11	⅞	9/16
150	3¾x16½	12	⅞	9/16
175	4 x17	13	1	9/16
200	4 ¼x18	13½	1⅛	11/16

LEVELING BLOCKS

Solid Pattern

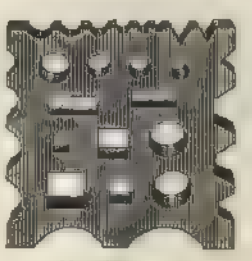
Solid cast iron block; accurately planed on one side.
1½x7x9 in.; wgt. 17 lbs . . . . . Pound $ 15
1½x16x24 in ; wgt. 150 lbs . . . . . Pound .15
2 x24x30 in.; wgt 360 lbs . . . . . Pound .15

Ribbed Pattern

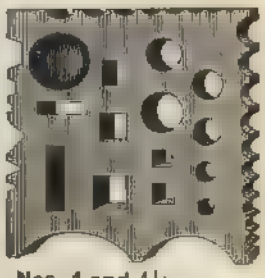
Ribbed on bottom instead of being solid, which gives a larger surface with less weight; planed smooth on face.
2x18x24 in.; wgt. 140 lbs. . . . . Pound $0 20
2x24x30 in.; wgt. 200 lbs . . . . . Pound .20

Open stock. Fourth class freight.

SWAGE BLOCKS



No. 2 ½



Nos. 4 and 4½

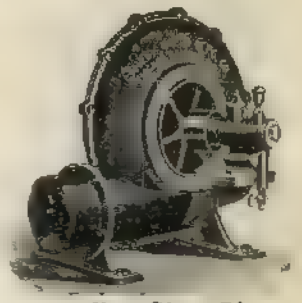
Made of strong iron; cast smooth and accurate to pattern
The dimensions given below do not include grooves around the outside.

	Pound
No. 0 —4x14x19½ in ; wgt about 170 lbs	$0 15
No. 0½—4x15x15 in , wgt about 123 lbs	15
No. 1½ -4x12½x12½ in , wgt about 100 lbs	15
No. 2½ 4x14⅞x14⅞ in.; wgt about 148 lbs	15
No. 3½ 4⅜x16x16 in ; wgt. about 198 lbs	15
No. 4 4x15x15 in ; wgt about 164 lbs	15
No. 4½ —4⅜x18x18 in ; wgt. about 255 lbs . . .	15

Fourth class freight.

WESTERN CHIEF POWER BLOWERS

Heavy steel case; steel pressure blast wheel, mounted on heavy shaft of highest grade hammer cast steel, and has long one-piece solid journal bearing equipped with oil cup (larger sizes have grease cup in addition). This machine is especially adapted for foundry cupolas, furnaces, machine shops, forge fires, or any work requiring the forcing of air currents for long distances, high pressure or strong blasts. Blowers should be placed as near the cupola as possible, and right angles or abrupt turns in blast pipe should be avoided. Constructed throughout in the best possible manner and of the best grade of materials. Built for hard usage and service.



Nos. P1 to P6

No.	Height Inches	Diam. Inlet	Diam. Outlet	Diam. Pulley	Face Pulley	R P M 2-oz. Blast for Boiler Fires	R P M 4-oz Blast for Forge Fires	No. Forge Fires	Sq. Ft. Grate Surface Supplied	Wgt. each lbs.	H. P. Required	Each
P1	10	3¼	2¾	1⅞	1¼	3,675	4,640	1	2	15	¼	$15 35
P2	15	4½	4¼	3	2	3,000	4,000	2	5	35	½	20 15
P3	18	5¼	4¾	3	2	2,600	3,600	4	6	50	1	22 40
P4	20	6⅛	5¾	3½	2½	2,300	3,200	5	8	70	1¼	31 20
P5	24	7	7½	4⅜	3¼	1,928	2,680	7	10	105	1¾	39 00
P6	34	10	7½	5	3½	1,410	2,275	17	18	200	2½	88 80

Boxed. Second class freight. F. O. B. Factory.

BENCH DRILLS

YANKEE BENCH DRILLS

Strong and rapid; automatic friction feeds which changes automatically to ratchet when drill begins to cut; oval arched column, giving strength and rigidity; slide at lower end of column carries an adjustable bracket and table; table raised and lowered independently of bracket by means of hand feed wheel and screw; bracket and table easily removed for larger work; steel chuck, hardened jaws steel spindles; cut gears; steel pinions; steel feed screws with ball bearings at end; all wearing parts tempered.

Nos.	1003	100 5
Speed	Single	Double
Chuck holds up to	¼	⅜
Automatic feed	1½	2
Diameter of circle drills	4¾	6¾
Adjustment of table in bracket	1¼	1¾
Adjustment of bracket	2¾	5
Drill extends below bench	4¼	6
Drill extends above bench	14½	22
Length drill overall	18¾	28
Weight, lbs.	10¼	29
Each	$17.40	$29 00

Crated. Second class freight

No. 28—Canedy-Otto

Strong and well built; adapted for light accurate and rapid drilling in garages, machine shops, etc.; two separate speeds by use of cone pulleys; drills to center of 9-inch circle; drills up to ½-inch hole; up-and-down run of spindle 3¼ inches; up-and-down run of table 8 inches; spindle bored for No. 1 Morse Taper; tight and loose pulleys 4x1⅝ inches; countershaft speed 750 R P M

No. 28—Western Chief Sensitive Bench Drills weight crated 100 lbs. ..... Each $28 00

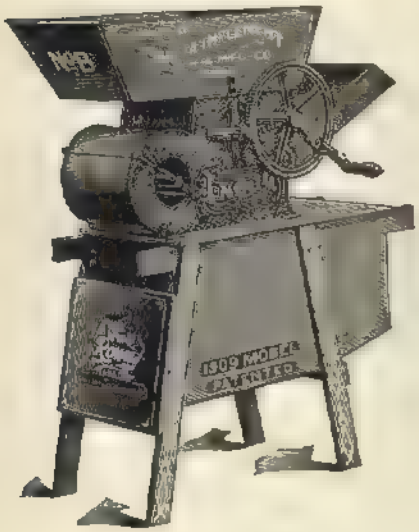
*ECONOMY HAY PRESSES

A Steel Press of High Quality and Low Price

The baling chamber is made entirely of high grade steel, with a deep flaring hopper. The pitman and plunger head are steel, connected by a knuckle joint. The plunger head is mounted on four wheels, has flexible steel shield. The trucks are strong and durable. Each press is equipped with tongue, doubletree, singletrees, jockey stick, breast yoke, hay table, monkey wrench, oil can and tool box. The lifting jack and signal bell are extra.

***Economy Hay Presses,** 14 x 18 inches, weight 1800 pounds ....Price on application

*PEA HULLERS



B ROYAL

Steel and iron throughout, with the exception of the hopper and base.

Gray iron cylinder, 11 inches long by 5 inches diameter.

Gray iron concave sections.

Has automatic revolving screen.

Only one crank. Does the work thoroughly and delivers the peas clean and ready for the market.

No. B Royal. Weight 150 pounds .....each, **$70.00**

A ROYAL

Steel and iron construction, with wooden base and hopper.

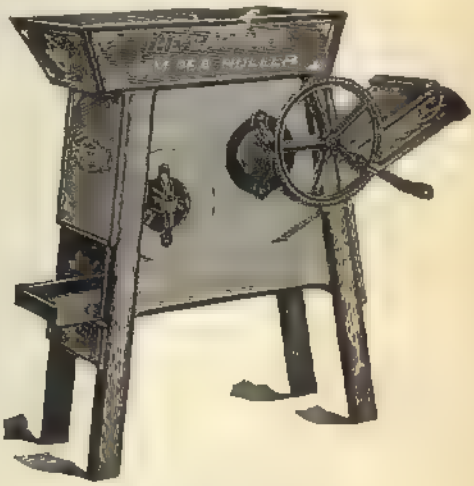
Gray iron cylinder, 8 inches long by 5 inches diameter.

Gray iron concave sections.

Automatic revolving screen.

Only one crank. Does the work and delivers the peas clean and ready for market.

No. A Royal. Weight 125 pounds .....each, **$60.00**



GEM ROYAL

A small wooden machine of large capacity considering its size.

Cylinder of wood, 10 x 5 inches.

Steel teeth.

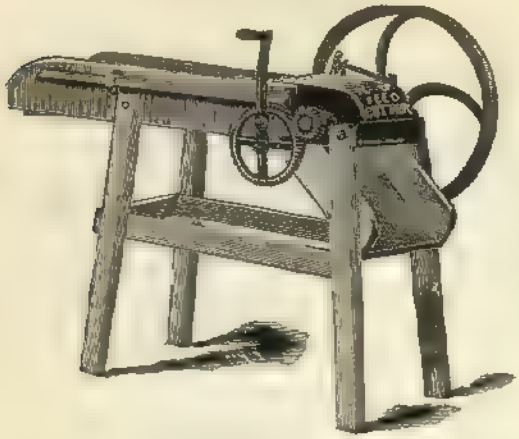
All bearings are of iron.

Has a hand operated screen, working on cleats that does very satisfactory work. It is very light running.

Gem Royal. Weight 100 pounds .....each, **$40.00**

*Not carried in stock; will ship from factory.

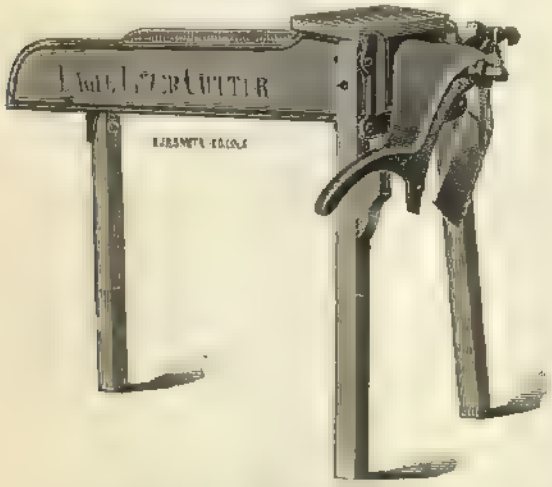
FEED CUTTERS



EAGLE K. D.

Has 11 inch spiral knife, heavy balance wheel, makes three cuts to one turn of the crank, producing a free, rapid and easy cut. Cuts for different lengths.

No. K. D. Weight 159 pounds.....each, **$32.00**



EAGLE HAND LEVER

Has a steel knife with 10¼ inch cutting edge and an adjustable gauge to regulate cut any length up to 2¼ inches.

No. 80. Weight 45 pounds.....each, **$11.00**

BLACK HAWK CORN SHELLERS

Malleable iron frame, hopper, separator and crank

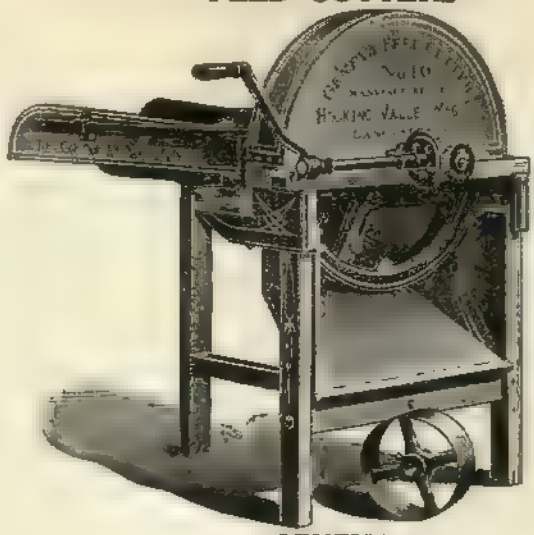
All bearings are made extra long and fully chilled.

Clamps to any barrel, box, bin or tub.

Finished in black japan.

Black Hawk. Capacity 8 to 14 bushels per hour, weight each 15 pounds, per dozen, **$64.80**

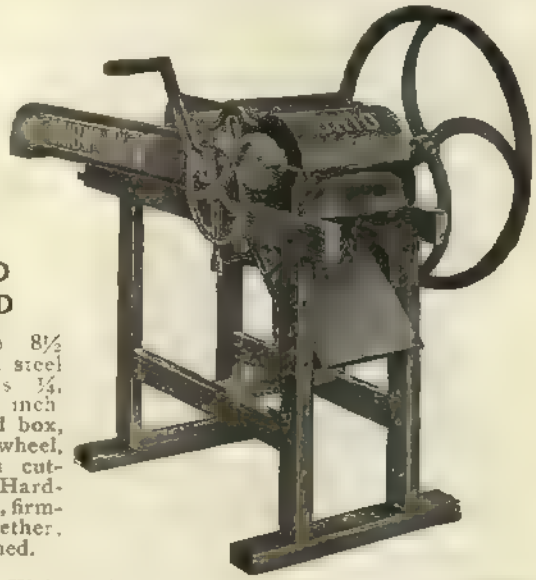
FEED CUTTERS



GENEVA

For both hand and power. Has two 10 inch knives and cuts five different lengths, ¼, ½, ¾, 1 and 1¼ inch The gearing is covered and is provided with a lever to throw in and out of gear and reverse motion of rollers when desired.

***No. 10.** Geneva. Weight 400 pounds. Price on application.



OHIO HAND

Has two 8½ inch carbon steel knives, cuts ¼, ½, ¾ and 1 inch 38 inch feed box, 25 inch flywheel, chilled iron cutter bar. Hardwood frame, firmly put together, finely finished.

No. 8½K2. Weight 175 pounds.....each, **$66.00**

RED CHIEF CORN SHELLERS

Malleable iron frame and hopper, 7¼ inch sheller disc with projecting teeth, crank with wood grip, steel axle, adjustable to any size ear, fastens to side of box or bin.

Red Chief. Capacity 8 to 12 bushels per hour, weight each 11 pounds.....
... . .per dozen, **$60.00**

One dozen in a box

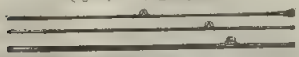
*Not carried in stock; will ship from factory.

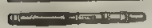
D 9

STEEL FISHING RODS

LUCKIE

Manufactured By Horton Mfg. Co.

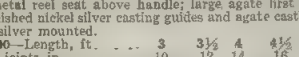


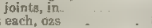


Bait Casting.

Tubular steel, brown enameled; three joints and butt; detachable handle with cork grip; nickel plated mountings; solid metal reel seat above handle; large agate first guides, two polished nickel silver casting guides and agate casting tip, nickel silver mounted.

No. 600—Length, ft.	3	3½	4	4½	5½
Length joints, in.	10	12	14	16	20
Weight each, ozs	5½	6	6½	6¾	7¼
Each	$10 20				





Bait Casting.

Tubular steel, brown enameled; three joints and butts detachable handle with cork grip; nickel plated mountings; solid metal, reel seat above handle; three agate casting guide; and agate casting tip, all nickel silver mounted.

No. 700—Length, ft.	4	4½	5	5½
Length joints, in.	14	16	18	20
Weight each, ozs	6¾	6¾	7	7¼
Each	$13 80			

Telescoping Bait Casting.

Tubular steel, brown enameled; detachable handles with cork grip; detachable finger hook; nickel plated mountings; solid metal reel seat above handle; casting guides and stirrup tip are nickeled silver.

	Each
No. 1205½—Length 5½ feet; length when telescoped 28½ inches; weight each, 7½ ozs	$11 25

Telescoping Fly and Bait.

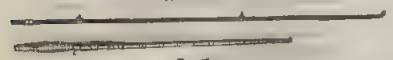
Tubular steel, black enameled; one piece, reversible cork handle, so that reel is either above or below handle; nickel plated mountings; locking reel band; two ring guides and three ring tip, all nickel silver.

	Each
No. 1008½—Length 8½ feet; length when telescoped 26¾ inches; weight each, 8 ozs	$7 50

One in a cloth bag.

BAMBOO FISHING RODS

HEDDON'S



Casting.

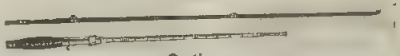
Two joints. Good quality split bamboo tip and butt, agate first guide and top, with cork grip and forward grip, bamboo extending through to butt cap. Nickel reel seat with hood at rear and trigger on band. Improved welted nickel silver ferrule. Nicely wrapped with silk windings in two colors.

Nos.	2½-4½	2½-5	2½-5½
Length, ft.	4½	5	5½
Weight each, ozs	5¼	5½	5¾
Each	$13 20	13 20	15 39

One in a partitioned cloth bag.

BAMBOO FISHING RODS

HEDDON'S



Casting.

Two joints. Fine quality split bamboo tip and butt joint, with full agate mountings and solid cork grip and forward grip. Bamboo extending entirely through to butt cap. Extra heavy nickeled reel seat with hood and trigger at rear and locking reel band. Improved welted nickel silver ferrule. Well wrapped with silk windings in three colors.

Nos.	4-4½	4-5	4-5½
Length, ft.	4½	5	5½
Weight each, ozs.	5½	5½	5¾
Each	$17 61	17 61	18 90

One in a partitioned cloth bag.

Casting.

Selected split bamboo tip, full agate, selected split bamboo butt joint, with solid satin cork grip. Extra heavy nickeled reel seat with hood at rear and Heddon locking reel band. Improved welted nickel silver ferrule. Close wound with silk winding in three colors. Aluminum case; partitioned green satin bag.

Nos.	6-4½	6-5	6-5½
Length, ft.	4½	5	5½
Weight each, ozs.	5¼	5½	5¾
Each	$26 40	26 40	28 59

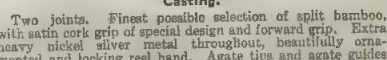
One in a cardboard case with nickel plated ends.

Casting.

Two joints. One carefully selected split bamboo tip, with solid satin cork grip of special design and forward grip. Extra heavy nickel silver metal throughout and locking reel band. Agate top and agate guides throughout. All metal handsomely ornamented and rod is wound at close intervals with silk windings in a beautiful design of three colors. Covered with four coats finest elastic waterproof varnish.

Nos.	10-4½	10-5	10-5½
Length, ft.	4½	5	5½
Weight each, ozs.	5¼	5½	5¾
Each	✚$29 70	✚29 70	✚31 62

One in a partitioned canvas bag and waterproof leatherette case.



Casting.

Two joints. Finest possible selection of split bamboo, with satin cork grip of special design and forward grip. Extra heavy nickel silver metal throughout, beautifully ornamented and locking reel band. Agate tips and agate guides throughout. Closely wrapped with a beautiful design of silk windings in four colors. Covered with four coats of finest elastic waterproof varnish.

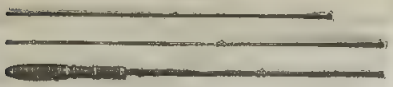
Nos.	15-4½	15-5	15-5½
Length, ft.	4½	5	5½
Weight each, ozs.	5¼	5½	5¾
Each	✚$35 49	✚35 49	✚37 71

One in a partitioned velvet bag and waterproof leatherette case.

✚F. O. B. Michigan Factory Only.

STEEL FISHING RODS

VIM



Bait.

Three joints and butt, with handle attached; beaded hardwood grip, grooved above hand for real seat; snake guides and three ring top. Locking reel band. Green enameled joints; black enameled grip, nickel plated guides and mountings.

No. 1V—Length, ft.	6	6½	7	7½	8
Length joints, in.	25	27	29	31	33
Weight each, ozs	6¼	6½	7	7¼	7½
Per Dozen			$36 00		

One in a cloth bag.

GENUINE BRISTOL

Possesses great strength, lightness and casting power. Very elastic and responsive. Stiff enough to cast a long distance with precision and pliant enough to make short casts a delight. Guaranteed against all breakage when in actual use by reason of flaws in material or defective workmanship.

Three joints and butt; solid metal reel seat above hand; two ring guides, three ring top. Locking reel band; natural finish brass guides and nickel plated mountings.

Expert Bait Casting.

	Each
No. 15WC—Celluloid wound handle; length 6½ ft.; length of joints, 24 in.; weight each 9 oz	$6 00
No. 15C—Cork handle, long grasp; length 6½ ft.; length of joints 24 in.; weight each 8¾ ozs	13 20
No. 15WCLG—Celluloid wound handle, long grasp; length 6½ ft.; length of joints 24 in.; weight each 9 ozs	14 25
	6 75
	14 85

St. Lawrence Bass.

	Each
No. 13WC—Celluloid wound handle; length 7½ ft.; length of joints 28 in.; weight each 9½ ozs	$6 00
No. 13M—Plain finish, maple handle; length 7½ ft.; length of joints 28 in.; weight each 9½ ozs	13 20
No. 13WCLG—Celluloid wound handle, long grasp; lgth. 7½ ft., lgth. of joints 28 in.; wt. each 9½ ozs	6 75
	12 15
	14 85

Henshall Bass.

	Each
No. 11C—Celluloid wound handle; length 8½ ft.; length of joints 32 in.; weight each 10 ozs	$6 00
	13 20

One in a canvas bag.

Bait Casting.

Three joints and butt, cork grip, with solid metal reel seat above hand, and patent detachable finger hook, locking reel band; large polished nickel silver improved casting guides, and agate tip, with extra large opening.

No. 25—Length ft.	4½	5	5½
Weight each, about, ozs	8	8¾	8½
Each	$8 00	17 70	

Three joints and butt, same as No. 25, except it has 14 inch handle, with double cork grips, and agate mountings throughout.

No. 27—Length, feet	4½	5	5½
Weight each, about, ozs	9	9¾	9¾
Each	$12 00	26 40	

One in a canvas bag.

STEEL FISHING RODS

GENUINE BRISTOL JOINTED FLY RODS

Three joints. Tubular steel; handle mountings nickel silver; reel seat below the hand; nickel silver snake guides and one ring fly top.

	Each
No. 9—Length 9 ft. 6 inches	$16 50

One in a partitioned bag; weight each 8 ozs.

HOLLAND TELESCOPIC

Made from the highest grade imported English seamless steel tubing.

Each joint slides into the one below it, and all telescope into the handle joint. The rod is extended to full length simply by drawing out the joints, first the tip and then the others, in order. A patent spring device at the foot of each joint on the inside of the rod, locks the joints automatically at any length extended.

Casting.

Four joints; 3 ft. 6 in. long when fully extended; telescopes to 15½ inches.

Trimmed with rear agate, offset stirrup agate tip, balance German silver ring guides.

	Each
No. 1CH—Weight each 8 ounces	$12 75

One in a canvas case.

LUCKIE

Manufactured by Horton Mfg. Co.

Bait.

Tubular steel, brown enameled; three joints and butt; detachable handle, with cork grip; nickel plated mountings; solid metal reel seat above handle; two ring nickeled silver guides and three ring nickeled silver tip.

No. 300—Length, ft.	6	6½	7	7½	8	8½	9
Length joints, in.	22	24	26	28	30	32	34
Weight each, ozs	7½	7¾	8	8¼	8½	8¾	9
Each				$6 30			

One in a cloth bag.

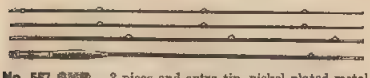
Bait Casting.

Tubular steel, brown enameled; three joints and butt; detachable handle with cork grip; nickel plated mountings; solid metal reel seat above handle; three polished nickel silver casting guides and polished nickel silver stirrup tip.

No. 400—Length, ft.	3	3½	4	4½	5½
Length joints, in	10	12	14	16	20
Weight each, ozs	5½	6	6½	6¾	7¼
Each			$6 30		

One in a cloth bag.

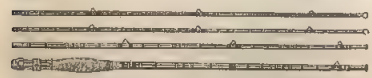
REVONOC SPLIT BAMBOO FLY RODS



No. 567 —3 pieces and extra tip, nickel plated metal locking reel seat below cork grip, snake guides, nickel plated ring tip, closely wound with green, red and maroon silk, length 7½ ft, w't per doz. 6¼ to 6¾ ozs., put up on a flannel covered form and in a cloth bag, per dozen $104.40

No. 510½—Three-piece, extra tip, cork grip, full nickel plated mountings, capped ferrules, solid metal reel plate above the hand, funnel tops, snake guides, wound at intervals with colors of silk, finely varnished and put up in a covered wood form and cloth bag, lengths 8 and 8½ ft., w't about 6 oz. ..... per dozen $69.00

SPLIT BAMBOO FLY RODS

No. 10½ —Three-piece, extra tip, cork grip, full nickel plated mountings, solid metal reel plate below the hand, improved and welted ferrules, silk wound German Silver snake guides and closely wrapped in two colors of silk, scarlet and green, varnished and put up in a covered wood form and cloth bag, length 8 and 8½ feet, w't about 6 oz. ..... per dozen $75.00

No. 770½—Three-piece, extra tip, cork grip, nickel plated mountings, metal reel plate below the hand, improved ferrules, silk wound snake guides, closely wound with red, black and green silk, varnished and put up in a flannel covered form and cloth bag, lengths 8 and 8½ ft., w't about 5½ oz. ..... per dozen $100.00

No. 770½—Light three piece, extra tip, cork grip, full nickel plated mountings, solid metal reel plate below the hand, improved ferrules welted, silk wound snake guides and cluster wrappings of silk in three colors, varnished and put up in a flannel covered form and cloth bag, length 7½ feet, w't about 5 ounces, per dozen $100.00

SPLIT BAMBOO FLY RODS

No. 10½S—Three piece and extra tip, cork grip, full nickel plated mountings, solid metal reel seat below the hand, improved ferrules, welted, silk wound German silver snake guides and fancy cluster windings of garnet and lemon silk, finely varnished and put up in a flannel covered form and cloth bag, length 7½ ft., w't about 5 oz., per dozen $120.00

SPLIT BAMBOO BAIT RODS

No. 11½—Light weight three-piece, extra tip, made of fine selected cane, veneered cork grip and red cedar reel seat, full nickel-plated mountings, reel bands instead of solid metal reel plate, improved ferrules, welted, silk wound nickel silver snake guides, closely wrapped with scarlet and black silk, finely varnished and put up in a flannel covered form and canvas bag, length 8 and 8½ ft., w't about 5 oz. ..... per dozen $136.00

HEDDON'S ONE-PIECE RODS

"KING SPECIAL"

For the cottage, or permanent fishing headquarters, where frequent carrying of the rod is unnecessary, the single piece design is recommended.

Put up in a cloth bag in a well built Aluminum Rod Case. The case being nearly water tight, will float for some time. Size 1¾ in. inside diameter and furnished in length to fit Rod.

No. 3—Designed for landing the large game fish of southern rivers and the savage hard fighting Muskallonge of the north. Agate first guide and top, cork grip and forward grip; improved welted nickeled silver ferrules, heavy reel seat, finger hook and attractively wound with silk. **Furnished in three foot length only.** W't 4½ oz. ..... per dozen $105.60

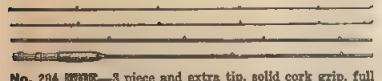
REVONOC SPLIT BAMBOO FLY RODS

Made from selected African steel cane, 6 strips cemented together as in a split bamboo rod and rounded, a strong fibre rod with a beautiful action. Fly or trout rod, 3 piece, with extra tip, silk whipped at close intervals, nickel mountings, snake guides, locking reel seat below hand, cork grasp, finished with flowing varnish, in flannel covered form and flannel bag.

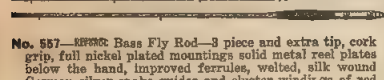
Sizes, ft.	8	8½	9	10
W't oz.	5	5½	6½	7

No. 210 REVONOC—Per dozen $158.40

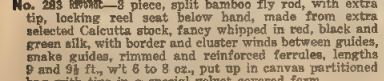
No. 559 REVONOC—3 piece and extra tip, solid cork grip, full nickel plated mountings, solid metal reel plate below hand, improved ferrules, welted, silk wound German agate first guide, balance German silver snake guides and German agate fly tops, broad wrappings of scarlet and black silk, finely finished and put up in a velvet covered form and canvas bag, length 9 and 9½ ft. w't about 7 oz. each ..... per dozen $184.00



No. 294 REVONOC—3 piece and extra tip, solid cork grip, full nickel plated mountings, solid metal reel plate below the hand, improved ferrules, welted, silk wound German silver snake guides and fly tops, closely wound at intervals with green silk, finely varnished and put up in a flannel covered form and canvas bag, lengths 9 and 9½ ft., w't about 6½ oz. each ..... per dozen $180.00

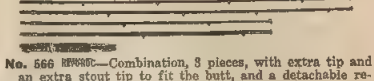


No. 557—REVONOC Bass Fly Rod—3 piece and extra tip, cork grip, full nickel plated mountings solid metal reel plates below the hand, improved ferrules, welted, silk wound German silver snake guides and cluster windings of red and green silk, finely finished and put up in a flannel covered form and canvas bag, lengths 9½ and 10 ft., w't about 7½ oz. each ..... per dozen $183.60

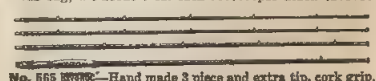


No. 283 REVONOC—3 piece, split bamboo fly rod, with extra tip, locking reel seat below hand, made from extra selected Calcutta stock, fancy whipped in red, black and green silk, with border and cluster winds between guides, snake guides, rimmed and reinforced ferrules, lengths 9 and 9½ ft., w't 6 to 8 oz., put up in canvas partitioned bag with tips in a special velvet covered form, per dozen $200.00

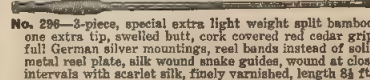
No 568—3-piece, light weight inlaid cedar split bamboo, one extra tip, cork grip; this rod is made from selected cane, and is inlaid to show cedar above the grasp only; full nickel plated mountings, solid metal reel plate below the hand, improved ferrules, welted, silk wound nickel silver snake guides, closely wrapped with scarlet and black silk, finely varnished, lengths 8½ and 9 ft., weight about 4½ ozs., in flannel covered form and canvas bag, per dozen $140.40



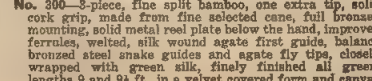
No. 566 REVONOC—Combination, 3 pieces, with extra tip and an extra stout tip to fit the butt, and a detachable reversible cane grip; the grip has a double inserted ferrule and with this combination a one-piece, two-piece, and a three-piece rod 9½ ft. long can be made; by reversing the handle the same rods with reel above the hand can be made; made of fine grade split bamboo, full nickel plated mountings, solid metal reel plate, improved ferrules, welted, silk wound German silver snake guides and very closely wrapped with green silk, finely finished and put up in a flannel-covered form and canvas bag, w't about 7 oz. each ..... per dozen $200.00



No. 565 REVONOC—Hand made 3 piece and extra tip, cork grip, nickel plated reel seat below the handle, hand welted ferrules, snake guides, ringed top, solid sectional cork grip, wound with fancy silk winding, length 9 or 9½ ft. w't 6½ and 7 oz., put up in velvet plush covered form and canvas bag ..... per dozen $261.00



No. 296—3-piece, special extra light weight split bamboo, one extra tip, swelled butt, cork covered red cedar grip, full German silver mountings, reel bands instead of solid metal reel plate, silk wound snake guides, wound at close intervals with scarlet silk, finely varnished, length 8½ ft., w't 3½ ozs., in velvet covered form and canvas bag; this rod is so constructed as to get all the strength possible into a light rod ..... per dozen $342.00



No. 300—3-piece, fine split bamboo, one extra tip, solid cork grip, made from fine selected cane, full bronzed mounting, solid metal reel plate below the hand, improved ferrules, welted, silk wound agate first guide, balance bronzed steel snake guides and agate fly tips, closely wrapped with green silk, finely finished all green, lengths 9 and 9½ ft., in a velvet covered form and canvas bag ..... per dozen $288.00

TROUT BASKETS

Made round willow. Complete with willow hinges and metal lock.

No. 2. Capacity 12 pounds, weight per dozen about 12 pounds .....each, **$3.00**

WOODEN MINNOWS

Made of selected red cedar and ballasted to ride belly down under all conditions. Heavily coated with special elastic, indestructible, waterproof porcelain enamels, and mounted with best quality, bright, nickel plated, ringed spear point treble hooks. Side hooks can be attached and detached instantly by means of the patented nickel plated hook fastener. Highly polished brass nickel plated spinners revolve in opposite directions. Is an underwater bait

HEDDON'S DOWAGIAC MINNOWS

3¼ Inch Body, with Five Treble Hooks

No. 150. Fancy green back, white belly.. .. ..each, **$1.00**
No. 152. White body, slate colored back... .. each, **1.00**
No. 154. Red body, dark green back... . .. .each, **1.00**
No. 159B. Frog colors .. . .each, **1.00**

One in a box, twelve in a carton. Weight per dozen 2 3-4 pounds

FOUR BROTHERS NEVER FAIL MINNOWS

3⅝ Inch Body, with Five Size 1 Ringed Treble Hooks

No. 3173. White enameled belly, blended rainbow back .....each, **$0.75**
No. 3185. White enameled belly, blended green cracked back .....each, **.75**
No. 3193. Yellow perch .. . .each, **.75**

One in a box, twelve in a carton. Weight per dozen 2 3-4 pounds

PFLUEGER BIZ MINNOWS

1½ inch pure soft rubber body, moulded with scales and coated with waterproof material, luminous coated tandem spinner. For day and night fishing.

No. 347L. White belly, blended yellow and green back...each, **$0.60**

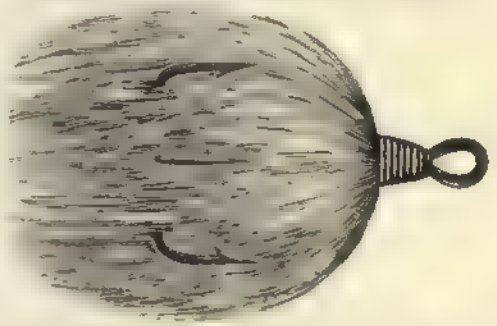
One dozen in a box

FISHING TACKLE ASSORTMENTS

These assortments are put up for the trade desiring goods of superior excellence. All articles are first class and worth the price they are marked.

No. 500. Size of box 10½ x 6½ inches, weight each 3 pounds .....each, **$9.75**
Imperial. Size of box 16¾ x 18½ inches, weight each 6½ pounds .....each, **14.25**
Crescent. Size of box 16¾ x 18½ inches, weight each 3 pounds .....each, **8.25**

BUCKTAIL TREBLE HOOKS



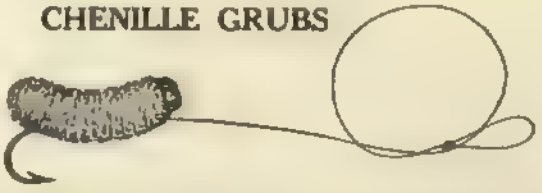
Treble hooks, ringed, tied with genuine bucktail hair, with red ibis center core. Can be used with spoons and baits for casting and trolling.

No. 488. Mixed white and brown hair on Nos. 1 and 2 hooks .....per dozen, **$2.50**

Weight about 1 ounce each

One dozen in a box

CHENILLE GRUBS

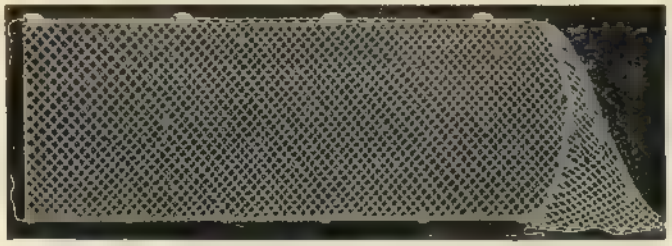


Body made of a light and waterproof core, moulded to retain its shape and wound with white chenille, so that it will not strip or peel off. Tied on hollow point sproat hooks with mist color gut.

No. 447. For trout, size 6 and 8 hooks, weight per dozen about 40 ounces.....per dozen, **$3.00**

One dozen in a box

STANDARD DRAG SEINES



Made of best quality seine twine, complete with sinkers and floats

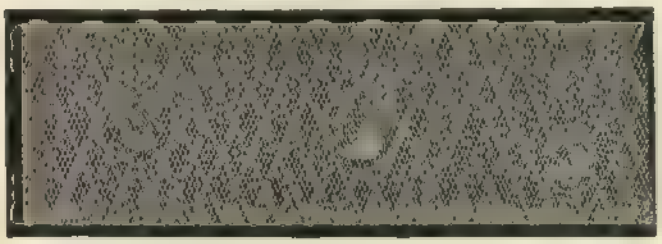
No. 12 Soft Twine

Feet	Each	Each	Each
Size, mesh	1	*1¼	*1½
20 x 4	$4.99	$4.23	$3.68
*30 x 5	8.73	7.33	6.26
*40 x 6	13.40	11.13	9.52
*50 x 6	16.70	13.87	11.83
*50 x 7	18.80	15.51	13.15

No. 16 Soft Twine

Feet	Each	Each	Each
Size, mesh	1	1¼	1½
*20 x 4	$6.31	$5.12	$4.44
*30 x 5	11.19	9.01	7.86
*40 x 6	17.40	13.83	11.85
*50 x 6	21.69	17.23	14.76
*50 x 7	24.62	19.42	16.57

*REGULAR TRAMMEL NETS



Made by hanging a web of fine mesh net loosely between two tightly drawn webs of large mesh netting. All attached to the same top and bottom lines. Fish work against the inside net, which passes through the large mesh and forms a pocket in which fish are caught. Complete with wood floats and lead sinkers

Depth, feet	5	6
Inside mesh, inches	1	1
Outside mesh, inches	8	8
Per yard	$0.95	1.08

MINNOW SEINES

Made of the very best stock. Dark brown color. Woven in ¼ inch mesh, firmly fastened to the top and bottom lines. Complete with wood floats and lead sinkers.

Size, feet	4 x 6	4 x 8	4 x 10
Weight each, pounds	1¾	2	2¼
Each	$1.90	2.75	3.25

LANDING NETS

Rattan Frame, Water Cord Net

Nos.	232	237
For	Trout	Bass
Frame, inches	9 x 7	11 x 8
Handle length, in.	8	15
Weight each, oz.	8	12
Each	$1.25	1.50

*Not carried in stock; will ship from factory.

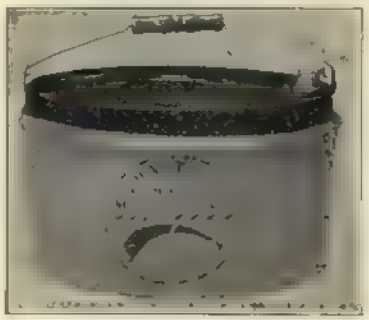
MINNOW TRAPS

Made of small mesh wire cloth. Opens in the center. Fish enter at either end. Ends nest for convenience in packing

No. 111. Length 17½ inches, diameter 9 inches, weight each about 1¾ pounds.....each, **$1.50**

Six in a crate

MINNOW PAILS



BANTA

Self-cooling. Made of cloth on rigid frame; oval shape. When cloth is wet, the evaporation cools the water in the pail and prevents minnows from dying, as in warm water. Provided with air pump, to freshen water and prevent it from becoming stale.

No. 20. Capacity 10 quarts, weight about 3 pounds.each. **$3.50**

Open

Folded

DUPLEX FOLDING

Made of heavy canvas, waterproofed; metal parts made of spring steel, rustproofed. Intended for any kind of live bait. Occupies little space when folded, and keeps the water cool and fresh. Air supplied through small eyelets inserted in the top. Recessed top is adapted for holding ice. Water can be changed without injury to the bait.

No. 08. Oval, capacity 8 quarts; size, folded, 12¼ x 5¼ x 2¼ inches; weight about 1¾ pounds.....each, **$3.25**

No. 010. Oval, capacity 10 quarts; size, folded, 12¼ x 6¼ x 2½ inches; weight about 1½ pounds.....each, **3.50**

EMPIRE CITY

Well made, of heavy tin, finished in bronze, with yellow stripes. A very serviceable pail at a moderate price.

No. 173. Capacity 10 quarts, weight about 2 pounds.....each. **$2.25**

HIBBARD, SPENCER, BARTLETT & CO.

THE NEW
HERCULES
SPARK PLUGS

Strictly a Quality Product

[OVER]

HERCULES *Spark Plugs*

MOGUL TYPE

THE new HERCULES MOGUL type of spark plug represents a tremendous advance from an engineering standpoint, and sets a new mark of efficiency in spark plug construction. This type is absolutely adapted to tractor, marine or stationary engine work as well as for the truck and passenger car. Dealer profit margin is ample.

The HERCULES is not new on the market, but is one of the "old line" standards with a reputation for maximum dependability and durability under every condition of service.

7/8-inch S. A. E.

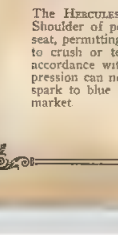
A heavy duty model recommended for Cadillac, Chalmers, Dodge, Hudson (prior to 1921), Hupmobile, Lexington, Packard, Studebaker and others. Also for trucks or tractors using ⅞" thread. Absolutely dependable under the most extreme of operating conditions.

No. 5316. Per box of 10, $12.00

Buick 7/8-inch Extension

This type is a short, stocky model especially designed to fit the Buick motor. Also adapted for use in such cars as the Dodge, Winton, Franklin and trucks, cars or tractors where a slightly increased cylinder projection is desirable or necessary

No. 5317.
Per box of 10, $12.00



7/8-inch Long

This plug carries a long shank or shell to take care of deep-ported cylinders, and is especially desirable in such cars as the Chandler, Oakland, Oldsmobile 6, Premier, Stearns, Willys Knight and others. Also efficient for trucks, tractors or marine service.

No. 5319 Per box of 10, $12.00

Ford—7/8-inch Standard

This plug will be found particularly serviceable in Ford car, truck or tractor, both porcelain breakage and fouling having been practically eliminated. Base of plug is baffled to hold back oil and prevent compression pound against insulator. Also recommended for Overland, old Studebaker and other motors using ⅞" standard thread.

No. 5315. Per box of 10, $12.00

⅞-inch Extension

For Reo and many types of tractor. The slight extension will give added power and efficiency in Ford car. Particularly recommended for Fordson tractor

No. 5314. Per box of 10, $12.00

Metric

Built to standard metric specifications and especially designed to take care of Essex, Hudson, old Packard, Pierce and of foreign-built cars. May also be used in motorcycle calling for metric thread. The most efficient plug built for high speed and high compression motors.

No. 5313
Per box of 10, $12.00

Porcelains

Insulators are of maximum size with extra heavy shoulder lathe turned to perfect accuracy with heavy glaze. Special design of gland and gasket seat protect insulator from heat and absolutely eliminate compression leakage or breaks due to compression pound, even under most extreme conditions. Highest tensile and dielectric strength known in any insulator. Heat and break proof. One size interchangeable in all models

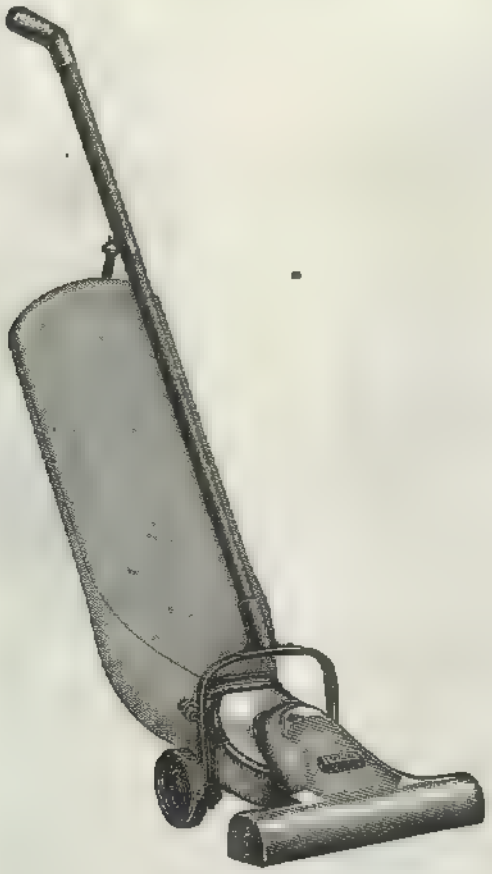
No. 5318. Per box of 10, $6.00

SPECIAL FEATURES

The HERCULES MOGUL is greatly reduced in size and weight but retains maximum strength and durability. Shoulder of porcelain is greatly enlarged and soft copper gasket provided with improved type of spring gland seat, permitting flexibility against expansion and contraction. Absolutely leak proof compression seat—impossible to crush or tear compression gasket by tightening gland or lock nut—base of plug baffled or choked bore in accordance with latest airplane practice to hold back oil and carbon, keeping base of plug entirely clean. Compression can not pound against insulator in base of plug. Electrodes swedged to knife edge, which concentrates spark to blue flame, burning away soot or carbon. The most highly efficient plug for universal service on the market

Shipping weight approximately three pounds per package of ten.

HIBBARD EVER-READY NON-ELECTRIC VACUUM CLEANERS



The new Hibbard Ever-Ready affords a new method of vacuum cleaning, it is what its name implies—always ready—just carry or roll it to the rug and begin. The job can be finished while the average woman is getting ready to start. With the Hibbard Ever-Ready it is so easy and practical to vacuum clean every day that every woman who owns one will forget about the untidy, dust-raising broom and carpet sweeper. She will keep her rugs 100% vacuum cleaned which is a big advantage from view point of clean floors and sanitation.

For homes that are not wired, there is nothing else available and they are fortunate as Hibbard Ever-Ready gives them the best and most efficient service money can buy at any price. Because the Ever-Ready is always ready it is a logical seller in the home that is wired.

Many users of high priced electric vacuum cleaners have discarded them for the Ever-Ready Non-Electric Vacuum Cleaner—no complicated mechanism, no wires, no cost for current or installation. The first is the only cost.

The drive mechanism consists of non-gran bronze worm gear, with quick releasing, instant gripping clutch—case hardened.

Worm cut shaft of hardened special steel—ball bearings. The gears run in oil, gear box containing enough lubricant to last for three years of ordinary use. The body of cleaner is one-piece aluminum casting. Bag is made from chemically treated special fabric, designed to afford maximum filtering capacity. Brush specially made for this machine with soft bristles.

The mechanism is simple, sturdy and the materials high grade, the Hibbard Ever-Ready will last for many years. The cleaner carries the one year guarantee which is standard in all vacuum cleaner lines.

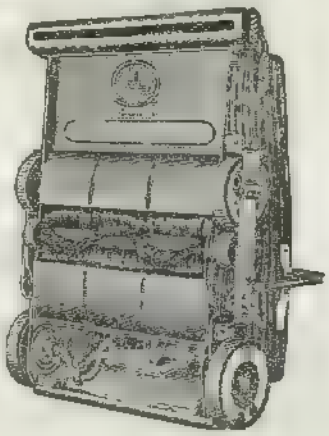
A very complete instruction card comes with each cleaner. W't each 7½ lbs.

No. E66—Full quarter dozen lots ..... each $39.00
No. 66—Less than quarter dozen lots ..... each 39.00

ONE IN A CARTON: THREE IN A CASE

COMBINATION VACUUM CLEANERS

REVONOC



It has the exclusive automatic brush adjustment for carpets and rugs of all length of nap, and the famous fibre roller nozzle support for utmost ease of operation. No lifting onto rugs and over thresholds, no scratching of the finest floors.

This model is of all-steel construction, and is the finest of the hand-power vacuum sweepers.

Built for service; equipped with light running ball bearings. Only six inches high; the design is patented. It goes under things and sweeps a path twelve inches wide. Triplet bellows for steady, strong suction, and nine-inch sweeping brush of real hair bristles.

All-steel seamless, no warp, non-leak, vacuum box. Dust-proof, wide mouth dust bag built on strong steel frame, with heavy rubber gasket, easy to clean.

Original special hinged dust nozzle is easily detached. Simple action nozzle clamp, and pressed steel plated nozzle shoe, with braided pad safety cushion, reinforced at corners with molded rubber bumpers.

The extra wide and deep dust pans, operate in unison. Finished in the finest permanent mahogany enamel, with all exposed parts heavily nickled. Heavy rubber tires on flanged wheels. Cannot come off. Forty-eight inch hardwood handle. The special knob grip on end makes sweeping easy on your hands.

No. E200—Length 17 in., w't each 18 lbs. ....each $11.00

CRUSO

A wonder of simplicity, only twelve working parts. It also has front fibre roller support for perfect dust nozzle adjustment and light running. This exclusive feature prevents scratching of the floor, and lifting on and off rugs is unnecessary.

The seamless steel vacuum chamber and the powerful triplet bellows give a suction pull that can't be beat for volume and constancy.

The 9-inch brush is real bristle and correctly designed for the most effective work. It can easily be taken out for cleaning, and as easily replaced.

The nozzel drops when the bail is lifted, and the dust sack is handy for removal and cleaning. It can be replaced without fuss, and the nozzle swings back into place under bail. Lift one lever to dump both dust pans.

The nozzle shoe is of nickeled steel and hard to dent. Over the front of the nozzle a substantial braid acts as a cushion when furniture is bumped.

The bearings are of the steel ball type.

Only six inches high and goes under all modern furniture.

Finished in mahogany and the exposed metal parts are nicely nickeled.—48-inch hardwood handle. The special knob grip on end makes sweeping easy on your hands.

Heavy rubber tires set in flanges of steel. Cannot come off and easy to replace.

No. E150—Length 17 in., w't each 17 lbs. ....each $10.00

For Electric Vacuum Cleaners see page 2547.

MILBRADT ROLLING STORE LADDERS

Showing No. 1 bent ladder, which runs on a track fastened to shelving near the top and runs close to wide base shelf.

The Milbradt Rolling Stepladders are all made to order, and to fit each particular place, of good oak lumber, in the most artistic and neatest style, handsomely finished, are durable and perfectly safe, as they cannot jump the track. They take up the least possible space, run noiselessly and so easily, either empty or with operator upon them, that a slight push will propel a ladder the length of an ordinary store. These ladders have an extra wide shelf at the top, which affords great convenience in handling stock. All iron work on ladders, as well as the brackets to hold up steel track, is malleable, artistic and strong and aluminum finished.

No. F1—Suitable fixtures at the top to run on steel track and rubber covered rollers attached near the lower end to run against the edge of base shelf. Best for all around purposes where shelving is reasonably strong. With fixtures★ .....each $36.00

No. F2—For shelving that is not strongly built. Most of the weight of ladder and operator rests on the floor. Runs on a hardwood track at the top and has cushion tired wheels to run on the floor. No track required. Wit fixtures★ ....each $36.00

No. F10—Bent ladder that runs on a flat hard wood track screwed on top of original low shelving. When top of shelving is reasonably strong this is the most convenient way to apply a ladder to this style of shelving. Wit fixtures★ .....each $36.00

No. F15—Trolley or ceiling ladder that suspends from a track fastened to ceiling. Has at the top, suitable iron in which paper filled wheels run noiselessly on the steel track and also has cushion tired wheels that run on the floor. Very strongly built and specially adapted for hardware stores or any place of business where heavy goods are handled. With fixtures, each★ $38.00

Showing No. 2 bent ladder, which runs on floor.

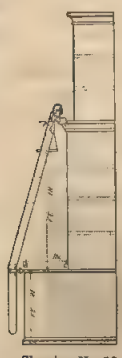
Approximate W't Ladder Crated 50 Lbs.

No, F11—Steel Track—For No. 1, regular strength★ per ft. $0.70
No, F150—Steel Track—For No. 15★ .....per ft. .70

Approximate W't Steel Track 1 lb. per Foot.

No, F20—Hardwood Track—For No. 2, complete★ per ft. $0.50
No, F200—Hardwood Track—For No. 10, complete★ per ft. .50

Approximate W't Steel Track 1 lb. Per Foot.



Showing No. 10 bent ladder, which runs on track screwed on top of original low shelving.

HOW TO ORDER

Ladders as Nos. 1 and 2 give the exact height from floor to top of base shelf; the exact width or projection of base shelf and then the exact height from top of base shelf to top of shelf to which track is to be fastened and the track shell be fastened to a shelf that is about 3 feet from the top.

Steel track for ladders No. 1, both regular and extra strong, is 1 inch in diameter and therefore does not block up any space when fastened up opposite the edge of shelf. When ordering steel track give the total length of each line of shelving; second, give distance from center to center of uprights and state how many brackets are required to hold up the steel track. For regular steel track the brackets cannot be more than 4 ft. apart. When the uprights to which brackets are to be fastened are more than 4 ft. apart, it is necessaary to use extra strong steel track.

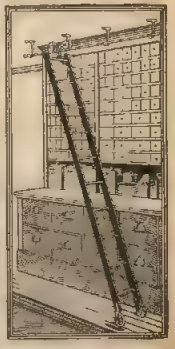
Ladder No. 10, give the exact height from floor to top of base; the width or projection of base and then the exact height from base to the top of shelving or cornice on top of which track is to be fastened. Also state how much the cornice or moulding on top of which track is to be fastened, projects out over lower part of shelving.

Trolley ladder No. 15, is only necessary to give the exact height from floor to ceiling and the exact length of each line of track wanted.

To order wood track for ladders Nos. 2 and 10, it is only necessary to state the number of feet required.

For further information write for special Rolling Ladder Catalogue.

★ **Items Marked Thus ★ Are Shipped From Factory Only.**



Showing No. 15 trolley or ceiling ladder, which suspends from a track fastened to celing.

MILBRADT ROLLING STORE LADDERS

Showing No. 1 bent ladder, which runs on a track fastened to shelving near the top and runs close to wide base shelf.

The Milbradt Rolling Stepladders are all made to order, and to fit each particular place, of good oak lumber, in the most artistic and neatest style, handsomely finished, are durable and perfectly safe, as they cannot jump the track. They take up the least possible space, run noiselessly and so easily, either empty or with operator upon them, that a slight push will propel a ladder the length of an ordinary store. These ladders have an extra wide shelf at the top, which affords great convenience in handling stock. All iron work on ladders, as well as the brackets to hold up steel track, is malleable, artistic and strong and aluminum finished.

No. F1—Suitable fixtures at the top to run on steel track and rubber covered rollers attached near the lower end to run against the edge of base shelf. Best for all around purposes where shelving is reasonably strong. With fixtures★ .....each $36.00

No. F2—For shelving that is not strongly built. Most of the weight of ladder and operator rests on the floor. Runs on a hardwood track at the top and has cushion tired wheels to run on the floor. No track required. Wit fixtures★ ....each $36.00

No. F10—Bent ladder that runs on a flat hard wood track screwed on top of original low shelving. When top of shelving is reasonably strong this is the most convenient way to apply a ladder to this style of shelving. Wit fixtures★ .....each $36.00

No. F15—Trolley or ceiling ladder that suspends from a track fastened to ceiling. Has at the top, suitable iron in which paper filled wheels run noiselessly on the steel track and also has cushion tired wheels that run on the floor. Very strongly built and specially adapted for hardware stores or any place of business where heavy goods are handled. With fixtures, each★ $38.00

Showing No. 2 bent ladder, which runs on floor.

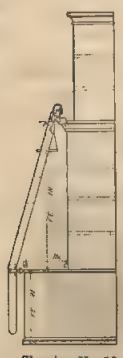
Approximate W't Ladder Crated 50 Lbs.

No, F11—Steel Track—For No. 1, regular strength★ per ft. $0.70
No, F150—Steel Track—For No. 15★ .....per ft. .70

Approximate W't Steel Track 1 lb. per Foot.

No, F20—Hardwood Track—For No. 2, complete★ per ft. $0.50
No, F200—Hardwood Track—For No. 10, complete★ per ft. .50

Approximate W't Steel Track 1 lb. Per Foot.



Showing No. 10 bent ladder, which runs on track screwed on top of original low shelving.

HOW TO ORDER

Ladders as Nos. 1 and 2 give the exact height from floor to top of base shelf; the exact width or projection of base shelf and then the exact height from top of base shelf to top of shelf to which track is to be fastened and the track shell be fastened to a shelf that is about 3 feet from the top.

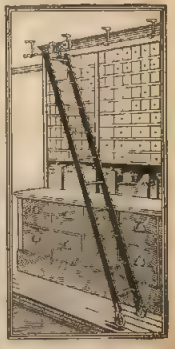
Steel track for ladders No. 1, both regular and extra strong, is 1 inch in diameter and therefore does not block up any space when fastened up opposite the edge of shelf. When ordering steel track give the total length of each line of shelving; second, give distance from center to center of uprights and state how many brackets are required to hold up the steel track. For regular steel track the brackets cannot be more than 4 ft. apart. When the uprights to which brackets are to be fastened are more than 4 ft. apart, it is necessaary to use extra strong steel track.

Ladder No. 10, give the exact height from floor to top of base; the width or projection of base and then the exact height from base to the top of shelving or cornice on top of which track is to be fastened. Also state how much the cornice or moulding on top of which track is to be fastened, projects out over lower part of shelving.

Trolley ladder No. 15, is only necessary to give the exact height from floor to ceiling and the exact length of each line of track wanted.

To order wood track for ladders Nos. 2 and 10, it is only necessary to state the number of feet required.

For further information write for special Rolling Ladder Catalogue.



Showing No. 15 trolley or ceiling ladder, which suspends from a track fastened to celing.

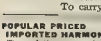
★ **Items Marked Thus ★ Are Shipped From Factory Only.**

HARMONICAS & ACCORDIONS

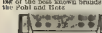
Every person that comes into your store — whether child or grownup — is a prospective customer for these high grade well known imported harmonicas. And they are packed in mighty attractive boxes. To carry a complete line of Hohner, Pohl and Hotz goods is to give the best values to be had anywhere.

POPULAR PRICED IMPORTED HARMONICAS

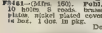
The market's most complete showing of the best known brands such as the Pohl and Hotz



F8461—(Mfrs. 1695) Pohl, 4 in. 10 holes 8 reeds, brassed zinc plates, nickel plated covers, each in box. 1 doz. in pkg. Des. **42c**



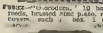
F8462—Pohl, 4¼ in. 10 holes, 8 reeds, brassed zinc plates, copper nickel plated covers, open back, each in box. 1 doz. in pkg. Des. **42c**



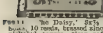
F8932—"Concordia," 10 hawes 10 reeds, brassed zinc plate, nickeled covers, each in box. 1 doz. in pkg. Des. **72c**

F8931—"So Daisy," 10½ in. 10 holes, 10 reeds, brassed zinc plates, nickeled covers, clear cut top. 1 doz. in carton Des. **80c**

F8460—(Mfrs. 1632) Pohl, 12¼ in. 20 hawes, 20 reeds, brassed zinc plates, nickeled brassed covers, each in box. 1 doz. in pkg. Des. **84c**



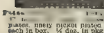
F8464—"Pohl's Favorite," 12¼ in. 20 hawes, 20 reeds, brassed zinc plates, nickel covers, each in box. ½ doz. in pkg. Des. **$1.20**



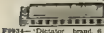
F8934—"Dictator" brand, 8 styles, 10 holes, 20 reeds, zinc plates, nickeled covers, clear cut top, each in box. 1 doz. in pkg. Des. **$1.28**

F8468—(Mfrs. 60) Hotz "Blue Ribbon," 6¼ in., 10 holes, 20 reeds, brassed plates, nickel plated covers, ½ doz. in carton Des. **$1.80**

F8466—"Ace," 6¼ in., 10 holes, 20 reeds, brassed plates, double frames, each in box. Des. **$1.75**



F8470—(Mfrs. 68) Hotz "Victor," 6¼ in., 10 double holes, 20 reeds, orchestral tuning, nickeled plates, brass covers, each in box. Des. **$1.80**



F8471—(Mfrs. 1890½) "Hotz Special," 6¼ in., 10 double holes, 20 reeds, orchestral tuning, nickeled plates, brass covers, each in box. Des. **$3.75**

M. HOHNER'S HARMONICAS

All have brass plates and nickel plated covers. NOTE—In comparing prices on Hohner goods note that we allow 3% 10 days terms apply. This discount is for cash with order. Hohner goods are the finest on the market and has given absolute satisfaction for the past sixty-four years, and is guaranteed perfect in tone and construction

F8445—(Mfrs. 605) 6¼ in., 10 double holes, 20 reeds, ½ doz. in box Des. **$4.00**

F8450—(Mfrs. 34) "New Best," 6¼ in., 10 holes, 20 reeds, ½ doz. in pkg. Des. **$4.00**

F8447 — (Mfrs. 125) "Hohner Band," 6¼ in., 10 holes, 20 reeds, ½ doz. in box. . . Des. **$4.25**

F8451 — (Mfrs. 1896) "Marine Band," 6¼ in., 10 holes, 20 reeds, ½ doz. in pkg. Des. **$4.80**

F8465—(Mfrs. 606) "Echo," 6¼ in., fine tremolo, 10 double holes, 20 reeds, plated cover, tuning bolt and nut, ½ doz. in pkg. Des. **$6.00**

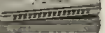
F8448 — (Mfrs. 150) "Marine Band," 6¼ in., 10 double holes, 20 reeds, ½ doz. in pkg. Des. **$6.00**

F8449 — (Mfrs. 151) "Marine Band" tremolo, 6¼ in., 10 double holes, 40 reeds, ½ doz. in pkg. Des. **$8.00**

F8452 — (Mfrs. 1890½) "Special," 6¼x1¼ in., 10 double holes, 20 reeds, ½ doz. in pkg. Des. **$7.80**

F8453 — (Mfrs. 1890½) "Special," 6¼x1¼ in., 10 double holes, 20 reeds, ½ doz. in pkg. Des. **$8.00**

F8444 — (Mfrs. No. 258) "Sportsman," 6¼x1¼ in., 10 double holes, 20 reeds, fine tremolo tone, ½ doz. in pkg. Des. **$4.00**



F8454—(Mfrs. 1890 Conn.) "Marine Band," 6¼x1¼ in., Full concert, 10 double holes, 20 reeds, ½ doz. in pkg. Des. **$10.00**

F8443—(Mfrs. 600) "Echo," 6¼x1¼ in., 10 double holes, 40 reeds, ½ doz. in pkg. Des. **$10.00**

F8446 — (Mfrs. 600) "Echo," 6¼x1¼ in., 10 double holes, 40 reeds, ½ doz. in pkg. Des. **$12.00**

F8467 — (Mfrs. 125-8) "Marine Orchestra," 6¼x1¼ in., 10 double holes, 20 reeds, 8 bells, different tone, ½ doz. in pkg. Des. **$12.00**

F8455—(Mfrs. 150) "The Goliath," 9¼x1¼ in., 20 double holes, 40 reeds, ½ doz. in Des. **$15.00**

F8456 — (Mfrs. 40x5) Three rows of 10 double holes, 60 reeds, ½ doz. in wood covered case, in pkg. Des. **$18.00**

M. Hohner Organette or Blow Accordion

F8495—(Mfrs. 143). Length 15 in. Has 10 brilliant chromatic keys, all fine reed tones, double bellows. Each **$1.50**

M. HOHNER HARMONICA ASSORTMENTS

F8436—(Mfrs. 410) 3 styles, a full 1 doz. genuine Hohner harmonicas in . . . . . Retail at ten cents each. Total value in fact is . . . . . Des. **$4.10**

4 styles, 3 each 3-5/16x1¾, 4¾x1¼ and 6¾x1¼, on 10x21 lithoprint stand. 5 doz. in case.

F8458—(Mfrs. 633). Retail at 10c. each . . . . . Des. **$4.50**

F8459—(Mfrs. 634). Retail at $1.00 each. . . . . Des. **$8.50**

F8476—(Mfrs. 600) Stand 3in. 30¼ in. square at base . . . . . 5 doz. Harmonicas 4 styles . . . . . Total retail value . . . . . 634 in case. 36 harmonicas in each stand . . . . . Des. **$26.50**

F8437 — (Mfrs. 400) Collapsible display cabinet, comprises three wooden trays, finished in rich mahogany, which open displays harmonicas at one time.

Assorted as follows:

	Total.
16 to retail at 10 50	$ 8.00
6 " " 50	3.00
6 " " 1 00	6.00
30 " " 1 00	30.00
Total Retail Value.	$ 47

Assrd 38 in display cabinet. Asstr (35 pcs.) **$16.00**

GENUINE M. HOHNER ACCORDIONS

Nickel corner protectors, patent self-acting spring clasps, finely polished corner fittings. These accordions enjoy a world wide reputation and are absolutely guaranteed to be perfect in tone and construction.

F8491—Mfrs. 2721. 51x10¼ in., 3 rows of keys, 31 keys and key board, 4 panels, double bellows, 2 sets of reeds, 2 bass, 2 sets of reeds, stops. 2 in box . . . Each, **$4.50**

F8492—Mfrs. 2905. 64x12 in., polished rosewood frames (8 bass, 3 treble in treble), 4 rows of keys, 41 keys and key board, 4 panels, double bellows, 2 sets of reeds, 2 bass, 2 sets of reeds, stops. 1 in box Each **$6.25**

F8493—(Mfrs. 813). 51x10 in., highly polished rosewood frames and key board, imitation mother of pearl handle, finest decoration and top panel, double bellows, 10 bass, 3 treble in treble, 4 rows of reeds, 2 metal stops. 1 in box . . . Each **$8.25**

F8494—Mfrs. 2906. 64x12 in., highly polished rosewood frames, 41 keys and key board, 4 panels, double bellows, 10 bass, 3 treble in treble, 4 rows of reeds, 2 metal stops, 2 bass, 2 sets of reeds, stops. 1 in box . . . Each **$7.25**

HOTZ "HAPPY DAYS" ASSORTMENT

Harmonicas to retail at 25c. 10 attractive display cards

F8475—(Mfrs. 1) . . . . . Des. **$1.75**

Hohner, Pohl and Hotz Harmonicas

Hohner Assortment

Per asst.

C410 HOHNER ASSORTMENT DISPLAY—In a double tier folding display printed in 4 colors, picturing two boys playing Hohner Harmonicas. Contains 1 dozen assorted as follows. 24B, 98B, 12L. All keys to retail at 50c.. 8.00

Hohner Assortment

Each

C1—HOHNER ASSORTMENT—Consists of 12 Genuine Hohner Harmonicas in 4 different styles. Assorted keys to retail at 50c. Packed in handsome flat display cartons 3 32

"Hohner Boy" Assortment

Per asst.

C425—THE "HOHNER BOY" ASSORTMENT Consists of a beautiful and elaborate show card printed in five colors, measuring 21 inches high and 15 inches wide at the base with 1 dozen genuine Hohner Harmonicas attached. The stand is made of heavy cardboard and is supported with a patented easel on the back. One dozen genuine Hohner Harmonicas assorted in different styles in a variety of seven keys 9.32

C450—HOHNER BOY ASSORTMENT—Consists of a dozen genuine Hohner Harmonicas, assorted to different styles with a variety of seven keys, the show card is identical with the one that accompanies C425, but showing the price 75 cents..... 6 65

Hohner Assortment

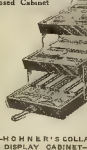
Per asst. each asst.

C600—HOHNER'S REVOLVING DISPLAY HARMONICA STAND. Finished in dark mahogany, highly polished. On a spring movement easier with sufficient strength to revolve 2½ hours. Height 22 inches. 19½ inches wide, cost 62 26

You Receive

12	assorted Harmonicas, retail	90
2	assorted Hare ocleca, retail	50
4	assorted Harmon ica, retail	75
3	assorted Harmonicas, retail	1 00
2	assorted Harmonicas, retail	1 50
4	assorted Harmonicas, retail	2 00
2	assorted Harmonicas, retail	2 50

Hohner's Display Assortment



Closed Cabinet

Open Cabinet

Per asst.

C400—HOHNER'S COLLAPSIBLE DISPLAY CABINET—Consists of 3 trays. Cabinet elaborately finished in rich dark mahogany finely polished. Attractive gold lettering on the top handle. Contains specially selected assortment of 36 pieces.. 35 66

You Receive

16	pieces, retail at	60
6	pieces, retail at	90
6	pieces, retail at	1 60
10	pieces, retail at	2 50

Pohl Harmonicas

Per doz.

C160—A good-looking toy Harmonica in Rubber model, measuring 4 inches in length. Finely nickel-plated covers with fancy impressions, extension ends, 8 reeds, 10 holes, colored frame. Each instrument in neat box with label in colors .. .. .. .80

POHL HARMONICAS—Continued

Per doz.

C165—A Harmonica of very attractive appearance that may be used for practical purposes. It measures 4½ inches in length. Finely nickel plated covers, turned in ends, open back, 8 metal plates, 10 accurately tuned reeds, 24 holes, colored frame. Each instrument in neat individual cone container with label in covers 1 04

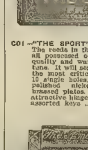
Per doz.

C167—A very handsome large sized Harmonica measuring 6 inches in length, which may be vaguely called one of the parlor omnibus. Finely nickel plated covers, turned in ends, open back, oblonized frame, 2 metal plates, 12 accurately tuned reeds, 32 holes. Each instrument in fine telescope container with label in colors 2 50

Hotz Harmonicas

Per doz.

C60—THE "BLUE RIBBON" HARMONICA—This Harmonica is produced by the well known Pr Hotz factory and is unsurpassed perfect in tone, every ounce being of uniform quality. It has 12 single holes, 20 reeds, highly polished nickel plated covers, brassed plates. Furnished in telescope box, assorted keys..... 3 36



Per doz.

C61—"THE SPORT" HARMONICA—The reeds in this instrument are all possessed of very responsive quality and warranted perfect in tune. It will serve the purposes of the most critical player. It has 10 single holes, 20 reeds, highly polished nickel-plated covers, brassed plates. Furnished in an attractive hinged pasteboard box, assorted keys 3.74

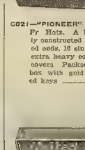
Per doz.

C62—THE "AMERICAN ACE" HOTZ HARMONICA—A very popular name and a mighty fine instrument. It is perfect in tone and construction. It has 20 reeds, 10 holes, heavy covers finely nickel-plated, brassed plates. Each instrument is packed in a durable telescope box having fancy silver lettering, assorted keys 3.02

HOTZ HARMONICAS—Cont'd

Per doz.

C64—"EXCELSIOR" HOTZ HARMONICA—A finely constructed Harmonica having 10 double holes, 20 accurately tuned reeds. Frame of mahogany finish highly nickel-plated covers, turned in ends. Really exceptional value. Contained in telescope box with label assorted keys.. .. .. 3.82



Per doz.

C621—"PIONEER" Manufactured by Pr Hotz. A heavy and durably constructed Harmonica. Curved ends, 10 single holes, 20 reeds, extra heavy cover nickel-plated covers. Packed in an attractive box with gold lettering assorted keys 4 16

Per doz.

C63—"UNITED SERVICE" HARMONICA—This Harmonica is sure to satisfy the player with discriminating taste, it being unsurpassed in tone and quality. It is full concert size (4¾ inches) 10 double holes, 20 reeds with heavy covers nickel-plated covers, brassed plates. A very attractive hinged pasteboard box having gilt lettering accompanies each instrument, assorted keys.. 7 84

Hotz Assortment

Each

C612—"HAPPY DAYS" ASSORTMENT—In this offer, the realistic box an assortment of Hotz Harmonicas in a counter display, lithographed in four colors, that has real selling merit, it contains 12 Harmonicas (Nos. 61 and 62) each having 10 single holes, 20 reeds, brassed plates, nickel-plated covers, warranted to be of first-class quality. At the price offered, this assortment has no equal 3.44

A LARGE SELECTION OF IMPORTED HARMONICAS

Per doz.
C349—THE OLD STANDBY—18 single holes, 20 reeds, brass plates, nickel covers, in neat hinged box, assorted keys..... 7.84

Per doz.
C606/32—"ECHO"—Genuine Hohner Harmonica. A very low tremolo instrument having 32 double holes, 32 reeds, nickel plated metal covers, ends turned in coils. Packed in fancy hinged box with appropriate design in six different colors 11 76

Per doz.
C1895/40—CONCERT—The Marine Band, 40 double holes, 40 reels, brass plates, heavy nickel-plated covers, tremolo attachment, in neat red hinged box with engraved steel plate on cover 19 50

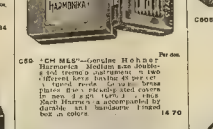
Per doz.
C182—GENUINE HOHNER HARMONICA—48 single reed, 20 double holes, 40 reeds, brass plates, fancy nickel-plated corner, mahogany frame, gold decorations, packed in beautifully decorated case 19.60

Per doz.
C809—THE OLD FAVORITE—10 double holes, 20 reeds, brass plates, nickel covers, in fine boxes with hinged cover, assorted keys. ... 7.84

Per doz.
C606/64—"ECHO"—Genuine Hohner Harmonica. Large double-sided tremolo instrument in two different keys, having 64 perfectly tuned reeds. Genuine brass plates, finely nickel-plated covers with turned ends inlaid in a beautiful pearl design with pictorial design in many colors 19.60

Each
C46½—"UP TO DATE"—Genuine Hohner Harmonica. An elaborate double sided instrument representing the very finest in harmonica construction, 32 double holes, 64 reeds, brass plates, nickel-plated covers. Fancy silver stamped extension ends with frame in mahogany finish. Each harmonica contained in perfect box, in the form of a wooden case with silver lettering and looks accompanies each instrument 2 04

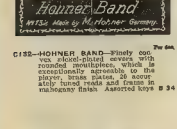
Per doz.
C132—HOHNER BAND—Finely covered with nickel-plated covers with rounded mouthpiece, which is exceptionally agreeable to the player, brass plates, 10 double holes, 20 reeds, and framed in mahogany finish Assorted keys 8 34



Per doz.
C1896½—UP TO DATE—16 double holes, 32 reeds, brass covers, covers shaped, nickel plated, concert size, in fine silk lined leatherette case, with lock and gold lettering assorted keys 14 70

Per doz.
C3101—"HARMONETTE"—Genuine Hohner Harmonica. A musical toy novel and practical instrumental comprising a Harmonica with 14 double holes, 28 accurately tuned tremolo reeds, brass plates, finely nickel plated covers. To the Harmonica is attached a small enamel resonator or sound box of thoroughly seasoned wood, bearing gold ingestations. Reinforced with metal back, finely nickel-plated Length 4¾ inches. Packed in a durable telescope container with silver lettering 23.52

Each
C47½—"UP TO DATE"—Genuine Hohner Harmonica. This harmonica is made up of 64 reeds, each has 16 double holes and 32 reeds. Length 5¾ inches 3 44



Per doz.
C153—"NEW ECHO"—Genuine Hohner Harmonica having 14 double holes, 28 reeds, mounted on brass plates, and of octave tremolo tuning. Nickel-plated covers with artistic designing. Length of instrument 5¼ inches in length and is packed in an exceptionally strong telescope box adorned with silver pressings 8 34

Per doz.
C254—"SPORTSMAN"—Genuine Hohner Harmonica, 16 double holes, 32 reeds, brass plates heavy nickel-plated covers, tremolo tune, extension ends. A very fine instrument, exceptionally lasting in tone and durability. Encased by a handsome hinged box with cover printed in artistic design of many colors 15 68

Per doz.
C3310—ECHOPHONE—Shape of a curtain shell, is pearl metal or brass, with engraving and lettering with 13 double reeds brass plates Each in box 23 52

Each
C48½—"UP TO DATE"—Genuine Hohner Harmonica. This harmonica is made up like C48½ each has 16 double holes and 32 reeds. Length 5 inches 3.92

Per doz.
C1895—THE MARINE BAND—10 single holes, 20 reeds, brass plates, heavy covers, brass corners, open back, finely nickel plated, in fine hinged box, assorted keys 8 82

Per doz.
C3CND—FULL CONCERT Hohner Harmonica. The recognized standard the world over. Ten double holes, 40 reeds, brass plates, heavy nickel-plated with turned in ends. Packed in a strong hinged box assorted keys 18 68

Per doz.
C485—"THE GOLIATH"—Genuine Hohner Harmonica. This is a very beautiful, large size tremolo harmonica measuring 7¾ inches in length 24 double holes, 48 reels, brass plates. Heavy nickel covers nickel-plated with turned ends. A splendid instrument for concert playing as it has an exceptionally high range. Each instrument is packed in a heavy wooden case covered in imitation leather cloth, assorted keys 29 40

Blow Accordion

Each
C145—"ORGANETTE" or BLOW-ACCORDION A product of the M. Hohner factory A novel and attractive musical instrument, which, when played, affords much pleasure and is a wholesome entertainment. The body of the "Organette" is constructed of a durable composition material, finished in imitation ebony. It has 16 keys, 8 bass keys, as shown, reaches 2½ octaves, producing chord bell harmony in two keys. Instruments packed in neat and durable carton 2 94

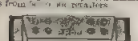
HARMONICAS & ACCORDIONS

The prices on these well known mouth organs tell the whole story. They are not equaled anywhere nor will you find so varied and complete a stock anywhere else.

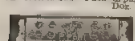
POPULAR PRICED IMPORTED HARMONICAS

The market's most complete showing of the best known brands such as the Pohl and Hohz.

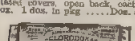
Popular priced imported harmonicas from [illegible] reputation



F8404 Mfrs. [illegible] reeds 4 in nickel plated covers, 10 holes, 8 reeds each in box 1 doz. in pkg. Doz. 42c

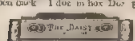


F8405—(Mfrs. 181). Pohl, 4¾ in. 8 reeds 10 holes, covers nickel plated covers, open back, each in box. 1 doz. in pkg Doz. 45c



F8832— [illegible] 10 holes, 10 reeds [illegible] covers, each in box. 1 doz. in carton Doz. 80c

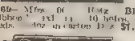
F8465 Mfrs. Pohl Tone Harp, in. 24 holes, 8 reeds, nickeled frame, [illegible] covers, open back. 1 doz. in box Doz. 84c



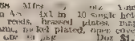
F8933 The Derby 3¾ in. 10 holes, 10 reeds, [illegible] plated, nickeled covers, clear soft tone. 1 doz. in carton Doz. 90c

F8466— Mfrs. [illegible] Pohl, 5 in. nickel plated covers, 2 rows, 10 reeds. Each in box [illegible] pkg Doz. $1.20

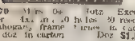
F8469— Mfrs. [illegible] Hohz Blue Ribbon 4¼ in. 10 holes, 20 reeds. [illegible] in carton Doz. $1.50



F8858 Mfrs. [illegible] Vanadium Alloy 4¼ in. 10 single holes, 20 reeds, brassed plates, maple frame, nickel plated, open covers. ½ doz. in pkg Doz. $1.75



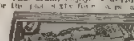
F8479 Mfrs. [illegible] Hohz Excelsior 4¼ in. 20 holes, 20 reeds, mahogany frame, brass plates. ½ doz. in carton Doz. $1.80



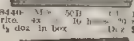
F8471 Mfrs. [illegible] Hohz Special Service 4¼ in. 10 holes, 20 reeds [illegible] doz. in carton Doz. $3.75

M. HOHNER'S HARMONICAS

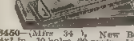
This brand enjoys a world wide reputation for the [illegible] and is guaranteed flawless as to tone and construction. Has been on the market not. Has given absolute satisfaction



F8440 Mfrs. 501 [illegible] reeds, 48 holes, 20 reeds, ½ doz. in box Doz. $4.00



F8450—(Mfrs. 54 ½ "New Best," 4¼ in., 10 holes, 20 reeds, in pkg. Doz. $4.00

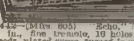


F8441 [illegible] Band, 3¾ in. 10 holes, 20 reeds, ½ doz. in box Doz. $4.25

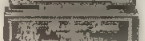
F8451 [illegible] Band, [illegible] reeds, [illegible] Doz. $4.50

F8442—(Mfrs. 603) "Echo," 4¼ in., fine tremolo, 10 holes, 20 reeds, plated cover, tuned in reeds. ½ doz. in box Doz. $6.00

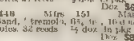
F8445 — Mfrs. 100 Marine Band, tremolo, 4¼ in. 10 holes, 20 reeds [illegible] Doz. $6.00



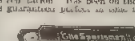
F8448 Mfrs. 151 Marine Band, tremolo, 4¼ in., 10 holes, 40 reeds ½ doz. in pkg. Doz. $8.00



F8452 Mfrs. 1896 Up-to-Date 4 in. 20 holes, 20 reeds. [illegible] Doz. $7.50



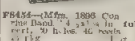
F8443 Mfrs. [illegible] Special [illegible] 4¼ in., 10 holes, full concert, 20 reeds, 40 reeds in pkg Doz. $8.00



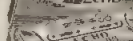
F8444 Mfrs. No. 364 "Sports-man," 4¼ in., 20 holes, 40 reeds, fine tremolo tuning, ½ doz. in box. Doz. $8.00

F8434—(Mfrs. 1896 Concert Band, "Marine Band," 4¼ in., in full concert, 20 holes, 40 reeds [illegible] Doz. $10.00

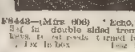
F8443—(Mfrs. 606) "Echo," 5¼ in., 10 double sided tremolo reeds, 10 single reeds, tuned in reeds. [illegible] box Doz. $10.00



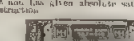
F8446—(Mfrs. 607) "Echo," 5¼ in., 10 double sided tremolo reeds, 10 single reeds, tuned in reeds. [illegible] box Doz. $10.00



F8455 Mfrs. [illegible] [illegible] 4¼ in., 10 holes, 40 reeds, [illegible] Doz. $15.00



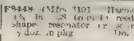
F8456 Mfrs. [illegible] Hohner Band, 10 holes, 40 reeds, [illegible] in. fine reeds, silver nickeled, [illegible] cabinet [illegible] Doz. $18.00



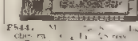
F8449 In [illegible] Marine Band, [illegible] in. 10 holes, 20 reeds, [illegible] reeds, [illegible] ½ doz. in pkg Doz. $12.00

F8448 (Mfrs. 101) Harmonica, [illegible] in., 20 [illegible] reeds, [illegible] shape, [illegible] ½ doz. in pkg Doz. $12.00

F8445 Mfrs. [illegible] Organ, [illegible] in., 10 holes, [illegible] Doz. $ 2.00



F8455 Mfrs. [illegible] [illegible] 4¼ in., 10 holes, 40 reeds, [illegible] Doz. $15.00



F8456 Mfrs. [illegible] Hohner Band, 10 holes, 40 reeds, [illegible] in. fine reeds, silver nickeled, [illegible] cabinet [illegible] Doz. $18.00

M. Hohner Harmonica Assortments

Four big selling sizes attractively arranged for quick selling on fifths display stands.

4 styles, 3 each 4¼x1⅝ 4¼x1⅜, 5¼x1⅝ and 6¼x1⅝ on [illegible] litho refill stand 1 doz. in asst.

F8458—(Mfrs. 426). Retail at $8.00. Doz. **$4.50**

F8459—(Mfrs. 450) Retail at $1.00 each Doz. **$8.50**

M. HOHNER HARMONICA ASSTS.

F8436—(Mfrs. 410) 3 styles, asstd. twelve genuine Hohner harmonicas in three different styles, asstd. keys, in handsome flat display carton. Each [illegible] reeds each Asstd [illegible] Doz. **$4.10**

F8437 Mfrs. 428 Collapsible display cabinet complete three wood & [illegible] display [illegible] when open displays 38 harmonicas of various [illegible] Asstd as follows:

15 to retail at	50	$8.00
8 " "	60	4.80
6 " "	75	4.50
10 " "	1.00	10.00
Total Retail Value		$26.10
Asstd. 38 in display cabinet ASST. (38 pcs.)		**$18.00**

M. HOHNER PYRAMID HARMONICA ASSORTMENT

Most attractive as well as most effective selling idea on the market. All numbers displayed on stand can be replaced from our regular line.

F8438—(Mfrs. 800). 32 in. high, 10¼ in. square at base, 8¼ in. square at top, revolves 9½ hrs. on one winding, mahogany finish, 36 harmonicas in 4 styles 7 different keys, each in attractive box attached to [illegible] by steel clasps. Retail price as shown on stand Asstd. 36 harmonicas as follows

12 to retail at	60c	$6.00
4 " "	60c	2.40
4 " "	75c	3.00
2 " "	$1.00	2.00
2 " "	1.50	3.00
4 " "	2.00	8.00
2 " "	2.50	5.00
To al retail value		$ 4.40
Asst. (37 harmonicas and stand)		**$26.50**

GENUINE M. HOHNER ACCORDIONS

These accordions enjoy a world wide reputation and are absolutely guaranteed to be perfect in tone and construction

F8491—(Mfrs. 573), 5½x10¾ in., highly polished ebonized key board and [illegible] covers, [illegible] bellows with [illegible] protectors [illegible] [illegible] [illegible]

HOLIDAY POST CARDS

Something entirely different—all new and strictly up-to-date. Choicest subjects the market affords; every number carries a nice margin of profit. It will pay well to show a liberal line of these.

THANKSGIVING CARDS
PENNY

R487—Assorted 6 designs; strutting turkeys, floral and fruit clusters, etc.; bright colors; white grounds greetings; 100 in pkge. 100.. .42

R486—Assorted 6 designs; turkeys, fruits, flowers in full colors, nicely tinted; with wishbone decorations; greetings and verse; white grounds; 100 in package. 100..... .45

R489—Assorted 4 designs; landscape and marine panels in colors, floral and fruit cluster decorations; white grounds, greetings and verse; 100 in package. 100..... .55

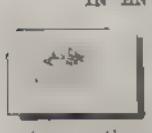
2 for 5 CENT CARDS

R491—Assorted 4 designs; juvenile and harvest landscape panels, in bright colors; fruits, pumpkins cornshocks, etc.; with greetings, white leatherette effect grounds; 50 in package. 100.....1.25

5 CENT POST CARDS

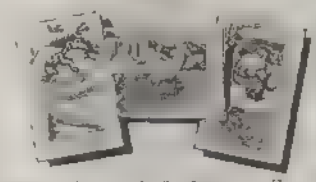
R496—Assorted 12 designs, heavily embossed, air brush finished; strutting turkey gobblers, landscape, fruit and harvest decorations; beautifully colored with bright gold rustic border; pasted fronts; 25 in package. 100.....2.50

5 CENT THANKSGIVING CARDS IN ENVELOPES



R492—Assorted 4 designs; pumpkin and fruit clusters; white grounds, gold edge, greeting verse; each in envelope; 25 in package. 100... 2.50

CHRISTMAS POST CARDS
PENNY

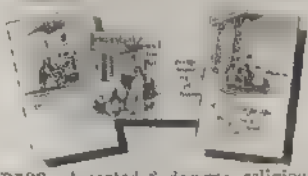


R501—Assorted 6 designs; Santa Claus in various poses; lithographed in bright colors on white grounds; greeting verse; 100 in package 100.. .42

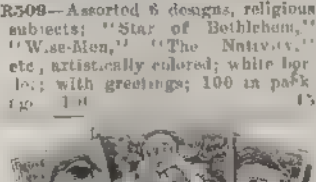
R503—Assorted 6 designs, winter landscapes in bright colors; white [illegible] grounds; greetings and verse; 100 in package. 100 .42

R504—Assorted 6 designs, juveniles at various in- and out door pastimes, nicely colored on tint grounds, with border and greetings, 100 in package. 100..... .45

R508—Assorted 6 designs, winter landscape, oblong panels, holly decorated, beautiful colorings on fancy grounds with white border, with greetings; 100 in package 100 ..... .55

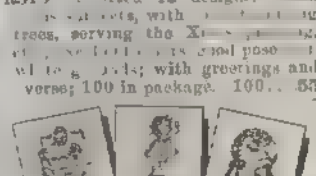


R509—Assorted 6 designs, religious subjects; "Star of Bethlehem," "Wise-Men," "The Nativity," etc., artistically colored; white border; with greetings; 100 in package 100 .55



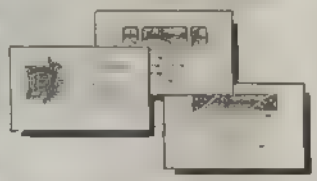
R510—Assorted 12 designs, [illegible] wreath bordered winter landscape panels, with poinsettias, bells, etc beautifully colored on white grounds, with greetings and verse; 100 in package 100..... .55

R513—Assorted 12 designs, [illegible] trees, serving the [illegible] with greetings and verse; 100 in package. 100.. .55



R516—Assorted 4 designs; juveniles at play with Christmas toys, snow man, holiday gift packages, etc exceptional colorings on white grounds, with greetings and verse. 100 in package. 100 ..... .55

2 FOR 5c POST CARDS



R530—Assorted 4 designs; scenic and decorative panels in colors, on gold edged white stippled grounds; greetings and verse; 50 in package 100 ..... 1.25

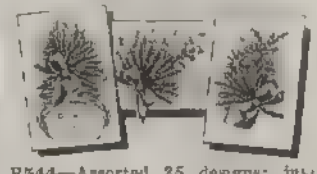
R531—Assorted 4 designs; interior and exterior resident panels in soft artistic colorings on fabric finished white, gold bronzed grounds, greetings and verse; 50 in package. 100 1.25

R532—Assorted 4 designs; Biblical subjects, dealing with various incidents at the Birth of Christ; good colors, gold edge, assorted color grounds, with greetings; 50 in package 100 ..1.25

R536—Assorted 12 designs, winter marine and landscape subjects, holly and poinsettia decorated; beautifully colored on gray mat grounds, gold border; greetings and verse; 50 in package. 100....1.50

R539—Assorted designs; Santa Claus, forest and snow scene panels, in splendidly blended colorings; assorted color grounds, gold edged; greetings and verse; 50 in package 100 .....1.50

5c POST CARDS



R544—Assorted 25 designs; juvenile, Santa Claus and holiday subjects, in bright colors and heavily embossed; white grounds; ribbon tied, natural Xmas tree branch applied; verse; each in envelope; 25 in package. 100 .. .. 2.50

BEADED

R545—Assorted 20 designs; embossed scenic, holly spray, wreath and booklet subjects, etc., in full colors on white grounds; silk ribbon tied and nicely beaded, greetings and verse; each in envelope; 25 in package 100.....2.50

TINSELED

R546—Assorted 25 designs, juvenile and winter scenes, bells, etc nicely colored and embossed on white grounds; silk ribbon tied; silver tinseled bell decorations; greetings and verse; each in envelope, 25 in package. 100 .....2.50

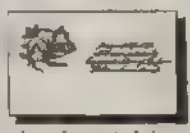
5c BOOKLET POST CARD

R547—Assorted 25 designs; 4 page and cover silk ribbon tied booklets on post cards; embossed covers, beautifully colored, gilt trim; with greetings and verse; each in envelope, 25 in package. 100. . . 2.75

5 CENT AIR BRUSH CARDS

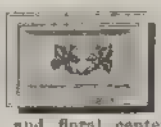
R548—Assorted 50 designs; heavily embossed Christmas subjects, bells, birds, scenes, wishbones, etc.; holly mistletoe and floral decorated in bright holiday colorings; grained white grounds with ornamental border; pasted fronts; greetings; each in envelope; 25 in package. 100 ..... 2.50

5 CENT STEEL DIE CARDS



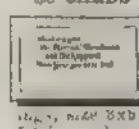
R554 — Assorted 4 designs; greetings and verse; steel die engraved; holiday decorated in colors and gold, tinted edge; 25 in package 100 .....2.50

10 CENT SILK EMBROIDERED



R550—Assorted 25 designs; assorted shaped cut out panels with silk embroidered bell and floral centers in colors; embossed holly decorations; greetings and verse; each in envelope; 25 in package. 100 .....3.50

GREETING XMAS CARDS
2 FOR 5c IN ENVELOPES



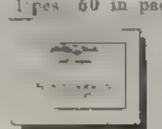
R600—Assorted 4 designs; white stock; engraved script and Old English greeting. [illegible] 2½x4 ins.; with envelopes; 100 in package. 100..1.25

5c CARDS IN ENVELOPES

R601—Assorted 4 designs; good quality white stock; die sunk, engraved [illegible] size 3x5 ins.; with envelopes; 50 in package. 100..... 2.25

Gold Edged

R602—Assorted 3 designs; tinted stock, gold beveled edge; engraved greeting verse with panel decorations; size 3x4 ins.; with envelopes 50 in package. 100 .2.50

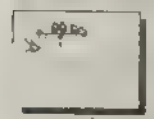


R603—Assorted 4 designs, [illegible] graved die sunk, with top panel of country winter scene in black and gold; size 3⅝x4½ ins.; with envelopes; 50 in package. [illegible] 2.50

R605 [illegible] designs; oval scenic panel in water color effects; greetings; die sunk; white glazed stock; size 4x5 ins.; with envelopes; 50 in package. 100....2.50

GREETING XMAS CARDS

5 CENT CARDS IN ENVELOPES

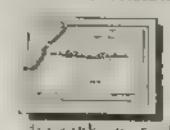


R618—Assorted 4 designs; white fabric stock, gold edge, blue bird and holly decorations in colors, engraved greetings; with envelopes; size 3½x4½ ins.; 50 in package. 100.....2.25

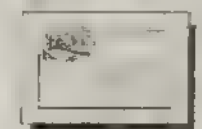
R619—Assorted 4 designs, white stock, linen finished; gold edge; engraved greetings and verse; scenic panel in colors, size 3½x4½ ins. with envelopes; 50 in package. 100 ..... 2.25

R620—Assorted 4 designs; juvenile figures in bright colors on white fabric stock; engraved greetings and verse; gold edge; size 3½x4½ ins., with envelopes, 50 in package 100 ..... 2.25

10 CENT CARDS IN ENVELOPES



R631 — Assorted 12 designs, engraved greetings and scenic panels, silk ribbon tied, mounted on die sunk oval edge cards, size 3¼x5 ins., with envelopes 25 in package 100 ..... 5.00



R632 — Assorted 5 designs; extra fine stock engraved greetings and colored and gold scenic panel decorations; die sunk; greeting verse; size 3¾x6 ins.; with envelopes; 25 in package. 100...5.00

R646— Assorted 4 designs, an exceptionally attractive card; soft tone gray center panels with narrow white margin, steel engraved, winter scenes in color effects, gold beveled edge, size 4x6½ ins., 25 in package 100 ..... 5.00

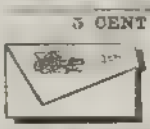
CHRISTMAS FOLDERS

2 for 5 cents

R675—Assorted 6 designs, white fabric stock, holly, poinsettia and scenic panel decorations in natural colors and gold; with greetings and verse, size 2¼x3½ ins., with envelopes; 100 in package 100 ..... 1.00

R676—Assorted 5 designs; scenic panels, with holly, pine bough, and poinsettia decorations in bright colors, gold traced; greetings and verse; size 2x3½ ins.; with envelopes 100 in package 100 1.00

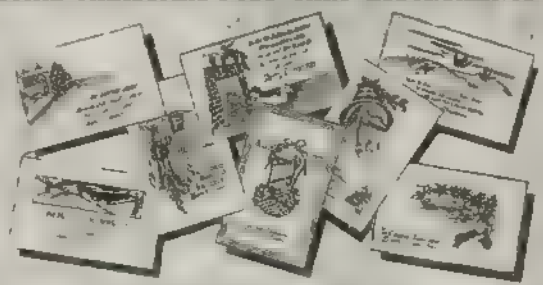
5 CENT FOLDERS



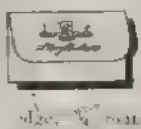
R680—Assorted 4 designs, dark gray stock fancy cut gilt edged fold, steel engraved greetings and verse, size 2½x4½ ins., with envelopes; 50 in package. 100. 2.50

R683—Assorted 4 designs, selected tinted stock, gilt edge, steel engraved greetings and verse, scenic decorations in color inks, cut corners size 2½x4¼ ins., 50 in package with envelopes. 100 ..... 2.50

SPECIAL CHRISTMAS POST CARD ASSORTMENTS



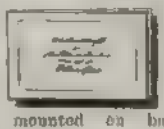
R570 Assorted 30 designs scenic panels religious subjects floral poinsettia, holly and fir bough decorated; every one beautifully lithographed in embossing, bright attractive Holiday cards, 60 assorted greetings, with greetings and verses; 100 in pkge. 100..... .60



R606—Assorted 3 designs, steel engraved; title, greetings and decorated panels in black and gold gilt edge, ¼ point corner flaps, size 2¾x4½ ins.; 50 in package with envelopes 100 2.50

R609 Assorted 4 designs, title panel linen finished stock, flap with woodland winter scene in water color effects; gilt edged; greetings and verse, size 3¼x4¼ ins. 50 in package with envelopes 100 2.50

10 CENT FOLDERS



R716 Assorted 3 designs; steel engraved greetings, verse and decorations on die sunk folder, mounted on blue card; green edged; size 4¼x5½ ins.; 25 in package with envelopes; 100 3.50

Religious

R717—Assorted 4 designs, steel engraved, tinted stock, gilt die sunk panel cover; religious subjects in attractive colorings; greetings, size 4x5½ ins., 25 in package with envelopes 100 3.50

R719 Assorted 4 designs steel engraved, sunk panel cover, holly decorated in colors and gold, size 3¼x4¼ ins. 25 in package with envelopes 100 ..... 5.00

R720—Assorted 4 designs; tinted stock steel engraved title and greetings; scenic panel in colors and gold; die sunk cover; tinted edge; size 3⅝x4½ ins.; 25 in package with envelopes 100 5.00

R723 —Assorted 4 designs, cut corner flap gold edge, steel engraved greetings, size 3¼x4¼ ins., 25 in package with envelopes 100 ..... 5.00

R724— Assorted 4 designs beveled gilt edge flap; steel engraved greetings and verse, colored inks and gold, size 3¼x5½ ins., 25 in package with envelopes 100 ..... 5.00

CHRISTMAS BOOKLETS

10 CENT BOOKLETS

R762— Assorted 4 designs; tinted stock, beveled gilt edge, size 3¼x4 ins., greetings and verse, decorative floral and geometric designs, ribbon tied, 4 pages and cover, size 3¼x4 ins., 25 in package with envelopes. 100 5.00

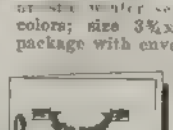
R770— Assorted 2 designs; pebble stock, 4 pages and cover, silk ribbon tied, greetings and verse, panel picture decoration in water color effect; size 3¼x4 ins., 25 in package with envelopes. 100.....5.00

R773—Assorted 2 designs; steel engraved greetings and verse; tinted stock, silk ribbon tied, 4 pages and cover; tinted edges, die sunk design in colors; size 3¼x4 ins.; 25 in package with envelopes. 100 5.00

15 CENT BOOKLETS

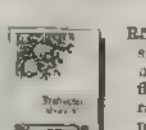
R780 Assorted 4 designs, tinted stock, 4 pages and cover, steel engraved title and greetings, silk ribbon tied, gold edged, die sunk cover design in colors and gold, size 3¼x4 ins., 12 in package with envelopes 100 7.50

R784 Assorted 2 designs, white linen finished stock, gold edged; 4 pages and cover, silk ribbon tied, steel engraved greetings and verse or snow scene panel in colors; size 3¾x4¾ ins.; 12 in package with envelopes. 100 7.50

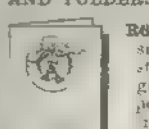


R787— Assorted 2 designs, tinted stock; steel engraved title and greetings; die sunk; double fold gold edge, silk ribbon tied; poinsettia and panel designs in colors 4 pages and cover, size 4x5 ins. 12 in package with envelopes 100 8.50

GERMAN POST CARDS AND FOLDERS

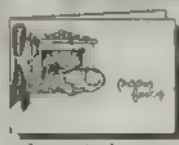


R540—Assorted 12 designs, novelty assortment; floral and holly tinted with snow panels in water color effects, German greetings; 50 in package. 100 ..... 1.25



R679—Assorted 12 designs fine white stock, embossed greetings, holly and poinsettia wreaths and clusters and gold with verse, German text, size 2¾x4½ ins., 25 in package, with envelopes 100 ..... 2.50

25 CENT BOOKLETS



R788—Assorted 12 designs; 4 pages and cover, extra bond stock, ribbon tied; gold edges; steel engraved greetings and verse; large winter scenic and fireside panels in colors; size 4⅛x6¼ ins.; 12 in package with envelopes. Dozen 1.50

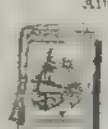
R791—Assorted 2 designs; selected white stock, die sunk, oval center winter scene panel in colors; silk ribbon tied, tinted edge; 4 pages and cover, steel engraved greetings and verse; size 5x6¾ ins. 12 in package with envelopes. Dozen 1.50

R793—Assorted 2 designs; fine polished stock, 4 pages and cover, silk ribbon tied, steel engraved greetings and verse, scenic panels in colors and gold; size 4¾x5¼ ins.; 12 in package with envelopes. Dozen 1.50

R794 Assorted 2 designs, tinted stock, steel engraved, 4 pages and cover, greetings and verse; beautiful winter scene panels in colors in gold frame; size 4¾x5¾ ins.; 12 in package with envelopes. Dozen 1.65

IMPORTED BOOKLETS

Air brush cut outs



R704—Assorted 6 designs; 4 pages and cover, silk cord tied, heavily embossed cut out floral colored covers, floral and marine subjects, colored edges, presentation page and verse, size 2¾x4 ins., 25 in package with envelopes 100 3.00

R750 Assorted 6 designs, embossed air brush cut outs, cut corners floral birds, flowers scenic, etc., in natural colors and gold; silk cord tied; scalloped edges; greetings, presentation page and verse size 2¾x4 ins., 25 in package, with envelopes 100 ... 5.00

R770—Assorted 4 designs; 4 pages and cover, cut out air brush cover in bright colors and gold, floral and scenic subjects, silk cord tied, greetings, presentation page and verse size 3¼x5 ins., 25 in package with envelopes 100 ..... 6.00

K.T.&K. S—V CHINA

NEW "BLUE BIRD"

SPRAY DECORATED SEMI-PORCELAIN (OPEN STOCK)

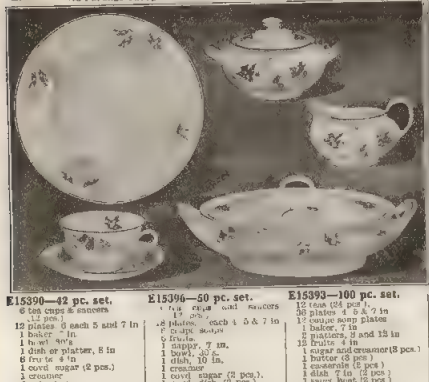
"K. T. & K." trademarked. Light wt. semi-porcelain. Pure white, new fancy shape delicately tinted blue bird, aqua blossom and foliage sprays, gold edges, striped handles and knobs. No Package Charge.

"CENTURY"

HOMER LAUGHLIN

PINK ROSE SPRAY SEMI-PORCELAIN (OPEN STOCK)

trademarked. Light weight, fine selection, scalloped edges, hollow bases, panel indented decorated pink rose sprays and cherry blossoms, green foliage. All pieces with gold edges and striped handles. No Package Charge.



E15390—42 pc. set.
6 tea cups & saucers
6 tea plates, 6 each 5 and 7 in
1 baker, 7 in
1 bowl, 8½ in
1 dish or platter, 8 in
6 fruits, 4 in
1 cov'd sugar (2 pcs.)
1 creamer
6 indiv butters
Each set about 40 lbs.
SET (42 pcs.), **$5.90**

E15396—50 pc. set.
8 tea cups & saucers
8 plates, each 5, 6 & 7 in
8 soup bowls
8 fruits
1 sugar, 7 in.
1 bowl, 10 in.
1 dish, 10 in.
1 creamer
1 cov'd sugar (2 pcs.)
1 cov'd dish (2 pcs.)
Each set about 45 lbs.
SET (50 pcs.), **$8.50**

E15393—100 pc. set.
12 teas (24 pcs.)
36 plates, 4, 5 & 7 in
12 coupe soup plates
1 baker, 7 in
2 platters, 8 and 12 in
12 fruits, 4 in
1 sugar and creamer (3 pcs.)
1 butter (3 pcs.)
1 casserole (2 pcs.)
1 dish, 7 in. (2 pcs.)
1 pickle dish
Each set about 90 lbs.
SET (100 pcs.), **$16.65**

E15391—97 pc. set. As 100 pc. without cov'd butter & pickle dish, about 90 lbs.
SET (97 pcs.), **$15.75**

E15392—100B pc. set. As 100 pc. with 12 cups and saucers instead of 6 in. plates. 1 set in bbl., about 90 lbs.
SET 100 pcs., **$16.40**

E12990—42 pc. set.
6 tea cups & saucers (12 pcs.)
12 plates, 6 each 5 & 7 in.
1 baker, 7 in.
1 bowl, 10"s.
1 dish or platter, 8 in.
6 fruits, 4 in.
1 cov'd sugar (2 pcs.)
1 cream pitcher,
6 bread and butter plates
Each set about 40 lbs.
SET (42 pcs.), **$6.25**

E12991—97 pc. set.
As 100A without cov'd butter & pickle dish. Each set in bbl., about 90 lbs.
SET (97 pcs.), **$16.60**

E12992—100B pc. set.
As 100A with 12 indiv butters instead of 6 in plates. Each set in bbl., about 90 lbs.
SET (100 pcs.), **$16.80**

ALL DINNERWARE IN STOCK READY TO SHIP

E12993—100A pc. set.
12 teas (24 pcs.)
36 plates, 4, 5 and 7 in
12 coupe soup plates
1 baker, 7 in.
2 platters, 8 and 12 in
12 fruits, 4 in
1 sugar and creamer (3 pcs)
1 butter (3 pcs.)
1 casserole (2 pcs.)
1 dish, 7 in. (2 pcs.)
1 pickle dish
Each set about 90 lbs.
SET (100 pcs.), **$17.50**

Cups and Saucers—
E15396—Cup 3¼x2¾, saucer 5½ . . . Doz. $2.50
E15396—Oxide tea . . . 2.50
Plates— Doz.
E15316—4 in. sct. 6¼ . . . $1.20
E15317—5 " " 8¼ . . . 1.35
E15318—6 " " 8¼ . . . 1.65
E15319—7 " " 10¼ . . . 2.10
E15345—Coupe soup 9 in. sct 7¼ . . . Doz. $2.10
E15316—Deep soup, 7 in. sct 9¼ . . . Doz. $2.40
Bakers— Doz.
E15324—7 in., 9¼x7 . . . $3.60

Bowls— Doz.
E15301—Nappy, 8½x4¾x3½ . . . $3.00
Dishes or Platters—
E15302—8 in. . . . $2.00
E15303—10 in. 3¼x10 . . . 3.75
E15304—12 in. 3¾x12¾ . . . 5.60
Nappies or Salads—
E15305—7 in. sct 3¼ . . . 3.60
E15306—8 in. sct 3¾ . . . 4.75
Oatmeals—
E15307—30's, sct. 6 in. . . . 1.95
Fruits—
E15309—4 in., sct. 5½ . . . Doz. .90
Creamers—
E15376—48's h. 3¾ in. . . . 3.60

Cov'd. Sugars— Doz.
E15377—30's, ht. 4¾ . . . $7.20
Cov'd Butters—Drainer
E15378—4¾ in. Doz. $10.80
Indv. Butters—
E15379—3 in., sct. 3¼ . . . Doz. 60c
Casseroles—
E15380—7 in., sct 9¼ . . . Doz. $12.60
Sauce Boats—Without stands
E15383—7 in., sct 10 . . . Doz. $14.40
Sauce Boats—Without stands
E15385—Sct. 8¼ . . . Doz. $4.80
Pickle Dishes—
E15386—8¼x4½, Doz. $2.10

Cups and Saucers—
E12990—Cup 3¼x2¾, saucer 5¼ . . . Doz. $2.40
Plates— Doz.
E12910—4 in., sct 6 . . . $1.20
E12911—5 " " 8 . . . 1.35
E12912—6 " " 8¼ . . . 1.65
E 2913—7 " " 9 . . . 2.10
E12914—8 " 10 . . . 2.65
E12917—Coupe soup, 7 in., sct. 8 . . . Doz. $2.10
E12916—Deep soup, 7 in. . . . Doz. $2.40
Bakers— Act. Doz.
E 12926—7 in., 8¾x6¾ . . . $3.60

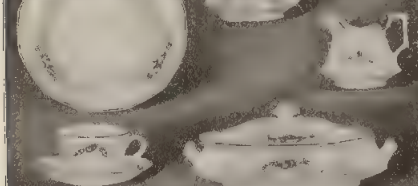
Bowls—
E12281—30 sct 4¼x2½ . . . Doz. $3.25
Platters—
E12304—8 in., act. 11 . . . Doz. $3.50
E12305—10 in., act. 15 . . . Doz. $6.30
E12947—12 in., act. 17½ . . . Doz. $10.50
Nappies or Salads—
E12955—7 in., sct. 9 . . . Doz. $4.20
Fruits—
E12960—4 in., sct. 8 . . . Doz. .90c
Creamers—
E12976—30's h. 3½ . . . Doz. $3.60
Cov'd. Sugars—
E12977—30's, ht. 4 . . . Doz. $7.20

Cov'd. Butters—Drainer
E 2978—7¼ in. Doz. $10.80
Indv. Butters—Salts or celery dips
E 2979—3¼ in. . . . Doz. 60c
Cov'd. Dishes—
E12980—7 in., sct. 9¼ . . . Doz. $13.80
Casseroles—
E12981—7 in., sct. 8½ . . . Doz. $15.60
Sauce Boats—Without stand
E12982—8½x3 in. Doz. $4.80
Pickle Dishes—
E12983—8¾x4½ in. Doz. $2.25
Oatmeals—
E12985—30's, sct. 6¼ . . . Doz. $2.10

FORGET-ME-NOT

BLUE DECORATED SEMI-PORCELAIN (OPEN STOCK)

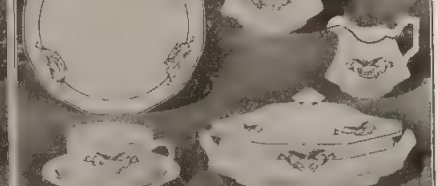
Light wt. highly glazed colonial dinner shape, blue tinted forget-me-not clusters, green and shadow foliage, gilt edges, tinted halo and knobs of covered pcs., scheme selected.



"BLUE BIRD"

TAN MEDALLION SEMI-PORCELAIN (OPEN STOCK)

Light wt. semi-porcelain, oriental paneled patented shape, gold verge line with tan scroll framed medallions, blue bird perched on blossom sprays, rich colorings, gold edges, decorated handles and knobs. No Package Charge.



E19190—42 pc. set.
6 tea cups & saucers (12 pcs.)
12 plates, 6 each 5 & 7 in.
1 baker, 7 in.
1 bowl, 10 in.
1 dish or platter, 8 in.
6 fruits, 4 in.
1 cov'd. sugar (2 pcs.)
1 cream pitcher
6 bread & butter plates.
Each set about 40 lbs.
SET (42 pcs.), **$6.30**

E19191—97 pc. set.
12 teas (24 pcs.)
36 plates, 4, 5 & 7 in.
12 coupe soup plates.
1 baker, 7 in.
2 platters, 8 and 12 in.
12 fruits, 4 in.
1 sugar and creamer (3 pcs.)
1 casserole (2 pcs.),
1 dish, 7 in. (2 pcs.),
1 sauce boat (2 pcs.),
1 pickle dish.
Each set about 90 lbs.
SET 97 pcs., **$16.25**

E19193—100 pc. set.
12 teas (24 pcs.)
36 plates, 4, 5 and 7 in
12 coupe soup plates
1 baker, 7 in.
2 platters, 8 and 12 in
12 fruits, 4 in.
1 sugar & creamer (3 pcs.)
1 butter, 3 pcs.
1 casserole (2 pcs.)
1 dish, 7 in. (2 pcs.)
1 sauce boat (2 pcs.)
1 pickle dish
Each set about 90 lbs.
SET (100 pcs.), **$17.25**

Cups and Saucers—
E19190—Cup 3¼, saucer 5¼ . . . Doz. $2.75
E19192—Oxide cup & saucer 5¼ . . . Doz. $2.75
Plates— Doz.
E19110—4 in., sct. 6¼ . . . Doz. $1.25
E19111—5 in. sct. 7¼ . . . Doz. $1.40
E19112—6 in., sct. 8¼ . . . Doz. $1.72
E19113—7 in., act. 9¼ . . . Doz. $2.20
E19114—8 in., act. 9¼ . . . Doz. $2.75
E19115—Coupe soup, 9 in. sct. 7¼ . . . Doz. $2.75
E19116—Deep soup, 7 in. sct. 9¼ . . . Doz. $2.75
Bakers— Act. Doz.
E19104—7 in. 9¼ x 7 . . . $3.80
E19181—30's, 2¾x5¾ . . . $3.25
Dishes or Platters—
E19144—8 in., act. 11 . . . Doz. $4.55
E19145—10 in., act. 15 . . . Doz. $7.80
E19117—12 in. act. 17½ . . . Doz. $11.70
Nappies or Salads—
E19152—7 in. act. 9¼ . . . Doz. $3.90
Fruits—
E19153—4 in., act. 5½ . . . Doz. .90c
Creamers—
E19178—30's h. 3¾ in. . . . $3.60
Cream Pitchers—
E19179—30's h. 3¾ . . . Doz. $3.90
Sugars—Cover ed—
E19175—30's, ht. 5¼ . . . Doz. $7.80
Cov'd. Butters—Drainer
E19176—4¾ in. Doz. $11.70
Indv. Butters—
E19179—Drum, 3¼ . . . Doz. 62c
Cov'd. Dishes—
E19180—7 in., sct. 10¼ . . . Doz. $13.65
Casseroles— Act. Doz.
E19182—7 in., 8¾ . . . $15.60
Sauce Boats—Without stand
E19183—Act. 6¼ . . . Doz. $5.20

E18590—42 pc. set.
6 tea cups and saucers
6 tea plates, 6 each 5 & 7 in
1 baker, 7 in
1 bowl, 10 in.
1 dish or platter, 8 in.
6 fruits, 4 in
1 cov'd sugar (2 pcs.)
1 cream pitcher
6 bread & butter plates
Each pc. about 40 lbs.
SET 42 pcs., **$6.85**

E18591—97 pc. set.
As 100A without cov'd butter & pickle dish. Each set about 90 lbs.
SET 97 pcs., **$18.45**

E18592—100B pc. set.
As 100A with 12 indiv butters instead of 6 in plates. Each set about 90 lbs.
SET 100 pcs., **$18.75**

Ask for quotations on any composition you think you can sell.

Cups and Saucers—
E18591—Tea, 3¼x2¾, saucer 5¼ . . . Doz. $3.00
Plates— Doz.
E18539—4 in., sct. 6¼ . . . $1.35
E18611—5 " " 7¼ . . . 1.50
E18512—6 " " 8 . . . 1.85
E18513—7 " 9 . . . 2.35
E18541—8 " " 9¼ . . . 2.85
E 8 17—Coupe soup . . . 2.35
E18518—Cake, 10¾ in. t. 9 . . . 1.0

Bowls—
E18581—30 s. . . . Doz. $3.50
Dishes or Platters—
E18582—8 in. . . . Doz. $4.50
E18583—10 in. sct. 13x10½ . . . Doz. $7.50
E18547—12 in., sct. 14½x10½ . . . Doz. $13.00
Nappies or Salads—
E18552—7 in., sct. 8¾ . . . Doz. $4.10
Fruits—
E18 49—4 in., act. 5 . . . Doz. 96c

Cov'd. Sugars—
E18577—30's, ht. 5 in. . . . Doz. $8.40
Cov'd. Butters—Drainer
E18578—4¾ in. Doz. $12.60
Indv. Butters—Salts or celery dips
E 8 79—3¼ in. . . . Doz. 65c
Cov'd. Dishes— Act. Doz.
E18580—7 in., 10¼ . . . $14.60
Casseroles— Act. Doz.
E18581—7 in., 8¾ . . . $16.20
Sauce Boats—Attached stand
E18584—Act. . . . Doz. $12.25

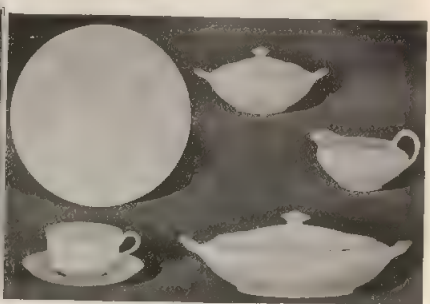
K.T.&K. S—V CHINA

"FERNWOOD" GOLD FLORAL SEMI-PORCELAIN

"K. T. & K." trademarked. Lt. wt. semi-porcelain, guaranteed not to crack. Embossed scalloped edges, gold floral decoration. Shapes, some scallop warped, some sprung or glazed over chips, no raw defects. All saleable merchandise. No Package Charge. (OPEN STOCK)

"NATIONAL" PURE WHITE SEMI-PORCELAIN (OPEN STOCK)

National China Co. product, highly glazed, well fired pure white body, hollow pieces light weight, fancy handles, plain attractive model. No Package Charge.



DINNER SETS

E14090—42 pc. set.

6 tea cups & saucers (12 pcs.)
12 plates, 6 each 5 & 7 in.
1 baker, 7 in.
1 bowl, 5½ in.
1 dish or platter, 8 in.
6 fruits, 4 in.
1 cov'd sugar (2 pcs.)
1 cream pitcher
6 bread and butter plates
Each set about 40 lbs.

SET (42 pcs.), **$4.75**

E14091—97 pc. set As 100 A without cov'd. butter (3 pcs.)

SET 97 pcs., **$12.25**

E14092—100B pc. set As 100A with 12 fruits, butters instead of 4 in plates. Each set about 90 lbs.

$12.50

E14093—100A pc. set.

12 tea (24 pcs.)
24 plates, 8 each 5 and 7 in.
1 coupe soup plates.
1 baker, 7 in.
2 pie tins, 8 and 12 in.
12 fruits, 4 in.
1 sugar & creamer (3 pcs.)
1 butter (3 pcs.)
1 casserole, 2 pcs.)
1 dish, 7 in. (1 pcs.)
1 sauce boat (2 pcs.)
1 pickle dish.
Each set about 90 lbs.

SET (100 pcs.), **$12.95**

OPEN STOCK

Cups and Saucers—
J14003—Oxide shape cup 3¼x2¾ in., saucer 5½ Doz. $2.00

Plates— Doz.
E14031—6 in., act. 6 $0.90
E14032—7 " " 7 1.00
E14033—8 " " 8 1.25
E14034—9 " " 9 1.50
E14035—10 " " 10 1.80
E14036—Coupe soup 9 in., act. 6 Doz. $1.50
E14037—Deep soup, 9 in., act. 6 Doz. $1.80

Bakers— Doz.
E14024—7 in., act. 9½ $2.70

Bowls— Doz.
E14031—3⅝ in. $2.90

Dishes or Platters—
Act. Doz.
E14034—8 in. 11 $2.75
E14035—10 " 13¾ 5.50
E14037—12 " 15½ 7.50

Nappies or Salads—
E14052—7 in., act. 8 Doz. $2.70

Fruits— Doz.
E14060—4 in. act. 9½ $0.85

Creamers— Doz.
E14078—Oxide, 4 in. $2.70

Cov'd Sugars— Doz.
E14079—Oxide, 4 in. $5.40

Cov'd Butters—
E14078—4 in. Doz. $8.10

Indv. Butters—
E14079—3¼ in. Doz. 45c

Cov'd Dishes—
E14080—7 in., 10x8¾ $8.48

Casseroles— Doz.
E14084—7 in. act. 10 $10.80

Sauce Boats—Without stand.
E14086—no. Doz. $3.60

Pickle Dishes—
E14086—6¾x3½ Doz. $2.00

SPECIAL!

"CAPITOL" 100A PIECE DINNER SET

$13.75 SET

DINNER SETS

E10890—42 pc. set.

6 tea cups & saucers (12 pcs.)
12 plates, 6 each 5 & 7 in.
1 baker, 7 in.
1 bowl, 5½ in.
1 dish or platter, 8 in.
6 fruits, 4 in.
1 cov'd sugar (3 pcs.)
1 cream pitcher
6 bread & butter plates.
Each set about 40 lbs.

SET 42 pcs.), **$4.25**

E10896—50 pc. set

6 tea cups & saucers (12 pcs.)
12 plates, 6 each 5 & 7 in.
1 baker, 7 in.
1 bowl, 5½ in.
1 dish or platter 10 in.
6 fruits, 4 in.
1 cov'd sugar (3 pcs.).
1 cream pitcher
1 cov'd dish, 7 in. 2 pcs.)
Each set about 48 lbs.

SET 50 pcs.) **$5.50**

E10891—97 pc. set. As 100 pc. set, without cov'd. butter (3 pcs.)

SET 97 pcs.), **$10.65**

E10893—100 pc. set.

12 teas (24 pcs.)
24 plates, 8 and 7 in.
12 coupe soup plates
1 baker, 7 in.
2 pie tins, 8 and 12 in.
12 fruits, 4 in.
1 sugar & creamer (3 pcs.).
1 butter (3 pcs.)
1 casserole (2 pcs.)
1 cov'd dish, 7 in. 2 pcs.,
1 sauce boat (2 pcs.)
1 pickle dish
Each set about 90 lbs.

SET (100 pcs.), **$11.25**

OPEN STOCK

Cups and Saucers—
E10800—Tea 3¾ in., saucer 5 in. Doz. $1.68
E10806—Oxide 3½ in., saucer 5 in. Doz. Cut

Plates— Doz.
E10810—6 in., act. 6 $0.75
E10811—7 " " 7 .94
E10812—8 " " 8 1.12
E10813—9 " " 9 1.42
E10814—10 " " 10 1.80
E10815—Coupe soup, act. 7 1.35

E10816—7 in. deep act. 9 1.52
Bakers— Doz.
E10824—7 in., act. 9½ $2.25

Bowls— Doz.
E10830—3⅝ in., act. 5 $1.57
E10831—3¾ in., " 5 1.80

Dishes or Platters— Doz.
E10834—8 in. act. 11 $2.65
E10835—10 " 13 3.65
E10837—12 " 15 4.60

Nappies or Salads— Doz.
E10850—7 in., act. 9 $2.25

Creamers— Doz.
E10876—3¾ in. $2.25

Cov'd Sugars— Doz.
E10877—3¾ in. $4.50

Cov'd Butters— Doz.
E10878—4 in. $8.75

Indv. Butters— Doz.
E 10879—3¼ in. $3.80

Cov'd Dishes—
E10880—7 in. act. 9½ Doz. $8.60

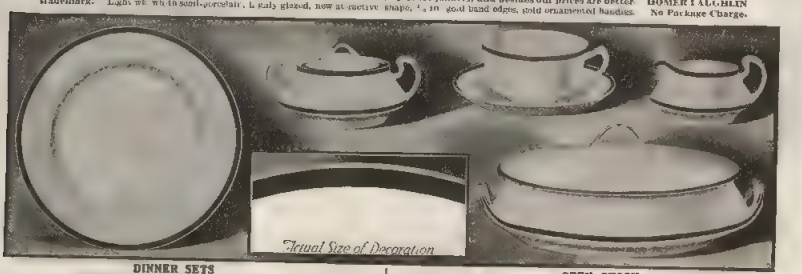
Casseroles—
E10883—7 in., act. 8½ Doz. $9.50

Sauce Boats—Without stand
E10885— Doz. $3.00

Pickle Dishes—
E10886—6½ in. $2.25

"CAPITOL" WHITE & GOLD DINNERWARE

There is 50% more gold in our decorations than on the patterns offered by other jobbers, and besides our prices are better. Trademark. Light weight semi-porcelain, highly glazed, new attractive shape, plain gold band edges, gold ornamented handles. HOMER LAUGHLIN No Package Charge.



DINNER SETS

E11890—42 pc. set.

6 tea cups & saucers (12 pcs.)
12 plates, 6 each 5 & 7 in.
1 baker, 7 in.
1 bowl, 5½ in.
1 dish or platter, 8 in.
6 fruits, 4 in.
1 cov'd sugar (2 pcs.).
1 cream pitcher
6 bread and butter plates.
Each set about 40 lbs.

SET (42 pcs.), **$5.35**

E11891—97 pc. set As 100A without cov'd. butter (3 pcs.)

E11896—50 pc. set.

6 tea cups and 1 slop bowl, saucers (12 pcs.), 7 in nappy
12 plates, 6 10 in dish, each 4, 6 and 1 creamer
7 in. 1 sugar bowl.
6 coupe soups 1 cov'd dish
6 fruits 4 in.

Each set 45 lbs. SET 50 pcs.), **$7.35**

E11892—100B pc. set As 100A with 12 fruit butters instead of 4 in plates.

Each set about

E11893—100A pc. set.

12 teas (24 pcs.)
36 plates, 6 5 and 7 in
12 coupe soup plates.
1 baker, 7 in.
2 platters, 8 and 12 in.
12 fruits, 4 in.
1 sugar & creamer (3 pcs.)
1 butter (3 pcs.)
1 casserole (2 pcs.)
1 dish 7 in. (2 pcs.)
1 sauce boat (2 pcs.)
1 pickle dish
Each set about 90 lbs.

OPEN STOCK

Cups and Saucers—
E11800—Tea cup 3¼x2¾, saucer 5¼ Doz. $2.25
E11805—Oxide shape cup 3¼x2¾, saucer 5 in. Doz. $2.25

Plates— Doz.
E11810—4 in. act. 6 $1.10
E11811—5 " " 7 1.62
E11812—6 " " 8 1.90
E11813—7 " " 9 2.35
E11814—8 " " 12 2.35
E11815—Coupe soup 7 in. act. 6 Doz. $1.35
E11816—Deep soup, 7 in. act. 9 Doz. $2.20

Bowls— Doz.
E11830—3⅝"s $2.20
E11831—3¾"s 2.75

Dishes or Platters—
Act. Doz.
E 1847—7 in. 10½ $2.25
E11848—9 " 12 2.75
E 1849—10 " 13½ 3.50
E11872—12 " 15½ 5.50

Nappies or Salads—
E11852—7 in. act. 8½ $3.30

Fruits— Doz.
E11860—4½ in. act. 5½ $0.85

Oatmeals— Doz.
E11865—5 in. act. 6 $1.10

Cov'd. Sugars— Doz.
E11877—3¾"s $5.40
Cov'd Butters—Drainer
E11878—4½ in. Doz. $9.90
Indv. Butters—Salts or celery dips
E11879—3½ in. Doz. 55c
Cov'd. Dishes— Act. Doz.
E11880—7 in. 10½x8¾ $11.75
E11881—8 " 11¾x9¾ 15.00
Casseroles
E11889—7 in., act. 9 in. Doz. $13.20
Sauce Boats—Without stand.

"DELMONTE" BORDEN DECORATED SEMI-PORCELAIN (OPEN STOCK)

National China Co's first quality, light wt semi-porcelain, pure white, delicate pink rose dishes, pr forget-me-not on black band, gold edges, striped handles and cover trim. No Package Charge.

E23890—42 pc. set.
6 tea cups & saucers, 12 pcs
12 plates, 6 each 6 & 7 in
1 baker 7 in
1 bowl 30 oz
1 dish or platter 8 in
6 fruits 4 in
1 cord sugar (2 pcs)
1 cream pitcher
6 bread & butter plates
Each set about 40 lbs
SET (42 pcs.), **$11.10**

E23894—50 pc. set.
6 tea cups & saucers (12 pcs.
6 plates, 6 each 6, 7 & 8 in
6 cups soups
1 baker 7 in
1 bowl 30 oz
1 dish or platter 10 in
6 fruits 4 in
1 cord sugar (2 pcs)
1 cream pitcher
1 bread dish 9 in (2 pcs)
Each set about 48 lbs
SET (50 pcs.), **$14.85**

E23893—100 pc. set.
12 teas 21 pcs
36 pl 6, 7 and 7 in
12 soups 2 pcs, plates
1 bak 7 in
2 platters 8 and 12 in
12 fruits 4 in
1 sugar & creamer (3 pcs)
1 butter (2 pcs)
1 casserole (2 pcs)
1 dish 7 in (1 pcs)
1 salad bowl (1 pcs)
1 pickle dish
Each set about 90 lbs
SET (100 pcs.), **$29.25**

E23891—97 pc. set. As 100 pc. set, without cord sugar (3 pcs.) **$27.75**

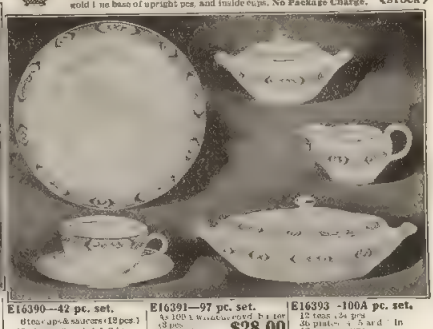
Cups and Saucers—	Doz.
E23801—Ovide 3½ in. cup & saucer	Doz. $4.75
Plates	Doz.
E2385, 6 in. sq. scal. B...	$1.90
E23811—5 " " 7	2.25
E2385—7 " " 8	2.65
E23831—7 " " 9	3.35
E2384—8 " " 9½	4.10
E2385—6 in. coupe, soup	3.15
Bakers—	Doz
E23884—7 in. sq. 9½	$5.95

Bowls	Doz.
E23831 10 in. sq. 6½	$4.95
Dishes or Platters—	Doz.
E23833—8 in. sq. 11	$6.95
E23834—10 " " 13	11.25
E23837—12 " " 15	16.00
Nappies or Salads—	Doz.
E23825—7 in. sq. 9	$5.95
Fruits—	Doz.
E23850—4 in. sq. 5½	$1.50
Creamers	Doz.
E23877—8 oz.	$5.95
Cord Sugars—	Doz.
E23887—8 oz.	$11.95

Cord Butters—	Doz.
E23878—8 oz.	$18.00
Indy. Butters—	Doz.
E23879—3½ in.	$1.00
Cord Dishes—	
E23880—7 in., sq. 9½	Doz. $21.00
Casseroles—	
E23888—7 in., sq. 8½	Doz. $24.00
Sauce Boats—Attached stand	
E23886—6 in.	Doz. $16.00
Pickle Dishes	Doz.
E23882—6x4 in.	$5.95

"KENWOOD" BLUE, GREEN & PINK ROSE SEMI-PORCELAIN

"Edwin M Knowles" trademarked. Light wt semi-porcelain, May flower shape, panel indentures. French blue lace border over fern wreaths tan scrolls, pink rose medallions, gold edges, traced lines and bands, gold line band of upright pcs and inside cups. No Package Charge. (OPEN STOCK)



E16390—42 pc. set.
6 tea cups & saucers (12 pcs.)
12 plates, 6 each 6 & 7 in
1 baker 7 in
1 bowl 30 oz
1 dish or platter 8 in
6 fruits 4 in
1 cord sugar (2 pcs)
1 cream pitcher
6 bread & butter plates
Each set about 90 lbs
SET (42 pcs.), **$9.50**

E16391—97 pc. set.
As 100 A without cord butter set covered 3 pcs
SET 97 pcs **$28.00**

E16392—100B pc. set.
As 100 A with 12 fruits and 12 ins instead of 6 in plates. Each set about 90 lbs
SET 100 pcs **$28.50**

OTHER SETS We will make up any size or kind of set you may desire. Write for prices.

E16393—100A pc. set.
12 teas 24 pcs
36 plates, 6 and 7 in
12 coupe soup plates
1 baker 7 in
2 platters 8 and 12 in
12 fruits 4 in
1 sugar & creamer 3 pcs
1 butter 2 pcs
1 casserole 2 pcs
1 dish 7 in 2 pcs
1 sauce boat 2 pcs
1 pickle dish
Each set about 90 lbs
SET (100 pcs.), **$29.50**

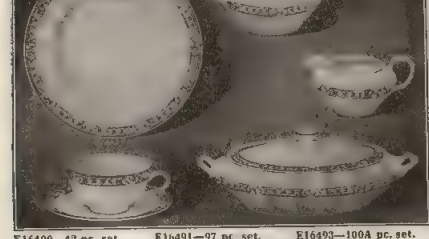
Cups and Saucers—	Doz.
E16380—Tea 3¾x2¼ saucer	Doz. $3.00
Plates	Doz.
E16310—4 in., act. 6¼	$2.00
E16311—5 " " 7¼	2.25
E16312—6 " " 8	2.50
E16313—7 " " 9	3.10
E16314—8 " " 10¼	4.00
E16317 Coupe soup 7 in. act 8¼	$3.50
Bakers—	Doz.
E16324—7in., act. 8¾	$6.00
Bowls—	Doz.
E16331 10"s.	T. O

Dishes or Platters—	Doz.
E16345—8 in. act. 11¼	Doz. $7.00
E16346—10 in., act. 13¾	Doz. Temp Out
E16347—12 in., act. 15	Doz. $18.00
Fruits—	Doz.
E16350—4 in. act. 5¼	$1.50
Creamers—	Doz.
E16376—30's, ht. 2¾	$6.00
Cord. Sugars—	Doz.
E16377—30's, ht. 3½	$12.00
Cord Butters—Butters	Doz.
E16378—7½ in.	Doz. $18.00

Indy. Butters—Salts or celery dips	Doz.
E16379—3½ in.	Doz. Temp Out
Cord. Dishes—	
E16380—7 in., act. 9 3/4	Doz. $21.00
Casseroles—	Doz.
E16383—7 in., act. 8¼	$24.00
Sauce Boats—Attached stand	
E16384—6x4 in.	Doz. $20.40
Pickle Dishes—	
E16385—9x4¼ in.	Doz. $6.00

"MAYFLOWER" PINK ROSE & FRENCH BLUE SEMI-PORCELAIN

"Edwin M Knowles" trademarked. Light wt semi-porcelain, pure white, delicate pink rose semi-porcelain, pr and inch rose, pr and inch rose & blue and inch blue dishes, pr forget-me-not on black band, gold edges, striped handles and cover trim. No Package Charge. (OPEN STOCK)



E16490—42 pc. set.
6 tea cups & saucers (12 pcs.)
12 plates, 6 each 6 & 7 in
1 baker, 7 in.
1 bowl, 30 oz.
1 dish or platter, 8 in.
6 fruits, 4 in.
1 cord. sugar, 2 pcs.
1 cream pitcher
6 ind. butters
set about 40 lbs
SET (42 pcs.), **$9.50**

E16491—97 pc. set.
As 100 A without cord butter 3 pcs
SET 97 pcs. **$28.00**

E16492—100B pc. set.
As 100 A with 12 ind. butters instead of 6 in plates. Set about 90 lbs
SET (100 pcs. **$28.50**

ALL DINNERWARE IN STOCK READY TO SHIP

E16493—100A pc. set.
12 teas 24 pcs
36 plates, 6 and 7 in
12 coupe soups
1 baker, 7 in.
1 dish or platter, 8 in.
6 fruits, 4 in.
1 sugar & creamer (3 pcs)
1 butter (2 pcs)
1 casserole (2 pcs)
1 dish 7 in (2 pcs)
1 sauce boat (2 pcs)
1 pickle dish
Each set about 90 lbs
SET (100 pcs.), **$29.50**

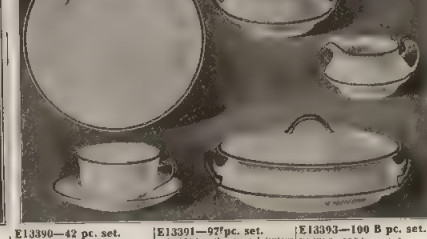
Cups and Saucers—	Doz.
E16390—Tea 3¾x2¼ saucer	Doz. $5.00
E16403—Ovide 3½x2¾ saucer 5½	Doz. $5.00
Plates	Doz.
E16410—4 in. act. 6	$2.00
E16411—5 " " 7¼	2.25
E16412—6 " " 8¼	2.75
E16413—7 " " 9	3.50
E16414—8 " " 9¾	4.25
E16417 Coupe soup 7 in., act. 8	3.50

Bakers	Doz.
E16424—7 in., 8¾	$6.00
Dishes or Platters	Doz.
E16445—8 in., act. 11	$7.00
E16445—10 in.	Doz. $12.50
E16447—12 in., 16	Doz. $18.00
Fruits—	
E16450—4 in., act. 5¼	$1.50
Creamers	Doz.
E16476—30 s, ht. 2¾	$6.00
Cord Sugars—	Doz.
E16477—30's, ht. 3½	$12.00

Indy Butters—Salts or celery dips	Doz.
E16479—3½ in.	Doz. $1.00
Cord. Dishes—	
E16480—7 in., act. 9¼	Doz. $21.00
Casseroles—	
E16483—7 in., act. 8¼	Doz. $24.00
Sauce Boats—Attached stand	
E16484—6x3 in.	Doz. $20.40
Pickle Dishes	Doz.

"CONGRESSIONAL" WHITE & GOLD (OPEN STOCK) SEMI-PORCELAIN

HOMER LAUGHLIN trademarked. Light wt semi-porcelain, pure white, delicate pink rose semi-porcelain, pr and inch rose, pr and inch rose & blue and inch blue dishes, pr forget-me-not on black band, gold edges, striped handles and cover trim. No Package Charge.



E13390—42 pc. set.
6 tea cups & saucers (12 pcs.)
12 plates, 6 each 5 & 7 in.
1 baker 7 in.
1 bowl 70 c.
1 dish or platter, 8 in.
6 fruits 4 in.
1 cord sugar (2 pcs
1 cream pitcher
6 bread & butter plates
Each set about 40 lbs.
SET 42 pcs.), **$10.95**

SIZES We give true and actual sizes

47 trade names of plates are

4 in	Bread and Butter
5 "	Tea " " Dinner
6 "	Breakfast " " Dinner

E13391—97 pc. set.
As 100A without cord butter sets 3 pcs
SET 97 pcs **$29.85**

E13392—100B pc. set.
As 100A with 12 ind. butters instead of 6 in plates. Each set about 90 lbs
SET 100 pcs. **$30.50**

E13393—100 B pc. set.
12 teas 24 pcs
36 plates, 6 and 7 in
12 coupe soup plates
1 baker, 7 in.
2 platters, 8 and 12 in.
12 fruits, 4 in.
1 sugar & creamer (3 pcs)
1 butter 1 pcs
1 casserole 2 pcs
1 dish 7 in 2 pcs
1 sauce boat 2 pcs
1 pickle dish Each set about 90 lbs
SET 100 pcs., **$31.50**

Cups and Saucers—	Doz.
E13390—Tea 3¾x2¼ saucer 5½	Doz. $4.95
E13395—Coffee 3¼ x 3¾, saucer 6½, Temp Out	Doz.
E13317—4 in. act. 6	$2.10
E13311—5 " " 7	2.50
E13312—6 " " 8	3.10
E13313—7 " " 9	3.95
E13315—8 " " 9½	4.70
E13317 Coupe soup 7 in., act. 8¼	3.85

Bowls—	Doz.
E13331—30's	$5.50
Dishes or Platters—	Doz.
E13339 8 in. 11½	$5.25
E13343 10 " 13½	11.25
E13347 12 " 15¾	19.20
Nappies or Salads—	Doz.
E13325—7 in., act. 8½	$6.60
Fruits—	Doz.
E 1330 4 in., act. 5¼	$1.70
Creamers—	Doz.
E13300—30's	$3.50

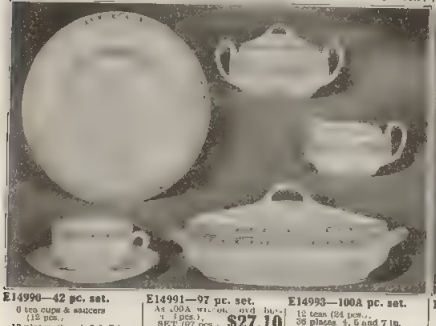
Cord Sugars—	Doz.
E 13301—7 in., 9½x6¾, act. 8	Doz. $13.20
Cord. Butters—Dralser	
E13378—7½ in. Dor	$19.80
Indy. Butters—Salts or celery dips	
E 13379—3½ in. Doz	$1.10
Cord Dishes—	
E13380—7 in., 9½x6¾, Doz.	$23.95
Casseroles—	Doz.
E 13381—7 in. act. 8½	$26.95
Sauce Boats— Attached Stand	
E13384—6x4¼ in.	Doz $19.95

K.T.&K. S—V CHINA

"RENSHAW"

CANARY & PINK ROSE SEMI-PORCELAIN

"K. T. & K." trademarked. Light wt. semi-porcelain, plain shape, semi-translucent, pink rose sprays, olive and brown scrolls, gold scalloped edges, traced embossing, gold line inside cups and base of (OPEN STOCK) upright pieces. No Package Charge.



E14990—42 pc. set.
6 tea cups & saucers (12 pcs.)
12 plates, 6 each 5 & 7 in.
1 baker, 7 in
1 bowl, 80's.
1 dish or platter, 8 in.
6 fruits, 4 in.
1 cov'd sugar (2 pcs.)
1 cream pitcher
6 bread and butter plates
Each set about 40 lbs

SET (42 pcs.), **$9.25**

E14991—97 pc. set.
As 100A without cov'd butter (3 pcs.),
SET (97 pcs.), **$27.10**

E14992—100B pc. set.
As 100A with 12 individual butters instead of 4 in plates. Each set about 90 lbs.
SET (100 pcs.), **$27.60**

ALL DINNERWARE IN STOCK READY TO SHIP

E14993—100A pc. set.
12 teas (24 pcs.),
36 plates, 4, 6 and 7 in.
12 coupe soup plates
1 baker 7 in.
2 platters, 8 and 12 in
12 fruits, 4 in
1 sugar & creamer (4 pcs.)
1 butter (3 pcs.),
1 casserole (2 pcs.)
1 dish, 7 in. (2 pcs.)
1 sauce boat (2 pcs.),
1 pickle dish
Each set about 90 lbs

SET (100 pcs.), **$28.60**

Cups and Saucers—

	Doz.
E14800—Tea 3½x2¾, saucer 5½	$4.50

Plates—

	Doz.
E14910—4 in. act. 6¼	$2.00
E14911—5 " " 7⅛	2.25
E14912—6 " " 8¼	2.75
E14913—7 " " 9¼	3.50
E14914—8 " " 9¾	4.70
E14915—Coupe soup, 7 in., act. 7½	3.50

Bakers

	Doz.
E14924 7 in. act. 9¼	$6.00

Bowls
E14931 30's . . . Doz. $5.00

Dishes or Platters—
E14914—8 in act. 11½
Doz. $6.00
E14915—10 in act. 13⅝
Doz. $8.00
E14917—12 in act. 15¾
Doz. $15.00

Nappies or Salads
E14953—7 in., act. 8¾ $6.90
Doz.

Fruits—
E14955—4 in., act. 5¼ $1.70
Doz.

Creamers—
E14975—30's, ht. 2¾ in $6.00
Doz.

Covd Sugars—
E14977 30's, ht. 3½ in
Doz. $12.00

Covd Butters—Drainer Doz
E14978—8½ in $18.00

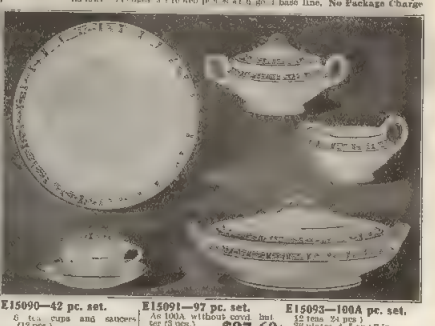
Indv Butters
E14979—3½ in. Doz. $1.00

Covd Dishes—
E14980—7 in., act Doz. $21.00

Casseroles—
E14983—7 in., act. 10 in. $24.00

Sauce Boats—Attached stand
E14984—7x3½ Doz. $18.00

Pickle Dishes
E14985—6¼x3 $6.00
Doz.



E15090—42 pc. set.
6 tea cups and saucers (12 pcs.)
12 plates, 6 each 5 & 7 in.
1 baker 7 in
1 bowl 30's
1 dish or platter 8 in
6 fruits, 4 in.
1 covd sugar (2 pcs.)
1 cream pitcher
6 only 4 in plates
1 set in carton Each set about 40 lbs
SET (42 pcs.), **$9.90**

E15091—97 pc. set.
As 100A without covd butter (3 pcs.)
SET (97 pcs.), **$27.60**

E15092—100B pc. set.
As 100A with 12 indv butters instead of 4 in. Plate Each set about 90 lbs. 1 set in bbl
SET (100 pcs.), **$28.10**

OTHER SETS We will make up any size or kind of set you may desire. Write for prices.

E15093—100A pc. set.
12 teas (24 pcs.)
36 plates, 4, 5 and 7 in
12 coupe soup plates
1 baker 7 in
2 platters, 8 and 12 in.
12 fruits, 4 in
1 sugar & creamer (3 pcs.),
1 butter (2 pcs.)
1 casserole (2 pcs.)
1 dish, 7 in. (2 pcs.),
1 sauce boat (2 pcs.),
1 pickle dish
Each set about 90 lbs 1 set in bbl
SET (100 pcs.), **$29.10**

Cups and Saucers—

	Doz.
E15090—Tea 3½x2¾, saucer 5½	$5.00

Plates—

	Doz.
E15510—4 in act. 6¼	$2.00
E15011—5 " " 7⅛	2.25
E15013—7 " " 9¼	3.50
E15014—8 " " 9¾	4.70
E15017—Coupe soup, 7 in., act 9¼	3.50

Bakers—

	Doz.
E15024—7 in. act. 9¼	$6.00

Bowls—

	Doz.
E15031—30's	$5.00

Dishes or Platters—

	Doz.
E15045—10 in., act. 11⅝	$ 6.00
E15047—12 " " 15⅛	9.00
	15.00

Nappies or Salads—

	Doz.
E15053—7 in. act. 8¾	$6.90

Fruits—

	Doz.
E15055—4 in., act. 5¼	$1.70

Creamers—

	Doz.
E15075—30's, ht. 2¾ in.	$6.00

Covd Sugars

	Doz.
E15077 30's ht. 3½ in	$12.00

Covd. Butters—Drainer

	Doz.
E15078—8½ in	$18.00

Indv Butters Salts or celery dips

	Doz.
E15079 3½ in.	$1.00

Covd Dishes—

	Doz.
E15080—7 in act. 10x5½	$21.00

Casseroles—

	Doz.
E15083—7 in., act. 9½ x8	$24.00

Sauce Boats Attached stand

	Doz.
E15084—7x3½	$18.00

Pickle Dishes—

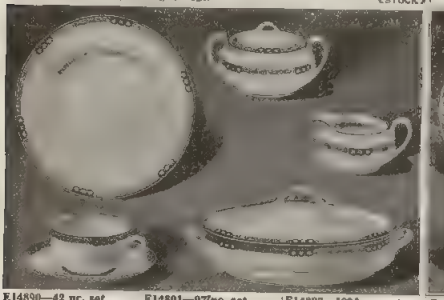
	Doz.
E15086—6½x3	$6.00

K.T.&K. S—V CHINA

"NIANA"

BLUE MEDALLION SEMI-PORCELAIN

"K. T. & K." trademarked. Light wt. semi-porcelain, plain shape, turquoise blue lace, harsh, allgrade triple pink rose & lustre sprays on black, tan edging gold line inside cups, gold edges. A favorite pattern. No Package Charges. (OPEN STOCK)



E14890—42 pc. set.
6 tea cups & saucers (12 pcs.)
12 plates, 6 each 5 & 7 in.
1 baker, 7 in.
1 bowl 30's
1 dish or platter, 8 in.
6 fruits, 4 in
1 covd sugar (2 pcs.)
1 cream pitcher
6 bread and butter plates.
Each set about 40 lbs.

SET (42 pcs.), **$9.25**

E14891—97 pc. set.
As 100A without covd butter (3 pcs.)
SET (97 pcs.), **$27.10**

E14892—100B pc. set.
As 100A with 12 indv. butters instead of 4 in plates. Each set about 90 lbs.
SET (100 pcs.) **$27.60**

SIZES We give trade and actual sizes.
Trade names of plates are—

	Bread and Butter
4 in	
5 "	Tea 7 in. Dinner
6 " Breakfast	8 " Dinner

E14893—100A pc. set.
12 teas (24 pcs.)
36 plates, 4, 5 and 7 in
12 coupe soups.
1 baker 7 in.
2 platters, 8 and 12 in
12 fruits, 4 in
1 sugar & creamer (3 pcs.
1 butter (3 pcs.),
1 casserole (2 pcs.)
1 dish, 7 in (2 pcs.)
1 sauce boat (3 pcs)
1 pickle dish
Each set about 90 lbs.

SET (100 pcs.), **$28.60**

Cups and Saucers—

	Doz.
E14800—Tea 3½x2¾ saucer 5½	$4.50
E14806—Ovide tea 3½x2¾, saucer 5¾	$4.50

Plates—

	Doz.
E14810—4 in., act. 6¼	$2.00
E14811—5 " " 7⅛	2.25
E14812—6 " " 8¼	2.75
E14813—7 " " 9¼	3.50
E14814—8 " " 9¾	4.70
E14815—Coupe soup, 7 in., act. 8¼	3.50

Bakers—

	Doz.
E14824 7 in act 9¼	$6.00

Bowls
E14831 30's . . . $5.00

Dishes or Platters—

	Doz.
E14845—8 in. 11½	$ 5.00
E14846—10 " 13⅝	9.00
E14847—12 " 15¾	15.00

Fruits—

	Doz.
E14850—4 in., act. 5¼	$1.70

Creamers—

	Doz.
E14870—30's, ht. 2¾ in	$6.00

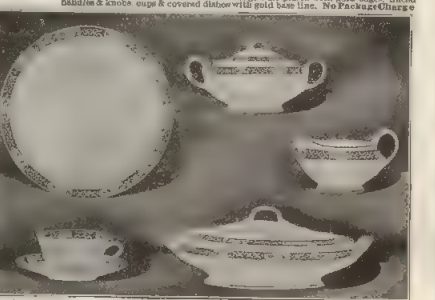
Covd. Sugars—

Covd. Butters—Drainer Doz.
E14878—8½ in $18.00

Covd. Dishes— Act. Doz.
E14880—7 in., 11¾x7 $21.00

Casseroles— Doz.
E14883—7 in., act. 10 $24.00

Sauce Boats—Attached stand.
E14884—7x3½ Doz. $18.00



E15190—42 pc. set.
6 tea cups & saucers (12 pcs.)
12 plates, 6 each 5 & 7 in.
1 baker 7 in
1 bowl 30's
1 dish or platter, 8 in.
6 fruits, 4 in.
1 covd sugar (2 pcs.)
1 cream pitcher
6 only 4 in plates.
Each set about 40 lbs. 1 set in carton.
SET (42 pcs.), **$9.90**

E15191—97 pc. set. As 100A without covd butter & cream (3 pcs.)
SET (97 pcs.), **$27.60**

E15192—100B pc. set.
As 100A pc except 12 indv butters are included instead of 4 only 4 in. plates. Each set about 90 lbs. 1 set in bbl.
SET (100 pcs. **$28.10**

BUY GOODS AS YOU NEED THEM

E15193—100A pc. set.
12 teas (24 pcs.)
36 plates, 4, 5 and 7 in
12 coupe soup plates
1 baker 7 in.
2 platters, 8 and 12 in.
12 fruits, 4 in.
1 sugar & creamer 3 pcs.,
1 butter (3 pcs.
1 casserole (2 pcs.)
1 dish, 7 in. (2 pcs.),
1 sauce boat, 2 pcs.
1 pickle dish
Each set about 90 lbs. 1 set in bbl
SET (100 pcs.), **$29.10**

Cups and Saucers—

	Doz.
E15100—Tea 3½x2¾, saucer 5½	$5.00

Plates—

	Doz.
E15110—4 in. act. 6¼	$2.10
E15111—5 " " 7⅛	2.25
E15112—6 " " 8¼	2.75
E15113—7 " " 9¼	3.50
E15114—8 " " 9¾	4.70
E15117—Coupe soup, 7 in., act 8¼	3.50

Bakers

	Doz.
E15124—7 in. act 9¼	$6.00

Dishes or Platters—

	Doz.
E15145—10 in., act. 13⅝	$ 6.00
E15147—12 in., act. 15¾	9.00
	15.00

Nappies or Salads—

	Doz.
E15153—7 in. act. 8¾	$6.90

Fruits—

	Doz.
E15155—4 in., act. 5¼	$1.70

Creamers—

	Doz.
E15175—30's, ht. 3 in.	$6.00

Covd. Butters—Drainer.
E15178—8½ in Doz. $18.00

Indv. Butters—Salts or celery dips.
E15179—3½ in. Doz. $1.00

Covd. Dishes
E15180—7 in., act. 10½x6½ Doz. $21.00

Casseroles—
E15183—7 in., act 9½x8 Doz. $24.00

Sauce Boats—Attached stand.

K.T.&K. S—V CHINA

"POWHATAN"

IVORY & BLACK PANEL BORDER SEMI-PORCELAIN

"K. T. & K." trademarked. Light wt. semi-porcelain, English bone china shape, fine wide oriental border black & ivory panels, rosebuds and green & blue inlaid motifs between tan edges, all pieces with gold edges, traced handles & knobs, cups & covered dishes with gold base line. No Package Charge (OPEN STOCK)

E14890—42 pc. set.
6 tea cups & saucers
12 plates, 6 each 5 & 7 in.
1 baker, 7 in.
1 bowl 30's
1 dish or platter, 8 in.
6 fruits, 4 in
1 covd sugar (2 pcs)
1 cream pitcher
6 bread and butter plates.
Each set about 40 lbs.

SET (42 pcs.), **$9.25**

E14891—97 pc. set.
As 100A without covd butter (3 pcs.)
SET (97 pcs.), **$27.10**

E14892—100B pc. set.
As 100A with 12 indv. butters instead of 4 in plates. Each set about 90 lbs.
SET (100 pcs.) **$27.60**

SIZES We give trade and actual sizes.
Trade names of plates are—

	Bread and Butter
4 in	
5 "	Tea 7 in. Dinner
6 " Breakfast	8 " Dinner

E14893—100A pc. set.
12 teas (24 pcs.)
36 plates, 4, 5 and 7 in
12 coupe soups.
1 baker 7 in.
2 platters, 8 and 12 in
12 fruits, 4 in
1 sugar & creamer (3 pcs.
1 butter (3 pcs.),
1 casserole (2 pcs.)
1 dish, 7 in (2 pcs.)
1 sauce boat (3 pcs)
1 pickle dish
Each set about 90 lbs.

SET (100 pcs.), **$28.60**

Cups and Saucers—

	Doz.
E14800—Tea 3½x2¾ saucer 5½	$4.50
E14806—Ovide tea 3½x2¾, saucer 5¾	$4.50

Plates—

	Doz.
E14810—4 in., act. 6¼	$2.00
E14811—5 " " 7⅛	2.25
E14812—6 " " 8¼	2.75
E14813—7 " " 9¼	3.50
E14814—8 " " 9¾	4.70
E14815—Coupe soup, 7 in., act. 8¼	3.50

Bakers—

	Doz.
E14824 7 in act 9¼	$6.00

Bowls
E14831 30's . . . $5.00

Dishes or Platters—

	Doz.
E14845—8 in. 11½	$ 5.00
E14846—10 " 13⅝	9.00
E14847—12 " 15¾	15.00

Fruits—

	Doz.
E14850—4 in., act. 5¼	$1.70

Creamers—

	Doz.
E14870—30's, ht. 2¾ in	$6.00

Covd. Sugars—

Covd. Butters—Drainer Doz.
E14878—8½ in $18.00

Covd. Dishes— Act. Doz.
E14880—7 in., 11¾x7 $21.00

Casseroles— Doz.
E14883—7 in., act. 10 $24.00

Sauce Boats—Attached stand.
E14884—7x3½ Doz. $18.00

E15190—42 pc. set.
6 tea cups & saucers (12 pcs.)
12 plates, 6 each 5 & 7 in.
1 baker 7 in
1 bowl 30's
1 dish or platter, 8 in.
6 fruits, 4 in.
1 covd sugar (2 pcs.)
1 cream pitcher
6 only 4 in plates.
Each set about 40 lbs. 1 set in carton.
SET (42 pcs.), **$9.90**

E15191—97 pc. set. As 100A without covd butter & cream (3 pcs.)
SET (97 pcs.), **$27.60**

E15192—100B pc. set.
As 100A pc except 12 indv butters are included instead of 4 only 4 in. plates. Each set about 90 lbs. 1 set in bbl.
SET (100 pcs. **$28.10**

BUY GOODS AS YOU NEED THEM

E15193—100A pc. set.
12 teas (24 pcs.)
36 plates, 4, 5 and 7 in
12 coupe soup plates
1 baker 7 in.
2 platters, 8 and 12 in.
12 fruits, 4 in.
1 sugar & creamer 3 pcs.,
1 butter (3 pcs.
1 casserole (2 pcs.)
1 dish, 7 in. (2 pcs.),
1 sauce boat, 2 pcs.
1 pickle dish
Each set about 90 lbs. 1 set in bbl
SET (100 pcs.), **$29.10**

Cups and Saucers—

	Doz.
E15100—Tea 3½x2¾, saucer 5½	$5.00

Plates—

	Doz.
E15110—4 in. act. 6¼	$2.10
E15111—5 " " 7⅛	2.25
E15112—6 " " 8¼	2.75
E15113—7 " " 9¼	3.50
E15114—8 " " 9¾	4.70
E15117—Coupe soup, 7 in., act 8¼	3.50

Bakers

	Doz.
E15124—7 in. act 9¼	$6.00

Dishes or Platters—

	Doz.
E15145—10 in., act. 13⅝	$ 6.00
E15147—12 in., act. 15¾	9.00
	15.00

Nappies or Salads—

	Doz.
E15153—7 in. act. 8¾	$6.90

Fruits—

	Doz.
E15155—4 in., act. 5¼	$1.70

Creamers—

	Doz.
E15175—30's, ht. 3 in.	$6.00

Covd. Butters—Drainer.
E15178—8½ in Doz. $18.00

Indv. Butters—Salts or celery dips.
E15179—3½ in. Doz. $1.00

Covd. Dishes
E15180—7 in., act. 10½x6½ Doz. $21.00

Casseroles—
E15183—7 in., act 9½x8 Doz. $24.00

Sauce Boats—Attached stand.

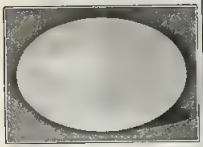
CROCKERY

"PERFECTION" WHITE WARE

Made by Homer Laughlin China Co., Knowles, Taylor & Knowles and Edw. M. Knowles China Co. Made of best quality clay, producing a semi-vitreous ware, clear bone white color, white glaze. Standard shapes and sizes. Open stock, sold in any quantity. **No Package Charge.**

ST. DENIS TEAS—Regular coffee, so-called ten, handled, 11 oz. standard size.
E10200—Cup and saucer....Doz. **$1.75**

PLATES—
E10220—6 in., act. 6½ .. Doz. **$0.84**
E10221 8 " " 7 ..... " **.96**
E10223—7 " " 9 ..... " **1.47**

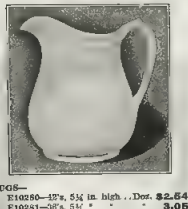


PLATTERS—
E10222—8 in., act. 11½x7½..Doz. **$2.00**
E10224—10 " " 13x8½ ... " **3.95**

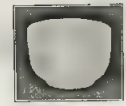
FRUITS—
E10290—4 in., act. 4¾ Doz **$0.68**

OYSTER BOWLS—
E10240—30's, 6x2.. Doz **$2.16**

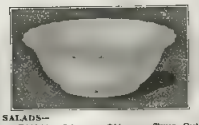
BAKERS—
E10234—6 in., act. 7¾x5¾ .Doz **$2.15**
E10233 7 " " 8½x6½ Temp. Out
E10235—8 " " 9½x7 Doz. **$3.88**



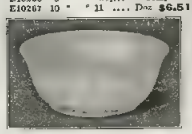
JUGS—
E10260—42's, 5¾ in. high ..Doz. **$2.64**
E10261—36's, 5¾ " " " **3.05**
E10262—30's, 7 " " " **3.46**
E10264—18's, 9 " " Temp. Out
E10265—6's, 9¾ " " Doz. **$8.60**



ST. DENIS BOWLS—
E10241—30's, 5¾x3 Doz. Out



SALADS—
E10263—6 in., sc. 7¾ Temp. Out
E10265—8 " " 9 .. Temp. Out
E10266—9 " " 9½... Temp. Out
E10267 10 " " 11 .... Doz. **$6.51**



FLUTED SALADS—
E10271—5 in., act. 6½ Doz **$1.73**
E10272—6 " " 6½ Temp. Out
E10273—7 " " 8½ Doz. **$2.60**
E10274—8 " " 9½ " **3.88**
E10275—9 " " 10½ " **5.00**
E10276—10 " " 10½ " **7.14**

PLAIN TOILET WARE

CHAMBERS, 9's—
E10382—Covered Doz **$10.76**

FANCY TOILET WARE

EWERS—
E10 01 " Doz **$11.78**

COVD. COMBINETS
E10391—With ball, bl. without cover 10½ in .... Doz

COVD. CHAMBERS—
E10393 " " Doz. **$10.76**

"ADMIRAL" "Pope-Gosser" trademarked.

Light wt. white highly glazed semi porcelain, selected thirds, gold hairline bands, edges and striped handles, rich Edgemere shape, subject to slight imperfections

Open stock, sold in any quantity **No Package Charge.**

DINNER SETS

E17795—32 piece set.
Shipping weight about 80 lbs SET. **$3.70**

E17796—42 piece set.
Shipping weight about 90 lbs.. SET. **$5.38**

E17796—50 piece set.
Shipping weight about 80 lbs SET. **$7.50**

E17793—100 piece set.
Shipping weight about 90 lbs SET **$15.55**

OPEN STOCK

CUPS AND SAUCERS—
E17705—Tea 3¼x2 in. saucer 5¾ Doz **$2.48**

PLATES—
E17710—4 in. act 4 Doz **$1.10**
E17711—6 " " 6 " **1.29**
E17712—8 " " 8 " **1.47**
E17713—" " 9 " **1.61**
E17717—6 in. soup, 7 in., act. 6¾ Doz **$1.61**

BAKER—
E17724—7 in., act 9¾ Doz **$3.30**

BOWL—
E17731—30's Doz. **$2.75**

PLATTERS—
E17743—8 in., act 10½ .Doz **$3.68**
E17745—10 " " 12½ " **6.22**
E17747—13 " " 14½ " **9.36**

SALAD—
E17752—7 in., act 9½ Doz. **$3.30**

FRUIT
E17760—4 in. act. 4¾....Doz. **$0.83**

OATMEAL—
E17765 6's Doz **$1.71**

CREAMER—
E17770—30 s " Doz. **$3.30**

COVERED SUGAR—
E17777—30's... ....Doz. **$6.60**

COVERED BUTTER—With drainer
E17778— Doz **$9.90**

COVERED DISH Oval
E17780 7 in Doz. **$13.20**

CASSEROLE Round
E17781 7 in Doz. **$13.20**

SAUCE BOAT—Without stand
E17785 6 x3 in Doz. **$4.40**

PICKLE DISH
E17786—8½x5 in Doz. **$3.30**

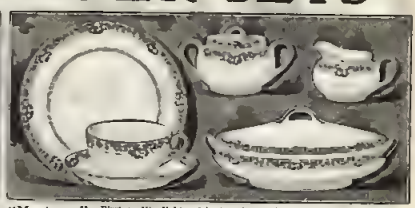
IMPORTED DINNER SETS

"Woodmere"—Trademarked. Light weight translucent china. Large sprays of dainty pink wild flowers, green foliage background, wide edges, gold striped handles and knobs. No Package Charge.

R30293—100 piece set—

12 tea cups, 12 saucers, 12 plates, 6 in., 12 plates, 7 in., 12 plates, 8 in., 1 baker, 7 in., 1 platter, 8 in., 1 platter, 12 in., 1 sauce boat (2 pcs.), 1 creamer, 1 covd. sugar (2 pcs.), 1 butter dish (3 pcs.), 1 casserole (3 pcs.), 1 covd. dish, 7 in. (2 pcs.), 1 sauce boat (2 pcs.), 1 pickle dish.

SET (100 pcs.) **$26.95**



"Monterey"—First quality light weight translucent china, plain shape, hand painted pink rose bouquets and scroll between gold lines, pastel lavender medallions, coin gold half matte handles and knobs, gold lines on sugar, creamer, covered dishes and cups. No Package Charge.

R42286—100 piece set—

12 tea cups, 12 saucers, 12 plates, 6 in., 12 plates, 8 in., 1 platter, 12 in., 1 baker, 7 in., 1 platter, 8 in., 1 casserole (2 pcs.), 1 covd. dish, 7 in. (3 pcs.), 1 sauce boat, 2 pcs., 1 pickle dish, 1 butter (3 pcs.), 1 creamer, 1 pcs., 1 covd. dish, 7 in. (3 pcs.), 1 sauce boat, 2 pcs., 1 pickle dish.

SET (100 pcs.) **$45.00**

"Coronado"—[illegible] No Package Charge.

R30593—100 piece set—

[illegible] 1 baker, 7 in., 1 platter, 8 in., 1 [illegible], 1 butter dish (3 pcs.), 1 casserole (3 pcs.), 1 covd. dish, 7 in. (3 pcs.), 1 sauce boat, 1 pickle dish.

(100 pcs.) **$36.00**

"Rosmarin"—Trademarked. First quality, pure white light weight, hand painted china, dainty rose and daisy border and spray with connecting vines with gold edges, inner verge line, half matte handles on holloware and upright pieces. No Package Charge.

R41493—100 piece set—

[illegible] 1 baker, 7 in., 1 platter, 8 in., 1 platter, 12 in., 1 [illegible], 1 butter dish (3 pcs.), 1 casserole (2 pcs.), 1 covd. dish, 7 in. (3 pcs.), 1 sauce boat, 1 pickle dish.

SET (100 pcs.) **$49.50**

"Beverly"—[illegible] No Package Charge.

R31693—100 piece set—

13 tea cups, [illegible] saucers, [illegible] plates, 6 in., [illegible] plates, 7 in., [illegible] plates, 8 in., [illegible] fruits, 4 in., [illegible] soup bowls, 1 baker, 7 in., 1 platter, 8 in., 1 platter, 12 in., 1 sauce boat (2 pcs.), 1 creamer, 1 covd. sugar (2 pcs.), 1 butter dish (3 pcs.), 1 [illegible], 1 casserole (3 pcs.), 1 covd. dish, 7 in. (2 pcs.), 1 sauce boat (2 pcs.), 1 pickle dish.

Shipping weight about 90 lbs. SET (100 pcs.) **$42.50**

"Coronet"—Trademarked. Extra fine light weight translucent china, plain shape, [illegible] handles and knobs, gold case line on upright pieces. No Package Charge.

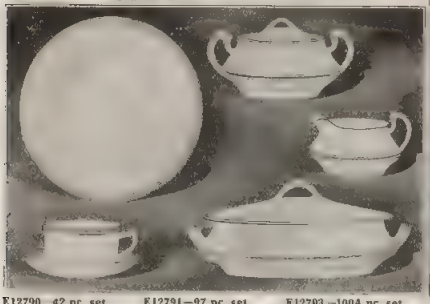
R31693—100 piece set—

12 teas (64 pcs.), [illegible] 6 platters, 8 and 12 in., 12 fruits, 4 in., 12 cups and saucers, [illegible] pcs.), 1 baker, 7 in., 1 butter [illegible] pcs.), 1 [illegible] pcs.), 1 [illegible] pcs.), 1

"YALE"
HOMER LAUGHLIN

BLUE BAND & GOLD LINE SEMI-PORCELAIN (OPEN STOCK)

trademarked. Light weight American semi-porcelain, most pleasing shapes, wide blue band, inner gold line and edges. No Package Charge.



E12790—42 pc. set.
6 tea cups & saucers (12 pcs.)
12 plates, 6 each 5 & 7 in.
1 baker, 7 in.
1 cov. sugar
1 pitcher, 8 in.
1 cream
1 cov. sugar (2 pcs.)
1 creamer
6 fruits, 4 in.
1 set in carton, about 40 lbs.
SET 42 pcs. **$6.75**

E12791—97 pc. set.
As 790 with 12 cups & saucers
SET 97 pcs. **$18.50**

E12792—100B pc. set.
As 790A with 12 finds, butters, cups & saucers, 7 in. plates. Each set in bbl., about 90 lbs.
SET 100 pcs. **$18.80**

NO CHARGE ON PACKAGE OR CARTAGE

E12793—100A pc. set.
12 tea cups & saucers
12 plates, 5 and 7 in.
1 cov. sugar
1 baker, 7 in.
1 pitcher, 8 and 12 in.
12 fruits, 4 in.
1 cov. sugar and creamer (3 pcs.)
1 butter (3 pcs.)
1 casserole (2 pcs.)
1 dish, 7 in. (2 pcs.)
1 sauce boat (2 pcs.)
1 pickle dish
1 set in bbl., about 90 lbs.
SET 100 pcs. **$19.50**

E12690—42 pc. set.
6 tea cups and saucers
12 plates, 6 each 5 & 7 in.
1 baker, 7 in.
1 bowl, 9½ in.
1 dish or platter, 8 in.
6 fruits, 4 in.
1 cov. sugar (2 pcs.)
1 cream pitcher
6 bread and butter plates
1 set, about 40 lbs.
SET (42 pcs.) **$7.15**

E12691—97 pc. set.
As 690 with 12 cups & saucers
SET 97 pcs. **$18.95**

E12692—100B pc. set.
As 690A with 12 finds, butters instead of 6 in. plates. Each set, about 90 lbs.
SET 100 pcs. **$19.25**

ALL DINNERWARE IN STOCK READY TO SHIP

E12693—100A pc. set.
12 tea cups & saucers
12 plates, 5 and 7 in.
1 cov. sugar
1 creamer
1 butter (3 pcs.)
1 casserole (2 pcs.)
1 dish, 7 in. (2 pcs.)
1 sauce boat (2 pcs.)
1 pickle dish
1 set, about 90 lbs.
SET (100 pcs.) **$19.95**

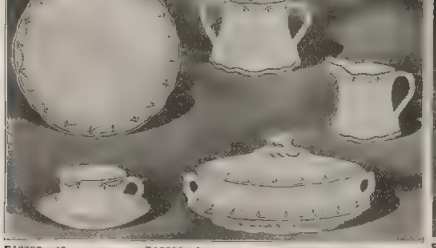
Cups and Saucers
E12700—Tea 3 x 2 saucer 5⅞ Doz. $3.10
Plates
E12710—4 in., act. 6 Doz. $1.40
E12711—5 " 7 " 1.65
E12712—6 " 8 " 1.95
E12713—7 " 9 " 2.45
E12717—Coupe soup, 7 in., act. 8 Doz. $2.45
Bakers
E12724—7 in. sqr. 9x9½ Doz. $4.20
Bowls
E12731—6½ in. act. 5 x3¾ Doz. $3.50

Dishes or Platters
E12743—8 in. act. 11x8¾ Doz. $3.75
E12745—10 in. act. 14x10¾ Doz. $6.75
E12747—12 in. act. 16x12 10½ Doz. $11.25
Fruits
E12760—4 in., act. 5½ Doz. $1.05
Nappies or Salads
E12782—7 in. act. 8¾ Doz. $4.20
Oatmeals
E12785—30 oz. act. 6 in. Doz. $2.20
Creamers
E12726—30's ht. 3⅝ in. Doz. $4.20

Sugars
E12777—30's ht. 3 in. Doz. $8.40
Cov'd. Butters—Drainer
E12778—5½ in. Doz. $12.60
Indv. Butters—
E12779—3 in. Doz. 70c
Cov'd. Dishes
E12780—7 in. act. 8 Doz. $14.70
Casseroles
E12783—7 in. act. 9 Doz. $16.80
Sauce Boats—Attached stand
E12785—8¼x3¾, Doz. $5.60
Pickle Dishes—
E12786—8¾x5½ Doz. $3.40

"SHEFFIELD"
WHITE AND GOLD SEMI-PORCELAIN DINNERWARE (OPEN STOCK)

Plain white shape, delicate festoon embossed upper border, floral dishes, under ornament and 3 other borders, fine gold line and handles and knobs are fired. No Package Charge.



E12290—42 pc. set.
6 tea cups & saucers (12 pcs.)
12 plates, 6 each 5 & 7 in.
1 baker, 7 in.
1 bowl, 9½ in.
1 dish or platter, 8 in.
6 fruits, 4 in.
1 cov. sugar (2 pcs.)
1 cream pitcher
6 bread & butter plates.
Each set about 40 lbs.
SET 42 pcs. **$6.85**

E12291—97 pc. set.
As 290 with 12 cups & saucers
SET 97 pcs. **$18.70**

E12292—100B pc. set.
As 1690A with 12 finds, butters instead of 6 in. plates. Each set in bbl., about 90 lbs.
SET 100 pcs. **$19.05**

Buy by Mail and Save Money

E12293—100A pc. set.
12 tea cups & saucers
12 plates, 5 and 7 in.
1 cov. sugar
1 baker, 7 in.
1 dish or platter, 8 in.
12 fruits, 4 in.
1 sugar and creamer, 3 pcs.
1 butter, 3 pcs.
1 casserole, 2 pcs.
1 dish, 7 in., 2 pcs.
1 sauce boat, 2 pcs.
1 pickle dish
Each set about 90 lbs.
SET 100 pcs. **$19.75**

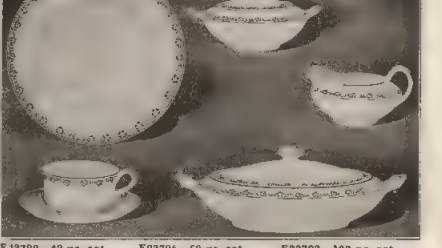
Cups and Saucers—
E12200—Tea 3 x 2½, saucer 5⅞ Doz. $3.10
E12203—Coupe tea, 3 x 2½, saucer 5⅞ Doz. $3.70
Plates
E12210—4 in., act. 6 Doz. $1.40
E12211—5 " " 7 " 1.60
E12212—6 " " 8 " 1.95
E12213—7 " " 9 " 2.45
E12214—8 " " 10½ 3.00
E12216—Deep soup, 7 in., act. 8 Doz. $2.60
Bowls—

Dishes or Platters— Doz.
E12243—8 in. act. 11 x 8¾ $3.75
E12245—10 in. act. 14 x 10¾ 6.75
E12247—12 in. act. 16 x 12 11.25
Creamers—
E12726—30's ht. 3⅝ in. $4.20
Sugar Bowls—Covers Doz.
E12477—30's ht. 3½ in. $8.40
Cov'd. Butters— Doz.
E12278—Act. 5½ in. $12.60
Bakers— Doz.
E12723—7 in. thick, act. 9 $4.20
Bowls—
E12282—6½ x 3¾, Doz. $5.60

Nappies or Salads— Doz.
E12282—7 in. act. 8¾ $4.20
Fruits— Doz.
E12260—4 in. act. 5¾ $1.05
Cov'd. Dishes— Doz.
E12280—7 in. 9½ x 7 $15.00
Casseroles Doz.
E12283—7 in. x 2½ in. $18.00
Sauce Boats—Without stand
E12285—8¼x3¾, Doz. $5.60

"PINEWOOD"
GOLD STAMPED BORDER SEMI-PORCELAIN (OPEN STOCK)

"National China Co." trademarked. Fine quality pure white, glazed light weight, gold stamped, variations and figure border, gold edges, gold striped handles. No Package Charge.



E23790—42 pc. set.
6 tea cups & saucers (12 pcs.)
12 plates, 6 each 5 & 7 in.
1 baker, 7 in.
1 cov. sugar (2 pcs.)
1 cream pitcher
6 bread & butter plates
Each set about 40 lbs.
SET 42 pcs. **$6.95**

E23791—97 pc. set. As 100 pc. set without cov'd. butter (3 pcs.) SET 97 pcs. **$19.50**

E23796—50 pc. set.
6 tea cups & saucers (12 pcs.)
6 plates, 6 each 5 & 7 in.
1 cov. sugar
1 baker, 10 in.
1 dish or platter, 10 in.
6 fruits, 4 in.
1 cov'd sugar (2 pcs.)
1 cream pitcher
1 bowl, 6 in. (2 pcs.)
Each set about 48 lbs.
SET 50 pcs. **$9.65**

E23793—100 pc. set.
12 tea cups & saucers
12 plates, 5 and 7 in.
12 coupe soup plates
1 baker, 10 in.
2 platters, 8 and 12 in.
12 fruits, 4 in.
1 sugar & creamer (3 pcs.)
1 butter (3 pcs.)
1 casserole (2 pcs.)
1 dish, 7 in. (2 pcs.)
1 sauce boat (2 pcs.)
1 pickle dish
Each set about 90 lbs.
SET 100 pcs. **$20.75**

Cups and Saucers
E23700—Cup & saucer 3⅛ x 2¾ Doz. $3.50
Plates— Doz.
E23711—4 in., act. 6 $1.40
E23712—5 " " 7 1.60
E23713—6 " " 8 1.95
E23714—7 " " 9 2.30
E23715—8 in., coupe, act. 7 3.00
Bakers—
E23716—7 in. act. 9 x 9 $4.20

Dishes or Platters— Doz.
E23725—8 in. act. 11 x 8¾ $4.80
E23726—10 in. " 14 x 10¾ 8.40
E23727—12 " " 15 x 12 12.60
Fruits
E23760—4 in. act. 5¾ $1.15
Creamers Doz.
E23776—30's, 4¼ in. $4.20

Cov'd. Butters Doz.
E23778—5 in. act. 6 $12.60
Indv. Butters
E23779—3 in. 70c
Cov'd. Dishes
E23780—7 in. act. 9 $14.70
Casseroles—
E23783—7 in. act. 9 $16.80
Sauce Boats—Attached stand
E23785—8¼x3¾ Doz. $5.60
Pickle Dishes—
E23786—8¾x5½ $2.80

Bakers— Doz.
E23724—7 in. act. 8¾ $4.20
Bowls—
E23731—5 in. Doz. $3.50
Dishes or Platters— Doz.
E23743—8 in. act. 11¼ x 8¾ $3.75
E23745—10 in. act. 14 x 10¾ 6.75
E23747—12 in. act. 16 x 12 11.25
Fruits
E23760—4 in. act. 5¾ $1.12
Cov'd. Sugars—
E23777—30's ht. 3¾ in. $8.40
Creamers Doz.
E23776—30's ht. 3⅝ in. $4.20
Cov'd. Butters—Drainer Doz.
E23778—5½ in. $12.60
Indv. Butters—
E23779—3 in. 70c
Cov'd. Dishes Doz.
E23780—7 in. act. 9 $14.70
Casseroles—
E23783—7 in. act. 9 $16.80
Sauce Boats—Without stand
E23785—8 in. Doz. $5.60

"HAWTHORNE"

BLUE & GOLD EDGE DECORATED SEMI-PORCELAIN (OPEN STOCK)

"National China Co." trademarked. First quality, light weight, pure white, highly glazed plain mold, attractive blue band edge, inner gold hairline, gold ornamented handles and knobs

E23990—42 pc. set.

6 tea cups & saucers (12 pcs.)
12 plates, 6 each 5 & 7 in.
1 baker, 7 in.
1 bowl, 8½ in.
1 dish or platter, 8 in.
6 fruits, 4 in.
1 cov'd. sugar (2 pcs.).
1 cream pitcher.
6 bread & butter plates.
Each set about 40 lbs.

SET (42 pcs.), **$7.20**

E23996—50 pc. set.

8 tea cups & saucers (12 pcs.)
18 plates, 6 each 4, 5 & 7 in.
6 coupe soups.
1 baker, 7 in.
1 bowl, 9½ in.
1 dish or platter, 10 in.
6 fruits, 4 in.
1 cov'd. sugar (2 pcs.).
1 cream pitcher.
2 cov'd. dish 7 in. (2 pcs.).
Each set about 48 lbs.

SET (50 pcs.), **$10.25**

E23993—100 pc. set.

12 teas (24 pcs.)
36 plates, 4, 5 and 7 in.
12 coupe soup plates.
1 baker, 7 in.
2 platters, 8 and 12 in.
12 fruits, 4 in.
1 sugar & creamer (3 pcs.)
1 butter (3 pcs.)
1 casserole (2 pcs.)
1 dish, 7 in. (2 pcs.).
1 sauce boat (2 pcs.
1 pickle dish.
Each set about 90 lbs

SET (100 pcs.), **$20.95**

E23991—97 pc. set. As 100 pc. set, without cov'd. butter (3 pcs.) . . . . SET (97 pcs.), **$19.85**

Cups and Saucers—		Doz.
E23992—Ovide 3½ in. sauce		$2.95
Plates—		Doz.
E23910—4 in., act. 6		$1.45
E23911—5 " " 6		1.65
E23916—6 " " 6		2.00
E23913—7 " " 9		2.55
E23914—8 " " 9½		3.10
E23915—9 in. coupe, act. 7		2.00
E23916—7 in. deep, act. 9		2.30
Bakers		Doz.
E23924—7 in., act. 9½		$4.35

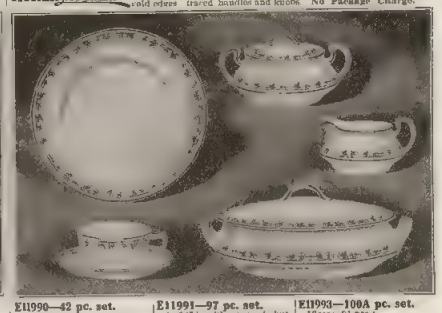
Bowls—	Doz.
E23931 30's act. 5½	$2.90
Dishes or Platters—	Doz.
E23945—8 in. act. 11	$2.65
E23947—10 " " 15	11.00
Nappies or Salads—	Doz.
E23933—7 in., act. 9	$4.35
Fruits—	Doz.
E23900—4 in., act. 5½	$1.00
Oatmeals—	Doz.
E23960—36's, act. 5 in	$2.00
Cov'd Sugars—	Doz.
E23977—5½ in.	$9.70
Creamers—	Doz.
E23976—30's 4½ in.	$4.35

Cov'd Butters—	Doz.
E23974 6 in	$13.00
Indv. Butters—	Doz.
E23979—3½ in.	70c
Cov'd Dishes—	Doz.
E23983—7 in., act. 9½	$15.20
Casseroles—	Doz.
E23983—7 in., act. 9½	$17.40
Sauce Boats—Without stand	Doz. $8.80
Pickle Dishes—	Doz.
E23980—6½ in.	$4.10

"BRISTOL"

PINK & BLUE FLORAL SEMI-PORCELAIN (OPEN STOCK)

HOMER LAUGHLIN trademarked. Light weight semi-porcelain, first selection delicate green lined border with floral medallion, pink rose clusters, gold edges, traced handles and knobs. No Package Charge.



E11990—42 pc. set.

6 tea cups & saucers (12 pcs).
12 plates 6 each 5 & 7 in.
1 baker 7 in.
1 bowl, 9½ in.
1 dish or platter, 8 in.
6 fruits, 4 in.
1 cov'd sugar (2 pcs.).
1 cream pitcher.
6 bread & butter plates.
Each set about 40 lbs.

SET (42 pcs.), **$8.95**

E11991—97 pc. set.

As 100A without cov'd. butter (3 pcs.)
SET (97 pcs.), **$24.15**

E11992—100B pc. set.

As 100A with 12 indv. butters instead of 4 in plaids. Each set about 90 lbs.
SET (100 pcs. **$24.60**

SAVE MONEY BUY BY MAIL

E11993—100A pc. set.

12 teas (24 pcs.)
36 plates, 4, 5 & 7 in.
12 coupe soup plates.
1 baker 7 in.
2 platters, 8 and 12 in.
12 fruits, 4 in.
1 sugar and creamer (3 pcs.)
1 butter (3 pcs.)
1 casserole (2 pcs.)
1 dish, 7 in. (2 pcs.).
2 sauce boats (2 pcs.)
1 pickle dish.
Each set about 90 lbs

SET (100 pcs.), **$25.50**

Cups and Saucers—	Doz.
E11990—Tea 3¾x2½, saucer 5½	$3.95
E11992—Ovide tea 3¾x2½, saucer 5¾	$3.96
Plates—	Doz.
E11910—4 in., act. 6	$1.80
E11911—5 " " 7	2.20
E11915—8 " " 8	2.50
E11913—7 " " 9	3.15
E11914—8 " " 9½	3.25
E11917 Coupe soup, 7 in. act. 8¼	$3.15
Bakers	Doz.
E11924—7 in., act 8½	$5.40
Bowls	
E11931—30's	Doz. $4.50

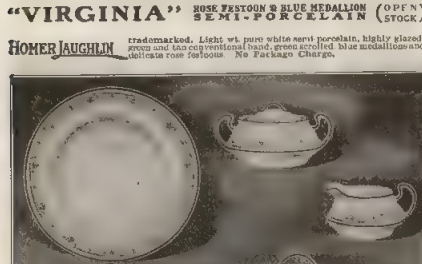
Dishes or Platters—	Doz.
E11945—8 in., act. 11	$4.75
E11945—10 in., act. 13½	6.40
E11947—12 in., act. 15½	10.80
Nappies or Salads—	Doz. $14.00
E11965—7 in. act. 9½	Doz. $5.40
Fruits	Doz.
E11900—4 in., act. 5½	$1.40
Oatmeals—	Doz.
E11960—36's	$2.85
Creamers—	Doz.
E11976—30's, ht. 2½ in.	$5.25
Cov'd Sugars—	Doz.
E11977—30's, ht. 3¼ in.	$10.80

Cov'd Butters—Dec'r	
E11978—7½ in.	Doz. $16.20
Indv. Butters—Or celery dips.	
E11979—3½ in...	Doz 90c
Cov'd. Dishes—	
E11983—7 in., act. 9½ in	Doz $18.20
Casseroles—	
E11988—7 in., act. 9½	Doz. $21.60
Sauce Boats—Attached stand.	
E11984—6¾x3¼ in.	Doz. $16.20
Pickle Dishes—	Doz.
E11986—8¾x5½ in.	$5.40

"VIRGINIA"

ROSE FESTOON & BLUE MEDALLION SEMI-PORCELAIN (OPEN STOCK)

HOMER LAUGHLIN trademarked. Light wt. pure white semi-porcelain, highly glazed ivory and tan colored conventional band, green scroll, blue medallions and delicate rose festoons. No Package Charge.



E12890—42 pc. set.

6 tea cups & saucers (12 pcs.)
12 plates 6 each 5 & 7 in.
1 baker 7 in.
1 bowl 9½ in.
1 dish or platter, 8 in.
6 fruits 4 in.
1 cov'd sugar (2 pcs.)
1 cream pitcher
6 bread and butter plates
Each set, about 40 lbs

SET (42 pcs.) **$8.95**

E12891—97 pc. set. As 100A without cov'd butter (3 pcs.).

SET (97 pcs.), **$21.40**

E12896—50 pc. set.

8 tea cups and saucers (16 pcs.)
18 plates 6 each 5 and 7 in.
6 coupe soups 6 fruits
1 10 in bowl 1 7 in nappy
1 10 in dish 1 creamer
1 sugar bowl 1 cov'd. dish
Each set about 45 lbs

SET (50 pcs.), **$11.00**

E12892 100B pc. set. As 100A with 12 indv butters instead of 4 in plates. Each set about 90 lbs.

SET (100 pcs.), **$21.80**

E12893—100A pc. set.

12 teas (24 pcs.)
36 plates, 4, 5 and 7 in.
12 coupe soup plates.
1 baker 7 in.
2 platters 8 and 12 in
12 fruits, 4 in
1 sugar & creamer (3 pcs.)
1 butter 3 pcs
1 dish 7 in. (2 pcs.
1 sauce boat (2 pcs.)
1 pickle dish.
Each set about 90 lbs

SET (100 pcs.), **$22.60**

Cups and Saucers—	
E12900—Tea 3¾x2¾, saucer 5¾	Doz. $3.50
E14802 Ovide 5 oz. 3¼x3¼, saucer 5¾	$3.60
Plates—	Doz.
E12910—4 in. act. 6	$1.20
E12911—5 " " 7	1.50
E12915—8 " " 8	2.20
E12913—7 " " 9	2.80
E12914—8 " " 9½	3.40
E12917 Coupe soup 7 in. act. 8¼	2.80

Bowls—	Doz.
E12931—30's	$4.00
Dishes or Platters—	Doz.
E12848—8 in. 11¼	$4.50
E12845—10 " 13½	8.10
E12847—12 " 15¼	13.50
Nappies—	Doz.
E12955—7 in. act. 8½	$4.00
Fruits—	Doz.
E12930—4 in. act. 5¼	$1.20
Oatmeal—	Doz.
E12960—36's, 5½ act. 6	$2.50

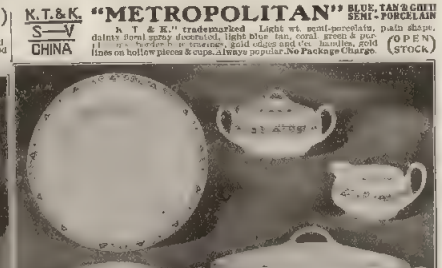
Cov'd. Sugars—	Doz.
E12877—30's, ht. 3¼ in.	$9.80
Cov'd. Butters—Drabber.	
E12879—7¼ in. Doz.	$14.40
Indv. Butters—Salts or celery dips.	
E12879—3½ in.	Doz. 80c
Cov'd. Dishes— Arc.	Doz
E12983—7 in. 7¼x5	$16 80
Casseroles—	Doz.
E12983—7 in. act. 9½	$19.20
Sauce Boats—Without stand	Doz. $6.50
E12885—7x4½	

K. T. & K. S—V CHINA

"METROPOLITAN"

BLUE, TAN & GREEN SEMI-PORCELAIN

K T & K." trademarked Light wt. semi-porcelain, plain shape, dainty floral spray decorated, light blue tan, coral green & blue tints, [illegible] border [illegible] gold edges and handles, gold lines on hollow pieces & cups. Always popular. No Package Charge. (OPEN STOCK)



E14790—42 pc. set.

6 tea cups & saucers (12 pcs.)
12 plates, 6 each 5 & 7 in.
1 baker 7 in.
1 bowl 9½ in.
1 dish or platter, 8 in
6 fruits, 4 in
1 cov'd sugar (2 pcs. .
1 cream pitcher
6 bread and butter plates
Each set in carton, about 40 lbs.

SET 42 pcs.,, **$9.25**

E14791—97 pc. set.

As 100A without cov'd. butter 3 pcs.
SET (97 pcs.) **$27.10**

E14792—100B pc. set.

As 100A with 12 indv butters instead of 4 in plates. Each set about 90 lbs

SET 100 pcs **$27.60**

OTHER SETS We will make up any size or kind of set you may desire. Write for prices

E14793—100A pc. set.

12 teas (24 pcs.)
36 plates, 4, 5 and 7 in
12 coupe soup plates
2 platters 8 and 13 in
12 fruits 4 in.
1 sugar & creamer (3 pcs.).
1 butter (3 pcs.).
1 casserole (2 pcs.)
1 dish, 7 in. (2 pcs.)
2 sauce boat 2 pcs.)
1 pickle dish.
Each set about 90 lbs

SET (100 pcs.), **$28.60**

Cups and Saucers—	
E14700—Tea 3¾x2¾, saucer 5¼	Doz. $4.50
E14705—Coffee, 3¼ x 2¾, saucer 6½	Doz. $5.25
Plates—	Doz.
E14710—4 in., act. 6	$2.00
E14711—5 " " 7¼	2.25
E14713—6 " " 8¼	2.75
E14718—7 " " 9¼	3.85
E14714—8 " " 9¾	5.00
E14717—Coupe soup, 7 in. act. 8¼	Doz. $3.50
Bakers	Doz.

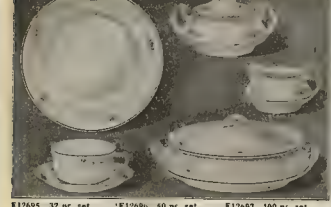
Bowls—	Doz.
E14781—30's	$5.00
Fruits—	Doz.
E. 14900 4 in act 5½	$1.70
Dishes or Platters—	Doz
E14743—8 in. 11½	$ 5.00
E14745—10 " 13½	9.00
E14747—12 " 15¾	15.00
E14748—14 " 17½	T O
Creamers—	Doz.

Cov'd. Sugars—	Doz.
E14777—30's, ht. 3¼ in.	$12.00
Cov'd. Butters—Drabber	Doz.
E14773—8½ in.	$18.00
Cov'd Dishes	Arc. Doz.
E14780—7 in., 11¾ x7	$21.00
Casseroles—	Doz.
E14785—7 in., act. 10	$24.00
Sauce Boats—Without stand.	
E14785—7x3¼.	Doz. $8.00
Pickle Dishes—	Doz.

"LA SALLE" BLUE MEDALLION BORDER SEMI-PORCELAIN (OPEN STOCK)

HOMER LAUGHLIN

"Homer Laughlin" trademarked. Light wt. sturdy H. K. semi-porcelain shape with "La Salle" blue medallion border. Attractive and distinctive. No Package Charge



E12695 32 pc. set.
6 teas (12 pcs.).
12 plates, 6 each 6 & 7 in.
6 fruits, 6 in.
6 coupe soups.
1 baker, 7 in.
Each set about 30 lbs.
SET (32 pcs.) **$4.75**

E12696 50 pc. set.
6 teas (12 pcs.).
12 plates, 6, 6 and 7 in.
6 coupe soups.
1 baker, 7 in. 1 bowl 30%.
1 covered dish (3 pcs.).
1 platter.
6 fruits, 6 in.
1 covered sugar 50%.
1 cream pitcher 50%.
1 butter dish 50%.
Each set about 50 lbs.
SET (50 pcs.) **$9.70**

E12693 100 pc. set.
12 teas (24 pcs.).
24 plates, 6, 6 and 7 in.
12 coupe soups.
1 baker, 9 in.
2 platters, 9 and 12 in.
12 fruits, 6 in.
1 sugar & creamer (3 pcs.).
1 butter (3 pcs.).
1 covered dish (3 pcs.).
1 gravy boat (3 pcs.).
1 pickle dish.
Each set about 100 lbs.
SET (100 pcs.) **$20.10**

Cups and Saucers—	Doz.
E15000—Tea 7½ oz. cup & saucer	$3.25
E15020—Ovide tea 8½x5½ cup & saucer	$3.75

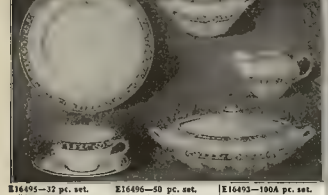
Plates—	Doz.
E1400—6 in. set 6	$1.43
E12011—8 " 7	1.62
E12010—9 " 6	1.95
E12015—7 " 9	2.43
E12016—8 " 9	3.04
Fruits, coupe soup	
6 in.	Doz. $2.49

Bakers—	Doz.
E12000—10 in. set 3	$4.28

Bowls—	Doz.
E12000—30% set 5½	$4.28
E12000—30% set 5½	$4.28
E12000—30% set 5½	$4.28

"MAYFLOWER" FINE ROSE & FRENCH BLUE SEMI-PORCELAIN (OPEN STOCK)

"Edwin M. Knowles" Trademarked. Light wt. semi-porcelain, pastel shade, white ivory body, full glazed inside and out. Each piece has a can scroll treading, rose clusters, gold edges, stripe hdls. and base of sprinkle dots and hdle cups. No Package Charge.



E16495—32 pc. set.
Dinner Set for 6 persons, consisting of:
6 Dinner Plates
6 Salad Plates
1 Platter 9 in.
1 Baker 7 in.
Each set about 50 lbs.
SET (32 pcs.), **$7.35**

E16490—42 pc. set.
As 32 pc. Set at right (4 sets of 8 pcs. each) and consisting of 8 pcs. each of:
8 Cups and Saucers
8 Bouillon Cups
8 Bouillon Saucers
Each set about 60 lbs.
SET (42 pcs.), **$10.25**

E16496—50 pc. set.
6 teas (12 pcs.)
16 plates, 6, 8 and 7 in.
6 cream soups, 6 in.
1 Platter 9 in.
1 bowl, 10 in.
1 covered dish (2 pcs.)
1 Platter
6 fruits, 6 in.
1 covered sugar, 10 in.
1 cream pitcher, 10 in.
Each set about 45 lbs.
SET (50 pcs.), **$13.60**

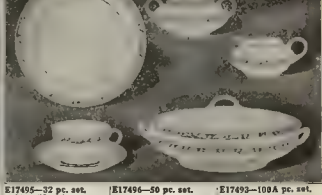
E16493—190A pc. set.
1 tea (12 pcs.)
[illegible] 7 in.
1 cream soup plates.
1 Platter 9 in.
1 Baker 7 in.
1 bowl, 10 in.
1 covered dish (2 pcs.)
1 Platter
6 fruits, 6 in.
1 covered sugar, 10 in.
1 cream pitcher, 10 in.
Each set about 90 lbs.
SET (100 pcs.), **$29.20**

Bowls—	Doz.
E16051—30's	$6.00
Platters—	
E16047—9 in.	$2.00
Card Dishes—Ass't Designs in Pinks	Doz. $21.00
E16047—12 in.	Doz. $21.00
E16053—12 in.	Doz. $12.00
Napkins or Salads—	Doz.
E16054—7 in., set, 8½	$6.00
Fruits—	Doz.
E16049—6 in. set, 8	$4.00
Bakers—	Doz.
E16048—7 in., set, 8½	$6.00

Cups and Saucers—	Doz.
E16477—30's, set, 5	$12.00
Cord Butters—Drawer	
E16478—7 in.	Doz. $18.00
Cord Dishes—Ass't Designs in Pinks	$21.00
Casseroles—	Doz.
E16058—7 in., set, 8½	$6.00
Sauce Boats—Attached stand	
E16056—6x3	Doz. $18.00
Pickle Dishes—	
E16480—3½x4½	Doz. $6.00

"EDGEMORE" ROSE & GOLD NEAR CHINA (OPEN STOCK)

Jope-Gasser Trademarked. Pure white, plain shape, highly glazed pure white body, full gold edges and inner band, fluid rose cluster between gold outer line-band edge and inner band, fluid rose cluster between gold outer lines. Gold edge and inner band, fluid rose cluster between gold outer lines. Gold edge and inner band, gold rim base of upright piece, handle cups and inner rim on saucer. No Package Charge.



E17495—32 pc. set.
6 teas (12 pcs.)
12 plates, 6 inch & 7 in.
6 fruits, 6 in.
1 baker 8 in. Each set, about 50 lbs. **$8.90**
SET (32 pcs.)

E17496—50 pc. set.
6 cups & 6 saucers (12 pcs.)
6 plates, 6 inch & 6 and 7 in.
6 fruits, 6 in.
1 platter 9 in.
1 bowl 9 in.
1 cream pitcher
1 lid to dish
1 creamer
1 sugar bowl
1 open dish
Each set, about 80 lbs.
SET (50 pcs.), **$14.25**

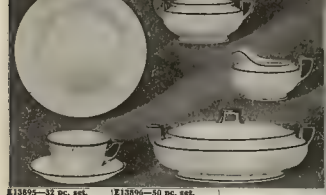
E17493—190A pc. set.
12 teas (24 pcs.)
16 plates, 6, 8 and 7 in.
12 cream soup plates.
1 Platter 9 in.
1 Baker 7 in.
1 bowl 10 in.
1 covered dish (2 pcs.)
1 Platter
6 fruits, 6 in.
1 covered sugar, 10 in.
1 cream pitcher, 10 in.
Each set, about 90 lbs.
SET (100 pcs.), **$29.70**

Cups and Saucers—	Doz.
E17477—30's, set, 5	$8.00
Bakers—	
E17473—9 in., set, 8½	$6.00
Bowls—	
E17451—30's	$5.00
Platters—	
E17443—Nos. set 10's, 12's, 14's	$7.25
E17445—12 in., set, 12	$6.00
E17446—14 in., set, 14	$9.00
Nappies or Salads—	Doz.
E17455—7 in., set, 8½	$2.75
Fruits—	Doz.
E17456—6 in. set, 8½	$1.50
Oatmeals—	Doz.
E17466—8's	$3.25

Creamers—	Each
E17476—30's, hs. 2¾	$1.75
Cord Sugars—	Each
E17475—30's, hs. 3¼	$1.75
Cord Butters—Drawer	
E17479—7 in. Tit	$18.00
Cord. Dishes—	Each
E17485—7 in., set, 10	$24.00
Casseroles—	Each
E17482—7 in. set, 8½	$2.00
Sauce Boats—Attached stand	
E17486—6x3½	Doz. $21.00
Pickle Dishes—	
E17495—3½x5	Doz. $6.00

NEW "CONGRESSIONAL" COIN GOLD SEMI-PORCELAIN (OPEN STOCK)

Homer Laughlin Trademarked. Light wt. good quality semi-porcelain, "Ivorytone" shape, white ivory body, full glazed inside and out. Each piece has a border line of sprinkle pieces coin gold treated, half coin gold border lines and handles. No Package Charge.



E13895—32 pc. set.
6 tea cups & saucers
6 bread & butter plates
12 plates, 6 inch & 8 in.
1 platter 9 in.
1 baker 7 in.
Each set about 50 lbs.
SET (32 pcs.), **$7.35**

E13890—42 pc. set. As 32 pc. including 6 pieces 6 in. bowl, cord. sugar (2 pcs.) and creamer
Each set about 60 lbs.
SET (42 pcs.), **$10.95**

E13896—50 pc. set.
6 cups & saucers (12 pcs.)
12 plates, 6 inch & 8 in.
6 fruits, 6 in.
1 platter 9 in.
1 bowl 9 in.
1 cream pitcher
1 lid to dish
1 sugar & creamer (2 pcs.)
1 cord. dish (3 pcs.)
Each set about 80 lbs.
SET (50 pcs.), **$15.05**

E13892—190A pc. set.
12 teas (24 pcs.)
16 plates, 6 inch & 8 & 7 in.
12 cream soup plates.
1 baker 7 in.
1 bowl 10 in. and 12 in
1 platter 9 in.
1 sugar & creamer (2 pcs.)
1 butter (3 pcs.)
1 cheese & cover (2 pcs.)
1 cord. dish (3 pcs.)
Each set about 90 lbs.
SET (100 pcs.), **$31.50**

Cups and Saucers—	Doz.
E13877—7 in., set, 8½	$6.00
Bakers—	Doz.
E13873—30's	$5.50
Platters—	
E13874—Nos. set 10's, 12's, 14's	$9.00
E13875—12 in.	Doz. $12.00
Cord Butters—Salts or Celery Dish	Doz. $19.20
Casseroles—	Doz.
E13882—7 in., set, 8½	Doz. $23.95
Casseroles—	
E13883—7 in. set, 8½ in.	Doz. $28.95
Sauce Boats—Attached stand	
E13884—6x3½	Doz. $19.20
Pickle Dishes—	Doz.
E13886—3½x5½	Doz. $6.50

E17695—32 pc. set.
6 teas (12 pcs.)
12 plates, 6 & 8 & 7 in.
6 fruits, 6 in.
1 platter 9 in.
1 baker 7 in.
Each set about 50 lbs.
SET (32 pcs.), **$8.90**

E17696—42 pc. set. As 32 pc. including 6 plates, 6 in. bowl, cord. sugar (2 pcs.) and creamer
Each set about 60 lbs.
SET (42 pcs.), **$13.30**

E17693—190A pc. set.
12 teas (24 pcs.)
16 plates, 6, 8 & 7 in.
12 cream soup plates.
1 baker 7 in.
1 bowl 10 in.
1 platter 9 in.
1 sugar & creamer (3 pcs.)
1 butter (3 pcs.)
1 casserole (2 pcs.)
1 cheese & cover (2 pcs.)
1 cover butter (2 pcs.)
1 pickle dish
Each set about 90 lbs.
SET (100 pcs.), **$38.35**

Cups and Saucers—	Each
E17670—Teas, set, 8½	$6.00
Bakers—	Each
E17671—30's	$2.50
Platters—	Each
E17677—Nos. set 10's, 12's, 14's	$1.50
Cord Butters—Drawer	
E17678—7 in.	$1.98
Cord. Dishes—	Each
E17681—6 in.	$2.70
Casseroles—	Each
E17685—7 in., set, 8½	$2.70
Sauce Boats—With stand	
E17684—6x3½	Each $2.26
Pickle Dishes—	Each
E17686—6½x5	$1.98

Creamers—	Each
E17676—30's, hs. 2¾	$1.98
Sugars—	Each
E17675—30's, hs. 3¼	$1.50
Cord Butters—Drawer	
E17679—7 in.	$1.98
Cord. Dishes—	Each
E17685—7 in., set, 8½	$2.70
Casseroles—	Each
E17683—7 in., set, 8½	$2.70
Sauce Boats—With stand	
E17682—6x3½	Each $2.26
Pickle Dishes—	Each
E17686—6½x5	$1.98

"DE LUXE" WHITE & GOLD NEAR CHINA (OPEN STOCK)

Jope-Gasser Trademarked. Light wt. thin semi-china, clear translucent reproduction of the French Derby shape. Compares favorably with best makes of European china. Gold scroll band edge, plain shape, plates and fruits with French flock, cups with coin gold wave line. No Package Charge.

E17695—32 pc. set.
6 teas (12 pcs.)
12 plates, 6 & 8 & 7 in.
6 fruits, 6 in.
1 platter 9 in.
1 baker 7 in.
Each set about 50 lbs.
SET (32 pcs.), **$8.90**

E17696—42 pc. set. As 32 pc. including 6 plates, 6 in. bowl, cord. sugar (2 pcs.) and creamer
Each set about 60 lbs.
SET (42 pcs.), **$13.30**

E17693—190A pc. set.
12 teas (24 pcs.)
16 plates, 6, 8 & 7 in.
12 cream soup plates.
1 baker 7 in.
1 bowl 10 in.
1 platter 9 in.
1 sugar & creamer (3 pcs.)
1 butter (3 pcs.)
1 casserole (2 pcs.)
1 cheese & cover (2 pcs.)
1 cover butter (2 pcs.)
1 pickle dish
Each set about 90 lbs.
SET (100 pcs.), **$38.35**

Cups and Saucers—	Each
E17670—Teas, set, 8½	$6.00
Bakers—	Each
E17671—30's	$2.50
Platters—	Each
E17677—Nos. set 10's, 12's, 14's	$1.50
Cord Butters—Drawer	
E17678—7 in.	$1.98
Cord. Dishes—	Each
E17681—6 in.	$2.70
Casseroles—	Each
E17685—7 in., set, 8½	$2.70
Sauce Boats—With stand	
E17684—6x3½	Each $2.26
Pickle Dishes—	Each
E17686—6½x5	$1.98

Creamers—	Each
E17676—30's, hs. 2¾	$1.98
Sugars—	Each
E17675—30's, hs. 3¼	$1.50
Cord Butters—Drawer	
E17679—7 in.	$1.98
Cord. Dishes—	Each
E17685—7 in., set, 8½	$2.70
Casseroles—	Each
E17683—7 in., set, 8½	$2.70
Sauce Boats—With stand	
E17682—6x3½	Each $2.26
Pickle Dishes—	Each
E17686—6½x5	$1.98

"PRESIDENTIAL" DINNERWARE

"Homer Laughlin" trademarked "Rhodes" shape, good quality and attractive, high grade semi-porcelain. Ivory body, with rich, dark blue stripes, pink and yellow flowers, and green foliage. Pieces are round, oval or square, with connecting bars. Has hair-line gold edges and stripped handles on hollow pieces. We are the sole distributors of this well-known pattern. Open Stock. Sold in any quantity. No Package Charge.

DINNER SETS

E31785 32 piece set. Weight about 37 lbs.
Set, 4 for 16 pcs. **$4.25**

E31790 42 piece set. Weight about 50 lbs.
Set, 6 for 16 pcs. **$6.20**

F31790—59 piece set. Weight about 70 lbs.
Set, 8 for 16 pcs. **$8.70**

E31793 100 piece set. Weight about 130 lbs.
Set (126 pcs.) **$18.15**

Cups and Saucers—
E31780—Tea, 3¼x2⅜ in. Dec. **$2.75**
saucer 5½ in. Dozen
Plates—
E31719—6 in. set 1 **$1.30**
E31711—8 " " 1 **1.85**
E31712—10 " " 1 **2.30**
E31737 6 in. compt. set 1 **2.30**
Bakers—
E1371—7 in., set, 8 Dozen **$3.90**

Bowls—
E31731—3½ in. Dozen **$3.25**
Platters—
F31747—8 in., set 11 Dozen **$3.25**
E31743—10 in., set 11 Dozen **$4.90**
E31747—12 in., set 11 Dozen **$5.95**
E31749—14 in., set 11 Dozen **$9.75**
Nappies or Salads—
E31702—7 in. Dozen **$3.90**

OPEN STOCK

Tiles—
E13760—4 in., set, 5 in Doz. **$1.00**
Oatmeals—
E13765—6 in. Doz. **$2.00**
Creamers—
E13766—3½ in. Doz. **$3.90**
Cov'd Sugars—
E13777—5½ in. Doz. **$7.80**
Cord Butters—Drainer Doz.
E13778—7½ in. Doz. **$11.70**

Cov'd Dishes—
F13780— " Doz. **$13.85**
Casseroles—
E13785—7 in., set 6 Doz. **$15.60**
Sauce Boats—Stand—
E13784—7½ " Doz. **$11.70**
Pickle Dishes—
E13786—8½x5 " Doz. **$3.90**

"NEW LOUVRE" DINNERWARE

"Pope Louvre", trademarked. Light weight pure white near china clear glaze, fancy embossing, all pieces footed, strong body shapes. Open Stock. Sold in any quantity. No Package Charge.

Cups and Saucers—
E11106—Louvre, 3 x 2¾ in. saucer Doz. **$2.64**
E11105 4 oz. cup, 2¾x2⅜ in. saucer 6½ in. Doz. **$2.85**
Plates—
E11116—6 in. set 6 Doz. **$1.27**
E11117—8 " " 7 " **1.21**
E11118—9 " " 8 " **1.48**
E11119—10 " " 10 " **1.68**
E11120—12 " " 10 " **2.64**
E11121—7 coupe soup, 7 in., set 6 Doz. **$1.86**
Bakers—
E11124 7 in. 9½x5¾ Doz. **$3.22**
Bowls—
E11131 5½ in. Doz. **$2.69**
Platters—6 in. set
E11133—8 " 11¼x8¾ Doz. **$2.60**
E11145—10 " 13½x10 " **5.85**
E11147—12 " 14½x10¾ " **6.50**

Nappies or Salads—
E11170—7 in., set 8½, 10 Doz. **$3.23** **4.84**
Fruits—
E1160—4 in., set, 5 in Doz. **81c**
Oatmeals—
E11165—6 in. set 6½ in Doz. **$1.68**
Creamers—
E11176—3½ in. set 6½ Doz. **$4.03**
Cov'd Sugars—
E11177—5 in., set 6½ Doz. **$7.39**
Cord Butters—Drainer 8 in. Doz. **$9.68**
Cov'd Dishes—
E11180—8 in. 10x7¾ Doz. **$12.90**
Casseroles—
E11185—7 in. set 6 Doz. **$12.90**
Sauce Boats—Without stand—
E11195—6½x3½ in. Doz. **$4.30**
Pickle Dishes—
E11199—8½x5 " Doz. **$3.23**

DINNER SETS

E11185—32 piece set. Weight about 46 lbs. Set, **$3.65**

E11190—42 piece set. Weight about 60 lbs. Set, **$5.50**

E11195—59 piece set. Weight about 80 lbs. Set, **$7.70**

E11196—100 piece set. Weight about 90 lbs. Set, **$15.45**

"AMBASSADOR" DINNERWARE

Light weight American semi-porcelain, B. H. selection, fancy maroon shape, pencil etched edge, gold band or raised decoration with satin, gold or gold finish handles and knobs. Open Stock. Sold in any quantity. No Package Charge.

Cups and Saucers—
E33106—Fancy tea, cup 2 x2¾ in. saucer 6 in. Doz. **$2.76**
Plates—
E33116—6 in., set 6 in Doz. **$1.29**
E33111 8 " " **1.35**
E33115—7 coupe soup, 8 in. " **2.10**
E33114—9 " " **2.65**
E33127—7 in. coupe soup, 8 in. Doz. **$2.10**
Bakers—
E33124—9 in. 7x5½ Doz. **$3.60**
Bowls—
E33131—5½ in. 2¾x5.4 Doz. **$3.00**
Platters—6 in. set
E33145—10 " 13½x10¼ Doz. **$3.00**
E33147—12 " 14½x10¾ " **6.40**
E33148—15 " 17½x12 " **9.00**

Nappies—6 in. set
E33165—7 " 8½x6¾ Doz. **$3.60**
Fruits—
E33160—4 in., set, 5½ Doz. **90c**
Oatmeals—
E33166—6¼ in. set 6 Doz. **$1.90**
Creamers—
E33176—3½ in. Doz. **$3.60**
Cov'd Sugars—
E33177—5½ in. Doz. **$7.20**
Cord Butters—Drainer—
E33178—Diam., 7 in. Doz. **$10.80**
Cov'd Dishes—
E33180—8 in. Doz. **$12.60**
Cov'd Casseroles—
E33185—7 in. Doz. **$14.40**
Sauce Boats—With stand
E33195—6½x3½ in. Doz. **$4.80**
Pickle Dishes
E33198—8½x5½ " Doz. **$3.60**

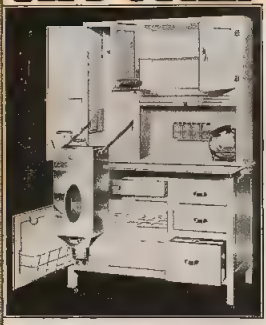
DINNER SETS

E33188—42 piece set. Weight about 60 lbs. Set, **$5.85**

E33196—59 piece set. Weight about 80 lbs. Set, **$8.15**

E33193—100 piece set. Weight about 90 lbs. Set, **$16.75**

KITCHEN CABINETS



SO451—Full White Enameled, all hardwood, ht. 68 in., width 42 in., depth 25 in., extra large flour bin with sifter attachment. Large glass sugar jar, coffee and tea jars, and 4 spice jars. All metal bread and cake drawer with sliding metal cover. High-grade sliding porcelain top. Weight 175 lbs.

Shipped from stock; immediate delivery.

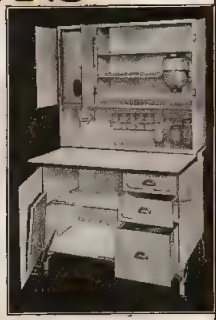
Each,

$32.00

SPECIAL VALUES IN KITCHEN CABINETS

EVERY item on this page is an exceptional value. They are not cabinets made to meet a special price, but high-grade cabinets, priced to create sales volume. Compare them with other of similar grades and note big savings. All have high-grade porcelain sliding top.

SO7 - Hardwood white enameled base with drawer. "Pemco" guaranteed porcelain top, size 25x40 in. **Shipped from stock; immediate delivery.** Each, **$6.75**



SANITARY ALL-STEEL KITCHEN CABINET

Shipped from Factory in Indiana

SE200P—Ht. 68 in., width 41 in., depth 26 in., white porcelain extension top. Made entirely of steel, electrically welded and finished in spotless white enamel; odors, moisture, germs or vermin are eliminated. No seams or bolt holes of any kind; easy to clean and sanitary as granite ware. Tilting and removable flour bin. Weight about 300 pounds.

Each, **$47.50**

Kitchen Table Cabinet

SO501 — Full White Enameled. Cabinet base with high-grade porcelain top, hardwood throughout, full white enamel interior and exterior. Ht. 32 in., width 42 in., depth 25 in.

All metal bread and cake drawer with sliding metal cover, wire racks for pots and pans. Wgt. about 100 lbs. **Shipped from stock; immediate delivery.** Each, **$15.00**

LOW PRICED KITCHEN CABINET

Shipped from stock, Immediate Delivery.

$25.00 each. About 15% below present market value.

SO32 — Golden oak, ht. 68 in., width 42 in., depth 25 in., wgt. 150 lbs. Tilting flour bin with sifter, large glass sugar bowl, tea and coffee jars, and 4 glass spice jars. All-metal bread and cake drawer with sliding metal cover, sliding porcelain top.

Each,

$25.00

DE-LUXE KITCHEN CABINET

Shipped from factory in Indiana.

Largest Size—Fully Equipped

SE718— Ht. 73 in., width 66½ in., depth 28 in. Shipping wt. 300 lbs.; golden oak, polished metal top. Each, **$52.00**

SE718P— With white porcelain top. Each, **$58.50**

SE718W — As SE718, all white enameled, with metal top. Each, **$58.00**

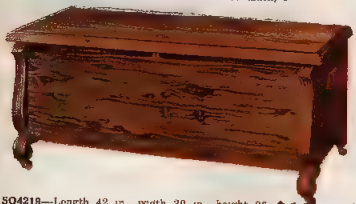
SE718PW —As SE718P, all white enameled, with porcelain top. Each, **$64.50**

RED CEDAR CHESTS

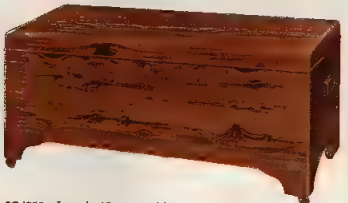
These chests are all made of selected genuine aromatic Red Cedar with new lock corner construction and high grade glue, no nails or screws. Equipped with Yale Locks, brass hinges and lid stays; high grade casters and cedar handles; solid copper trimmings. Natural gloss varnished finish. Big sellers for the holiday trade. Order one or two samples and draw from our stock as required.

SO4002—Length 40 in., width 17½ in., height 16 in. ..... Each, **$12.00**
SO4802—Length 48 in. width 17½ in., height 16 in. ..... Each, **$15.75**

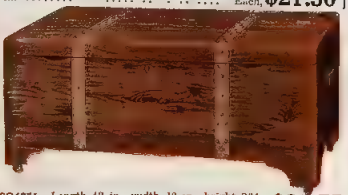
SO4856—Length 48 in., width 20½ in. height 23 in. ..... Each, **$31.50**



SO4219—Length 42 in., width 20 in., height 20 in. ..... Each, **$18.00**
SO4819—Length 48 in., width 20 in., height 20 in. ..... Each, **$21.50**

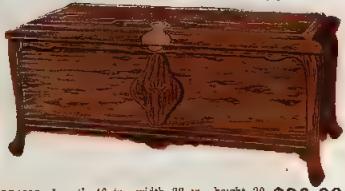


SO4250—Length 42 in., width 20 in., height 21 in. ..... Each, **$20.50**
SO4850—Length 48 in., width 20 in., height 21 in. ..... Each, **$22.75**



SO4251—Length 42 in., width 20 in., height 20½ in. ..... Each, **$21.75**
SO4851—Length 48 in., width 20 in., height 20½ in. ..... Each, **$24.00**

SO5061—Length 50 in., width 21 in., height 20 in. ..... Each, **$26.00**



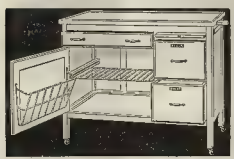
SO4686—Length 46 in., width 22 in., height 20 in. ..... Each, **$30.00**

SO4831— Solid **American Walnut**, aromatic red cedar lined; 48 in long, 20 in wide, 22 in. deep. Ea **$36.50**
SO4832—As SO4831 solid **Brown Mahogany**, lined with aromatic red cedar ..... Each, **$36.50**

KITCHEN CABINETS

Sturdily constructed with all the latest improvements by one of America's leading cabinet makers. Under the maker's name plate you would pay at least 25% more than these quotations.

Rounded corners and edges, all joints mortised and tenoned, guaranteed not to sag or fall apart. All white enameled cabinets are finished with high grade "Satin" white enamel. All doors and drawers have the dust lip construction and are finished inside. High grade refrigerator style hardware and three ply panel backs on all cabinets.



"Now Utility"

MATERIAL—Solid oak
SIZE—Ht. 30 in., top 27x40 in.
FEATURES—Metal top bread and cake box, roomy cupboard with sliding wire shelf, wide pan rack, large metal top flour bin, partitioned cutlery drawer, bread board, steel sliding moisproof bottom, nickel plated trimmings

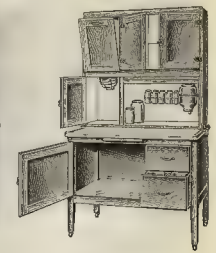
P3026—Golden oak inside and out, porcelain top. Crated, 150 lbs.
Each, **$19.75**

P3806—White enamel inside and out, porcelain top Crated, 150 lbs.
Each **$21.75**

"Our Leader"

MATERIAL—Selected Indiana oak.
SIZE—Ht. 68 in., top 28x40 in.
FEATURES—Sifting metal flour bin with sifter, bread board wood cake or bread box with ventilated metal sliding top.

P6841—Golden oak inside and out, stationary nickeled top. Crated, 175 lbs.
Each **$19,50**

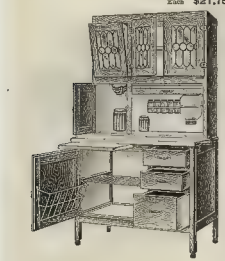


"Comfort"

MATERIAL—Solid Indiana oak.
SIZE—Ht. 70 in., top 28x40 in.
FEATURES—Tilting metal flour bin with sifter, wood cake and bread box with ventilated sliding top, drop roll curtain
EQUIPMENT—Complete set of five spice jars, one tea and one coffee canister, crystal glass sugar jar on swinging steel hanger large bread board Crated, 200 lbs.

P6845—Golden oak, upper section white enamel inside, porcelain sliding top. Each, **$28.75**
Lots of 6, " **27.75**

P6842—Golden oak, upper section white enamel inside, nickeled sliding top. Each, **$25.75**
Less of 6, " **24.75**



"The Marvel"

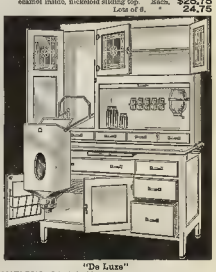
MATERIAL—Selected Indiana oak.
SIZE—Ht. 70 in., top 28x40 in.
FEATURES—Drop curtain front, wood cake and bread box with ventilated sliding metal top, sliding wire shelf, pan rack, 8 drug steel moisproof bottom. Beveled glass doors in top, sliding flour bin
EQUIPMENT—Complete set of five spice jars, one tea and one coffee container, crystal sugar jar on swinging steel hanger, large bread board.

P6846—Golden oak outside, white enamel inside, sliding porcelain top. Crated, 225 lbs.
Each, **$34,75**

"Purity"

MATERIAL—Selected Indiana oak.
SIZE—Ht. 70 inches, top 32x40 in.
FEATURES—Drop curtain front, metal cake and bread box, large full glass front lowering flour bin, pan rack, sliding wire shelf, steel moisproof bottom, beveled glass doors, six glass canisters, large drawer divided for cutlery
EQUIPMENT—Complete set of five spice jars, one tea, and one coffee container, swinging crystal sugar jar, large bread board.

P6123—Golden finish outside, white enamel inside, porcelain sliding top. Each, **$34.00**
P6127—White enamel inside and out, porcelain sliding top. Crated, 300 lbs. Each, **$38.50**



"De Luxe"

MATERIAL—Selected white oak.
SIZE—Ht. 70 in., top 32x40 in.
FEATURES—Roll front, metal cake and bread box, lowering flour bin, ash proof cuspor, two pan racks, sliding wire shelf dustproof three ply bottom under entire base sliding moisproof metal bottom on base, beveled glass doors, four cutlery drawers in top, divided cutlery drawer in base.
EQUIPMENT—Complete set of five spice jars, one tea and one coffee porcelain, swinging crystal sugar jar and large bread board.

P6325—Golden oak outside, white enamel inside sliding porcelain top Crated 300 lbs. Each, **$45.50**

P6326—White enamel inside and outside, sliding porcelain top. Crated 300 lbs. Each, **$49.00**

PORCELAIN TOP KITCHEN TABLES

Indestructible porcelain tops, three coat white enamel finish, square tapered legs. 1 in case, k d

Rosewood Finish Stained rosewood finish legs and frame, without center drawer

P3952—Top 24x36, 50 lbs. **$5.75**
P3953— " 28x40, 60 lbs. . . **5.95**

White Enamel Finish—White enamel legs and frame

WITHOUT CENTER DRAWER Each
P3954—Top 24x36, 50 lbs **$6.50**
P3955— " 28x40, 60 lbs.. **6,85**
WITH CENTER DRAWER—
P3957—Top 24x36, 50 lbs.. **$7.00**
P3958— " 28x40 60 lbs.. . **7,50**

WHITE ENAMEL KITCHEN TABLES

With Kitchen Cabinet Base

Indestructible porcelain top, 3 flour bins, 2 cutlery drawers and pastry board, 1 in case, k d

P3288 — 25x50 in., 85 lbs. Each. **$11.75**

P3080—Top 27x48 in., 95 lbs. Each. **$13.50**

EXTRAORDINARY FURNITURE BARGAINS

PORCELAIN TOP KITCHEN TABLES

The kitchen table that every woman wants. Display one of each kind prominently in your store with a plain price ticket. You'll make many sales.

Indestructible porcelain top, three coat white enamel finish, square tapered legs. 1 in case, K. d.

Basswood Finish—Stained basswood finish legs and frame, without center drawer.

P3052—Top 24x30in. 50 lbs.	Each,	$5.25
P3053—Top 26x40 in., 60 lbs.	Each,	5.95

White Enamel Finish—White enamel legs and frame.

WITHOUT CENTER DRAWER.

P3054—Top 24x30 in., 50 lbs.	Each,	$6.50
P3930—Top 26x40 in., 60 lbs.	Each,	6.95

WITH CENTER DRAWER—

P3927—Top 24x30 in., 50 lbs.	Each,	$7.00
P3985—Top 26x40 in., 60 lbs.	Each,	7.50

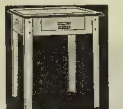
Kitchen Cabinet Style

Indestructible porcelain top, 5 four size, 2 cutlery drawers and pastry board. 1 in case. K. d.

P3929—Top 32x60 in., 80 lbs.	Each,	$11.75
P3986—Top 37x63 in., 95 lbs.	Each,	$13.50

"UTILITY" OR BATH ROOM WHITE ENAMEL TABLES

Compare prices and you will buy here



Porcelain top table for bathroom or kitchen use. 3 coat white enamel finish square tapered legs. Porcelain top. 1 in case, K. d.

Without Drawer—

P3945—Top 20 x24 in.,	Each,	$5.25
P3947—" 22x28 " "	"	5.50
P3948—" 24 x24 " "	"	5.75

With Center Drawer—

P3949—Top 20 x24 in.	Each,	$6.00
P3950—" 22x28 " "	"	6.25
P3951—" 24 x24 " "	"	6.50

Solid Oak Diner

We have to sell a big volume of this diner to make any profit—you would expect to pay at least 50% more.

P18—"Our Leader," solid oak, golden finish, sheeny bent back seat, tapered front legs, reinforced, 4 spindles, 2 stretchers, full box seat, slip-seat, upholstered in genuine leather, Spanish brown. 3 in bdl., 39 lbs.

$2.05 EACH

SOLID OAK DINING TABLES

The prices you can name will attract much attention to furniture department.

Solid golden oak, 42 in. top, plain oak leaves, all parts carefully selected and fitted, beveled rims, 6 fine scalloped claw feet, heavy legs, casters. Wrapped and crated, 125 lbs.

P857—6 ft. extension	Each,	$11.00
P858—6 "	"	12.00

PORCELAIN SLIDING TOP KITCHEN CABINETS

Compare these prices with the market. Put one of these cabinets in your window—it will attract many sales to your store.

Reinforced corners and edges, all joints mortised and tenoned, guaranteed not to sag or fall apart. All white enameled cabinets are finished with high grade "Snalin" white enamel. All doors and drawers have the dust tip construction and are finished inside, high grade refrigerator style hardware, 3 ply panel backs.

"Purity"

MATERIAL—Selected Indiana oak.

SIZE—Ht. 70 in., top 20x48 in.

FEATURES—Drop curtain front, metal cake and bread box (covering flour bin), pat proof casters, two pan racks, 4 icing wire shelf, dustproof tubular sugar and spice base, sliding waterproof metal bottom under center base, sliding waterproof metal bottom in top, divided cut ivy drawer at base.

EQUIPMENT—Complete set of five spice jars, one tea and one coffee canister, swinging crystal sugar jar and large bread board.

P6236—Golden oak outside, white enamel inside, porcelain sliding top. Crated, 250 lbs.	Each,	$34.00
P6237—White enamel inside and out, porcelain sliding top. Crated, 250 lbs.	Each,	$36.50

"De Luxe"

MATERIAL—Selected white oak.

SIZE—Ht. 73 in., top 24x48 in.

FEATURES—Roll curtain front, metal cake and bread box (covering flour bin), pat proof casters, two pan racks, 4 icing wire shelf, dustproof three ply bottom under center base, sliding waterproof metal bottom in top, divided cut ivy drawer at base, 3 cutlery drawers in top, divided cut ivy drawer at base.

EQUIPMENT—Complete set of five spice jars, one tea and one coffee canister, swinging crystal sugar jar and large bread board.

P6235—Golden oak outside, white enamel inside, sliding porcelain top. Crated, 260 lbs.	Each,	$45.50
P6238—White enamel inside and outside, sliding porcelain top. Crated, 260 lbs.	Each,	$49.50

THERE ARE HUNDREDS of BARGAINS ON THE WHITE PAGES

P6291—Hardwood Diner	Doz.	$15.00	SEE PAGE	332
P8366—Solid Oak Diner	Each,	1.80	SEE PAGE	332
P5852—Upholstered Rocker	Each,	7.75	SEE PAGE	332

KITCHEN CABINETS

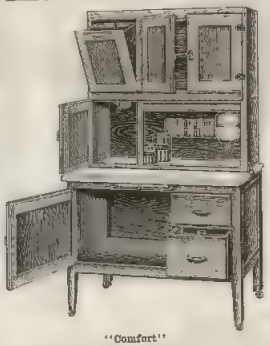
Made with all the latest features and improvements by one of the best kitchen cabinet manufacturers in America. Under the maker's name plate you would pay at least 50% more than these quotations.

Rounded corners and edges, all joints mortised and tenoned, guaranteed not to pull apart. Interior upper cupboard finished in three coats white enamel. Exterior finished in three coats golden or three coats white enamel as specified. MORTISED and TENON CONSTRUCTION with GUARANTEED GLUED JOINTS. Three ply panel backs.

"Our Leader"

MATERIAL—Solid Indiana oak.
SIZE—Ht. 68 in., stationary top 28x40.
FEATURES—Tilting metal flour bin with sifter, capacity 40 lbs. Three ply back. mortise and tenon construction with guaranteed glued joints.
EQUIPMENT—Bread board, wood cake or bread box with ventilated metal, sliding top. Crated 175 lbs.

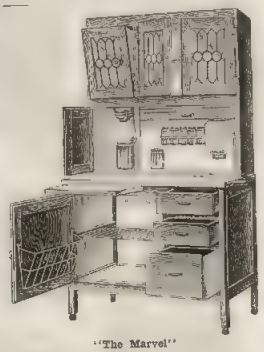
P8840—Golden oak, stationary wood top. Each. **$18.00**
P8841—Golden oak, stationary nickeloid top. Each. **$19.50**



"Comfort"

MATERIAL—Solid Indiana oak.
SIZE—Ht. 70 in., sliding top 28x40 in.
FEATURES—40 lbs. sifting metal flour bin with sifter. Wood cake and bread box with ventilated sliding top. Drop front panel.
EQUIPMENT—Complete set of five spice jars, one tea and one coffee, one sifter crystal glass sugar jar on swinging steel holder, large bread board. Crated, 300 lbs.

P8847—Golden oak, porcelain top. Each **$28.75**
Lots of 6, " **27.75**
P8842—Golden oak, nickeloid top. Each. **$25.75**
Lots of 6, " **24.75**



"The Marvel"

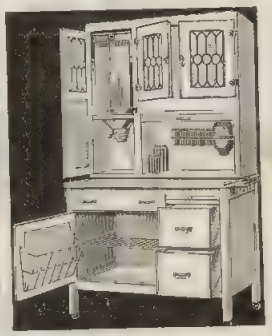
MATERIAL—Selected Indiana oak.
SIZE—Ht. 70 in., sliding top 28x40.
FEATURES—Drop curtain front, wood cake and bread box with ventilated sliding metal top, sliding wire shelf, pan rack, sliding steel moisture-proof bottom, frosted glass doors at top, tilting flour bin.
EQUIPMENT—Complete set of five spice jars, one tea and one coffee canister, crystal glass sugar jar on swinging steel holder, large bread board. Crated, 325 lbs.

P8846—Golden oak, porcelain top. Each, **$32.75**

"New Priscilla"

MATERIAL—Selected white Indiana oak.
SIZE—Ht. 70 in., white porcelain sliding top 26x40 in.
FEATURES—Big swinging florentine glass. French doors. Large flour sifter can be emptied. Dishes, etc. These bins are large enough to hold a 50 lb. sack of flour. Partitioned cutlery drawer. Bread and cake box with a tight fitting cover. Four sliding shelf pan rack. Steel interior. Dust proof sliding tambour.
EQUIPMENT—Complete set of four spice jars, one tea and one coffee canister, new style large size white enamel wood sugar bin, large size bread board, brackets for fastening meat grinder. Crated, 210 lbs.

P8894—White enamel inside and out. Each. **$42.50**



"Purity"

MATERIAL—Selected Indiana oak.
SIZE—Ht. 70 in. sliding top 26x40.
FEATURES—Drop curtain front, metal cake and bread box, large full glass front sifting flour bin, pan rack, sliding base shelf steel interior, frosted glass doors.
EQUIPMENT—Complete set of five spice jars, one tea and one coffee container, swinging crystal sugar jar, large bread board. Crated, 330 lbs.

P8836—White enamel, inside and out. Each. **$42.00**

"De Luxe"

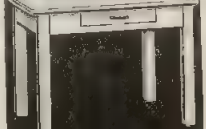
MATERIAL—Selected white oak.
SIZE—Ht. 73 in. white porcelain sliding top 28x48 in.
FEATURES—Large flour bin, metal cake and bread box, large full glass front sifting flour bin, five drawer base, two pan racks, sliding wire shelf, cutlery drawer, sanitary interior, dust proof sliding tambour, frosted glass doors and four glass jars in base.
EQUIPMENT—Complete set of four spice jars, one tea and one coffee canister, swinging crystal sugar jar, large bread board. Crated, 390 lbs.

P8836—White enameled inside and out. Each **$59.00**
P8837—Golden finish outside, white enameled inside. Each **$55.00**

WOOD TOP KITCHEN TABLES

Clear white wood tops, golden oak finish base, butler cross section, turned legs, cut out rails. 2 in casters.

	Each
Without Center Drawer	
P3940—Top 30x24 in., 30 lbs.	**$3.75**
P3941—" 36x27 " 35 "	**4.15**
P3942—" 48x27 " 40 "	**4.50**
With Center Drawer	
P3943—Top 30x24 in., 32 lbs.	**$4.00**



PORCELAIN TOP KITCHEN TABLE

P4097—Indestructible porcelain 25x40 in. top, 3 coats white enamel finish, nickeled trimmings, 18x26 in. cutlery drawer, 2 in. chamfered legs with drawer, 2 enlarged slides, 2 in. caster, 6 in. high. Each **$7.95**

HORSES AND CARTS AND WAGONS

These are all made of selected materials throughout and handsomely and durably finished in attractive colors.

SHEEP AND CART

T4031—Yellow stained cart; bed 2¼x1½x1 in.; with white composition sheep attached; 1⅝ inch compressed paper wheels; total length 5½ ins.; 1 dozen in box. Dozen ..... .43

T4032—Yellow stained cart, bed 3¼x2xx1¼ in.; with cloth covered wood leg sheep attached; 1⅝ in. compressed paper wheels; total length 7¼ ins.; 1 dozen in box. Dozen ..... .83

HORSES AND CARTS

T4036—Yellow stained cart, 1½ in solid green wheels; 3½ in. dapple gray composition horse, length 5¼ ins., width 2¼ ins., 2⅜ in. high; 1 dozen in box. Doz. .78

T4038—Cart, finished in blue enamel, black stripes, 2½ in. yellow wheels; 4 in. dapple gray composition horse on platform, leather harness, (can be unhitched) length 10 ins., width 4 ins., 5 in high; 1 dozen in box. Dozen..... 1.95

T4017—Coal cart, black enameled bed 6½x6x3 ins., red and black striped; 7 in. plush horse, natural mane and tail, leather harness, (can be unhitched); 4 in. red wheels length 14 ins., width 6½ ins. 9 in. high; each in box. Each .90

HORSES AND WAGONS

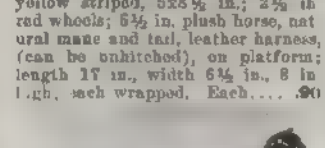
T4035—Composition dapple gray horse, hair mane and tail, painted and leather harness, on platform 2½x6 ins.; blue and red enameled wagon bed, shafts and gear; nicely striped 6x9x3½ ins.; 4 and 4½ in red wood wheels; total length 20 ins., width 8 ins., horse 9 in. high each in carton. Dozen 6.75

Our children's wood chairs and rockers are all well made, painted bright red, varnished and nicely striped; good values for little money

T4016—Milk wagon, yellow 4x8x2 in. bed red striped, 5½ in. plush horse natural mane and tail, leather harness (can be unhitched), on platform; 3 and 3½ in. wheels, 4 tin milk cans; length 18 in., width 6½ ins., 8 in high; each wrapped Each ..... .90

T4019—Same as T4016, larger; 7 in. plush horse bed 4½x9x2½ ins., 3½ and 4 in. wheels; length 21 in., width 7½ in., 9 in. high Each 1.65

T4018—Dray, blue enameled & yellow striped, 5x8½ in.; 2½ in red wheels; 6½ in. plush horse, natural mane and tail, leather harness, (can be unhitched), on platform; length 17 in., width 6½ in., 8 in high, each wrapped. Each.... .90



T4023½—Milk wagon, blue enameled body, yellow striped, 11x6½x2¼ ins.; 3½ and 4½ in. yellow wheels; 8x9 in. dapple gray horse on platform, with harness; with 4 milk cans, horse can be unhitched length over all 23 ins.; each in box Each 1.65

T4020—Coal wagon; black enameled red gear, yellow striped; bed 4¾x9½x3¾ ins., 7 in plush horse on platform natural mane and tail; leather harness (can be unhitched); 3½ in. red wheels; length 22 ins. width 7½ in. high; each wrapped Each 1.65

T4021—Stake wagon; red enameled yellow striped; bed 4¼x9¼5 ins., 3½ and 4 in. yellow wheels; 7 in plush horse on platform, natural mane and tail; leather harness (can be unhitched), length 22 in., width 7½ in., 9 in. high; each wrapped Each 1.65

T4023—Milk wagon, yellow enameled bed, red striped 5½x12x3 in red enameled gear; 5 and 6 in wheels; 9½ in. plush horse on platform, natural mane and tail, leather harness (can be unhitched); with driving lines; 4 tin milk cans; length 28 ins., width 8½ ins. 12 in high; each wrapped. Each 2.75

T4022—Dray; red enameled yellow striped; bed 7x13 ins.; 3½ in. yellow wheels; 10 in. plush horse with natural mane and tail, on platform, leather harness (can be unhitched); loaded with boxes, barrels and bags of merchandise and skid; length 28 ins.; width 8 in., 12 in. high; each wrapped. Each.....2.75

T4024—Stake wagon; yellow enameled red striped bed 5x11x6 ins. 5 in. red wheels; red enameled running gear and shafts; 10 in. plush horse with natural mane and tail on platform; leather harness (can be unhitched), with tape driving lines; length 28 ins., 8 in. wide, 12 in high; each wrapped Each 2.75

T4025—Blue enameled yellow striped body, 14x8x4½ in.; 4½ and 5½ in. yellow wheels; two fine dapple horses, hair, mane and tail, each 8½x9 ins., leather harness, can be unhitched; length over all 28 ins. each in box. Each. 2.75

PLATFORM HORSES

ALL WOOD

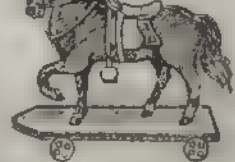
T2218—All wood, dappled gray, hair mane and tail, on 1½x4 in. stained platform; height 5¼ ins.; 1 dozen in box. Doz... .43

T2210—Same as T2218, larger, platform 2¼x6½ ins., 7 ins. high 1 dozen in box. Dozen ..... .88

PAPIER MACHE HORSES

T2220—Papier macho, dappled gray hair mane and tail, horse 8¼ inches high, 8 in. long, on stained wood platform 2 ... 8½ ins.

1 dozen in box Dozen 2.15



Extra heavy composition papier mache bodies, shaped wood head, legs and hoofs, leather saddle and ears; painted martingales and bridle; natural mane and tail

T2234—Platform 3x9 ins.; horse 8 in. long, 9½ ins. high, ½ dozen in box. Dozen .8.65

T2225—Platform 4¼x12 ins.; horse 10½ ins. long, 11¾ ins. high, 1/3 dozen in box. Dozen 5.50

T2226—Platform 5x13½ in. high; ¼ dozen in box. Dozen.....7.20

T2227—Platform 6x16 ins; horse 13 ins. long, 16 in. high; each in box. Each..... .95

PLANNEL COVERED HORSES

T2289—Fancy modeled saddle horse; papier mache horse 7½ in high, 7 in. long, flannel covered, wood legs; glass eyes; painted muzzle; natural mane and tail; on stained wood platform 2½x8 ins.; length 8 in 8½ in. high; ½ dozen in box Dozen ..4.35

PLUSH COVERED HORSES
PAPIER MACHE

Papier mache bodies, natural hair finished brown plush covered; wood legs; glass eyes; hair mane and tail, leather bridle; shaped saddle with saddle cloth and stirrups; on wheeled platform.

T2241—Platform 3x10½ ins.; horse 9 ins. long, 9½ ins. high; total height 10½ ins.; 1/6 dozen in box. Dozen 8.25

T2242—Platform 3¾x13 ins.; horse 12 in. long, 12½ ins. high; total height 13½ ins.; each in box. Each 1.15

T2244—Platform 3¾x16½ ins., horse 14 ins. long, 16 in. high, total height 18 ins.; each in box. Each 2.15

T2245—Platform 5½x19 ins.; horse 16 ins. long, 19 in. high; total height 20 ins.; each in box. Each 2.65

CHINA TEA SETS

An extraordinary showing of splendid sellers; dainty, strikingly decorated ware which should be prominent in every Holiday stock; absolutely the best value line of toy china tea sets in the market

O6044—Six piece set; tea pot, creamer, two cups and two saucers, floral decorated, gold traced; in box 3¾x6 ins.; 1 dozen in package. Dozen 75

O6048—Eight piece set tea pot with cover, sugar, creamer and 2 cups and 2 saucers, floral decorated, gold traced; in box, 4½x7 ins.; 1 dozen in pkge. Dozen 2.00

O6049—Eight piece set, 2 cups, saucers, sugar, creamer, [illegible]; gold traced; white china floral decorated, in box 7¼x5⅝ ins., dozen in pkge. Dozen 2.15

O6903—Eight piece set; 2 cups, 2 saucers, sugar, creamer and tea pot with cover; glazed white china, fancy scroll and floral decorated in box 7x8½ ins.; ½ dozen in pkge. Dozen 4.50

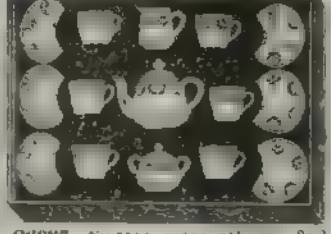
O6972—Eight piece set; 2 cups, 2 saucers, sugar, with cover, creamer, and large round shape tea pot with cover; white glazed china, gold banded; in box 7½x11½ ins. Dozen 7.20

O6975—Eleven piece set; 3 cups, 3 saucers, sugar with cover, creamer, and tea pot with cover; white glaze china, blue banded, juvenile decorated in colors; in box 8x10 ins. Set 70

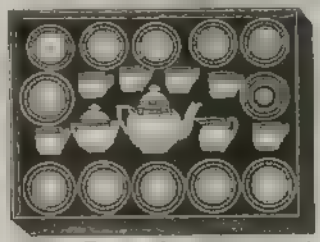
O6982—Sixteen piece set; six 1½x1½ in. cups, six 3 in. saucers, sugar, creamer, and teapot with cover; white glazed china, blue delph top band gold ornament decorated; in box 11x15x3¼ ins. Set 1.50

O6983—Sixteen piece set, six 1½x1½ in. cups, six 2 in. saucers, sugar, creamer and coffee pot with cover; white glazed china rose ornamented in natural colors, with gold edges; in box 11x15x3¼ ins. Set 1.50

O6984—Sixteen piece set, four 2x2 in. taper cups, four 4 in. saucers four 5¼ in. plates, sugar, creamer and 4x6 in. teapot; fine white glazed china, floral cluster decoration in natural colors, gold traced; in box 10x18x4½ ins. Set 2.25



O6987—Sixteen piece set, six 2x2 in. taper cups, six 4 in. saucers, sugar, creamer and 4x6 in. teapot; white glazed china, floral [illegible] decorated in natural colors; in box 14x18x4 ins. Set 2.00



O6988—Twenty three piece set, six 1½x1½ in. cups, six 2⅞ in. saucers, six 3½ in. plates, creamer with cover, sugar, and squat tea pot with cover; fine white glazed china; blue delph banded, burnished gold diamond design decorated; in box 13x18x2½ ins. Set 2.60

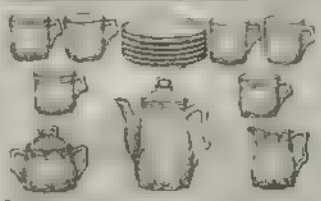
WITH SERVING TRAY

O6964—Eight piece set; 2 cups, 2 saucers, creamer, sugar, tea pot with cover and 9 in. ebony finished papier mache serving tray, white glazed china, floral decorated in natural colors; complete in box. Set 68

O6965—Eight piece set; 2 cups, 2 saucers, sugar, creamer, tea pot with cover and 9 in. papier mache serving tray; white glazed china, red banded, scenic decorated in bright colors; complete in box. Set 68

EXTRA LARGE CHINA TEA SETS

O6969—Fourteen piece set; three 1¾x3¾ in. cups, three 3¼ in. saucers, three 4¼ in. plates, sugar with cover, creamer and 2½x4½ in tea pot with cover; white glazed china, large floral decorated in natural colors, nicely banded and gold traced; each set wrapped. Set 72



O6977—Seventeen piece set; white glazed china, embossed, not decorated; 5¾ inch tea pot with cover sugar with cover, creamer, six cups and six 4 inch saucers; each set wrapped. Set 1.75

O6976—Seventeen piece set; six 2x2 in. cups, six 4¼ in. saucers, sugar with cover, creamer, and 6 in. tab coffee pot with cover; white glazed china, with juvenile figures in colors decorated, beautifully gold traced; each set wrapped. Set 1.85

O6979—Seventeen piece set; white glazed china, irridescent finish, hexagon shape; 6 inch tea pot with cover, sugar with cover, creamer six cups and six 4½ inch saucers, each set wrapped. Set 2.50

O6980—23 piece set; six 5 in. plates, six 4¼ in. saucers, six 2½x2¼ in flaring top cups, one 3½ in. creamer, one 4 in. sugar with cover, and one 6¼ in. tea pot with cover; each set wrapped. Set 3.25

O7007—Twenty-one piece set; six 2½ in cups, six 3¾ in. saucers, six 4¼ in. plates, one 6x7 in. platter and one 3½x4½ in. handled soup toureen, with cover; floral decorated in natural colors and gold traced; each piece wrapped in carton. Set 3.50

SPECIAL JUVENILE TEA SET

Fine white glazed china, large pieces; ideal for tea party or play use

T7006—Twenty one piece set six 2¼ in. cups, six 3½ in. saucers, six 4¼ in. plates, one 5x7 in. platter and one 6x3½ in. handled soup toureen with cover; fine white glazed china, gold traced; each piece wrapped; in carton. Set 3.00

HORSE NAILS, PADS AND CALKS

NORTHWESTERN HORSE NAILS

Size, Nos.	3	3½	4	4½	5	6	7	8	9	10
Pound	$1 80	1 20	60	55	28	25	24	23	22	22

UNION HORSE NAILS

Carried in stock from No. 5 to 10, in regular and city patterns, made of imported Swedish Nail Rod; are perfect drivers and hold where other nails break

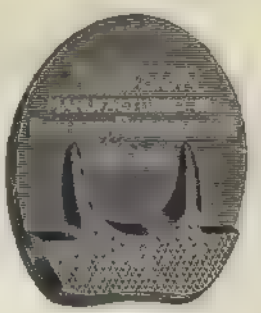
Size, Nos.	5	6	7	8	9	10
Pound	$0 28	25	.24	.23	.22	.22

LUDVIGSEN STEEL CENTER TOE CALK

A self-sharpening calk. The hard steel plate in the center and the two outside soft iron plates are welded together and shaped into a sharp calk during the process of manufacturing. Made in the following sizes:

Numbers, size	0	1	2	3	4	5	6
Length, Inches	1⅛	1¼	2	2¼	2½	2¾	3
Height, Inches	⅝	11/16	¾	⅞	⅞	⅞	⅞
Per lb.	$0 28	.28	26	.26	.24	24	.24

RUBBER HOOF PADS



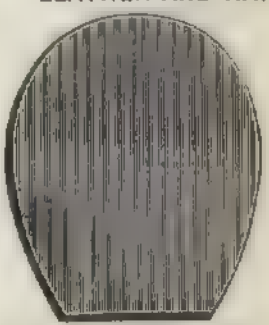
Hudson

Straw

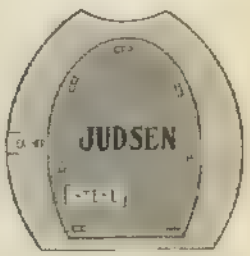
Nos.	2	2½	3	3½	4
Hudson	$ 80	80	90	90	95
Straw	$0 80	90	95	1 00	1 10

Nos.	4½	5	5½	6	7	8
Hudson	$0 95	1 00	1 15	1.25	1 40	1.50
Straw	$1 15	1.20	1 25	1.40	1 50	1.65

LEATHER AND NAIL-PROOF HOOF PADS



Heavy Tanned Sole Leather



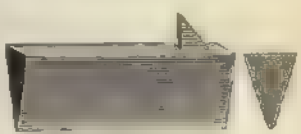
Full Leather Back. Steel Center Shield

Nos.	1	2	3	4	5	6	7	8
Leather, pair	$0 25	.30	35	40	45	.50	.60	.70
Nail-proof, pair	20	.20	25	25	30	.30	.35	.35

JUNIATA TOE CALKS

Blunt

Country



Sharp

BLUNT PATTERN

Number, size	0	1	2	3	4	5	6	7
Steel, inches	5/16x5/8	½x¾	9/16x11/16	5/8x1½	¾x1½	1 x[illegible]	7/8x9/16	15/16x19/32
Length, regular, inches	1¼	1½	1¾	2	2¼	2½	2¾	3
Length, long, inches	1½	1¾	2	2¼	2½	2¾	3	3¼
Length, extra long, inches	1¾	2	2¼	2½	2¾	3	3¼	3½
Juniata Toe Calks; Blunt Pattern								Per Box $

COUNTRY PATTERN

Number size	0	1	2	3	4	5	6	7
Steel, inches	15/32x5/16	17/32x5/16	3/4x11/32	3/4x15/32	21/32x7/16	27/32x7/16	1 1/32x17/32	1 1/32x9/32
Length, regular, inches	1⅜	1½	1¾	2	2¼	2½	2¾	3
Length, long, inches	1⅝	1¾	2	2¼	2½	2¾	3	3¼
Length, extra long, inches	1⅞	2	2¼	2½	2¾	3	3¼	3½
Juniata Toe Calks; Country Pattern								Per Box $

SHARP PATTERN

Number, size	0	1	2	3	4	5	6	7
Steel, inches	1/2x3/8	5/8x7/16	3/4x1/2	7/16x3/4	1x5/8	1x[illegible]	1x5/8	1x5/8
Length, regular, inches	1¼	1¾	2	2¼	2½	2¾	3	3¼
Length, long, inches	1¾	2	2¼	2½	2¾	3	3¼	3½
Length, extra long, inches	2	2¼	2½	2¾	3	3¼	3½	3¾
Juniata Toe Calks; Sharp Pattern								Per Box $

25 lbs. in a box. Fourth class freight.

CHUBBY WALKING AND TALKING DOLLS ALL WITH MA-MA VOICE

Hard To Break Composition Head and Hands

Moving Eyes—Painted Hair

N25856-58-59

Moving Eyes—Mohair Wig

N25857 60

We do not break packages

Fine Imported Bisque Heads

Mohair Wig—Moving Eyes

N25821

Each

N25855—16 inch soft body doll—walking, sleeping and when tipped forward says mama, tipped backwards it cries—composition head and hands—body stuffed with good cotton flocs—dressed in gingham romper trimmed with featherstitch edging same as cuffs—Dutch bonnet to match, removable patent leather shoes and stockings..... 3 50

N25856—18 inch walking sleeping doll which when tipped forward says mama and tipped backwards it cries—composition head and hands—body stuffed with good cotton flocs—dressed in gingham romper with Dutch bonnet to match—removable patent leather shoes and stockings 4.70

N25859—18 inch, walking, sleeping doll and when tipped forward says mama, and tipped backwards it cries—composition head and hands —body stuffed with good cotton flocs—dressed in gingham romper with Dutch bonnet to match—removable patent leather shoes and stockings 5.60

N25857—16 inch soft body doll—walking, sleeping, and when tipped forward says mama, tipped backwards it cries—composition head and hands body stuffed with good cotton flocs—dressed in gingham romper with featherstitch edging same as cuffs—Dutch bonnet to match—Buster Brown wig—removable patent leather shoes and stockings 4 00

N25860—22 inch walking, sleeping doll, which when tipped forward says mama, and tipped backwards it cries—composition head and hands, body stuffed with good cotton flocs—dressed in gingham romper with Dutch bonnet to match—removable patent leather shoes and stockings—Buster Brown wig 5.80

Each

N25861

N25861 18 inch walking, sleeping doll which when tipped forward says mama, and tipped backwards it cries—composition head and hands, body stuffed with good cotton flocs—white dress with lace insertion and lace on hem and collar and cuffs—Dutch bonnet trimmed with lace—Buster Brown wig —lawn diaper and lace trimmed petticoat, removable shoes of black patent leather and white stockings 6.00

Each

N25821 Kemper costume of chambrey and cretonne with patch pockets of brownie style. Large Buster Brown collar and bonnet of same materials joined with large bow Body same, and has good quality head bisque), with moving eyes, and real hair eyelashes, open mouth, showing teeth. Curly mohair wig, with side part. Measures 14½ inches, packed each in box 3 50

N25822—Same as N25821, height measures 16 inches, packed each in box 7 50

N25823 Same description as N25821, but measures 17½ inches, packed each in box..... 10.50

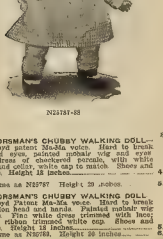
N25824 Same description as N25821 but measures 20½ inches, packed each in box..... 13 50

These dolls are especially recommended for small children on account of their durability

Horsman's Chubby Walking Dolls with Lloyd Patent Ma-Ma Voice. Hard to break Head and Hands

Painted Hair and Eyes

N25785-86



N25787-88

Mohair Wig—Moving Eyes

N25793 94 95

Each

N25785—HORSMAN'S CHUBBY WALKING DOLL—With Ma-Ma voice. Hard to break head and hands, painted hair, and eyes. Colored percale romper dress with cap to match. Shoes and stockings. Height 15 inches..... 4.80

N25786—Same as N25785 Height 21 inches..... 6.80

Each

N25787—HORSMAN'S CHUBBY WALKING DOLL—With Lloyd patent Ma-Ma voice. Hard to break head and eyes, painted mohair wig and eyes Smock dress of checkered percale, with white pockets and collar, white cap to match. Shoes and stockings. Height 15 inches..... 4.80

N25788—Same as N25787 Height 20 inches 6.80

N25789—HORSMAN'S CHUBBY WALKING DOLL With Lloyd Patent Ma-Ma voice. Hard to break composition head and hands Painted mohair wig and eyes Fine white dress trimmed with hand embroidery, white cap, shoes and stockings Height 15 inches..... 5.70

N25790—Same as N25789, Height 20 inches..... 6.80

Each

N25791—HORSMAN'S CHUBBY WALKING DOLL—With Lloyd Patent Ma-Ma voice. Hard to break composition Lead and hands, fine curled mohair wig, moving eyes. Smock dress made of colored prints, white cap, shoes and stockings. Height 15 inches..... 7.20

N25792—Same as N25791. Height 20 inches. 9.90

N25793—HORSMAN'S CHUBBY WALKING DOLL—With Lloyd Patent Ma-Ma voice. Hard to break composition head and hands, fine curled mohair wig moving eyes. White lawn dress trimmed with lace and ribbon trimmed cap to match. Shoes and stockings. Height 18 inches... 7.00

N25794—Same as N25793. Height 22 inches..... 10 80

N25795—Same as N25793. Height 32 inches..... 12.50

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

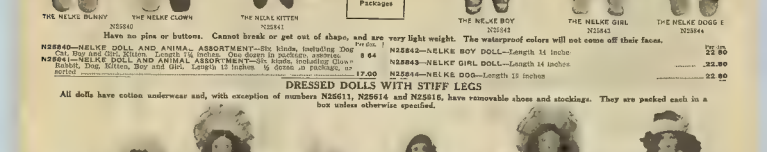
Have no pins or buttons. Cannot break or get out of shape, and are very light weight. The waterproof colors will not come off their faces.

	Per Doz.
N25840—NELKE DOLL AND ANIMAL ASSORTMENT—Six kinds, including Dog, Cat, Boy and Girl Kitten. Length 14 inches. Open eyes in rainbow assortment.	$ 64
N25841—NELKE DOLL AND ANIMAL ASSORTMENT—Six kinds, including Clown, Rabbit, Dog, Kitten, Boy and Girl. Length 14 inches. In dresses as package is sorted	17.00

	Per Doz.
N25842—NELKE BOY DOLL—Length 14 inches	$ 22.80
N25843—NELKE GIRL DOLL—Length 14 inches	22.80
N25844—NELKE DOGG—Length 15 inches	22.80

DRESSED DOLLS WITH STIFF LEGS

All dolls have cotton underwear and, with exception of numbers N25611, N25614 and N25616, have removable shoes and stockings. They are packed each in a box unless otherwise specified.



Per Doz.

N25611—DRESSED DOLL—Dressed in assorted solid colors of 2 different styles. Doll jointed at hips and arms, has bisque turning head with stationary glass eyes, and open mouth showing teeth. Has curly mohair wig and imitation side part. Dress trimmed with braid and has matching 2 inches 15 cents hat. Measures 8 inches 2 92

N25612—DRESSED DOLL—Dressed in assorted solid colors. Cotton dresses with flared designs, collars and berths trimmed with braid and pleated ruffle. Doll jointed at hips and arms, has bisque turning head with stationary glass eyes, and open mouth showing teeth. Has curly mohair wig and imitation stocking and slippers. Straw hat. Measures 8 inches, 13 cottons in pack 2 92

N25613—DRESSED DOLL—Dressed in assorted solid colored floral designed material. Imitation gingham trimmed with braid. Large showy berths trimmed with lace. Doll jointed at hips and arms, has bisque turning head with stationary glass eyes, and open mouth showing teeth. Has curly mohair wig and imitation stockings and slippers. Straw hat. Measures 8 inches, 12 cottons in package 3 92

N25614—DRESSED DOLL—Dressed in assorted solid colors with white braid and two gold buttons for hair decoration. Doll jointed at hips and arms, has bisque turning head with moving eyes, and open mouth showing teeth. Has curly mohair wig and imitation stockings and slippers. Straw hat. Measures 8 inches 3 92

N25615—DRESSED DOLL—Dressed in assorted solid colors. Large berths trimmed with braid and edged with fancy lace. Large straw hat with large bow and streamers. Bisque turning head with moving eyes and curly mohair wig. Large showy straw hat, jointed on shoulders and hips. Measures 9½ inches 4 32

N25616—DRESSED DOLL—Dressed in assorted solid colored cotton. Ruffled dresses with large berths trimmed with braid and showy straw hat to match. Bisque turning head with moving eyes, open mouth showing teeth. Curly mohair wig, jointed at hips and shoulders. Measures 9½ inches 4 32

N25617—DRESSED DOLL—Dressed in solid colored mercerized silk material with large collar and bloomers trimmed with fancy braid. Bisque turning head with moving eyes, open mouth showing teeth. Curly mohair wig with large showy straw hat. Jointed at hips and shoulders. Measures 9½ inches 5 00

N25618—DRESSED DOLL—Dresses assorted with colors cotton dresses with white lawn guimpe, and large berths trimmed with lace and edged with lace and grenadines. Bisque turning head with moving eyes and curly mohair wig. Large showy straw hat, jointed on shoulders and hips. Measures 9½ inches 5 00

N25619—DRESSED DOLL—Dressed in assorted solid colored cotton. Ruffled dresses with large berths trimmed with braid and showy straw hat to match. Bisque turning head with moving eyes, open mouth showing teeth. Curly mohair wig, jointed at hips and shoulders. Measures 9½ inches 5 00

N25620—DRESSED DOLL—Dressed in assorted solid colors. Large fancy collars and braid trimming and edged with lace. Fancy ribbon ready for decoration. Bisque turning head with moving eyes, open mouth showing teeth. Curly mohair wig, jointed at shoulders and hips. Measures 9½ inches 5 00

N25621—DRESSED DOLL—Dressed in assorted solid colors. Cotton material with large collar and bloomers trimmed with fancy braid. Large berths edged with lace and two lace ruffles at shoulder. Large showy straw hat. Bisque head with moving eyes, open mouth showing teeth. Curly mohair wig, jointed at shoulders and hips. Measures 9½ inches 5 00

N25622—DRESSED DOLL—Dressed in three styles of accordion pleated dresses of cotton material. Bisque turning head with moving eyes, open mouth showing teeth. Curly mohair wig, jointed at shoulders and hips. Measures 9½ inches 13 50

N25623—DRESSED DOLL—Dressed in assorted colors, accordion pleated blouse trimmed with lace collar and ribbon bow. Skirt trimmed with braid and decorated with two buttons. Large showy hat trimmed with braid. Large straw hat trimmed to match. Bisque turning head with moving eyes, showing teeth and open mouth. Curly mohair wig with side part. Jointed at shoulders and hips. Measures 12½ inches 13 50

N25624—DRESSED DOLL—Dressed in suspender dress of plain material, has belt to match. Imitation guimpe with collar and cuffs neat but of some material to match trimmed with ribbon rosettes. Bisque turning head with moving eyes, open mouth showing teeth. Curly mohair bang wig. Jointed at shoulders and hips. Measures 10½ inches 13 50

N25625—DRESSED DOLL—Dressed in assorted solid colors, mercerized blouses and dresses elaborately trimmed with braid. Large showy berths trimmed with braid and lace. Blouse and skirt trimmed with fancy braid and edged with lace. Bisque turning head with moving eyes, open mouth showing teeth. Curly mohair wig with side part. Jointed at hips and shoulders. Measures 12½ inches 16.00

N25626—DRESSED DOLL—Dressed in assorted solid colored mercerized silk material with large collar and bloomers trimmed with fancy braid. Large showy berths trimmed with braid and edged with lace. Bisque turning head with moving eyes, open mouth showing teeth. Curly mohair wig with side part. Jointed at shoulders and hips. Measures 12½ inches 16.00

N25627—DRESSED DOLL—Dressed in assorted solid colored dresses with large fancy collar and cuffs of material to match. Large showy straw hat. Bisque turning head, open mouth showing teeth, moving eyes. Curly mohair wig with imitation side part. Jointed at shoulders and hips. Measures 12½ inches 16 50

N25628—DRESSED DOLL—Dresses of assorted colors. Cotton accordion pleated dresses with large berths trimmed with braid and edged with pleated ruffle. Large showy straw hat trimmed with braid and flared with material to match. Bisque turning head with moving eyes, open mouth showing teeth. Curly mohair wig with imitation side part. Jointed at shoulders and hips. Measures 12 inches 16.00

N25629—DRESSED DOLL—Wiener costume of assorted solid colors, flecked blanket dresses with scalloped bonnet, collar and scarf, trimmed with braid. Bisque turning head with moving eyes, open mouth showing teeth. Curly mohair wig with imitation side part. Jointed at shoulders and hips. Measures 12½ inches 17.00

N25630—DRESSED DOLL—With over blo... of cotton material with accordion pleated skirts of plain colored ruffle. Blouse trimmed with lace collar and cuffs and belt trimmed with braid to match. Large showy straw hat trimmed with braid to match. Bisque turning head with moving eyes, open mouth showing teeth. Curly mohair wig with imitation side part. Jointed at shoulders and hips. Measures 12½ inches 17.00

N25631—DRESSED DOLL—... Mo... 24.00

N25632—DRESSED DOLL—... 22.80

N25633—DRESSED DOLL—... 24.00

N25634—DRESSED DOLL—... 24.00

N25635—DRESSED DOLL—... 24.00

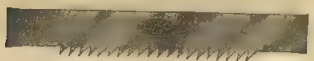
N25636—DRESSED DOLL—Dressed in assorted colored checked cotton. Dresses with white lawn collars trimmed with fancy braid; blouse and belt trimmed with braid, ruffle edged with material to match. Large showy straw hat trimmed with flowers. Bisque turning head with moving eyes, open mouth showing teeth. Curly mohair wig with imitation side part. Jointed at shoulders and hips. Measures 12 inches 24.00

N25637—DRESSED DOLL—Dressed in assorted solid colored dresses with large fancy berths edged with braid and lace also large accordion pleated ruffles. Collar and cuffs trimmed with lace. Accordion pleated skirt trimming on hem. Large showy straw hat trimmed with braid. Bisque turning head with moving eyes, open mouth showing teeth. Curly mohair wig with imitation side part. Jointed at shoulders and hips. Measures 12½ inches 24.00

N25638—DRESSED DOLL—Dressed in assorted solid colors. Accordion pleated blouse with fancy collars and designs trimmed with braid to match and tied with silk ribbon bows. Bisque turning head with moving eyes, open mouth showing teeth. Curly mohair wig with imitation side part. Jointed at hips and shoulders. Measures 12 inches 24.00

GANG AND DRAG OR BUTTING SAWS

We can furnish for Factory shipment Atkins, Disston, Simonds, Oldham, or any other Brand desired



When ordering, give following directions: Length, Width, Gauge, Number of Teeth in Saw, Space from Point to Point of Teeth, Depth of Teeth, Hook of Teeth, Distance from Bottom of Saw to First Tooth, Exact Distance between Tabs, Kind and Size of Tabs, Width of Ends and whether Spring or Spread Set Temper is wanted; Also Specify if wanted with Tabs or Punched for Tabs Only

+No. F331A—GANG

Double Refined Cast Steel, Extra Tempered, Patent Ground

If Swaged only, add 15 cents per ft. to lists.
If Swaged and Fitted, ready for use, add 30 cents per ft. to lists.

Gang Saws are made from Specifications only

Gauge Nos.	8	9	10	11	12	13	14	15	16
4 In., Per Ft.	.....	.....	.....	.....	.....	$1.90	$1.85	$1.75	$1.70
5 In., Per Ft.	.....	.....	.....	.....	.....	2.00	1.95	1.85	1.80
6 In., Per Ft.	.....	.....	.....	.....	.....	2.15	2.05	2.00	1.95
7 In., Per Ft.	.....	.....	.....	.....	.....	2.35	2.25	2.15	2.15
8 In., Per Ft.	$4.00	$3.60	$3.40	$2.90	$2.75	2.55	2.45	2.35	2.35
9 In., Per Ft.	4.40	4.00	3.60	3.15	2.95	2.80	2.65	2.55	.....
10 In., Per Ft.	4.80	4.40	4.00	3.40	3.20	3.05	2.90	2.75	.....

Saws with Reversed Teeth, add 10% to List prices; Saws furnished Without Tabs, but with Holes Punched, add 2c Net per Hole.

+No. F331B—DRAG OR BUTTING

Double Refined Cast Steel, Extra Tempered, Patent Ground

If Set and Sharpened, Extra Price. Drag or Butting Saws are made from Specifications only. We can furnish Wider or Thicker Saws than Specified.

10 Gauge; 6 in. Wide at Tip; 8 in. Wide at Butt

Length, Ft.	5	5½	6	6½
Per Foot, All Lengths	...	.	.	$2.40

All Saws fitted, ready for use.

Drag Saws Taper ground, add 5% to the List for Each Gauge Taper grinding.

+For Factory Shipment Only

DRAG SAW MACHINES

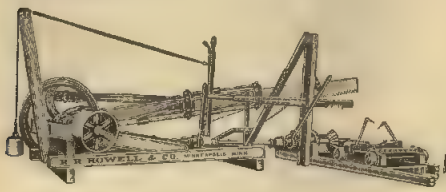
HOWELL PORTABLE

These Machines are equipped as illustrated, but without Pulleys, or Tumbling Rods. We can furnish any size Pulley desired, or Tumbling Rod, at market price.

The Driving Shaft has a Square End to connect direct with Rod Coupling; Main Shaft is made long enough to provide for one 6 in. face Pulley when Belt Drive is desired. In ordering for **Belt Power, state Diameter and Speed of Engine Pulley.**

In ordering for **Horse Power,** advise Make and Style of Power, Number of Revolutions of Tumbling Rod to one Round of Horses, and whether Tumbling Rod turns over with Horses or under and against them.

Where customer has Engine with wide, flat face, and wishes to use Tight and Loose Pulleys on Saw, we will furnish, on request, without extra charge, Main Shaft 6 in. over length.



+SELF FEED

+HAND FEED

Heavy substantial Frame; Large Driving Shaft running in Babbitted Boxes; Heavy Fly Wheel, weighted to balance weight of Saw Pitman; Babbitted Cross Head running on Steel Slide Bars

Simple Power Attachment for feeding Logs forward after each cut, with adjustable Iron Feed Rolls and Truck for rear end of Log; One man attends to raising Saw, drawing Log forward and holding it in place.

Pitman is connected directly to Saw and slides radiate from Crank Shaft, permitting end of Slides farthest from Crank Shaft to be raised or lowered for Logs of different sizes.

Stroke is adjustable to suit Power used.

Can be equipped with **Special Power Attachment** for reversing Log Carriage at extra cost. **Pulley not included in price.**

Same general design as the Self Feed, but of lighter construction and for less power; for farmers and others who want a Machine for few Hands and small Power.

The Saw can be run rapidly without bounding; Logs are held in place by Adjustable Corrugated Rolls; the Log can be moved in either direction after each cut, and the Saw can be raised and pressure regulated when cut is finished, by means of one Lever; Furnished with Main Dog and Dogs on Truck for holding the Log to prevent rolling under the Saw; a Guide prevents Saw from whipping when out of the Log; Babbitted Cross Head running in Steel Slide Bars. **Two Power adjustments**

Each

+No. F331C—Two to Four Horse Power; Capacity 30 Cords per day; 5 ft. Drag Saw; Speed 125 Strokes per Minute; 16 and 20 in. Stroke; 14 ft. Track; Weight 900 Lbs. $187.50

+No. F331D—Four to Six Horse Power; Capacity 40 Cords per day; 5½ ft. Drag Saw; Speed 150 Strokes per Minute; 16, 20 and 24 in. Stroke; 16 ft. Track; Weight 1,150 Lbs. ... 225.00

Two to Four Horse Power; Capacity 20 to 30 Cords per day; 5 ft. Drag Saw; Speed 125 Strokes per Minute; 16 and 20 in. Stroke; 14 ft. Track.

Each

+No. F331E—Without Gearing Attachment; for Belt Power or Horse Power when speed of Tumbling Rod is about 125 Revolutions per Minute; Weight 650 Lbs. Each $137.50

+No. F331F—With Gearing Attachment, Ratio 3 to 1; for Slow Speed Horse Power; Main Shaft long enough so Machine can be changed to Belt Drive if desired; Weight 700 Lbs. Each 150.00

+For Factory Shipment Only; F. O. B. Minneapolis

SHINGLE BANDS

Rolled from high quality Steel Wire; Round, smooth edges; Uniform thickness; Cut to proper Length and Punched

No. P331H—OILED BLACK

Size, In.	½x10	½x11	½x12	½x13
Per 100 Lbs.	$21.00	21.00	21.00	21.00

Weight 25 Lbs. per 1000

No. P331J—GALVANIZED

Size, In.	½x10	½x11	½x12	½x13
Per 100 Lbs	$23.00	23.00	23.00	23.00

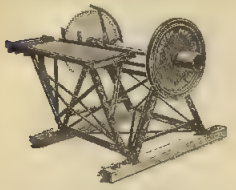
Weight 25 Lbs. per 1000

40 to 46 Bands per Pound; 400 to 500 Lbs. in Barrel

WOOD SAWING MACHINES

Sold without Saw; Shaft is 4 ft. 4 in. Long by 1⅛ in. Diam., turned down to 1⅝ in. for 20 to 30 in. Saws, and to 1⅛ in. for Balance Wheel, Pulley and Boxes.

No rigid Boxes; Nos. 1, 2, 3, 5 and 6 have Ball and Socket Type Boxes; No. 7 has Swivel Boxes; All with compensating features for wear, well Babbitted, and with large Oil Chambers; Horsepower required on Nos. 1, 2, 3 and 7 Machines is 2 to 6, depending on the Size of Saw Blade used; Nos. 5 and 6 require 6 horsepower.



+TILTING TABLE

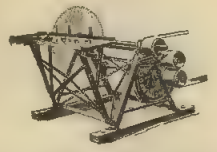
For sawing poles and cordwood into stove lengths; Table has Roller at one end; Balance Wheel and Pulley are interchangeable; Blade regularly to left of operator; Specify if wanted to right; Complete with Saw Guard, 72 Lb. Balance Wheel and 5 in. Diam. by 6 in. Face Pulley; Speed required, 1000 to 1600 revolutions per minute.

+Nos.	F334A	F334A4
Frame	Steel	Wood
Weight Each, Lbs.	265	274
Each	$55.60	58.80

+EXTENSION TILTING TABLE

More especially for long poles; Identical in construction and equipment with No. F334A with addition of 67 in. Tilting Table, so arranged as to extend nearly 5 ft. beyond Saw Blade; Table has Roller at one end; Will handle long poles about as easily as cordwood

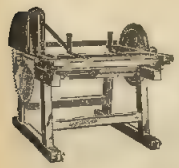
+No.	F334B
Frame	Steel
Weight Each, Lbs.	315
Each	$65.00



+NEW STYLE TILTING TABLE

For any size wood; Balance Wheel is under Frame, where it cannot interfere with the longest pole; Saw can also be stopped more quickly; Otherwise similar in construction and equipment with Nos. F334A and F334A4, 6 in. Diam by 6 in. Face Pulley; Speed required, 1200 to 1800 revolutions per minute.

+Nos.	F334C	F334D
Frame	Steel	Wood
Weight Each, Lbs.	342	382
Each	$77.50	81.30



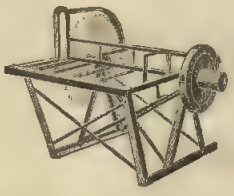
SLIDING TABLE

For poles or cordwood; Table has Anti-Friction Iron Roller which permits it to slide with minimum friction over Metal Track bolted to Frame; Roller at one end of Table; 5 in. Diam. by 6 in. Face Pulley; Speed required, 1000 to 1500 revolutions per minute.

Each

+No. F334E—Wood Frame $77 50

Weight 350 Lbs. Each



SUPERIOR

Sold without Saw; Heavy Angle Steel Frame, securely bolted; 1½ in. Cold Rolled Shafting; For Saw with 1⅝ in. Hole; 5½ in. Diam. by 6 in. Face Pulley; Boxes built on Ball and Socket Joint principle, are perfectly self aligning; Complete with 60 Lb. Balance Wheel and Tilting Table. Speed required, 1000 to 1300 revolutions per minute; Neatly finished in Red and Striped.

Each

No. P334F—For Saws up to 30 in. Diameter $46.50

Shipped Knocked Down; Weight 230 Lbs. Each

+All above, except No. P334F, for Factory Shipment only; F. O. B. Minneapolis; Shipped Knocked Down

BAND SAW MACHINES

One piece Cast Iron Frame, cored out hollow; Upper Shaft Bearing 1½x12 in.; Lower Bearing 1½x15 in.; Belt Shifter Handle on front; Oil Chamber provided for Loose Pulley; Table tilts to 45 degrees; Has quick-acting Lock and accurate Scale; Spring Tension for Saw; Counterbalanced Guide Bar.

Wheel, 36x2 in., 36 in. clear from Saw to Frame; Height clear under Guide, when raised, 36 in.; 28x32 in. Iron Table; 12x4 in. Tight and Loose Pulleys; Speed, 400 to 450 R. P. M.; Length of Saw Blade, 18½ ft.; Height of Table from floor, 40 in.; Height Over-all 92 in.; Floor space required, 39x57 in. Over-all; Power required, 2 to 3 Horsepower.

36 INCH; STANDARD

For all regular work in Factories, Planing Mills, Pattern Shops and other Woodworking establishments. Regularly furnished with ¾ in. Saw Blade, but any other Size, up to 1 in., may be selected without extra charge

Each

+No. F334M—Complete with Anti-Friction Guide above Table, Plain Guide below, Brazing Tongs, Brazing Clamp and Saw Blade $500.00

Weight 1200 Lbs. Each

One piece Cast Iron Frame, cored out hollow; Upper Shaft Bearing, 1x7 in.; Lower Bearing, 1x10¼ in.; Belt Shifter on side of machine under Table; Table tilts to 45 degrees; Has quick-acting Lock and accurate Scale; Spring Tension for Saw; Hexagon Steel Guide Bar.

Wheels, 20x1¼ in.; 20 in. clear from Saw to Frame; Height clear under Guide when raised 7 in.; 18x22 in. Iron Table; 7x3 in. Tight and Loose Pulleys; Speed, 400 to 450 R. P. M.; Length of Saw Blade, 10 ft. 1 in.; Height of Table from floor, 40 in; Height Over-all, 87 in.

With Plain Guides above and below Table, Brazing Tongs, Brazing Clamp and Saw Blade.

20 INCH; FOR LIGHT WORK

Each

+No. F334P—Belt Power; Floor Space Over-all, 20x30 in.; Weight 335 Lbs. Each $150.00

+No. F334R—Foot Power; Floor Space Over-all, 24x40 in.; Weight 415 Lbs. Each 170.00

+No. F334T—Foot and Belt Power; Floor Space Over-all, 30x40 in.; Weight 440 Lbs. Each 180.00

+Band Saw Machines, for Factory Shipment only, F. O. B. Leetonia, Ohio

PEDAL PADS, GEAR SHIFT EXTENSIONS,

ALLEN PEDAL PADS

PAT. MAY 9TH. 1916

Pad No.	Make of Car.
18	Allen.
9	Apperson to 1916.
19	Apperson 1916-1918.
6	Apperson 1916-1921.
2	Auburn 1915-1918.
6	Auburn 1914.
21-A	Auburn 1919-1921.
18	Briscoe.
12	Buick 25.
1	Buick 40 1913-14-15.
1	Buick 35 1914-1915.
1	Buick Six to 1918.
15	Buick Six 1918-22.
18	Cadillac 1914-1921.
21-A	Case 1919-21.
4	Chalmers to 1915.
15	Chalmers Six 1916-21.
13	Chandler.
14	Chevrolet 4-90.
17	Chevrolet Baby Grand. to 1921.
21-A	Cleveland.
10	Cole to 1917.
14	Cole 1918-1921.
21-A	Columbia Six 1917-1921.
1	Cunningham 4-B.
6	Daniels "S" Model R
16	Daniels "S" Model D
8	Davis Six 1920.
8	Dixie
14	Dodge.
3	Dorris 1919-1921
20	Dort.
16	Dupont.
3	El-Car 1920.
18	Elgin 1918-1921.
10	Essex 1916-1921.
4	F.I.A.T.
10	Flat—Baby.
0	Ford.
3	Franklin 1912-1921.
8	H. C. S.
4	Halladay.
11	Handley-Knight.
21-A	Hanson Six.
6	Haynes 1913-1917.
1	Haynes 1918-21, including Haynes "60."
21-A	Heines.
2	Hudson.
3	Hupmobile 1913-1914.
17	Hupmobile 1915-1916.
4	Hupmobile 1917-1921.

Pad No.	Make of Car.
15	Jackson 1915-1921.
10	Jordan.
13	King Eight.
2	Kissel Kar 1913 1918.
6	Kissel Kar 1919-1921.
1	Lafayette 1920-1921.
4	Leach 1920-1921.
4	Lexington to 1917.
21-A	Lexington 1918-1921.
18	Liberty Six.
11	Lincoln.
13	Little.
14	Locomobile 6 to 1917.
6	Locomobile 1918-1921.
13	Maibohn.
9	Marmon
4	Maxwell 35 1914.
3	Maxwell 25 1915.
7	Maxwell 1916 1921.
3	McFarland Six 1914-1918.
4	McFarland Six 1917.
6	McFarland Six 1918-1921.
12	Mercer 1911-1915.
20	Mercer 1916-1921.
13	Mets.
9	Mitchell 1917.
10	Mitchell 1913-16, 1920-21.
10	Moon.
20	Moore 1920-1921.
2	Nash Six and Four
1	National 1915-1921.
21	Nelson.
11	Oakland 1914 1917.
13	Oakland Little Six 1916-1921.
1	Oldsmobile.
8	Overland to 1915.
15	Overland, Models 75 and 90, 1916 1918.
11	Overland, Model 4, 1920-21.
11	Packard 1914-21 (including single six.)
18	Paige Six 1916 1921
21	Patterson to 1920.
4	Patterson 1921
19	Peerless.
10	Pierce Arrow.
6	Premier 1911-1915
2	Premier 1915-1920.
20	Reo.
2	Revere
10	Roamer 1917-1921. Rolls-Royce.
13	Saxon Six.
21-A	Saxon Four 1920-1921.
16	Scripps-Booth 1915-1918
13	Scripps-Booth 1919-1921.
11	Sheridan.
1	Skelton.
13	Standard 1919.
17	Standard 1920-1921.
19	Stearns-Knight 1916-1921.
4	Stevens Salient Six 1917 21.
13	Stevens-Duryea, Model D.
19	Stevens-Duryea, Model B.
3	Studebaker line. 1915-18
10	Studebaker 20-30-40.
15	Studebaker 1919-1921.
10	Stutz 1918 1921.
8	Stutz Bearcat 1917-1921.
2	Templar 1919-1921.
20	Velie.
2	Westcott 1917-1919.
8	Westcott 1920-1921.
8	Willys-Knight 1917-1921.
1	Winton to 1916.
6	Winton 1916-1921.
15	Wills-St. Claire.

All Nos ..... Set $1.50

GEAR SHIFT EXTENSIONS

HUGHES & MELLIN

Adjustable Three-Piece

Car—Year	No.
Allen	7
Apperson	10
Atterbury Truck	8
Auburn, 1918	9
Auburn, 1919-20-21	23
Anderson	8
Briscoe	18
Buick, 1914-15-16	7
Buick, 1917 1921	1
Cadillac	6
Case, 1918	15
Case, 1919-1920	9
Chalmers, 1919, 1920	6
Chandler, 1916-17 18-19	0
Chandler, 1920-21	20
Chevrolet, 1916	4
Chevrolet, 1917, 1918	12
Chevrolet, 1919-20 21	29
Cleveland	4
Cole, 1916, 1916	23
Cole, all others	11
Columbia, 1919, 1920	8
Comet	9
Commerce Truck	12
Commonwealth	9
Crow Elkhart, 1919 20	17
Crow Elkhart, 1921	9
Cunningham	8
Daniels	16
Davis	1
Dixie Flyer	9
Dodge	2
Dort	4
Dorris	11
Elcar	4
Elgin-Sport and 1920 Sedan	9
Elgin	4
Empire	12
Essex	17
Ford up to 1919	30
Ford 20 and closed cars	31
Franklin, 1916	12
Franklin, all others	20
Gardner	4
G. M. C. Truck No. 14-21-41	12
Grant	8
Grant Truck	9
Haynes, screw through ball	23
Haynes, ball screws off	10
Hudson Super Six, 1917-18-19	14
Hudson Super Six, 1920	17
Huffman	17
Hupmobile up to 1917	10
Hupmobile, 1918-19-20	19
H. C. S.	11
Interstate	9
Jackson, 1916	1
Jackson, 1917, 1918	17

Adjustable Three-Piece

Car—Year	No.
Jones	23
Jordan, 1916, 1917	8
Jordan, 1918-19 20-21	12
King, 1917 18-19	3
King, 1920	10
Kissel Kar, 6 Cyl.	12
Kissel Kar, 12 Cyl.	0
Kissel Kar, sport model	11
Lexington, 1916, 1917	12
Lexington, 1918 19-20	11
Leach	8
Liberty, 1917-18-19	8
Liberty, 1920	25
Lincoln	2
Maibohn	9
Marion Handley	9
Master Truck (Puller & Sons Trans.)	12
Master Truck (Brown Lipe Trans.)	8
Maxwell, 1916-17-18-19	1
Maxwell, 1920	24
McFarland Six	8
Metz	10
Mitchell	13
Monroe	4
Moon, 1916 17 18	9
Moon, 1919, 1920	10
Moreland Truck	8
Nash	2
National, 1916	12
National, 1917, 1918	9
National, 1920	10
Nelson	21
Oakland, 1916-17-18	5
Oakland, 1919 Sedan, 1920, M 34, B 34	20
Oakland, 1919 (Special)	1
Oldsmobile	18
Oldsmobile, 43a, 45b, 48, 8-Cyl.	29
Overland, 75-90-4	2
Overland, with solid ball	15
Packard	26
Packard Single Six	11
Paige	12
Patterson	8
Pathfinder (Warner Trans.)	9
Pathfinder (Brown Lipe)	12
Peerless, 1916-17 18-19	8
Peerless, 1920	10
Pierce Arrow	28
Pilot	9
Pullman	12
Reo	6
Revere	10
R. and V. Knight	10
Roamer	9
Saxon	19
Scripps Booth 6-Cyl	18
Scripps Booth 4-8-Cyl	12
Scripps-Booth 4 M C 1919-20	7
Stephens Salient Six	4
Standard Eight	23
Stewart Truck	8
Studebaker	3
Studebaker Little Six	34½
Stearns, 1919, 1920	27
Sheridan	11
Stutz	15
Templar	25
Tulsa	9
Velie	8
Vim Truck except 1920	36
Vim Truck, 1920	0
Willys-Knight	15

NO.	EACH
2	$1.75
14, 15, 19, 28	2.00
Ford to 1919	1.75
Ford No. 31 (nickeled, black ball)	2.00
All other Nos.	1.50

Number 15 may be used on any car with a solid ball where the shank is round. Number 19 may be used on any car with a solid ball where the shank is square. If the name of your car is not mentioned in this list, send name, model and year of car to us and we will have one made to fit.

"HUMMER" MECHANICAL TRAINS

Manufactured by the American Flyer Co. The best low priced mechanical trains on the market. The manufacturer stands back of every outfit
Heavy stamped sheet metal, steel gears, steel geared pinions, band rails, strong steel deck works. Each set in partitioned box

F3220—14½ in. bright enameled, 7 in. black locomotive, 1 in. green tender, 8 in. red and yellow passenger car, 4 section circular track, 60 in. circum. In one set in partitioned box.
Doz. sets, **$6.50**

F3218—19½ in., bright enameled, 7 in. black locomotive, 3 in. green tender, 8 in. red and yellow passenger car, 5 sections circular track (forming oval) and switch track forming oval circum. In one set in partitioned box.
Doz. sets, **$8.00**

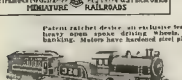
F3216—25 in., bright enameled, 7 in. black locomotive, 3 in. green tender, 8 in. red and yellow passenger car, 5 sections circular track, 60 in. circum., cutout in tube station, 3 in. metal arm, red, white and blue semaphore.
½ doz. sets in partitioned box.
Doz. sets, **$10.50**

Made in America
American Flyer
The Trade Mark Guarantee of Reliable Railroad Material
Registered U.S. Patent Office
MINIATURE RAILROADS

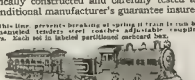
MECHANICAL TRAINS

The train with the guarantee—over two and a half million are in use. They are a reproduction of the well known American railway equipment. All parts are scientifically constructed and carefully tested at the factory before shipment. The unconditional manufacturer's guarantee insures your profit and helps make customers

Pattern ratchet device an exclusive feature of this line prevents breaking of spring if train is run backward. Black enameled cast iron engine-heavy steam space driving wheels, black enameled tenders and other durable couplings latest track improvements including banking. Motors have hardened steel pinion gears. Each set in labeled partitioned cardboard box.

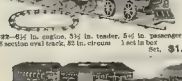


F3222—6¼ in. engine, 3½ in. tender, 5½ in. passenger car, 8 section oval track, 32 in. circum
1 set in box
Set, **$1.10**



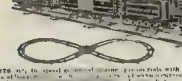
F3223—6½ in. speed governed engine, 4 in. tender, 6¼ in. parlor car, 10 section oval track, 105 in. circum
1 set in box
Set, **$1.35**

F3224—6½ in. speed governed engine, nickeled piston rods, brake 4 in. tender 5½ in. baggage car with sliding door, passenger car, 10 section oval track, 105 in circum.
1 set in box
Set, **$1.55**

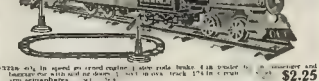


F3278 6½ in. speed governed engine, piston rods with brake 4 in. tender, passenger and baggage car with sliding doors, 10 sections curved track, 105 in. circum, switch, 1 set in box
Set, **$2.10**

F3228—6½ in. speed governed engine, 4 slide rods, brake 4 in. tender, 6¼ in. passenger and baggage car with sliding doors, 1 set in box, track 10 sections circum, 105 in. with semaphore
Set, **$2.25**



F3230—6½ in. speed governed engine, nickeled piston rods, brake, 4 in. tender, 6¼ in. passenger and baggage cars, 12 section straight and curved track, 165 in. long, forming oval and figure 8 switches 1 set in box.
Set, **$2.35**

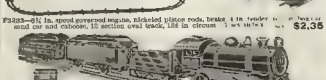


F3283—6½ in. speed governed engine, nickeled piston rods, brake, 4 in. tender, 6¼ in. passenger and car and caboose, 10 section oval track, 105 in. circum
Set, **$2.35**

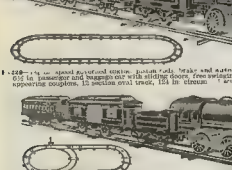
F3220—6½ in. speed governed engine, piston rods, brake and automatic stop, 4 in. tender, 6¼ in passenger and baggage car with sliding doors, free swinging double trucks and disappearing couplers, 12 section oval track, 165 in. circum
Set, **$2.65**

F3215—6½ in. speed governed engine, 4 in. tender, 6¼ in. passenger and baggage car with sliding doors, 10 section oval track, 105 in. circum., 1 automatic stop section, 1 double forked painted to represent mountain scene, blue steel station, one adjustable semaphore
Set, **$3.00**

F3247 [illegible] starting throttle, 4 in. tender [illegible] passenger and baggage car with sliding doors, free swinging double trucks and disappearing couplers, 10 section curved and straight track, 1 automatic stop section, 1 switch, 1 crossover forming oval, circle and figure 8
Set, **$3.35**



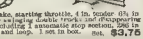
F3252—7½ in speed governed engine, piston rod, brake, starting throttle, 4 in. tender 6¼ in passenger and baggage car with sliding doors, free swinging double trucks and disappearing couplers, 10 section curved and straight track including 1 automatic stop section, 286 in. long, 2 switches, 1 crossover forming oval, circle and figure 8
Set, **$3.75**



F3250—7½ in speed governed engine, piston rods, brake, starting throttle, 4 in. tender, 6¼ in. passenger and baggage car with sliding doors, free swinging double trucks and disappearing couplers, 10 section curved and straight track, 1 automatic stop section, 1 switch, 1 single and 1 double arm semaphore, turntable, bumper, bridges, tunnel and station. 1 set in box.
Set, **$6.25**

MECHANICAL TRAIN TRACK SECTIONS

Fit "American Flyer," "Hummer" and practically all mechanical trains.
Length 10¼ in., machine cut graded tracks, substantially made. 3 doz. sections in box



F3236—Straight..... Doz. sections **65c**
F3237—Curved..... " **65c**

IMPORTED MECHANICAL TOYS

The pick of the foreign market—many new and clever toys that will make an irresistible appeal to the kiddies. And you can name mighty interesting prices and at the same time make a good profit.

Mechanical Snake—12 in., jointed wood body on wheels, bright green and yellow finish, crawls like wriggling snake.
F6530—½ doz. in box . . . Doz. $1.80

Short Auto—7 in., bright litho car, driver, four 1½ in. disc wheels, long running springs.
F6544—½ doz. in pkg . . Doz. $2.00

Motorcycle and Side Car—7 in., bright colored litho, three 3 in. open spoke wheels, chauffeur, 2-step side car, long running springs.
F6539—½ doz. in pkg . . Doz. $2.25

Auto Wagon—6½x6 in., bright litho car and driver, four 1¼ in. open spoke wheels, long action, runs straight or in circle.
F6540—½ doz. in box . . Doz. $2.25

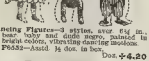
Tumbling Figures—3 styles, aver. 7½ in., clown, bear and frog, bright litho, viewed by turning forearms, figures turn somersault.
F6542—½ doz. in box . . . Doz. $3.00

Flying Fowls—3 styles, aver. 7 in., chicken, chicks and raven, bright litho, 2 wheels run and flap wings.
F6551—½ doz. in box . . . Doz. Out

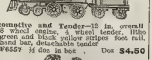
Fowl Asst.—3 styles, aver. 7 in., rooster, hen and duck, bright litho, 3 solid wheels, long spring action.
F6545—½ doz. in box . . . Doz. $3.00

Revolving Figures—3 styles, aver. 6½ in., bear, monkey and frog, bright litho figures on base, run in circle, umbrella removed.
F6548—¼ doz. in box . . . Doz. $3.50

Dancing Figures—3 styles, aver. 6½ in., bear, baby and duck, negro, painted in bright colors, vibrating dancing motions.
F6533—Asstd. ½ doz. in box . . Doz. $4.20

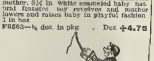


Locomotive and Tender—12 in. overall length, locomotive, 4 wheel tender, litho green and black, color stripes, foot rail, band bar, detachable handle.
F6527—½ doz. in box . . . Doz. $4.50



Mother and Baby—9 in., litho enameled mother, 5½ in. water enameled baby, natural finish, revolves, carries baby, mother lowers and raises baby in playful fashion, 1 in box.
F6263—¼ doz. in pkg . . Doz. $4.75

Bucking Goat and Clown—8 in., bright litho goat and barrel cart, clown driver, runs forward in circle and bucks.
F6557—¼ doz. in box . . Doz. $5.25



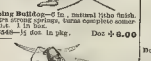
Warbling Bird in Cage—6 color bright litho bird in gilt cage, brass enameled base, gilt corners, long action, bird moves and twitters, ½ doz. in box
F6505—7 x5½ in. . . Doz. $6.00
F6508—10½x8½ " . . " 12.00

Jumping Bulldog—6 in., natural litho finish, extra strong springs, turns complete somersault, 1 in box.
F6546—½ doz. in pkg . . Doz. $6.00

Dancing Bear—8 in., brown enameled vibrating dancing motion.
F6552—½ doz. in box . . Doz. $6.00

Stubborn Pig and Clown—8½ in. 5-color bright litho, long spring action, circles forward, backward and stops.
F6562—½ doz in box . . Doz. $6.00

Bucking Broncs—6½x7 in., 4 color bright enameled cowboy, black, enameled horse, blue litho metallic forward bucking broncs, 1 in box
F6585—¼ doz. in pkg . . Doz. $6.50



Mechanical Weight Lifter—8x5½ in., bright litho clown and base, footsteps 100 lb. wt., on stand, clown mechanically raises and lowers weight with hands
F6561—½ doz. in box . . Doz. $7.25

Bicycle Rider—8 in., brightly painted imitation rubber tires, rider, pedals chain gear driving spring, runs in circle
F6556—½ doz. in box . . Doz. $8.00

Dancing Figures—8 in., bright litho, waltzing action, long running springs.
F6554—¼ doz. in box . . Doz. $8.25

Cat and Mouse—6½ in., black enameled cat with illuminating eyes, commercial that gives spark, which makes eyes flash, gray mouse, long action, cat chases mouse.
F6536—½ doz. in box . . Doz. $9.00

Garage and Machines—8x5½ in., bright litho garage, painted doors, windows and photo pictures, roof, tank 1 in., open space wheels, bright litho machines 5½ in., 4 open spoke wheels, long action runs straight or in circle
F6180—1 set in box . . Sch. $7.75

Mechanical Beetle—6½ in., brightly painted insect, motion crawls, stops. Hits wings when stopped, crawling, during spring. Key attached.
F6554—½ doz. in box . . Doz. $9.50

Billiard Champion—6½ in., litho figure, black in litho table, figure with cue effects balls automatically, litho numbered pockets, coins long action, 1 in box
F6557—¼ doz. in pkg . . Doz. $9.50

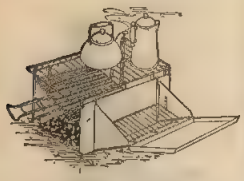
Street Roller—6½x3 in., exact miniature of street roller, dark green finish throughout, round by hand, runs forward and in circle, long coiling spring.
F6159—½ doz. in box . . Doz. $11.00

Musical Clown and Performing Dog—7 in., bright litho clown with violin, 4½ in. dog with drum, litho base, clown plays music, dog beats time, clown plays violin and dog dances.
F6549—1 in box . . . Doz. $12.00

ANNOUNCEMENT

Items marked with the Maltese Cross (✠) had not arrived at the early date we went to press. In many cases they will be in when we receive your order. Those that are not in will be placed on Back Order and we will notify you regarding each number so that you can keep on Back Order or make a different selection.

NUGGET FOLDING CAMP STOVES

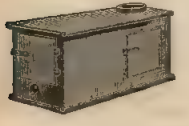


Size 13x21½ in. Frame and all bars made of selected heavy steel wire. Wind shields made from best polished steel sheets. All cross bars reinforced with a bar which is attached at right angle. All joints are securely welded together. Legs extend below sides and are sharpened so that they can easily be shoved into the ground to hold the stove in position. Has detachable oven made of polished steel sheets.

No. 4—Size 13x21½ in., outfit complete consisting of camp stove, broiler and toaster, detachable oven, extension handle, frying pan 10x2 in., and canvas kit bag, size stove folded 23x13x4 in. .....each $8.50

ONE IN A CRATE, WT 12 LBS.

OUTING STOVES



No. T60C—Outing, sheet steel, folding, with hinged doors, sliding circular joints, size 26x10x11½ in., oven 8x10x6 in., takes 5 in. pipe, w't 12½ lbs. .....each $9.20

ONE IN SHIPPING CASE

FOLDING CAMP STOVE

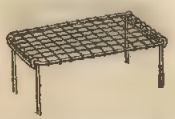
AMERICAN

Open, Ready for Use

To operate, remove cover, place the tank in position and the stove is ready to light. No loose parts to become lost. Nothing to screw together or assemble. No alcohol or torch required to light it. It produces an intensely hot flame when burning at full capacity, although the burners can be regulated to a low fire if desired. It is only necessary to generate one burner, this produces the gas for the second burner which may be turned on or off at will.

No. T3—"Kamp-Kook," two burner enclosed in a neat black enameled steel case with handle. Size of stove folded 14½ in. long, 8 in. wide, 3½ in. high. Burns gasoline, w't 8 lbs., each $10.00

CAMP GRATES

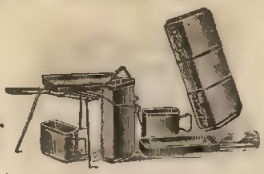


REVERSIBLE standing or folding broiler.

No. 129—One piece, 9x14 in., w't per doz. 18 lbs. .....per dozen $15.00

No. 130—Double, 14x18 in., w't per doz. 36 lbs. .....per dozen $21.50

POCKET KOOK-KITS

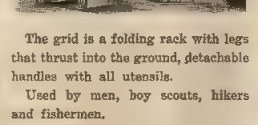


Can be easily put together and taken apart. The two pans are designed for use as separate frying pans or roasting pans, by simply placing both bottoms together, one on top of other. The rims are seamed to form close fitting vessels. Will fit any coat pocket.

No. 2R—Consists of two 9x4x1 in. pans, two 4½x2½x3 in. drinking cups, one 4½x2½x3½ in. coffee, soup and water boilers, all made of heavy tin with detachable heavy wire handles, a collapsible fire grate 7x8 in. with four heavy wire legs, 7½ in. long, all parts on grate electric welded, w't 2 lbs. .....per dozen $56.00

TWO DOZEN IN A CARTON

UPTON'S SCOUT MESS KITS



The grid is a folding rack with legs that thrust into the ground, detachable handles with all utensils.

Used by men, boy scouts, hikers and fishermen.

No. 1R—Size packed 8x4½x2½ in., consists of 1 cup, 1 frying pan, a kettle for making coffee and stewing, one nickel plated galvanized wire grid, w't 1½ lbs., complete in a khaki case with strap for carrying from shoulder .....per dozen $40.00

ACETYLENE HUNTING LAMPS

BRILLIANT SEARCH LIGHT, 6×2¾ in generator, convex glass, 4 in. in diam., style 2 adjustable candle flame burner, hinged front door to shut off light, 3 ft. of ¼ in. rubber tubing, leather head strap, w't complete 2 lbs.

This lamp develops 150 candle power, with candle flame burner, single lens type, in double lens 200 candle power.

No. 2S—Single lens, per dozen $142.80

No. 2SD—Double lens, with heavy magnifying 2½ in. bull's eye lens, per dozen $159.60

ONE IN A BOX

JUSTRITE, brass, heavily nickel plated, 18 candle power, with lighting attachment, folding handles.

Carbide can included with lamp.

Also used for camping, hunting, fishing and boating.

No. 95—3 in. reflector burns **4 hours,** w't per doz. 8 lbs., per dozen $36.00

No. 100—2½ in., reflector, burns **3 hours,** w't per doz. 9 lbs., per dozen $27.00

Suitable for mine superintendents, inspectors, mining engineers, watchmen, campers and automobilists. Will not blow out.

No. 10A — Justrite, brass nickel plated, 20 candle power, bulls eye lens, automatic generator, controls gas, flame controlled by valve, burns 5 to 6 hours with 3 oz. of carbide, w't per doz. 36 lbs. ...per dozen $96.00

REV-O-NOC GASOLINE OUTDOOR TORCHES

The gasoline feed pipe runs through the tank and is securely fastended on top to the hinge. In use the entire torch is supported by hinge and pipe, with no strain on tank.

Made for rough usage. Strong winds will not extinguish the flame.

Japanned iron tank, four quart capacity, malleable iron safety hanger.

SINGLE BURNER

No. T0—Full one dozen box, w't per doz. 60 lbs. .....per dozen $46.00

No. 0—Less than one dozen, w't per doz. 60 lbs. .....per dozen $46.00

DOUBLE BURNER

No. 2—W't per doz. 65 lbs., per dozen $68.00

No. 7—Extra burners, for Nos. 0 and 2 .....per dozen $22.70

ONE DOZEN TORCHES IN A BOX

Our Very Best is the Very Best.

H.S.B. & CO.
REV-O-NOC

We Stand Behind the Brand.

KLONDYKE KAMP KOOKER

Built for hard service as well as convenience, front end of stove is a tight rimmed cover that can be removed leaving the opening in shell full sized for packing oven, grub box and camp outfit, takes wood 23 in long, legs so attached they will bear any weight liable to be put upon them, will stand on soft dirt or sand without sinking.

The oven makes a convenient place to keep the grub and coffee warm, as well as being a perfect baker.

No. F151G—Klondike Kooker, 22 gauge smooth steel, back well riveted to body, front reinforced by heavy band iron rim, 14×30 in., 5 in. pipe collar, w't 20 lbs., each stove with five joints of 14 inch collapsible pipe, not including oven and grub box★ .....each $13.90

No. F152G—Oven, 22 gauge smooth steel, curved on lower side and flat on top, 13×15×9¼ in. outside, 11×15×6 in., inside, takes 10×14 in. bake pan, w't 9 lbs. oven with 10×14 bake pan, each★ $9.40

No. F153G—Grub box, 26 gauge galvanized iron, dust-proof, will hold an entire cooking outfit for four people, 12×18×9¼ in., tight rimmed cover, w't 5½ lbs., each★ $4.90

★ Items Marked Thus ★ Are Shipped From Factory Only.

THE HUSUN YACHT COMPASS.

LA BRUJULA "HUSUN" PARA YATES. *BOUSSOLE DE YACHT "HUSUN."*

(AC)

The best compass yet designed for yachts, and an instrument of proved efficiency and design. Of the liquid type it consists of a 5½-inch compass bowl fitted with efficient expansion chamber, and a 4-inch floating card made of special celluloid with black markings on white. The bowl swings in gimballs of approved pattern, making navigation possible in the heaviest roll. The window is thoroughly watertight and the compass has a storm-proof lamp fitted at the side.

Particulars and Prices on application.

C'est la meilleure boussole qui existe pour yachts; instrument de précision et de construction éprouvée. Elle est du type à liquide et consiste en une boussole montée sur cuvette de 140 mm. de diamètre avec chambre d'expansion et carte flottante de 102 mm. de diamètre, faite en celluloïde spécial avec graduation en noir sur blanc. La cuvette oscille sur balanciers d'un modèle perfectionné, rendant la navigation possible même par les plus gros roulis. La fenêtre est absolument hermétique à l'eau et la boussole est munie d'une lampe latérale, résistant à toutes les tempêtes.
Renseignements et prix sur demande.

Esta es la mejor brujula diseñada hasta ahora para yates, y es un instrumento de eficiencia y diseño bien probados. Es del tipo liquido y consiste en una caja de brújula de 140 mm. provista de una cámara eficiente de expansión y de una rosa flotante de 102 mm. fabricada de celuloide especial con graduaciones negras sobre un fondo blanco. La caja oscila entre balancines de un modelo acreditado, lo que hace posible la navegación por fuerte que sea el balanceo. La ventanilla es completamente estanca y la brújula va provista de un farol á prueba de tormentas fijado al lado.
Precios é informes detallados á solicitud.

S. SMITH & SONS (M.A.), LTD.,

179-185, Great Portland Street, London, W. 1.

AND AT PARIS, THE HAGUE, MILAN NEW YORK, BUENOS AIRES, SYDNEY, WELLINGTON, N.Z., CAPE TOWN, JOHANNESBURG, BANGKOK, AND SOURABAYA.

Telephone / *Téléphone* / Teléfono } MAYFAIR 6550 (6 lines).

Telegrams / *Télégrammes* / Telegramas } "SPEEDOMET, TELEW, LONDON."

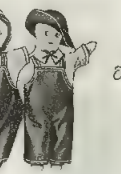
AMERICAN DOLLS

The fact that we pile up such enormous sales on American dolls each year is proof that we offer values that other distributers do not match. American made dolls are particularly popular because unbreakable. Note especially our remarkable offerings in "Mama" dolls and dolls that talk.

"LITTLE TOTS" SOFT BODY DOLLS

F7890—9 in., stuffed litho girl body a large syndicate store seller 1 doz. in box
Doz. **95c**

F7891—Girl and boy asst., 11½ in., painted and dated character features, lawn and checked percale waists, blue linene overalls, hats and bonnets to match. Asstd 1 doz. in box.
Doz. **$2.25**



F7892—6 styles, 13 in., painted and dated hair and features, solid color sleeps, gingham plaid and checked percale bodies, novelty hats, white felt hands, wiggly feet. Asstd 1 doz. in box.
Doz. **$4,10**

EFFANBEE "BABY MADELINE" DOLLS

With Moving Eyes

Composition heads and hands, excellent flesh finish painted features, bobbed mohair wigs moving eyes, well modeled cork stuffed bodies concealed hip and shoulder joints, position limbs, white organdie dress with solid color lace trim, underwear, organdie bonnets, white socks, leatherette bootees. 1 in box

F7834—16½ in., Each, **$3,40**
F7835—21 " " " **4,20**
F7836—23 " " " **5,50**

UNBREAKABLE DOLLS

Excellently modeled composition heads, painted features, well stuffed bodies, hip and shoulder joints.

F7200—2 styles, 13 in., heads with breast plate, painted hair rompers and dream of asstd. checked percale, trimmed with braid and lace. Asstd. 1 doz. in box.
Doz. **$2.25**

F7203—4 styles, 13 in. composition head with large breast plate, painted hair, full composition arms, asstd. checked percale dresses and rompers. Asstd. 1 doz. in box.
Doz. **$2.65**

F7232—6 styles, 15½ in., composition head with large breast plate, painted hair, full composition arms, asstd. checked percale and novelty lawn dresses and rompers, and solid color linene and flowered voile dresses with lace trim, black shoe feet. Asstd. ¼ doz. in box
Doz. **$4,50**

F7207—7 styles, 19½ in., character heads, with extra size breast plate, painted hair, new jointed forearms, solid color and flowered aprons with lace trimmed necks and cuffs, with wide sash, socks, stockings, leatherette slippers each in box. Asstd. ¼ doz. in pkg
Doz. **$9,50**

"IDEAL" SLEEPING, WALKING AND TALKING DOLLS

Guaranteed moving eyes, flesh finish composition head and hands, stuffed body, hip and shoulder joints, underwear

F7357—28 in., composition forearms, bobbed mohair wig, when lead by hand doll walks naturally, flowered lawn dress, lace trim waist, neck and sleeves lace flounce on skirt, silk ribbon sash bonnet to match stockings, kid leather slippers. 1 in box
Each, **$2,40**

"MAMA" DOLLS—To Retail Up To $5.00

Soft bodies, velvet and composition heads, shoes and stockings all with "Mama" voices.

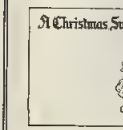
F7830—"Gem," 18 in., composition baby heads with breast plate painted hair and features, composition forearms, jacketed percale rompers, white piqué flutter collar and wide ruffle, lawn sash, hat to match, with elastic. 1 in box
Each, **$2,00**

"Flo-Vel" Dressed velvet face over bisque painted and dated hair and features, stitched flesh color hands, jacketed percale rompers, fancy braid on vest, wide lawn ruffle, bonnets with long wide tie strings. 1 in box
F7462 20 in. Each **$2,25**
F7463 " " " **3,00**

"Ideal," Double Voice—26 in. new modeled flirty eye position head, painted hair and features, composition forearms, silk checkered gingham rompers, braid trim, jacket with wide sash, tie strings, when tipped forward says "Mama," tipped backward cries
F7554—1 in box Each, **$3,75**

F7535—18 in., composition forearms, bobbed mohair wig, when lead by hand doll walks naturally, "Mama" voice, organdie dress with open edged neutral tone ecru, back sash ends and deep hem stitched ruffle, ecru silk stockings and to match slippers. 1 in box
Each, **$3,15**

USE CHRISTMAS PRICE TICKETS

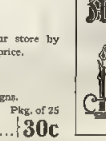


Put the Christmas atmosphere in your windows and throughout your store by using these attractive suggestion cards. Space on each card for item and price.

These cards are printed in red and green, size 5½x7 in. Two designs.

Pkg. of 25

V5013—Santa Claus design . . . . . .
V5014—Candle design . . . . . } **30c**



IMPORTED DOLLS

We advise you to order heavily of these goods as they are mighty scarce and growing more so every day

Imported Dressed Character Babies

Turning bisque head, painted features, baby expression, moving glass eyes, with real eyelashes, open mouth, tosca and brunette mohair baby wigs, hardened pressed paper body, matte finish, flesh tinted, chubby position limbs, hip and shoulder joints. Each in lace trim box

F6280—11½ in., white accordion pleated linene dress with silk braid trim collar and sleeve, white linene poke bonnet, lawn underwear, white socks and slippers. Each **$2.10**

F6272—12 in., blue radium silk dress, embroidery guimpe, shirred silk cap, lace ruche, lace trim underwear, blue socks and slippers, rubber backer. Each, **$2.40**

F6251—12½ in., smocked blue lawn dress, lace trimmed collar and sleeve, bread white trimmed straw hat, lawn underwear, white stockings and slippers. Each, **$2.90**

"Baby Mine"—White linen slip, braid trimmed white elderdown bonnet and jacket, lawn underwear, white socks and slippers.

F6270—10 in. ...Doz. **$14.50**

Imported Dressed Character Babies

Turning bisque head, painted features, baby expression, moving glass eyes, with real eyelashes, open mouth, tosca and brunette mohair wigs, bisque hardened pressed paper body, matte finish, flesh tinted, chubby position limbs, hip and shoulder joints.

F6291—13 in., blue lawn dress, white lace guimpe and trimmed V" neck, lawn underwear, white straw poke trimmed bonnet, white stockings and slippers. Each in lace trim box. Each, **$2.90**

F6282—14½ in., white dotted swiss dress with flounce, lace trim sleeves, white lawn baby cap, lawn underwear, white stockings and slippers. Each in lace trim box. Each, **$3.10**

World's Finest Imported Dressed Dolls

Genuine bisque turning heads, teeth, large blue or brown glass moving eyes, curly mohair wigs—assid, blonde, tosca and brunette, jointed shoulders, elbows, hips and knees, well modeled bodies. Each with hat and footwear to harmonize or contrast with underwear.
Note: Sizes are actual measurements and do not include hats. Each in lace trimmed box.

F6153—20 in., jointed wrist, real eyelashes and painted eyebrows, lustrous periwinkle silk costume, side ruffle skirt, rosebud trim puff crown straw bonnet, lace trim underwear, white footwear. Each in lace trim box. Each, **$5.25**

F6141—20½ in., jointed wrist, real eyelashes and painted eyebrows, white organdie house, fancy white straw bonnet, lace trim petticoat, pink socks and slippers. Each in lace trim box. Each, **$5.75**

F6147—20½ in., jointed wrist, real eyelashes and painted eyebrows, Waltershausen sewed wig, pale blue lawn dress, deep ral lace yoke and sleeves, lace trim accordion pleated skirt, rosebud trim white straw bonnet, lace trim underwear, white footwear. Each in lace trim box. Each, **$6.90**

F6154—"Baby Mine," 20 in., jointed wrist, real eyelashes and painted eyebrows, silk fringe trim white elderdown coat, muff and blue silk flecal cap, blue yoke dress with ribbon sash, lace trim underwear, white footwear. Each in lace trim box. Each, **$7.90**

F6143—21½ in., jointed wrist, real eyelashes and painted eyebrows, silver embroidered batiste, lace edged bolero, pale crown roll brim hat to match, lace trim underwear, white footwear. Each in lace trim box. Each, **$9.50**

F6144—25 in., jointed wrist, real eyelashes and painted eyebrows, lustrous blue silk dress, ribbon ruche trim neck and bottom of skirt, rosebud trim white straw bonnet, lace trim underwear, white footwear. Each in lace trim box. Each, **$11.00**

FOLDING WOOD DUCKS

ILLINOIS RIVER PROFILE DECOYS, 3 in group, 2 male and 1 female, painted in natural colors to represent male and female, w't per doz. 10 lbs.

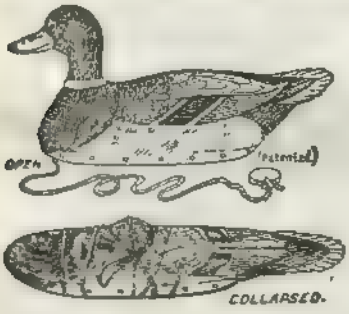
Four floats take one dozen decoys. One cord and anchor for three decoys.

No. 6—Mallards, w't per doz. 9½ lbs., per dozen $14.70

No. P6—Canvas Backs, Blue Bills, Black Mallards, Whistlers, Red Heads, Teal, Widgeons, w't per doz. 10 lbs. .....per dozen $14.70

ONE DOZEN IN A STRONG SHIPPING CARTON

AUTOMATIC CANVAS DUCKS

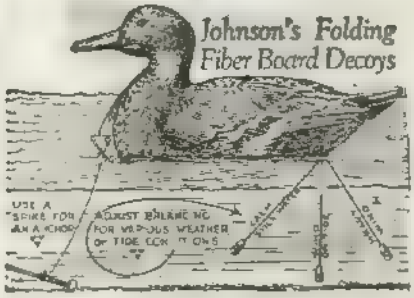


Open up automatically, no lever, no cranks, no air pressure, expand by means of spring when cord is unwound. Light in weight, pack in small space, can be collapsed quicker than any other decoy made, give good service and are hand painted, true to life.

No. 14—Collapsible decoys, mallard only, canvas body, wooden float and head block, one wire spring head support, one wire tail support, complete with anchor and cords, assorted 8 males and 4 females to the dozen .....per dozen $18.20

ONE DOZEN IN A NEAT CARRYING BOX, WITH HANDLE; W'T PER DOZEN ABOUT 13½ LBS.

JOHNSON'S FOLDING FIBRE-BOARD DUCKS



MALLARD

Cheapest, lightest and most compact decoy made. Easily carried in a hunting coat.

No. 25—Folding decoys, life size, drakes and hens assorted. A good photographic reproduction of the Mallard duck is printed in natural colors on tough jute fibre board similar to stock used in manufacture of high grade shot gun shells, and so thoroughly waterproofed they last indefinitely when properly cared for. Decoy is composed of fiber-board body which folds flat, with full instructions printed on bottom of each decoy. Thin cedar float, also thoroughly waterproofed, slides snugly inside body to spread decoy and float it. The balancing device attached to the float makes tipping impossible. No more effective decoy made and none to be compared for convenience, w't complete 8 oz., per dozen $8.80

ONE DOZEN IN TWO COMPACT CANVAS BAGS WHICH CAN BE CARRIED IN HUNTING COAT

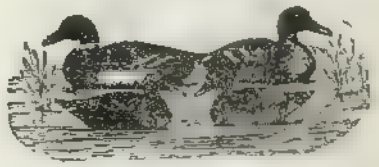
Carry a line of goods upon which you can rely.

The dealer who carries H. S. B. & Co. Brands marks his store as a place where the better goods are sold.

A house with over sixty-seven years' experience stands back of our brands.

MASON'S DECOY DUCKS

SOLID



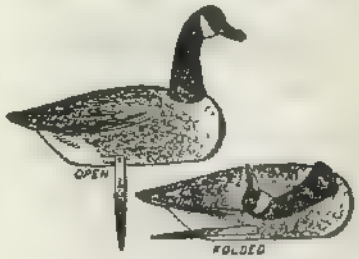
Flat bottomed, float evenly on water, well balanced, assorted, one-third female, two-thirds male.

Glass eye, cedar decoys, good quality from selected white cedar. Painted in natural colors true to life. **Mallard, Blue Bill, Red Head, Sprig Tail, Blue Winged Teal** and **Canvas Back.**

No. T1—Full one dozen box, per dozen $22.00
No. 1—Less than box ...dozen 22.00

ONE DOZEN IN A BOX, AVERAGE W'T PER DOZ. 30 BS.

FOLDING CANADA GEESE



No. 12—Canada geese decoys for land shooting, profile wooden bodies, folding wooden heads and folding wooden sticks which may be pressed into the ground, natural appearing, w't per doz. 6 lbs., per dozen $18.20

ONE DOZEN IN A NEAT CARRYING BOX

LIVE DECOY FASTENERS

Fastens around neck and has many advantages over leg fastening. Ducks can remain in water longer, as they have better use of their feet. Don't splash water all over you when taking them up.

No. 17—Samuell, flat brass collar, hinged to admit of fastening, riveted ring for cord, w't per doz. 3 oz. per dozen $4.00

FOLDING WOOD DUCKS

ILLINOIS RIVER PROFILE DECOYS, 3 in group, 2 male and 1 female, painted in natural colors to represent male and female, w't per doz. 10 lbs.

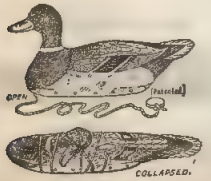
Four floats take one dozen decoys. One cord and anchor for three decoys.

No. 6—Mallards, w't per doz. 9½ lbs., per dozen $14.70

No. P6—Canvas Backs, Blue Bills, Black Mallards, Whistlers, Red Heads, Teal, Widgeons, w't per doz. 10 lbs. .....per dozen $14.70

ONE DOZEN IN A STRONG SHIPPING CARTON

AUTOMATIC CANVAS DUCKS

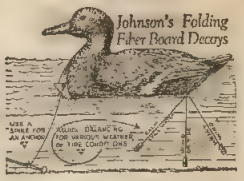


Open up automatically, no lever, no cranks, no air pressure, expand by means of spring when cord is unwound. Light in weight, pack in small space, can be collapsed quicker than any other decoy made, give good service and are hand painted, true to life.

No. 14—Collapsible decoys, mallard only, canvas body, wooden float and head block, one wire spring head support, one wire tail support, complete with anchor and cords, assorted 8 males and 4 females to the dozen .....per dozen $18.20

ONE DOZEN IN A NEAT CARRYING BOX, WITH HANDLE; WT PER DOZEN ABOUT 13½ LBS.

JOHNSON'S FOLDING FIBRE-BOARD DUCKS



MALLARD

Cheapest, lightest and most compact decoy made. Easily carried in a hunting coat.

No. 25—Folding decoys, life size, drakes and hens assorted. A good photographic reproduction of the Mallard duck is printed in natural colors on tough jute fibre board similar to stock used in manufacture of high grade shot gun shells, and so thoroughly waterproofed they last indefinitely when properly cared for. Decoy is composed of fiber-board body which folds flat, with full instructions printed on bottom of each decoy. Thin cedar float, also thoroughly waterproofed, slides snugly inside body to spread decoy and float it. The balancing device attached to the float makes tipping impossible. No more effective decoy made and none to be compared for convenience, w't complete 3 oz., per dozen $8.80

ONE DOZEN IN TWO COMPACT CANVAS BAGS WHICH CAN BE CARRIED IN HUNTING COAT

Carry a line of goods upon which you can rely.

The dealer who carries H. S. B. & Co. Brands marks his store as a place where the better goods are sold.

A house with over sixty-seven years' experience stands back of our brands.

MASON'S DECOY DUCKS

SOLID

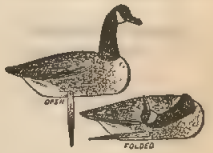
Flat bottomed, float evenly on water, well balanced, assorted, one-third female, two-thirds male.

Glass eye, cedar decoys, good quality from selected white cedar. Painted in natural colors true to life. **Mallard, Blue Bill, Red Head, Sprig Tail, Blue Winged Teal** and **Canvas Back.**

No. T1—Full one dozen box, per dozen $22.00
No. 1—Less than box ...dozen 22.00

ONE DOZEN IN A BOX, AVERAGE WT PER DOZ. 30 BS.

FOLDING CANADA GEESE



No. 12—Canada geese decoys for land shooting, profile wooden bodies, folding wooden heads and folding wooden sticks which may be pressed into the ground, natural appearing, w't per doz. 6 lbs., per dozen $18.20

ONE DOZEN IN A NEAT CARRYING BOX

LIVE DECOY FASTENERS

Fastens around neck and has many advantages over leg fastening. Ducks can remain in water longer, as they have better use of their feet. Don't splash water all over you when taking them up.

No. 17—Samuell, flat brass collar, hinged to admit of fastening, rivveted ring for cord, w't per doz. 3 oz. per dozen $4.00

DECOY ANCHORS

No. 15—Made from galvanized, malleable iron, with large loop wide enough to go over the head of the decoys and small loop for anchor cord, w't per doz. 5½ lbs., per dozen $2.90

No. 16—Made from iron, japanned. W't about 1½ lbs. each. Is heavy enough to securely hold live, as well as wood, decoys, is not easily fouled in snags and very convenient for winding the anchor cord when not in use, per dozen $3.70

BALANCE WEIGHTS

FOR WOOD DECOYS

No. 18—Made of cast iron. Have eyelets for anchor cord and two nail holes for fastening the weight to the decoy. These weights are easily attached, will balance the decoys so that it sets upright properly in the water, also are cheaper than lead strips, w't per doz. 8½ lbs., per dozen $1.80

GAME CARRIER

No. 0—Barnum, 2 tinned steel loops, stitched tan duck connecting strap, length folded 8 in., w't per doz. 2½ lbs. .....per dozen $3.00

LOOSE

CALLS

No. 760—Duck, cocobola wood, nickel tip .....per dozen $8.40

ONE DOZEN IN A BOX

No. 768—Allen's, duck, wood shell, nickel plated end, per dozen $14.00

The Allen Cal is as near perfection as can be attained being tuned by Mr. F. A. Allen, who is one of the oldest and most expert duck hunters in the country.

HALF DOZEN IN A BOX

THE BROADBILL DUCK CALL will reproduce, with perfect accuracy, any call of our native ducks; will not break in tone by loud calling, operates with less effort than any other call on the market and has excellent tone quality.

It is made in two pieces, allowing the reed to be fastened securely to one side by the use of a metal clamp. Reed is made of the very best hard rubber and for durability cannot be improved upon.

The duck bill shape of the mouth piece gives the user a chance to manipulate this call much more freely than other calls, thus to obtain better results.

No. 767—W't per doz. 1⅞ lbs., per dozen $12.60

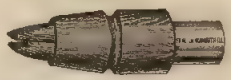
ONE IN A CARDBOARD BOX WITH FULL INSTRUCTIONS. ONE DOZEN IN A CARTON. SIX DOZEN IN A SHIPPING CARTON

Non-corrosive and is easily adjusted to suit the different voices of Mallard, Pintail, Widgeon and other ducks without effecting the reed.

No. 769—Ditto's, duck, fitted with hand made rubber reed, rubber and cork inner parts, outside part of hard maple wood and spun brass, per dozen $21.50

ONE DOZEN IN A BOX

CALLS



This Call is the most natural toned, easiest blowing Crow Call on the market. Is always ready for use. Any inexperienced hunter can successfully call Crows. The Crow is one of the worst destroyers of our game birds and their nests. Every sportsman should help rid the country of these pests, who are busy from early dawn until dark, traveling in flocks over fields, prairies, woodlands and lakes, destroying the nests and young birds. In closed season the hunter enjoys this pastime of hunting Crows.

No. 780—Allen's Crow, wood shell, nickel plated end, w't per doz. 1½ lbs., per dozen $11.90

ONE DOZEN IN A BOX

OLTS FAMOUS CALLS

DUCK

A high grade call with a natural sound. It is constructed of hard rubber throughout. The reed is made of a specially prepared hard sheet rubber. This construction insures the calls against damage by climatic conditions.

No. 766—W't per doz. 1½ lbs., per dozen $11.20

ONE DOZEN IN A BOX

CROW

Easy to operate and will imitate a crow perfectly. It is made of fine hard polished rubber. The reed is also rubber. This construction insures the call against climatic conditions.

No. 764—W't per doz. 11 ozs., per dozen $11.20

ONE DOZEN IN A BOX

CROQUET SETS

FOUR BALL SETS

Rock Maple balls and stakes painted and varnished. Plain beaded mallets, with maple handles painted, ten polished iron arches, and small dove-tailed box with hinged cover.

NO.	Wt. Set	SET
6X	12½ lb.	$4.00

Turned by hand, neatly painted, eight inch long mallets, finely striped, short maple handles, selected polished three striped balls, two large beaded eight color stakes, heavy galvanized arches. This set is much preferred by professional players.

NO.	Wt. Set	SET
2	18½ lb.	$7.50

Maple polished, turned by hand, highly finished with genuine white shellac and lathe polished. Mallets eight inches long, short handles, large black bands in center of mallet. Select fancy striped balls, two large beaded four colored stakes with heavy galvanized arches.

NO.	Wt Set	SET
00	19 lb.	$12.00

Professional set. Made of selected boxwood. Large fancy turned 7-inch mallets, painted with colors that will not fade. Large, short handles, tournament wickets and sockets.

NO.	Wt. Set	SET
Peerless	20 lb.	$15.00

EIGHT BALL SETS

Rock Maple balls and stakes painted and varnished. Plain beaded mallets, with maple handles painted, ten polished iron arches, and small dove tailed box with hinged cover.

NO.	Wt. Set	SET
8	20 lb.	$6.00

Professional set. Turned by hand, neatly painted, eight inch long mallets, finely striped short maple handles, selected polished, three striped balls, two large beaded eight color stakes, heavy galvanized arches. This set is much preferred by professional players.

NO.	Wt. Set	SET
2X	29 lb.	$9.00

Maple polished, turned by hand, highly finished with genuine white shellac and lathe polished. Mallets eight inches long, short handles, large black bands in center of mallet. Select fancy striped balls, two large beaded four colored stakes, with heavy galvanized arches.

NO.	Wt. Set	SET
00X	36½ lb.	$12.50

Professional set. Made of selected boxwood. Large, fancy turned 7 inch mallets, painted with colors that will not fade. Large, short handles, tournament wickets and sockets.

NO.	Wt. Set	SET
Daisy	40 lb.	$16.50

Every croquet set contains a book of instructions and rules. All boxes are flat, with hinge cover and dove tailed. Croquet crated three in a crate.

SIX BALL SETS

Rock Maple balls and stakes painted and varnished. Plain beaded mallets with maple handles painted, ten polished iron arches and small dove tailed box with hinged cover.

NO.	Wt. Set	SET
7	17½ lb.	$5.00

Professional Model. Full varnished and striped balls, handles and stakes, eight inch long mallets and short handles, painted and striped, galvanized arches.

NO.	Wt. Set	SET
5½	22½ lb.	$8.50

IMPORTED BEADED BAGS

Well made bags; all beads, floral and conventional designs. Hand crocheted, representing the latest creations in shape, design and colorings

J4418—8" x 7" black floral and green vase design, gunmetal cloth lined, bead fringe, mercerized crocheted top, cord drawstring. Assd ¼ doz. in box..... Doz. **$12.50**

J4419—6 3/4" x 6", small beads, dark background with light color floral design, cloth lined, beaded ball and tassel at bottom, mercerized crocheted top, cord drawstring. 1 in box. Each, **out**

J4420—7½" x 6½", small beads, floral design in light and dark colors, gunmetal cloth lined, mercerized crocheted top, cord drawstring. 1 in box. Each **$3.75**

J4421—8x8¾", full medal, small beads, light and dark color design, bead loops at bottom, 8 in. shell finish frame, cord handle, cloth lining with change pocket. 1 in box. Each **$4.75**

J4422—8½x8½", fancy shape, light color floral design on dark back ground, 5½ in shell finish frame, beaded top handle, silk tasseled lining, shirred side pockets with mirror, bead loops at bottom. 1 in box. Each **$6.50**

J4424—8x6¾", small beads, floral design in light and dark colors, bead loops at top, heavy silk cord drawstring with ornamental ends, silk lined, shirred side pockets with mirror, bead loops at bottom. 1 in box. Each **out**

CHILDREN'S AND MISSES' NOVELTY BAGS

J5330—3 colors, 4x5" size, genuine leather, brown, tan and gray alligator grain, metal shell covered tubed edges, nickel finish fabrikoid lined, cord drawstring. Doz. **$9.00**

J5202—3 styles, assd. green, blue and rose velvet with black patent cloth bottoms, 7 inches long, nickel finish, lined with assorted mirror-back change bag. Assd dle. Assd Doz. **$2.10**

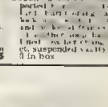
J5330—3 colors, 4x5" size, genuine leather, brown, tan and gray alligator grain, metal shell covered tubed edges, nickel finish fabrikoid lined, cord drawstring. Doz. **$9.00**

J5208—[illegible] leather tie-[illegible] with nickel frame, Persian leather lined, 5½x6 in. plain and fancy embossed frames, pocket and mirror, fancy cloth lined, wrist chain and strap handles. Assd ½ doz. in box Doz. **$3.85**

J5200—3 styles, in real leather [illegible] finish, 8 bell [illegible] bird [illegible] in [illegible] Doz. **$9.00**

J5206—3 styles, [illegible] pocket, [illegible] lined, nickel [illegible] handles. Assd ½ doz. in box. Doz. **$3.85**

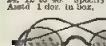
J5201—2 styles, 2 and 4 pc. shapes, 3 in. frame, fancy figured silk, 1 style with nickel ball pendant, strap handles. Assd. 1 doz. in box. Doz. **$1.95**



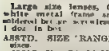
J5208—3 styles, [illegible] pocket, [illegible] lined, nickel [illegible] handles. Assd ½ doz. in box. Doz. **$9.00**

OPTICAL GOODS

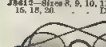
SPECTACLES—RIMMED



J8809—O-eye, gold alloy frame, straight temples, clamped ends, assd. sizes 8 to 24. 10 to 48. Doz. **$1.50**



J8631—O-eye, beveled lenses, nickel-ed steel frame and cable temples, assd. size ranges, 8 to 16, 10 to 24, 12 to 48. Specify size range. Assd 1 doz. in box. Doz. **$9c**



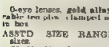
Large size lenses, O-eye, solid white metal frame and temples, enlarged bridge, screw rims and pieces. 1 doz. in box

ASSTD. SIZE RANGES—Specify sizes

J8813—Sizes 8 to 24, 10 to 48. Doz. **$1.60**

SOLID SIZES Specify sizes

J8814—Sizes 6, 9, 10, 12, 13, 15, 14, 16, 18, 20. Doz. **$1.60**



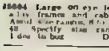
O-eye lenses, gold alloy frame and cable temples, clamped ends. 1 doz in box

ASSTD SIZE RANGES—Specify sizes

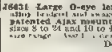
J8817—Sizes 8 to 24, 10 to 48. Doz. **$1.85**

SOLID SIZES Specify sizes

J8815—Sizes 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 20.... Doz. **$1.85**



J8804 Large O-eye lenses, gold alloy frames and cable temples. Assd size ranges, 8 to 24 and 10 to 48. Specify size range. Assd 1 doz in box Doz. **$1.95**

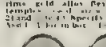


J8629—1¾ in. round optical convex lens, ground and polished both sides, gold alloy bridge and cable temples, clamped ends. Assd sizes 8 to 16, 8 to 40, 10 to 40, and 14 to 24. Specify size range. Assd 1 doz. in box..... Doz. **$3.75**

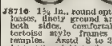
SPECTACLES—RIMLESS

J8631 Large O-eye lenses, gold alloy beveled and screw edge, double patented Alaska mountings, assd. sizes 8 to 24 and 10 to 48. Specify size range. Assd 1 doz. in box Doz. **$1.95**

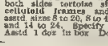
TORTOISE SHELL STYLE SPECTACLES



J8803—[illegible] round optical convex lenses, ground and polished, both sides, screw shell style rimmed frame, gold alloy bridge and temples, assd. sizes 8 to 24 and 10 to 48. Specify size range. Assd 1 doz in box Doz. **$4.50**

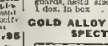


J8716—1¾ in. round optical convex lenses, finely ground and polished both sides, comfortable, flaring tortoise style frames and skull temples. Assd 8 to 30, 8 to 40, 10 to 40 and 14 to 24. Specify size range. Assd 1 doz in box Doz. **$4.50**

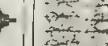


J8714—1¾ in., round optical convex lenses, ground and polished on both sides tortoise shell style celluloid frames and temples. Assd sizes 8 to 30, 8 to 40, 10 to 30, and 14 to 24. Specify size range. Assd 1 doz in box. Doz. **$4.50**

EYE GLASSES
Clear White Lenses

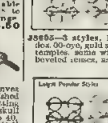


J8611—O-eye lenses, rimmed, nickel plated, steel adjustable spring bridge, corrugated steel eyewire. Assd [illegible] 1 doz in [illegible] Doz. **$9c**

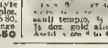


J8643—O-eye lenses, rimless, gold alloy spring, corrugated steel bridge, assd sizes 8 to 24, 10 to 48. 1 doz. in box Doz. **$1.75**

GOLD ALLOY SPECTACLE ASSTS.

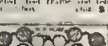


J8805—3 styles, 1½ doz. O-eye, ¾ doz. 00-eye, gold alloy frame, riding temples, some with cable temples, beveled lenses, assd. sizes 8 to 40. Doz. **$1.85**



J8406—1 [illegible] round convex lenses, ground and polished on both sides, [illegible] gold alloy frame, [illegible] small temple, ½ doz. riding temples, ½ doz. gold alloy, [illegible] temples. Assd 1 doz. in box Doz. **$4.50**

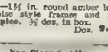
SUN GLASSES AND GOGGLES



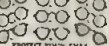
J8928—Goggles, 1¾x2½ round, amber color celluloid lenses, tortoise shell style frame and hinged riding bows. 1 doz in box. Doz **95c**

J8416—[illegible] metal [illegible] nickel [illegible] frame and [illegible] 1 doz. box Doz. **$1.60**

J8961—[illegible] round [illegible] amber, smoke, small style frame, hinged riding bows. Assd. 1 doz. on card display card. Doz. **$2.75**

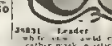


J8804—1¾ in. round amber lenses, tortoise style frame and skull temples. ½ doz. in box. Doz. **$4.00**



J8965—3 styles, 4 colors, 1½ and 1¾ in. round and drop eye, assd. lenses, amber, amethyst, fleuzel and smoke colors, shell style frames, hinged riding bows. Assd 2 doz. on assd display card in box Doz. **$6.00**

SMOKED AND COLORED GLASS SPECTACLE ASST.

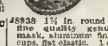


J8642—Spectacles, 3 color-large eye plain glass lenses, nickel alloy frames and temples, pointed screwtops. Assd 3 smoked, 2 blue and 2 amber colors. Assd. 1 doz. on display card in box..... Doz. **$1.75**

WINDY WEATHER AND AUTO GOGGLES

J8931 Leader [illegible] round white [illegible] gold ribbed [illegible] rubber [illegible] 1 doz in box. Doz. **75c**

J8807—1¾ in round white lenses, assd. colored genuine leather, bound edges, ventilated aluminum finish cups, wide flat elastic. Assd 1 doz in box. Doz. **95c**



J8838 1¾ in round white lenses, fine quality genuine leather mask, aluminum finish ventilated cups, flat elastic. 1 doz. in box Doz. **$1.95**

SCREEN HINGED SIDE GOGGLES

J8941 4 [illegible] 1¾ [illegible] round [illegible] colored [illegible] screen hinged sides, velvet bound adjustable flat elastic [illegible] Each **95c**

HEAVY CUT GLASS

HEAVY CUT GLASS ROUND NAPPIES

Popular designs, deep cutting on heavy crystal blanks.

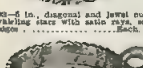
J8026—6 in., diagonal fan and hob center, 3 whirling stars, scalloped edges. Each, **$1.25**

J8275—6 in. diam., 3 large satin cut petal flowers, jewel centers, bright cut foliage. Each, **$1.65**

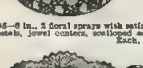
J8291—6 in., diagonal and basket cutting, 3 large hob stars with satin rays, scalloped edges. Each **$1.75**

HANDLED NAPPIES

J8280—6 in., diagonal and jewel cutting, 3 whirling stars with satin rays, scalloped edges. ..... Each. **$1.35**



J8295—6 in., 3 floral sprays with satin ribbed petals, jewel centers, scalloped edges. Each, **$1.45**



J8537—6 in., fancy shape, allover bright diagonal and basket cutting, scalloped edge. Each **$2.10**

FOOTED FRUIT OR NUT DISHES

J8237 6x2½, satin petal blossoms, jewel centers, brilliant leaves, 6 point star bottom with jewel rays. ..... Each. **$1.75**

Hexagon Shape—1 rosette petal floral sprays with brilliant centers, polished leaves, jewel cut outer edge inside 3 spoke cut ovals at floral spray bottom, scalloped rims.

J8553—6x2¼ ..... Each **$2.10**
J8575—8x3½ **3.40**

FOOTED FERN DISH

J8306—8x4¼ in., deep miter cut band, bright cut floral spray, satin cut ribbed petals, fitted with removable polished metal lining. Each, **$3.95**

BONBON, OLIVE OR PICKLE DISHES AND SPOON TRAYS

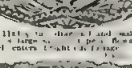
J8336—3 fancy shapes, size 7 in., bright miter and basket cutting, bright cut floral sprays, ribbed petals, jewel centers. Asstd. 6 in pkg. **$1.50**

J8234—4½x8½ in., 3 floral jewel cutting, 2 floral sprays with conventional poinsettia jewel centers, and jewel edge. Each. **$1.85**

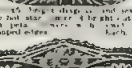
J8377 8x5½, 3 fancy miter cut and 2 whirling hob stars, beaded jewel cutting. Each. **$1.80**

CELERY TRAYS

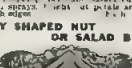
J8241 10½x4¼ in., 2 large whirling stars, diagonal cutting, large hob star bottom. Each. **$1.00**



J8248 11½x4½ in., diagonal and basket cutting, 2 large stars, 2 floral sprays with jewel centers, bright cut foliage. Each. **$2.50**

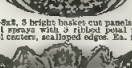


J8297 12x4½ in., bright diagonal and jewel cut panels, hob star center, 4 bright cut sprays satin petals, 2 with jewel centers, scalloped edges. Each. **$3.35**



J8416 12½x4½, bright diagonal cut panels, 2 floral sprays, 2 bright cut petals and satin finish edges. Each **$5.25**

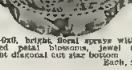
FANCY SHAPED NUT OR SALAD BOWLS



J8190—8x2, 3 bright basket cut panels, bright floral sprays with 3 ribbed petal flowers, jewel centers, scalloped rim. Ea. **$2.40**

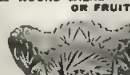
J8181 11½x7½x4, 4 diagonal jewel and hob star panels, bright cut floral sprays, 6 ribbed petal blossoms with jewel centers, scalloped edges. ..... Each. **$3.50**

RELISH DISHES

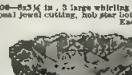


J8247—9x6, bright floral sprays with satin ribbed petal blossoms, jewel centers, bright diagonal cut star bottom. Each, **$2.25**

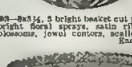
DEEP ROUND SALAD OR FRUIT BOWLS



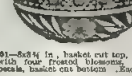
J8808—8x3¼ in., 3 large whirling stars, diagonal jewel cutting, hob star bottom. Each, **$2.00**



J8083—8x3¼, 3 bright basket cut panels with bright floral sprays, satin ribbed petal blossoms, jewel centers, scalloped edges. Each, **$2.25**



J8091—8x3¼ in., basket cut top, floral band with four frosted blossoms, bright cut petals, basket cut bottom. Each, **$2.85**



J8004—8x3¼, bright basket cut top and panels, 6 floral sprays, satin ribbed petal blossoms, jewel centers, scalloped edge. Each, **$2.50**

STAR VALUE

J8006—8x3¼, bright jewel cut panels and bottom, large hob star center, four big floral sprays, satin petal blossoms with jewel centers, scalloped edge. Extra quality blank and finish. Each. **$4.50**

J8083—9x3½, fancy paneled, allover deep brilliant miter and hob star cutting, scal loped edges. ..... Each. **$6.98**

FOOTED COMPORT

J8426—6½ x 8½, diagonal and basket cut panels, 3 bright floral sprays, 6 ribbed petal flowers, cut stem, star cut bottom notched edge. Each. **$2.60**

2 PC. SUGAR AND CREAM SETS

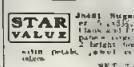
J8457—Sugar 6½x3½, creamer 5½x3½, basket cut band bright floral sprays, 2 ribbed petal blossoms jewel centers scalloped edges. SET (2 pcs.) **$2.50**

STAR VALUE

J8459 Sugar 6½ x 3½, creamer 5½x3½, diagonal and bright jewel cutting, hob star bottom, 2 whirling star centers, satin finish. SET (2 pcs.) **$2.75**

STAR VALUE

J8481 Sugar 6 x4 creamer 5½x3½, extra quality blank and finish, 2 jewel cut panels, large hob star bottom, 2 bright floral sprays with satin petals, jewel centers, scalloped edges. SET (2 pcs.) **$3.50**



J8462—Sugar 6½x3½, creamer 5½x3½, allover bright basket and jewel cutting, 4 large hob stars, scalloped edges. SET (2 pcs.) **$4.25**

7 PC. WATER SETS

J8501—7 pieces, bright floral sprays, 3 ribbed petal flowers, large ribbed petal flower bottom, 4 pc. jug 10¼ in high, SIX 5¼ in. tumblers to match SET (7 pcs.) **$6.00**

J8502—7 pieces, bright diagonal cutting 3 large whirling stars, 4 pt. jug, 10¼ in high bright beaded top, cut lip and handle, large star bottom, SIX 5¼ in. tumblers to match SET (7 pcs.) **$6.50**

J8403—7 pieces, diagonal and jewel cut band, bright cut floral sprays, satin petal blossoms with ribbed edges, jewel centers, 4 pt. jug, 10 in high, notched top, cut lip and handle, large star bottom, SIX 5¼ in. tumblers to match .... SET (7 pcs.) **$11.75**

Don't Wait—The Time is Short!

If you write your order for Holiday Goods today you are sure to have it filled practically complete. If you wait we may be out of certain popular sellers. In either event it is wise to specify "SEND THE NEAREST LIKE IT."

DON'T WAIT—ORDER TODAY!

IMPORTED & NOVELTY DOLLS

Your toy department as a whole is largely judged by the dolls you carry, in what variety and at what prices. We keep many thousands of doll makers working 12 months a year to supply our tremendous demand

IMPORTED SOLID CHINA DOLL

F9780—13½ In., white china body, painted features, blonde and brunette hair 1 doz. in box. Gro. 42c

IMPORTED JOINTED CHINA DOLL

F9798 — 15½ In., white china, painted features, hair and shoes, jointed arms and legs. 2 doz. in box (Total 48c) Doz. 24c

CELLULOID DOLLS

Heavy celluloid bodies, painted features and hair unless stated; hollow feather weight bodies

F7160 F7161 F7163 F7162

Lapel Pin Kewpies—1¼ In., used for favors. F7160—3 doz. in box (Total 81c) Doz. 27c

Floating Dolls—Fixed legs. F7161—3 in., fixed arms. 1 doz. in box .... Doz. 36c
F7165—4½ in., fixed arms. 1 doz. in box " 65c
F7162 5 in., moving arms, painted footwear ½ doz. in box Doz. 89c

F7175 F7176 F7177

Character Doll Assts—Asstd. boy and girl embossed character heads
F7180—Aver. 5½ in., boy with jointed arms, girl with jointed arms and position limbs. Asstd. ½ doz. in pkg. Doz. $1.26
F7178—6¾ in., jointed arms and limbs. Asstd. ½ doz. in pkg. Doz. $1.85
F7177 8¼ in., jointed arms and limbs. Asstd. ¼ doz. in box Doz. $3.26

F 1712-78 F 1 6 in

Baby Models—Jointed arms & legs, stout bodies, elastic strung

PAINTED HAIR		
F1721— 4¾ in	½ doz in box	Doz $0.89
F1722— 6 "	¼ "	" 2.00
F1723—10 "	⅛ "	" 6.25
MOHAIR WIGS—		
F1785 ¼ in	½ doz. in box	Doz $2.25

IMPORTED CELLULOID DOLLS

F9445 F9446 F9433-34 F9435

F9446—12 Mfg. cm., 4¾ in. fixed arms and legs, painted features. Asstd. 6 doz. in box Total 48 Doz. 24c

F9310 8 styles 5½ in., painted features, hair dress and head. Asstd. 6 doz. in box Total 576 Doz. 42c

Jointed Arms — Standing position, painted features and hair. 1 doz. in box.

F9440—4 in. Doz. 46c

F9441 — 5½ in. Doz. 87c

F9440-41

Red Band Baby Dolls — Featherweight body, standing position, jointed arms and legs, flirtatious expression, painted features and hair, red band around head.

	In.	In Box	Gro.	Doz.
F9431	4	1		$0.45
F9432	4½	½		.65
F9434	6	½		1.65

Jointed Arms and Legs Painted features and hair 1 doz. in box Doz. $0.65
F9435—4½ in. in Box

IMPORTED BABY DOLLS

F9675 F9676 F9827 F9824

All Bisque—Flesh tinted, painted features and diaper, jointed arms and legs, nursing bottle

F9675—4 in. 1 doz. in box Doz. 72c
F9676—4½ in. 1 doz. in box Doz. 84c
F9827 5 in. ½ doz. in box Doz. $1.10

Composition Body 8 in. composite on body, bisque head, curled arms and legs, socket head, painted hair and features, trimmed slip
F9824 1 doz. in box Doz. 90c

IMPORTED "Baby Bud" Bisque Dolls

Roguish eyes, movable position arms

Fine flesh tinted bisque, painted features, roguish eyes, exposed upper shoulders, movable position arms which give different expressions as well, pose, each in box

F9806—4 in. 1 doz. in pkg. Doz. 84c
F9807 5½ in. 1 doz. in pkg Doz. 96c

TURNING HEAD CHINA LIMB DOLLS

Turning china head and breast plate, china forearms and legs, sawdust stuffed stronge red muslin body, painted features, hair and footwear Bchl exclusively by us

Regulation Assortment

Size	In Box	Doz
F9638	2 doz	$0.75
F9639	1 "	.89
F9660	1 "	.98
F9661	1 "	2.19
F9662	½ "	2.25
F9663	½ "	3.50

Character Head—Roguish expression.

Size	In Box	Doz
F9664	1 doz.	$0.75
F9665	1 "	.89
F9667	1 "	2.19
F9668	1 "	2.25
F9669	½ "	3.50

"UNIQUE" CRYING DOLL

F9830 — 6 In. composition head, red and blue striped gingham dress with lace collar & position cries when body is pressed 1 doz. in box Doz. 98c

IMPORTED JOINTED BISQUE DOLLS

F9648 F9650-9649

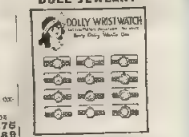
F9648—4½ in., flesh tinted body painted hat and ribbon, features, shoes and stockings 1 doz. in box ..Doz. 36c

Head Dress—Standing position, flesh tinted body painted, features and hair, blue head around head, jointed arms 1 doz. in box
F9650—5½ in. Doz. 66c
F9646—4½ " " 78c

F9643 F9757

Stout Bodies—Flesh tinted, stout bodies, painted eyes, hair, features, shoes and stockings. ½ doz. in box
F9643 6 in. Doz. $1.25
F9657 7½ " " 1.85

DOLL JEWELRY



Wrist Watch—Miniature enameled gilt case with printed dial, pink rose bud silk ribbon adjustable bracelet, necklace with adjustable buckle.
F9844—2 doz. on card in pkg (Total 720) Doz. 35c

Wrist Watch and Necklace Set—Miniature embossed silk watch, set, printed dial, pink or blue silk wrist ribbon adjustable bracelet, necklace in assrtd. color imit. jewels Each set on card.
F9845—1 doz. sets in pkg Doz. sets 75c

CANDLES, CANDLE HOLDERS, ETC.

BIRTHDAY CANDLES

Genuine stearic wax burns slowly and brightly

Midget—3¼ In., 2 doz. in box Asstd 2 doz. boxes in carton.

F4090—White. . . .
F4091 Pink . . . .
F4092—Red. . . .
F4093—Cream . . .
F4094—Yellow . . .
(Total 720) } Doz. in box 39c

Midget Asst 4 boxes pink, 2 white, 2 red, 2 green, 2 yellow
F4097 -2 doz. boxes in carton Doz. boxes 39c (Total 720)

"MONARCH" CANDELABRUM OR BANQUET CANDLES

5½ In., superior quality twist pattern. Wrapped, 1 doz. in box

F4104—Red . . .
F4105—Pink .
F4106—Green . .
Box

"ROSE" CAKE CANDLE HOLDERS

For midget candles on holiday, birthday cakes, etc. Absolutely harmless composition spiral candle holder center. Each on pin to stick in cake, 100 in box.

F4138—White . . . .
F4135 Pink . . . .
F4137—Red . . . .
F4138—Green . . . .
F4139 Yellow . . . .
F4140—Assrtd proportioned box selling colors
} of 100 BOX 75c
BOX of 100. 75c

SNAPPING MOTTO ASST.

F4060 4¾ in., assrtd styles and colors, finest crepe paper, large, lithographed decorated motto forces
Box

"ROCK-A-BYE" BABY SWINGS

F2681—Heavy white washable duck on enameled steel frame with strong web supporters 1 to pkg.. Each $0.89 Doz. 9.90

F2682 Snow white washable duck, blue enameled steel frame with handrods which can be folded flat on frame or seat when not in use 1 to pkg. Each $1.20

F2683—Washable duck, enameled steel frames can be instantly converted from a bed to a swing by simply sliding rod from end of frame to the center. 1 in pkg.

IMPORTED CLOTH BODY DOLLS

EMBOSSED HAIR, COMPO HEAD STATIONARY PAINTED EYES

Pink cloth body, hair stuffed; shoulder, hip and knee jointed composition head, embossed hair, painted features; composition hands, with slippers; 1 doz in box

	Doz
GT102—Length 9 ins.	1.75
GT103—Length 10½ ins.	2.00
GT104—Length 15 ins.	3.85

MOHAIR WIG, COMPO HEAD, STATIONARY PAINTED EYES

GT108—Length 13 ins. Doz 4.25

EMBOSSED HAIR, METAL HEAD STATIONARY PAINTED EYES

Pink cloth body, hair stuffed; nicely shaped and well made; shoulder, metal head, embossed hair, painted eyes; shaped wood arms, shoulder and hip jointed; removable slippers and stockings; 1 dozen in box

	Doz
GT116—Length 10½ ins.	2.15
GT117—Length 12½ ins.	4.25
GT118—Length 14½ ins.	5.75
GT119—Length 17½ ins.	8.75

Our shoofies are made of the best quality hardwood, enameled in bright colors, well braced, strong and durable

MOHAIR WIG, COMPO HEAD SLEEPING EYES

Pink cloth body, hair stuffed; shoulder, hip and knee jointed bisque head, sleeping eyes; fine features; parted mohair wig, ribbon bow; composition arms, removable slippers and stockings

GT143—Length 10 ins.; 1 dozen in box. Dozen ..... Out

GT144—Length 13 ins.; ½ dozen in box. Dozen 6.25

GT147—Length 16 ins.; 1/3 dozen in box. Dozen 8.50

GT148—Length 17 ins.; each in box. Each ..... .82

CLOTH BODY DOLLS
CHINA HEAD AND FEET

T1231—Glazed china head, hands and limbs, painted embossed hair and features; cloth stuffed body; length 4½ ins.; 3 dozen in box. Dozen ..... .39

T1232—Same, larger, length 6½ ins. in box. Dozen ..... .72

T1233—Same, larger, length 7½ ins.; 2 dozen in box. Dozen ..... .82

T1234 — Same, larger, length 9¼ ins.; 1 dozen in box. Dozen ..... .95

WITH HAIR WIG

T1240—Same, assorted boys and girls; red cloth bodies, hair wig; length 9 ins.; 1 dozen assorted in box. Dozen 1.25

ROLLY POLLYS

T2581—Assorted 3 kinds, clown, Foxy Grand Pa and Hooligan, stationary heads; papier mache, nicely modeled and finished in bright color enamels; height 5½ ins. 1 dozen in box. Dozen 2.10

T2582 — Assorted 4 kinds, Foxy Grand Pa, clown and boy and girl, turning socket head, bright color enameled papier mache; height 7½ ins.; ½ dozen in box. Dozen 3.75

T2583—Assorted 5 kinds; two clown, Policeman, Hooligan and boy; beautifully finished in bright color enamels, on heavy papier mache base; turning socket heads; height 10½ ins.; each in box. Dozen 6.50

T2584—Assorted 6 kinds, Policeman, Hooligan, chariot boy clown, Foxy Grand Pa and bob hair girl large size, well modeled and finished in bright color enamels; socket turning heads, paper covered bases; height 12 ins.; each in box. Each 72

ACROBAT DOLLS

WHISTLING

T4383—3½ in. jointed arm celluloid doll, finished in bright colors, on trapeze bar with 3¼ in. turned wood whistle handle; length over all 7½ ins.; 2 doz. in box. Doz. .43

WHISTLING

T1766—Jointed arm and leg acrobat on wire trapeze, stained wood handle; when whirled whistles; length 10 ins.; 1 doz. in box. Dozen ..... .72

FULL JOINTED

T1770—Cut out lithographed clown figure; bright colors, jointed arms, legs and knees, with string; height 13 ins.; 1 doz. in pkg. Dozen ..... .70

T2568—Lithographed cut out figure, mounted on wood, with jointed arms and legs; two piece stained wood spring base, when base is pressed together figure whirls round and round; height 13 ins.; 1 dozen in package Doz 92

JUMPING JACKS

T1767—Black wood [illegible] figure in bright colors by sliding stick can be made to perform many amusing stunts; length 17½ ins.; 1 doz. in pkge. Dozen 85

T1768—Cut out stained wood acrobat, jointed arms and legs; when upright bars are pressed together performs various acrobatic feats; length 9 ins.; 1 doz. in box. Dozen 83

T1768—Lithographed [illegible] clown, jointed arms and legs; operated by string, when string is pulled, acrobat performs; length 7 ins.; 1 doz. in box. Dozen ..... .40

T1769—Turned wood head and body with jointed arms and legs; nicely stained in bright colors, mounted on double bar by pressing bars together acrobat performs; length 9½ ins.; 1 doz. in box. Dozen ..... .89

T2573—Jointed arm and leg acrobat with clown on platform, stained in bright colors; by pressing on spring acrobat will jump on chair, turn handsprings, [illegible] etc., 5½x5½x3¾ in high. 1 doz. in carton. Dozen 42

T2574—Jointed wood acrobat [illegible] forming on moving ladder; stained in bright colors; when spring is pressed monk performs many amusing feats; on base 2¼x4 7½ in. high, 1 doz. in carton. Dozen 42

T2408—Wood sawing [illegible] lithographed in colors on cut out wood base; when spring is pressed, saws wood, [illegible] shows squeeze through knot; 7 in. wide, 7½ in. high; 1 doz. in box. Dozen 1.25

SURPRISE BOXES

T2381—Assorted 3 kinds; composition heads, crepe tissue costumes; fancy paper carved wood box 2¾x2¾x2½ ins., 1 doz. in carton. Dozen 45

T2384—Assorted 6 kinds; comic and doll heads; nicely modeled composition heads; bright painted features, crepe paper costumes; loud voice, fancy paper and picture covered box 4x4 x4 in.; 1 doz. in box. Doz. 1.00

T2382—Assorted 3 kinds, clowns and comics; composition painted heads, crepe tissue paper costumes; fancy paper covered wood box 3x3x3 ins., 1 dozen in carton. Doz. 85

T2385—Heavy cardboard box; with hinged lid finely modeled composition head, dressed figure, springs up when bonk is released; size 4x4x4 ins.; ½ dozen in pkge. Dozen ... 2.15

T2383—Assorted three kinds; comic composition heads; color crepe tissue costumes, nicely painted, in fancy paper covered box 3¾x3¾x3¾ in. 1 dozen in pack

Dozen 181

We are showing the most complete as well as the best selected and the biggest value line of Imported Dressed Dolls in today's market, life like faces, variety of styles, with costumes right up to the minute in matrial and designing; these are the dolls for you to buy

RUBBER DOLLS AND ANIMALS

Strictly first quality new rubber finely modeled with whistle voice.

RUBBER DOLLS

T4276 — White rubber babies, nicely embossed, tinted features; with whistle; height 3⅜ ins.; 1 dozen in box. Dozen ..... .68

T4278—White rubber girl doll; flowing curls, large picture hat; tinted cheeks; height 6 ins.; 1 dozen in box. Dozen..... 1.95

T4277— Assorted 3 styles boys and girls; white rubber, tinted features; finely modeled; with whistle; height 3¾ ins., 1 doz. in box. Dozen ..... .79

DRESSED DOLLS

T4268-Best quality white rubber, with whistle; assorted color worsted hood and skirt to match; height 4 ins.; 1 dozen in a box. Dozen... .88

T4269 — Same, larger height 5½ ins.; 1 doz. in box. Dozen..... 1.80

T4282—"Buster," white rubber, nicely modeled, painted features, red tie; with whistle, height 4 ins.; 1 dozen in box. Dozen ..... .88

T4270—Extra large white rubber doll; finely modeled; embossed hair, painted features; worsted skirt and hood; length 6 ins.; ⅛ dozen in box. Dozen ... 2.00

T4271 — Same, larger, height 7½ ins.; ¼ doz in box. Dozen.....3.25

T4284—Assorted 5 kinds, extra quality red rubber, finely modeled; height 6 ins.; each in box; 10 boxes in carton. Box of 10....1.75

T4272—Same, larger, height 9 ins., ½ dozen in box. Dozen.....4.20

RUBBER ANIMALS

T4283—White rubber animals dogs, cats, chicks, ducks, etc., finely modeled; on base; with whistle; average length 6 inches, ; 1 dozen in box. Dozen. ..... .88

T4287—Assorted 6 kinds, cat, horse, cow, donkey and dog; white rubber; average length 6 ins.; ½ dozen in box. Dozen.. .. 2.75

T4286—Assorted 6 kinds, 3 dogs, horse, sheep and cat; white rubber; average length 5½ ins.; 1 doz. in box. Dozen 2.15

T4288—Assorted 6 kinds, sheep, lion, goat, donkey, cow and dog; white rubber, average length 6 ins.; ½ dozen in box. Dozen..4.82

WHITE ENAMELED TOY FURNITURE

Steel frames, attractively designed; hardwood top, seats and back; extra heavy white glass enameled

Pressed steel angle frame, reinforced, wood top, seat and back; white enameled Mother Goose transfer decorated, in colors.

T7365—Chair; seat 9 in. in diameter, 10½ in. high; total height chair 19½ in. Each..... .2.45

T7366—Table; top 16 in. in diameter, 18 in. high. Each.....4.00

T7367 -In set, one table and two chairs, packed in box. Set.....8.00

NURSING BOTTLES AND SETS

T2117—Clear glass nursing bottle, red rubber nipple, length 3 inches; 1 gross in partitioned carton Gross.. .90

T2119 — Glass nursing bottle with rubber fittings; in box 1⅝x3½ in.; 1 doz. in pkge. Doz.. .39

T2118 — Red rubber nipple, celluloid shield, with wire ring; length 1¼ in.; 1 gross in box Gross .. .45

T2121 — Three piece set, nursing bottle nipple and rattle, in partitioned box, 2½x3 ins. Dozen.... 48

WASH STANDS AND BATH TUBS

T2102 — White enameled all metal, wash stand with mirror; gilt finished wash bowl and china water pitcher; gilt trim; size 2x3½x5½ in. high. 1 dozen in box Dozen 1.85

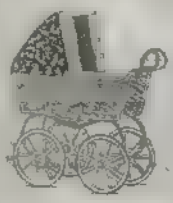
T2108 White enameled stand and reversible tub; gilt and nickel garniture, with faucet, bucket, sponge and sitting bisque baby doll; size tub 7x14 ins. 2¼ in. deep; ½ dozen in box Dozen 3.90

T2106 — Pink enameled all metal stationary tub with stand; faucet, bucket and sitting bisque baby doll; size tub 2x4 in., total height 4¾ ins.; 1 dozen in box Dozen ..... .88

T2109—Same as T2108, larger, with bucket, sponge, rattle, nursing bottle and 3 inch sitting bisque baby doll; size tub 5x10 ins., 2¾ ins. deep each in box. Dozen ...

T2107 White enameled stand, gilt trim; removable red enameled bath tub, gilt handles; sitting bisque baby doll; size tub 3x4½x1¾ in. deep; total height 6½ ins.; 1 dozen in box. Dozen..2.10

DOLL BUGGIES



T2510-White enameled body, and gear; 1½ in. wheels; gilt finished wire pusher; fancy trim cloth folding hood; size 1¾ x 4½ x 4¾ in. high; 1 dozen in box. Dozen .. .95

T2507—Same as T2510, larger, with imitation reed body; 2¼ in. wheels; size 2¾x5½x6½ in. high. ½ dozen in box. Dozen.....1.85

T2508—Same as T2507, larger; size 3x7½x8¾ ins. carton box Dozen . .3.75

Our wheel goods are the best selections of the best manufacturers; in material, construction; finish and long usage they can't be beat

MECHANICAL DOLLS FOR WINDOW DISPLAY

The Real Shimmy and Hula Dancers

T1841

T1842

T1841—Society shimmie, reproducing the movements of the famous shimmie dance; flesh color, composition, jointed arms, tinted features, organdie dress, marabou trimmed, gold ribbon hair band; key wind, long running height 15½ ins.; each in box. Each..... 2.85

T1842—Same as T1841, but flesh colored Hula dancer; each in box Each 2.85

T1843—Same as T1841, but dark skin finished; each in box Each 2.85

IMPORTED DOLLS

Here is the best selling and the best looking line of imported dolls in the world. Every number was selected because it was a little bit better than every other simular doll no matter where made. Plain type gives but a faint idea of the beauty, variety and originality of this wonderful showing.

"POPULAR" IMPORTED DRESSED DOLLS

TURNING BISQUE HEADS, painted features, glass eyes, bonde, tosca and brunette flowing and curly mohair wigs, JOINTED SHOULDERS AND HIPS, dresses and hats in assrd. colors, all with underwear, painted shoes and stockings, unless stated. NOTE. Measurements do not include hat.

F6021—2 styles, 7½ in., 6 color combinations white lawn and French dresses, mushroom hats and bonnets to match, each in box. Assrd. 1 doz. in pkg.
Doz. **$2.20**

F6026—3 styles, 7 in., moving eyes, flowered lawn French dress, apron and cloth coat costumes, felt hats and caps, each in box. Assrd. ½ doz. in box.
Doz. **$2.65**

F6033—3 styles, 10 in., moving eyes, assrd. color tarlatan dresses, Russian model, with bell, straw hats, white footwear, each in box. Assrd. ½ doz. in pkg.
Doz. **$2.65**

F6031—3 styles, 9½ in., moving eyes, red, blue and assrd. color lace trim dresses, bonnets to match and straw hats, each in box. Assrd. ½ doz. in box.
Doz. **$2.75**

F6034—3 styles, 9½ in., moving eyes, solid color and flowered lace trim dresses, straw hats, white footwear each in box. Assrd. ½ doz. in pkg.
Doz. **$3.25**

F6025—3 styles, 8½ in., white and colored tarlatan dresses, guimpe, middy and French styles, straw hats and tarlatan caps, each in box. Assrd. 1 doz. in pkg.
Doz. **$3.40**

F6032—3 styles, 10 in., moving eyes, plaid and plaited gingham, blue and red tarlatan dresses, straw and tarlatan hats, white footwear, each in box. Assrd. ½ doz. in pkg.
Doz. **$3.40**

F6036—3 colors, 8 in., moving eyes, assrd. plaid and check and dot lawn dresses and white lisene underslip, pink silk net trimmed hats in lace trim box. Assrd. ¼ doz. in pkg.
Doz. **$3.60**

F6042—3 styles, 11 in., checked lawn white apron over colored slip and solid color lawn, straw hats and lawn bonnets, white footwear, each in box. Assrd. ½ doz. in pkg.
Doz. **$4.50**

F6051—3 styles, 9½ in., moving eyes, bobbed hair wigs with ribbon bows, one jumper over assrd. color sateen, white footwear, each in lace trim box. Assrd. ½ doz. in pkg.
Doz. **$5.10**

F6046—3 styles, 12 in., colored lawn and cotton scrim dresses, silk and colored braid trimmings, straw and fabric hats, white footwear, each in box. Assrd. ½ doz. in pkg.
Doz. **$6.00**

F6048—3 styles, 11½ in., dotted swiss, plain and accordeon plaited lawn dresses, straw and plaited lawn hats, white footwear an exception. Assrd. at this price, each in box. Assrd. ½ doz. in pkg.
Doz. **$6.00**

"Popular" Imported Dressed Doll Assortments

These exceptional leaders prove that here is the right place to buy dolls

F6031—3 styles, 9½ in., moving eyes, red, blue and cream lace trim dresses, bonnets to match and straw hats, each in box. Assrd. ½ doz. in box.
Doz. **$2.75**

F6043—3 styles, 11½ in., dotted swiss, plain and accordion plaited lawn dresses, straw and plaited lawn hats, white footwear, each in box. Assrd. ½ doz. in pkg.
Doz. **$6.00**

F6042—3 styles, 13 in., colored lawn and cotton scrim dresses, silk and colored braid trimmings, straw and fabric hats, white footwear each in box. Assrd. ½ doz. in pkg.
Doz. **$6.00**

"POPULAR" IMPORTED DRESSED DOLLS—Continued

F6050—3 styles, 12 in moving eyes, colored lawn and flowered fabric dresses, net and braid trim collars, straw and lawn hats, white footwear, each in box. Asstd. ½ doz. in pkg. Doz. **$6.00**

F6053—9 styles, 12½ in. moving eyes, colored lawn, figured and checked percale dresses, straw and fabric hats, white footwear, each in box. Asstd ½ doz. in pkg. Doz. **$7.00**

F6055—3 colors, 14½ in., moving eyes, plaited colored lawn dresses, silk braid trim straw hats with flowers, white footwear, each in box. Asstd ½ doz. in pkg. Doz. **$7.90**

F6058—3 styles, 16 in moving eyes. French dresses of colored sateen and novelty check material, colored lawn smock dress, straw and fabric hats, bow, rosebud and feather ornaments, white footwear. Asstd ½ doz. in pkg. Doz. **$14.00**

"WORLD'S FINEST" IMPORTED DRESS DOLLS

Genuine bisque turning heads, teeth, large blue or brown glass moving eyes, curly mohair wigs—asstd. blonde, tosca or brunette, jointed shoulders, elbows, hips and knees, well modelled bodice. Each with hat and footwear to harmonize or contrast with underwear. Note. Sizes are actual measurements and do not include hats. Each in lace trimmed box

F6133—8 styles, 10½ in., jointed wrists, painted eyebrows and eyelashes, white dotted swiss, colored cotton voile and sateen lawn dresses, straw and fabric bonnets, white footwear. Asstd ½ doz. in pkg. Doz. **$24.00**

F6134—3 styles, 14 in., jointed wrists, real eyelashes and painted eyebrows, striped novelty silk and plaited colored satin dresses, straw hats and satin bonnets, rosette and lace trimmings, white footwear. Asstd ¼ doz. in pkg. Doz. **$24.00**

F6138—16 in., jointed wrists, real eyelashes and painted eyebrows, old rose radium silk dress, white puffed crown hat, lace trim lawn underwear, white footwear. Each in lace trim box. Each **$3.25**

F6139—"Cherie," 17 in., jointed wrists, real eyelashes and painted eyebrows, white dotted swiss dress, old rose radium silk coat, chic 2 color hat, lace trim underwear, white footwear. Each in lace trim box. Each, **$5.50**

INPORTED DRESSED WHISTLING DOLLS

Bisque heads, painted features and hair, soft stuffed bodies, hip and shoulder joints, composition hands, asstd color striped percale rompers, flesh color felt covered legs, white socks and slippers.

F6455—11 in. ½ doz. in box ..... Doz **$5.25**
F6456—14½ in. ½ doz. in box ..... " **11.00**

IMPORTED BISQUE HEAD JOINTED DOLLS

Guaranteed quality, turning flesh bisque head, moving glass eyes, real eyelashes, hand sewed Walterhausen tosca and brunette curly mohair wigs, stitched side part, bead necklace, well modeled extra fine bisque finish bodies of hardened layers of paper, open fingers, ball jointed shoulder, elbow, wrist, hip and knee, white lawn slip, white footwear. 1 in box.

F6241—18½ in. . Each **$3.25**
F6242—23 " . " **4.00**
F6243—24 " . " **4.00**

"JAXON" ADJUSTABLE DOLL HANGERS AND STANDS

Hangers—Best wire, easily adjusted. 3 doz. in pkg

F7055—For small and medium dolls. Doz **50c**
(Total $1.50)
F7056—For medium and large dolls. Doz **60c**
(Total $1.80)

Stands—Metal base, double spring, adjustable wire supports. ¼ doz. in pkg

F7057—Holds doll 7 to 15 in. Each, **32c**
F7058—Holds doll 9 to 23 in. Each **40c**
F7059—Holds doll 16 to 27 in. Each, **46c**

Do you want to know how to make your store and displays more attractive? See page 431.

Imported Kid Body Dolls

Expressive painted features, moving eyes, extra quality, blonde, tosca or brunette curly mohair wigs, side part, ribbon bow, jointed shoulder, elbow, hip and knee, lace stockings, leatherette slippers in pink, blue and white.

"Superb"—Bisque head and forearms, kid body, lower limbs, flesh tinted bisque finish hardened pressed paper. 1 in box.

F6401—14 in ..... Doz. **$16.00**
F6402—16½ " ..... Each. **2.25**
F6404—21 " ..... " **4.00**
F6405—23 " ..... " **5.00**

"Par Excellence"—Bisque head and forearms, first quality white kid body, arms and legs. 1 in box.

F6413—18 in. . Each, **$3.75**
F6414—20½ " ..... " **6.00**

Imported Full Jointed Dolls

Turning bisque head, moving eyes, painted features, exposed teeth blonde tosca or brunette curly mohair sewed wigs, real eyelashes, body of hardened layers of pressed paper, jointed shoulder, wrist and hip ball jointed elbow and knee. Sold in any quantity (unless otherwise stated)

F6300—11½ in ¼ doz. in pkg ..... Doz. $ **9.00**
F6301 15½ in., real eyelashes, ... " **14.00**
F6302—18½ in., . " **24.00**
F6303—19½ in., sewed wig, real eyelashes. Each **$2.90**
F6304 21½ in. ..... " **3.90**

IMPORTED DOLL PARTS

a big business can be built up in repairing dolls, and at a profit, too

No doll department is complete without a well assorted stand all the year 'round and stock of these parts, in de-

BISQUE SOCKET HEADS

Fine bisque head, without wigs, with moving eyes and mitten lashes

Open Crown

MOVING EYES WITH EYE LASHES

No.	Height of Doll	Each
A446	12 inches	.40
A447	13 inches	.50
A448.	14 inches	.55
A449.	15 inches	.62
A450	16 inches	.65
A451	19 inches	.80
A452	20 inches	.90
A453	21 inches	1.05
A454	23 inches	1.15
A455	24 inches	1.25
A456	25 inches	1.45
A457	26 inches	1.70
A458	27 inches	2.00
A459	28 inches	2.50
A460	29 inches	2.90
A461	32 inches	3.25
A462	34 inches	3.75

MOVING EYES WITH EYE LASHES

Fine bisque heads without wigs; with moving eyes and eye lashes

Open Crown

No.	Height of Doll	Each
A466(1)	13 inches	.50
A467(2)	14 inches	.55
A468(3)	15 inches	.62
A469(4)	17 inches	.65
A470(5)	19 inches	.80
A471(6)	20 inches	.90
A472(7)	21 inches	1.05
A473(8)	23 inches	1.15
A474(9)	24 inches	1.25
A475(10)	25 inches	1.45

SAME WITHOUT EYE LASHES

No.	Height of Doll	Each
GT468½	15 inches	.40

CHARACTER BISQUE SOCKET HEADS

Finely modeled bisque heads; open mouth showing teeth; moving eyes.

Open Crown

No.	Height of Doll	Doz.
A516.	9 inches	2.25
A517.	10 inches	2.50
A518	11 inches	3.00

		Each
A519	12 inches	.30
A520.	12½ inches	.32
A521	13½ inches	.35
A522	14 inches	.40
A523	15 inches	.45
A524	16 inches	.55
A525	17 inches	.65
A525½	18 inches	.75

CHARACTER BISQUE SOCKET HEADS

MOVING EYES, MOHAIR WIG

Finely modeled bisque heads, open mouth showing teeth moving eyes; good quality character wig

No.	Height of Doll	Each
A477	7 inches	40
A478	8 inches	45
A479	9 inches	50
A480.	10 inches	55
A481.	11 inches	65
A482.	12 inches	70
A483	13 inches	.80
A484	14 inches	.85
A485	15 inches	95
A486	16 inches	1.15
A487	17 inches	1.25
A488	18 inches	1.35
A489	22 inches	1.50
A490	24 inches	1.70
A491	26 inches	2.05
A492	28 inches	2.50
A493	30 inches	2.75

COMPOSITION SHOULDER HEADS

EMBOSSED HAIR PAINTED EYES

Extra fine quality composition; flesh tinted embossed hair, painted eyes

No.	Size Bust	Height	Doz.
A369	2½x1¾	3¾	.60
A370	2⅝x2	4½	.80

PAINTED EYES, PASTED WIG

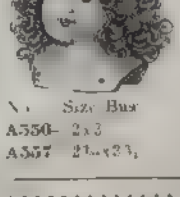
No.	Size Bust	Height	Doz.
A371—2½x1⅞	4	1 10
A372—3x2	4¾	1.65

MOVING EYES, PASTED WIG

No.	Size Bust	Height	Doz
A373—3x1¾	3¾	2.15
A374—4x2½	6	3.25
A375—4½x3	6⅝	4.00

BISQUE SHOULDER HEADS

MOVING EYES, PASTED WIG



Fine features, flesh tinted, natural glass eyes, exposed teeth, assorted color pasted wigs

No.	Size Bust	Height	Doz
A550—2x3	4	4.50
A557—2½x2¾	4½	8.75

Not to have Holiday Goods on your shelves early means a loss in profits; order now, get your merchandise on display early and you will be surprised at the amount of business you will do before the regular Holiday Season is at hand.

BISQUE SHOULDER HEADS

MOVING EYES WITH LASHES SEWED WIG

Finely modeled features, bisque; moving eyes with eye lashes; open mouth showing teeth; sewed, parted, curl wig, ribbon bows

No.	Size Bust	Height	Doz.
A529	3x3	4¼	85
A528	3½x2½	4⅝	1 00
A531	3½x2¾	5¼	1 05
A533	4x3	5	1 80
A534—4¼x3	5⅛	1 15
A536	4½x3	5⅝	1 00
A538—5x3¼	6¼	2 00
A540	5½x3½	6½	2 25
A542	5½x4	7	3 00

EXTRA FINE BISQUE SHOULDER HEADS

MOVING EYES WITH LASHES LONG CURLS, SEWED WIG

Extra fine quality bisque, moving eyes with lashes; open mouth showing teeth; parted, long curl wig, ribbon bow

No.	Size Bust	Height	Doz
A546—2½x1¾	4	1 15
A547—3¼x2¼	4½	1.50
A548	3½x2½	5	1.95
A549—4x2¾	6	2.45
A550	4½x3¼	6½	3.05

METAL DOLL HEADS

EMBOSSED HAIR, PAINTED EYES

Made of sheet steel, special washable enamel coated which will not crack or chip, flexible bust permitting adjustment to shape of doll body.

No.	Size Bust	Height	Doz
A322—2¼x1½	3	1.20
A323—2½x1⅝	3½	1.45
A324—3x2	3½	1.75
A325—3¼x2¼	4	2.05
A326—3½x2⅝	4½	2.60
A327—3⅝x2½	4¾	3.15

EXTRA FINE METAL DOLL HEADS

EMBOSSED HAIR, PAINTED EYES

A301—Shoulder 1¾x2¼ ins., 4 ins. high Dozen.. 3.95

A302—Shoulder 2¼x3 ins., 5 in. high Each .50

A303—Shoulder 2⅛x3¼ ins., 6 ins. high Each.. 60

EXTRA FINE METAL DOLL HEADS

EMBOSSED HAIR MOVING EYES

A304 — Shoulder 1⅜x2¼ in., 4 in high. Each. .55

A305 — Shoulder 2 x3 ins., 5 in high Each .75

A306—Shoulder 2½x3¼ ins., 6 ins. high Each .95

MOHAIR WIG, PAINTED EYES

A307 — Shoulder 1¾x2¼ ins. 4 in. high Each .55

A308 — Shoulder 2¼x3 ins., 5 in high Each .75

A309—Shoulder 3½x3¼ ins., 6 in high Each .90

MOHAIR WIG, MOVING EYES

A311—Shoulder 1⅝x2¼ ins., 4 in. high. Each. .75

A312—Shoulder 2¼x3 ins., 5 in. high. Each. 1.00

A313—Shoulder 2½x3¼ in., 6 in. high. Each 1.15

METAL DOLL HEADS

GLUED WIG, MOVING EYES

Made of sheet steel, special washable enamel coated which will not chip or crack, flexible bust permitting adjustment to shape of doll body

No.	Size Bust	Height	Each
A341—3½x1⅝	3½	.50
A342—3½x2¼	4½	.55
A343—3½x2½	5	.75
A344—3¾x2¼	5½	.85
A345—3½x2⅝	6	1.10
A346—4½x2½	6½	1.35

SIDE PARTED SEWED WIG MOVING EYES

No.	Size Bust	Height	Each
A356—3x1¼	4	.85
A357—3¼x2¼	4½	.90
A358—3½x2½	5	1 00
A359—4x2½	5½	1 25
A360—4x2¾	5½	1 35
A361—4½x2½	6	1 65
A362—5¼x3¼	7	1 95

CHINA DOLL HEADS

SHOULDER; HEAD EMBOSSED HAIR

White glazed China; painted embossed hair; painted and tinted features

No.	Size Bust	Height	Doz
A291—2½x1½	3	95
A292—3x1¾	3½	1 15
A293—3¼x2	4	1 60
A294—3x2¼	4½	2.00

DOLL HANDS
GLAZED

Special composition, finely modeled, glaze finish.

No.	Size Doll	Doz. Pair
A43	16 inches	.70
A44	15½ inches	.95
A45	18 inches	1.25
A46	19 inches	1.55
A47	20 inches	2.10
A48	22 inches	2.75
A49	25 inches	3.50
A50	24 inches	4.00
A51	26 inches	4.75
A52	26 inches	5.45
A53	27 inches	6.00
A54	28 inches	6.75
A55	29 inches	7.15
		Pair
A56	30 inches	.65
A57	32 inches	.75
A58	34 inches	.85

DOLL EYES WITH LASHES

Sizes given are from outside to outside across top, well made, good lashes weighted

No.	Width	Doz
A21-(2/0)	1⅜	2.50
A22-(0)	1½	2.60
A23-(1)	1⅝	2.75
A24-(2)	1¾	3.00
A25-(3)	1⅞	3.25
A26-(4)	1⅞	3.50
A27-(5)	2	3.75
A28-(6)	2	4.00
A29-(7)	2⅛	4.40
A30-(8)	2¼	5.00
A31-(9)	2⅜	5.50
A32-(10)	2⅜	6.25
A33-(11)	2⅜	7.00
A34-(12)	2½	7.25
A35-(13)	2⅝	7.50
A36-(14)	2⅝	7.75
A37-(15)	2⅝	9.00
A38-(16)	3	10.00
A39-(17)	3¼	12.00

COMPLETE DOLL ARMS
GLAZED, JOINTED

Complete with hand, for jointed dolls; sizes given are for length of dolls fitted

No.	Length Doll	Pair
A61	15½ in	40
A62	17 in	45
A63	18 in	50
A64	19½ in	55
A65	20 in	60
A66	23 in	65
A67	23¾ in	70
A68	24 in	75
A69	25½ in	80
A70	26¾ inches	90
A71	27¾ inches	95
A72	29 inches	1.10

COMPLETE DOLL LEGS
GLAZED JOINTED

Complete for jointed dolls; sizes given are for length of dolls fitted

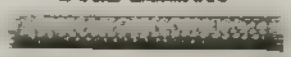
No.	Length Doll	Pair
A121	15½ in	.40
A122	17 in	.45
A123	18 in	.50
A124	19½ in	.55
A125	20¾ in	.60
A126	21¾ in	.65
A127	22¾ in	.70
A128	24½ in	.75
A129	25½ in	.80
A130	26¾ in	.90
A131	27½ in	.95

DOLL BODIES
GLAZED

For jointed dolls, sizes given are for length of doll fitted.

No.	Lgth. Doll	Each
A181	15½ in.	.25
A182	17 in.	.30
A183	18 in.	.35
A184	19½ in.	.38
A185	20¾ in.	.40
A186	21¾ in.	.45
A187	22¾ in.	.50
A188	24½ inches	.55
A189	25½ inches	.60
A190	26¾ inches	.65
A191	27½ inches	.75
A192	29 inches	.85

DOLL ELASTIC



For repairing Dolls, 12 yards long.

		Piece
A653	Diam. 1/16 inch	.40
A654	Diam. 3/32 inch	.75
A655	Diam. ⅛ inch	.85
A656	Diam. 5/32 inch	.90
A657	Diam. 3/16 inch	1.00
A658	Diam. 7/16 inch	1.10
A659	Diam. ¼ inch	1.65
A660	Diam. 5/16 inch	2.00
A661	Diam. 11/16 inch	2.50

FINE HUMAN HAIR DOLL WIGS

Long single curls side part

The following numbers of doll wigs will fit heads of dolls of circumference as given:

No.	Circumference of Head	Each
A571	8 inches	.45
A572	9 inches	.50
A573	10 inches	.57
A574	11 inches	.67
A575	12 inches	.80
A576	13 inches	.95
A577	14 inches	1.10
A578	15 inches	1.25
A579	16 inches	1.40
A580	17 inches	1.65
A581	18 inches	1.95

SUPERFINE HUMAN HAIR DOLL WIGS

Long single curls side part

The following numbers of doll wigs will fit heads of dolls of circumference as given:

No.	Circumference of Head	Each
A586	8 inches	.80
A587	9 inches	.92
A588	10 inches	1.00
A589	11 inches	1.15
A590	12 inches	1.35
A591	13 inches	1.45
A592	14 inches	1.65
A593	15 inches	1.75
A594	16 inches	2.10
A595	17 inches	2.40
A596	18 inches	2.70
A597	19 inches	3.00
A598	20 inches	3.25

Our imported full jointed dolls are really marvels in doll construction; natural models and exceptional flesh finish.

FINE MOHAIR CHARACTER DOLL WIGS
BLUM

The following numbers of doll wigs fit heads of dolls circumference as given:

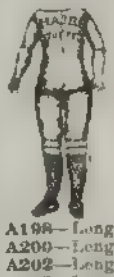
No.	Circumference of Head	Doz
A611	7 inches	2.10
A612	8 inches	2.25
A613	9 inches	2.45
A614	10 inches	2.80
A615	11 inches	3.50
A616	12 inches	4.20
A617	13 inches	5.60
A618	14 inches	6.65

EXTRA FINE MOHAIR CHARACTER DOLL WIGS
SEWED

The following numbers of doll wigs fit heads of dolls circumference as given:

No.	Circumference of Head	Doz.
A621	8 inches	3.10
A622	9 inches	3.50
A623	10 inches	4.00
A624	11 inches	4.60
A625	12 inches	5.25
A626	13 inches	6.75
A627	14 inches	7.60
A628	15 inches	9.00
A629	16 inches	10.50

CLOTH DOLL BODIES
HAIR STUFFED, PINK



Made of good quality pink cloth, well sewed and over whipped, kid fore arm; shoulder, hip and knee jointed; assorted color stockings; patent leatherette shoes

A198—Length	9	ins. Doz.	2.05
A200—Length	10	ins. Doz.	3.05
A202—Length	11	ins. Doz.	4.25
A203—Length	12	ins. Doz.	5.60
A205—Length	13	ins. Doz.	6.85
A207—Length	14½	ins. Doz.	7.80

KIDOLYNE DOLL BODIES

White Kidolyne, well stuffed body, bisque forearms and limbs; riveted shoulder, elbow, hip and knee joints; removable stockings and slippers

A210—Length	11	ins. Doz.	8.50
A212—Length	12½	ins. Doz.	10.80
A214—Length	14	ins. Each	1.15
A216—Length	17	ins. Each.	1.35
A218—Length	18½	ins. Each.	1.85

KID DOLL BODIES

Genuine white kid body, well sewed and stuffed, bisque arms and limbs, shoulder, elbow, wrist ball jointed; riveted hip and knee joints, without stockings or slippers.

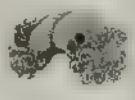
A233—Length	12	ins. Each	2.15
A234—Length	14	ins. Each	2.50
A235—Length	15½	ins. Each	3.25
A236—Length	18	ins. Each	4.00
A237—Length	20	ins. Each	4.50

EXTRA FINE HUMAN HAIR CHARACTER DOLL WIGS
SEWED

The following numbers of doll wigs fit heads of dolls, circumference as given

No.	Circumference of Head	Each
A631	7 inches	.27
A632	8 inches	.37
A633	9 inches	.48
A634	10 inches	.60
A635	11 inches	.58
A636	12 inches	.72
A637	13 inches	.90
A638	14 inches	1.10
A639	15 inches	1.40
A640	16 inches	1.65

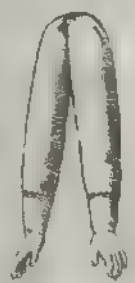
FINE MOHAIR RINGLET CURLED DOLL WIGS
Side part and sewed



The following numbers of doll wigs fit heads of dolls circumference as given

No.	Circumference of Head	Each
A601	8 inches	58
A602	9 inches	68
A603	10 inches	75
A604	11 inches	.88
A605	13 inches	1.00
A606	13 inches	1.15
A607	14 inches	1.38
A608	15 inches	1.68
A609	16 inches	1.90

IMITATION KID DOLL ARMS
NOT JOINTED, BISQUE HANDS



Imitation kid, straight arms, bisque hands, lengths as given

	Doz. Pr
A241—Length 6½ ins	3.25
A242—Length 6¾ ins	4.00
A243—Length 7¼ ins	4.85
A244—Length 8 ins	4.90
A245—Length 8½ ins	5.50
A246—Length 9 ins	6.25
A247—Length 9½ ins	7.00

IMITATION KID DOLL ARMS
JOINTED; BISQUE FOREARMS AND HANDS

White imitation kid well sewed, bisque forearms and hands, riveted elbow joint

	Doz. Pr
A253—Length 4¾ ins.	4.50
A254—Length 5¼ ins.	4.90
A255—Length 6 ins.	5.40
A256—Length 6¾ ins.	6.00
A257—Length 7 ins.	6.75
A258—Length 7¾ ins.	8.25
A259—Length 8½ ins.	9.50

IMPORTED DRESSED DOLLS

Each in box Jointed limbs, pretty movable bisque heads, glass sleeping eyes, pretty features, visible teeth, curly hair.

T6479—Ht. 9 in. assrtd. styles, lace trimmed percale and lawn dresses, painted shoes. ½ doz. in pkg
Doz., **$2.25**

T6493 Ht. 8 in. Dresses with asst. lace and embroidery trimmed collars. 1 doz. in pkg ... Doz., **$2.25**

T6489 Ht. 10 in. attractively dressed, in assrd. bright colors and materials with lace and gold braid trimmings, shoes and stockings. ½ doz. in pkg
Doz., **$3.00**

T6495— Ht. 10½ in. Plaited skirt with ruffle deep lace trimmed collar. ½ doz. in pkg Doz., **$3.75**

T6494—Ht. 9½ in., moving eyes, pretty features, movable bisque head, long hair, jointed limbs, shoes and stockings, attractively dressed, each in box. ½ doz. in pkg..... Doz., **$3.00**

T6463—Ht. 9½ in., painted shoes and stockings, jointed limbs, three styles lace dresses, pretty hat, long curly hair, bisque heads, pretty features, glass eyes. ½ doz. in box..... Doz., **$3.75**

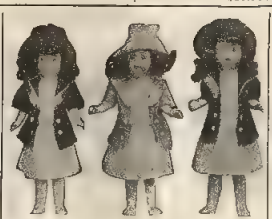
T6719—Ht. 12 in. Fully jointed Chautauqua dress, lace trimmed pretty hat. ½ doz. in pkg
Doz., **$5.75**

T6587 Ht. 13 in. Full jointed plaited skirt, wool trimmed jabot, pretty hat. ½ doz. in pkg. Doz., **$6.50**

T5084—Ht. 11½ in. Full jointed Swiss chiffon dress with shoulder ruffle, flower lace yoke, ribbon trimmed, cord hat.
Doz., **$7.20**

T5096—Ht. 12 in., full jointed, moving eyes, pretty bisque head and features, shoes and stockings, attractive removable dress, large straw hat, floral trimmed. Doz., **$7.50**

T6243—Ht. 14 in. Full jointed. Wool white dress, assrd. color flannel coat and hat.
Doz., **$6.50**



T6466—Ht. 13 in. Percale dress, flannel coats with embroidered initials, hat to match. ½ doz. in pkg.
Doz., **$8.75**

T6468—Ht. 14½ in. Full jointed. Pretty white dress, assrd. color flannel coat and hat trimmed with silk braid. ½ doz in pkg
Doz., **$9.00**

T6486—Ht. 16 in. Full jointed. Wool made flannel dress, trimmed with lace, coat also covered materials, ready hat to match.
Doz., **$10 50**

T6085—Ht. 18 in., full jointed, moving eyes, extra long curls, shoes and stockings, stylish flannel lawn dress and coat, satin ribbon trimmed.
Doz., **$10.60**

T6722—Ht. 16 in. Full jointed. Attractive embroidered jacket with free shoulder straps, full skirt, large hat. ½ doz. in pkg.
Doz **$12.00**

T6475—Ht. 15½ in. Full jointed. Assrd. color flannel dresses with lace trim percale aprons, large hat to match. ½ doz. in pkg.
Doz., **$13.50**

T6088 Ht. 14½ in. full jointed, moving eyes, beautiful modeled head, extra long curls, shoes and stockings, removable lawn dress trimmed with silk, large lace trimmed collar and hat
Doz **$13.50**

T6701 Ht. 19 in. jointed limbs, shoes and stockings, long curly hair, moving eyes, plaited skirt, flannel lawn waist lace trimmed collar, lawn straw hat.
Each, **$1.25**

Imported Dressed Dolls—Cont.

T4348—Ht. 16 in. Full jointed. Beautiful novelty lawn dress, white taque yoke, collar and cuffs, tucked lawn, nainsy trimmed hat. Each, **$1.50**

T6734—Ht. 17 in. Full jointed. Silk dresses in Celestic shades, lace trim skirt, allover lace collar, large hat. ....Each, **$1.75**

T6736—Ht. 16 in. Full jointed. Neat, lawn dress, white Swiss apron with lace and insertion, satin bowknots, hat. Each, **$1.75**

T7906—Ht. 20 in., full jointed, true to nature hands, shoes and stockings, moving eyes and eyelashes, beautiful model head, long pretty curls, chiffon dress in useful colors, lace trimmed collar, large straw hat. Each, **$2.00**

T6688—Ht. 17 in., full jointed, beautiful modeled bisque head, large moving eyes, pretty curls, shoes and stockings, attractive dress combination skirt and jacket, white blouse, large trimmed hat. . .Each, **$2.25**

T6736—Ht. 19½ in. Full jointed. Silk dresses in pale colors, lace trimmed skirt, allover lace jacket, pretty hat to match. Each, **$2.75**

T6651—Ht. 16 in. Full jointed. Silk dress, lawn waist braid trim, mohair wig, trimmed hat. Each, **$3.80**

T6652—Ht. 23 in., full jointed, true to nature hands, beautiful modeled bisque head, large sleeping eyes and eyelashes, long pretty curls, shoes and stockings, attractive lawn dress trimmed with satin ribbon, large trimmed hat. Each **$4.00**

Pretty Dressed Dolls

T6457—Ht. 6 in., jointed arms, painted shoes and stockings, movable bisque head, glass eyes, short curly hair, pink, blue and red dresses and caps, lace trim apron. ½ doz. in box. 1 doz. in pkg. . ... Doz., **$1.35**

T6466—Ht. 6½ in., movable bisque head, glass eyes, short curly hair, painted shoes and stockings, jointed limbs, neat dress and hat embroidery trimmed, colored braid girdle. ½ doz. in box .. ..Doz., **$1.65**

Dressed Dolls, Celluloid Heads

Indestructible. Extra heavy celluloid heads; embossed hair, painted features, jointed limbs. Body covered with extremely stitched felt. Shoes and stockings. Each in box.

T6468—Ht. 8½ in. assrd. colored felt dresses, trimmed with fancy braid. Doz. **$1.95**

T6496—Ht. 10 in., moving eyes and long curly hair, assrd. flannel and percale dresses, cape to match. ½ doz. in box Doz., **$3.95**

T6410—Ht. 11 in. moving eyes and long curly hair very attractively dressed in a good quality of assrd. gingham and chambray. Doz., **$4.25**

T6411—Ht. 12½ in., dainty percale dresses in nice patterns with lace and ribbons, hats to match. Moving eyes and long curly hair. Doz., **$7.25**

T6412—Ht. 14½ in., moving eyes and long curly hair, rivet jointed knee, assrd dresses of good materials and designs, hats to match. Doz., **$10.50**

T6413—Ht. 13½ in., moving eyes and curly hair, rivet jointed knee, pretty lawn dresses with lace collar and ribbon sash, ribbon and straw hat to match. Doz., **$12.00**

T6414—Ht. 17½ in. moving eyes and long curly hair rivet jointed knee attractively dressed in figured lawn with lace edge, fancy lace collar, large straw hat. Doz., **$18.00**

Novelty Dolls

T6482

T6483

T6482—Ht. 9 in., celluloid face, assrd features, embossed hair, assrd. colored felt and lace trimmed garments. Varnished stick, squeaker when 1 doz. in box. .... (Doz., **$10.20**), Dec., **87c**

T6483—Ht. 8 in., large celluloid face, painted features, embossed hair, assrd. flannel dress costume, trimmed with silver braid, stained and varnished stick, rattle chime in body. ½ doz. in box (Doz., **$10.80**), Dec., **92c**

T6484

T6485

T6484—Ht. 11½ in., heavy celluloid head, pretty painted features, embossed hair, black sateen trimmed with lace and silver braid. Stained stick, squeaker voice. ½ doz. in box Doz., **$1.95**

T6485—Ht. 10½ in., extra heavy celluloid head, embossed hair, painted features, novelty costume, elaborately trimmed with fancy braid, rosebuds, etc., sleeve hat to match. Rattle chime in body. ½ doz. in box. Doz., **$3.75**

Musical Novelty Doll

T6496—A high grade fascination Toy. Flowering body which produces clear soulful notes. Beautiful costumes of pink and blue satin trimmed with lace. Polished stick. Each in box. Each, **$1.95**

Dressed Cupies

Chubby bodies, flesh tint composition, movable arms, painted shoes and stockings, assrd. percale dresses, lace collar and cuffs. Each in box.

T9033—Ht. 9 in..... . ... Doz., **$3.50**

T9034—Ht. 11½ in. Doz., **7.20**

7 PIECE IMPORTED CHINA CHOCOLATE SETS

Each set consists of covered chocolate pot and SIX cups and saucers to match, of good quality pure white glazed china.

R6486—Pot 9¼ in. high, SIX cups 2¾x3 and saucers 4½ in. fluted shape, blue and gold floral colors. Tokio red fancy handle and knob of cover. 1 set in pkg. SET (7 pcs.) **$1.65**

R6481—Pot 9¼ in high, SIX cups 2¾x3 and saucers 5 in., fluted shape pink and gold floral colors. Tokio red fancy handle and knob of cover. 1 set in pkg. SET (7 pcs.) **$1.95**

R6238—Pot 9¼ in high, SIX cups 2¾x3 in. and saucers 5 in. plain shape, yellow floral colors, pink and blue border lines, green foliage and blue bowknot border outlined light blue hand gold edges. 1 set in pkg. SET (7 pcs.) **$4.50**

R6483—Pot 10 in high, SIX cups 2¾x3 and saucers 4½ in., 8 panel fluted shape, yellow & pink floral and bird sprays, canary border and 2 striped handles and knob of cover. 1 set in pkg. SET (7 pcs.) **$1.95**

R6985—3 decors., pot 9¼, SIX cups 2¾x3 and saucers 4½ in., panel, rose & violet floral clusters, border tinted violet. Each set in this tinted edges. SET (7 pcs.), **$2.25**

R6234—Pot 9¼ in high, SIX cups 2¾x3¼ in. and saucers 5 in., plain shape hand painted pink rose sprays, with conventional green colored scrolls and gold edges, handles and knob of cover. 1 set in pkg. SET (7 pcs.), **$4.95**

R6945—Pot 9¾, SIX cups 2¾x3¾ saucers 4½, panel shape, allover Japanese background, cobalt color, gold scroll and dec. cobalt handles and knobs. 1 set in pkg. SET (7 pcs.) **$1.95**

R6485—Pot 9¼ in. high, SIX cups 2¾x3¾ in. and saucers 5 in. panel embossed shape, hand tinted floral sprays and gold edges, fancy fan shape spout and ear of cover. 1 set in pkg. SET (7 pcs.) **$2.25**

IMPORTED CHINA 7 PIECE COFFEE SET

R6495—Pot 7 in high, SIX cups 2¾x2¾ in. and saucers 4¾ in., pure white high weight china, fancy straight shape, pink and yellow rose sprays, gold edges, gold stenciled flares, handle, spout and knob of cover. 1 set in pkg. SET (7 pcs.) **$2.10**

IMPORTED CHINA DRESSER SETS

Three and four-piece sets, consisting of puff box, hair receiver and comb and brush tray, same with hat pin holder also. Fine light weight white china, all pieces decorated to match. 1 set in pkg.

R6250—3 pieces, puff box and hair receiver, 4¼ in diam; tray 11½ x7¾ in., pink rose, green foliage and blue bowknot border, brown outlined light blue hand gold edges. SET (3 pcs.) **$3.50**

R6251—4 pieces, puff box & hair receiver 4¼ in diam; tray 11½x7¾ in; hat pin holder 5¼ in high, pointed yellow covered top, hat square tall covered trays hand gold edges. SET (4 pcs.) **$3.50**

IMPORTED "AWAJI" WARE

Light weight Japanese semi-porcelain, solid colors, undecorated

BLUE

Plates—½ doz. in pkg.

R6007	6 in. diam	Doz.	**$3.25**
R6011	7 " "	"	**3.96**
R6013	8 " "	"	**4.75**
R6019	9 " "	"	**5.86**

LAVENDER

Plates—½ doz. in pkg.

R6009	6 in. diam	Doz.	**$4.50**
R6015	7 " "	"	**5.50**
R6017	8 " "	"	**6.25**

Sugar and Creamer—½ doz. in pkg

R6025	Sugar 3¾ in high, creamer 3½ in.	Doz.	**$19.20**

Tea Pot—

R6028	4½ in. high	Doz.	**$18.00**

GREEN

Cup and Saucer—½ doz. in pkg.

R6008	Cup 3½x1¾, saucer 5¼ in	Doz.	**$5.85**

Plates—½ doz. in pkg.

R6006	6 in. diam	Doz.	**$3.25**
R6010	7 " "	"	**3.95**
R6014	8 " "	"	**4.75**
R6018	8½ " "	"	**5.85**

Tea Pot—½ doz. in pkg.

R6026	4½ in. high	Doz.	**$13.75**

Sugar and Creamer—½ doz. in pkg

R6022	Sugar 3¾ in high creamer 3½ in	Doz.	**$15.90**

ROSE COLOR

Plates—½ doz. in pkg.

R6008	6 in. diam	Doz.	**$4.50**
R6016	8 " "	"	**6.25**

IMPORTED CHINA VASE ASSORTMENT

R6756—12 styles, 8½ in high good quality white china, all open work, light and floral conventions in many colors, pastel tints, gold ornaments, bottom, gold edges and handles. Asstd 1 doz in pkg. Doz. **$16.00**

15 PIECE KITCHEN SETS

Each set consists of 6 cereal jars, 6 spice jars, 1 salt box, 1 oil bottle, 1 vinegar bottle, of good quality light weight glazed china

Blue Conventional Border—Attractive blue conventional medallion and scroll band on 3 sides, gold lettered names, gold striped base and edge of covers
R1389—1 set in pkg. . . . . SET (15 pcs.), **$7.25**

Gold Lace Bordered—Wide gold decorated lace effect border on 3 sides, gold band on base and edge of covers, gold lettered names.
R1364—1 set in pkg. . . . . SET (15 pcs.), **$8.50**

TEA POTS

This shows an excellent range of sizes and qualities from values for popular prices, leaders to finest Rockingham pots

IMPORTED CHINA TEA POTS

R5741—8¼ in high cap. 2 cups, imported china, large floured blue and white decors, top fitted with inside drainer. ½ doz in pkg. . . . . Doz. **$3.25**

R6770—8½ in high white china paneled shape, hand painted rose sprays, green leaves, blue striped edges, gold handles, spout and knob of cover. ½ doz. in pkg. Doz. **$3.60**

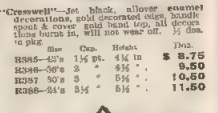
R5745—8¾ in. high, imported china with inside strainer, allover blue floral and scroll

IMPORTED ROCKINGHAM TEA POTS

Well known English earthenware, first selection, heavily glazed inside and out.

"Cresswell"—Jet black, allover enamel decorations, gold decorated inlet, handle spout & cover gold band top, all decorations burnt in, will not wear off. ½ doz. in pkg.

Size	Cups	Height	Doz.
R585—45's	1½ pt.	4½ in	$ 8.75
R586—36's	2 "	4¾ "	9.50
R587—30's	3 "	5¼ "	10.50
R588—24's	3½ "	5½ "	11.50



R590—3 styles, size 5½ in high, 36's, 3 pint capacity, ½ doz. Asst. comprises, 1 doz spout, handle knob and cover fully gold decorated in 6 colors, white enamel and Rod stamped Dark and fo iage clusters, 1 doz cream white enamel and gold ornamental band. Assd. 1 doz. in pkg.

MISCELLANEOUS TOYS

NICKEL TEA BELLS

T2265 T2266

T2265—11 in. extra heavy bright finish, black enameled handle. 1 doz. in box. (Cro. $4.50) Doz., 40c

T2266—11¼ in. 1 doz. in box (Cro., $4.50) Doz., 75c

T2267 11 in. ... embossed nickel finished handle. 1 doz. in box ...(Cro., $9.00) Doz., 77c

LITHO. TIN RATTLES

Black tin, embossed and brightly lithographed, trumpet handle. 1 doz. in box.

T2524 T2525

T2524—Length 4¼ in. ... styles assd. (Cro. $3.00) Doz., 27c

T2525 Length 5½ in. 3 styles assd (Cro. $3.50) Doz., 32c

HUMMING TOPS

Spun metal, embossed and striped in assd. colors, stained wood handle. 1 doz. in box

T2526—Diam. 3¼ in., ht. 3½ in. (Cro. $4.00) Doz., 35c

T2527 Diam. 3 in. ... (Cro. $5.00) Doz., 77c

T2529 STAR VALUE. Musical, diam. 4¼ in., ht. 5 in. ... (Cro. $10.00) Doz., 88c

T2531—4½x7½ in., musical. ½ doz. in box. Doz., $1.65

T2530—STAR VALUE. 5½x8 in., choral. ½ doz. in box. ... Doz., $1.60

T2532—4½x7½ in. bright nickel finish, clear crystal notes. ½ doz. in box. ... Doz., $1.75

SPRING WINDING TOPS

T1207

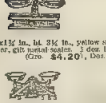
All metal. Blue, red, yellow and blue striped, strong spring winder

T1207 Diam. ... in. 2½ in. 2 doz. in box (Cro. $10.80) Doz. 87c

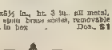
T1208—Diam. 1¾ in. 3 in. 1 doz. in box Doz., $1.15

T1209—Diam. 4 in., ht. 5½ in. ½ doz. in box. Doz., $1.95

SCALES



T6838—Size 1½x1½ in., ht. 3½ in., yellow stained base with drawer, gilt metal scales. 1 doz. in box. (Cro. $4.20) Doz. 37c



T6836—Size 1¾x5½ in., ht. 3 in. all metal, base enameled green, agate brass scales, removable pan. 1 doz. in box ... Doz., $1.28

T6837—Size 3x5x7 in., ht. 8 in. stained and varnished base with drawer, agate brass scales and removable containers. ½ doz. in box. Doz. $1.95

IMPORTED CHINA TOY TEA SETS

White glazed body, pretty floral decoration in natural colors, gold stippled edges, attractively displayed in special box.

About $2.25 Value. Doz. Sets, $1.85

T6686—Size 13x21½x7 in., 2 cups and saucers, 1 teapot and cover and 1 sugar bowl with cover. 1 doz. sets in pkg. ... Doz. Sets, $1.85

T113 22c—Seventeen piece set, pink border, gold stippled edges, each piece with juvenile decoration ... Set, $1.00

T113/22c—Twenty-three piece set, blue border, gold stippled edges, each piece with juvenile decoration ... Set, $1.25

DECORATED CHINA TOY TEA SETS

Each set consists of 23 assorted size pieces viz: Six 5¼-in. Plates, six 4½-in. Saucers, Six 3x2 in. Cups 1 Cream Pitcher, 1 Covered Tea Pot and Sugar. Securely packed in strong separate box.

T6861—Pure white glazed handle, 4½-in. gold band decoration ... Set, $2.25

T6862—Same Pure White, decoration, gold traced edges. Pure white glazed handles ... Set, $2.75

LITHOGRAPHED TEA SETS

T2778—8 pc. set Pink decoration. Box 2x5½x3½ in. 1 doz. sets in pkg. ... Doz. Sets, $1.65

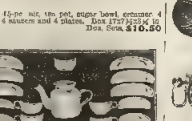
T2769—12 pc. set. Alphabet border. Blue animal design. Box 2x10x10 in. ½ doz. sets in pkg. Doz. Sets, $3.75

"LIKE MOTHER'S" ALUMINUM TOY TEA SETS

Displayed in attractive assorted box

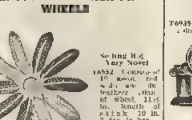
T2866—9-pc. set, tea pot, sugar bowl, creamer, 2 cups, 2 saucers and 2 plates. Box 12x7½x3½ in. Doz. Sets, $8.50

T2869 15-pc set, tea pot, sugar bowl, creamer 4 cups, 4 saucers and 4 plates. Box 17x7½x3½ in. Doz. Sets, $10.50



T2870 21-pc. set, tea pot, sugar bowl, creamer 5 cups, 6 saucers and 6 plates. Box illustrated in Doz. Sets, $16.50

IMPORTED FEATHER PIN WHEELS



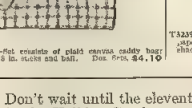
Spinning Bird Fancy Novel

T6552 Length of ... 10 assrt. bird ... with ... the feathers ... of wheel. 11½ in. Length of ... 10 in. 2 doz. in box (Cro., $4.00) Doz., 35c

T3553—Air TRADE bird wheel with 10 feathers 2 doz. in box (Cro., $7.50) Doz., 65c

JUVENILE GOLF SET

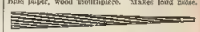
New and attractive outfit for the youngsters.



T1825—Set consists of plaid canvas caddy bag two 18 in. sticks and ball. Doz. Sets, $4.10

IMPORTED RED, WHITE AND BLUE HORNS

Made of cardboard covered with Red, White and Blue paper, wood mouthpiece. Makes loud noise.

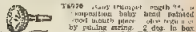


T6662 Length 8½ in. ... box (Cro. $5.00) Doz., 45c

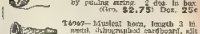
T6663—Length 8½ in. ... ½ gro. in box. (Cro., $1.75)

T6664 Length 17 in. 3 doz in box (Cro. $3.25) Doz., 30c

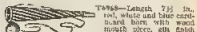
T6665 Length 20 in. 2 doz in box (Cro., $4.00) Doz., 38c



T6670 ... trumpet length ... in. ... mouthpiece, bulge band finished wood mouth piece ... blow ... by pulling string. 2 doz. in box (Cro. $2.75) Doz. 25c

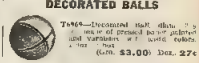


T6697—Musical horn, length 3 in. metal, lithographed on board, silk finished, wood mouthpiece. 3 doz. in box. (Cro., $2.00) Doz., 18c



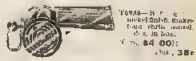
T6696—Length 7½ in. brass tool, white and blue cardboard horn with wood mouth piece, silk finish bell attached to cord. 2 doz. in box..... (Cro., $3.00) Doz., 27c

DECORATED BALLS



T6694—Decorated ball, ... of printed paper pictured and variegated ... assrt. colors. ... box (Cro. $3.00) Doz., 27c

NICKEL WHISTLES



T6693—... nickel finish nurse ... ... 4 in box. ... $4.00) ... Doz., 38c

T6939—3 style assd. Bicycle, Police and Warbler ... nickel on card. (Cro., $7.50) Doz. 68c

LITHO. METAL TELEPHONE

T1122 ... inches, base ... series, case ... Per ... ... in box (Cro., $10.20) Doz., 87c

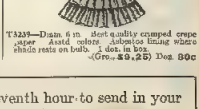
TOY COFFEE MILLS

T7027—Ht. 3¼ in., 2x2 in. stained wood base with drawer and nickel finished hopper. 1 doz. in box. (Cro., $4.00 ... 35c

T7028 — 3½x3½ in. stained wood base with drawer, smooth varnish finish, nickel finish hopper. 1 doz. in box (Cro., $9.60). Doz., 82c

T7027

NOVELTY PAPER ELECTRIC SHADES



T3239—Diam. 6 in. ... dent quality crimped crepe paper ... assrt. colors. Asbestos lining where shade rests on bulb. 1 doz. in box. (Cro., $9.25) Doz. 80c

Don't wait until the eleventh hour to send in your order for Holiday Goods.

You MAY then get what you want and all you want.

But in DELAYING you are taking unnecessary chances. Order NOW.

MASKS or FALSE FACES

Made of hard pressed paper, large assortment of characters, painted in assted. colors, comical expressions.

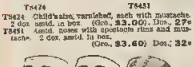
T8423—Child's size, 3 dos. in box. (Gro. $2.50). Doz. 23¢

T8424

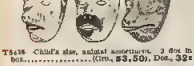
T8431

T8424 Child's size, varnished, each with mustache. 2 doz. assted. in box. (Gro. $3.00). Doz. 27¢

T8431 Assted. noses with mustache rims and mustache. 2 doz. assted. in box. (Gro. $3.60). Doz. 32¢



T8436 Child's size, animal assortment. 2 doz. in box. (Gro. $3.50). Doz. 32¢



T8428—Adult's size, varnished, assted. characters. 2 doz. in box. (Gro. $4.00). Doz. 35¢

T8431—Large size, comical assortment. 2 doz. in box. (Gro. $4.20). Doz. 37¢

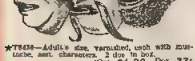
★T8430—Adult's size, varnished, each with mustache, asst. characters. 2 doz. in box. (Gro. $4.20). Doz. 37¢

T8424 T8429

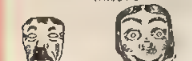
T8424 Adult's size, varnished, 2 doz. in box.

T8429—Adult's size, animal assortment. 2 doz. in box. (Gro. $4.50). Doz. 39¢

T8433—Large size, varnished, large assortment, comical characters, assted., mustache and whiskers and wig. 2 doz. in box. (Gro. $4.80). Doz. 40¢



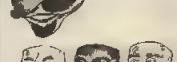
T8436—Medium size child's, varnished, popular assortment. 2 doz. in box. (Gro. $4.50). Doz. 40¢



T8423—Adult's size, varnished. 2 doz. in box. (Gro. $4.50). Doz. 40¢

T8449—Adult's size, comical assortment, blinking eyes. 2 doz. in box. (Gro. $4.80). Doz. 42¢

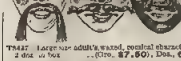
T8426 — Adult's size, varnished, large assortment comical characters. 2 doz. in box. (Gro. $7.00). Doz. 60¢



T8441—Adult's size, comical assortment, blinking eyes, moving mouth and tongue. 1 doz. assted. in box. (Gro. $7.50). Doz. 65¢

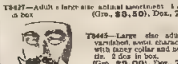
T8437—Large size adult's wizard, comical characters. 2 doz. in box. (Gro. $7.60). Doz. 65¢

T8427—Adult's large size animal assortment. 1 doz. in box. (Gro. $8.50). Doz. 75¢



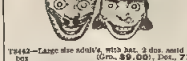
T8445—Large size adult's, varnished, assted. characters with fancy collar and neckties. 2 doz. in box. (Gro. $9.00). Doz. 77¢

T8442—Large size adult's, with hat. 2 doz. assted. in box. (Gro. $9.00). Doz. 77¢



T8436—Medium size, gauze, popular assortment. 1 doz. assted. in box. (Gro. $9.00). Doz. 77¢

T8429—Large size adult's, comical characters, 1 doz. assted. in box. (Gro. $9.00). Doz. 77¢



T8445—Wire mask, assted. males and females. 2 doz. assted. in box. (Gro. $9.50). Doz. 82¢

T8443—Extra size adult's, comical assortment, with long nose. 1 doz. in box. (Gro. $10.00). Doz. 85¢

T8438—Medium size, gauze, popular assortment. 1 doz. assted. in box. (Gro. $9.00). Doz. 77¢

T8429—Large size adult's, comical characters, 1 doz. assted. in box. (Gro. $9.00). Doz. 77¢

T8445—Wire mask, assted. males and females. 2 doz. assted. in box. (Gro. $9.50). Doz. 82¢

SANTA CLAUS MASKS

★T8446—Flax beard, 1 doz. in box. (Gro. $4.20). Doz. 37¢

T1634—Ball in., printed in bright colors. die cut red tissue crowns. 1 doz. in box. (Gro. $4.50). Doz. 40¢

T8447 T8448 T8449

T8448—Adult's size with hat, long beard. 1 doz. in box. (Gro. $10.00). Doz. 85¢

T8447—Adult's size, long flax beard. doz. in box. (Gro. $7.50). Doz. 68¢

T8449—Adult's size, silver and flax beard, cap decorated with silver stars. 1 doz. in box. (Gro. $11.25). Doz. $1.05

T8450—Adult's size, silver cut flax beard and hair. 1 doz. in box. Doz. $1.65

T8450

SPECTACLES

T2997½—Pin nay nose, lastens behind ears. 1 gro. in envelope. (Gro. 85¢

LITHOGRAPHED CHARACTER MASKS

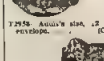
Fit any face. Lithographed in natural colors

T2957 Children's, 12 styles assted. gro. in pkg. (Gro. 85¢

T2958—Adult's size, 12 styles, assted. 1 doz. in envelope. (Gro. $4.00). Doz. 38¢

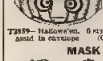
T2959—Halloween, 6 styles assted., full in. 1 doz. assted. in envelope. (Gro. $4.00). Doz. 35¢

MASK HATS



T2951—Chicken hat. 8x10 in. 1 doz. in envelope. (Gro. $4.00). Doz. 35¢

T2954—Assid. Birds. 1 doz. in envelope. (Gro. $7.50 Doz. 62¢



T2955—Assid. Animals. 1 doz. in envelope. (Gro. $7.50) Doz. 65¢

CURTAIN AND DOMINO MASKS

T2416 T2414

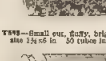
T2416—Curtain Masks—6 colors, Cambric, 8x10 in. 1 doz. assid in pkg. (Gro. $4.00). Doz. 35¢

T2417 As T2416. Satcen. (Gro. $9.00). Doz. 77¢

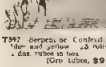
T2414 Domino Mask—6 colors, Cambric. 1 doz. in pkg. (Gro. $4.00). Doz. 35¢

T2415—As T2414. Mirrored eyewa. 1 doz. assid. in pkg. (Gro. $9 50 Doz 80¢

PAPER CONFETTI



T898—Small cut, fluffy, bright in wax paper tubes size 1½x6 in. 10 tubes in box. Box. $1.15



T897 Serpentine Confetti assid Colors Green, blue and yellow. 25 rolls in waxed paper tube. 1 doz. tubes in box. (Gro tubes, $9.50) Doz tubes 82¢

PATRIOTIC NOVELTY HATS

Made of strong cardboard, honeycombed tissue paper crowns. 1 doz assid. in box

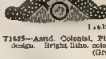
T1635

T1635—Assid. Colonial, Plaid Hussar and Indian design. Bright tissue colors. (Gro., $4.50) Doz. 40¢

T1636

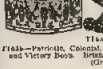
T1636—Patriotic, Colonial, American Eagle, Allies and Victory Boys. Bright tissue colors. (Gro., $4.50) Doz., 40¢

TISSUE GARLANDS



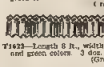
T1623—Length 8 ft., width 3 in., alternating red and green colors. 3 doz. in box. (Gro. $2.25 Doz., 20¢

T1623—Length 8 ft., width 3½ in., alternating red and green colors. 3 doz. in box. (Gro. $2.75). Doz., 25¢

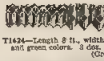


T1624—Length 8 ft., width 3½ in., alternating red and green colors. 3 doz. in box. (Gro., $3.75 Doz. 35¢

T1625—Length 10 ft., width 4 in., alternating red and green colors. 3 doz. in box. (Gro., $4.50). Doz., 40¢



T1626—Length 9 ft., green with large red rosettes. 2 doz. in box. (Gro., $9.00). Doz., 77¢



T1627—Length 11 ft. width 4 in. doz. in box. (Gro $9.00 Doz 77¢

ROW BOATS

IMPROVED MODEL FOR OUTBOARD MOTOR

A Square Stern Boat offering safety in the roughest of weather; Of design that will penetrate waters often to shallow to permit passage of usual draft motor boat; Easily accommodates 7 or 8 passengers

Specifications—Clear selected **White Oak** frame work. Ribs are ½x1 in., spaced 4½ in apart; Each securely fastened to the inwales by copper rivets. Stern or transom is 1¾ in. thick, strengthened with steel bolts and Stern Knees; Also an Oak Stern Post extending well to the top; Decking, pine or fir; Coaming, selected Oak.

Three Cross Seats, 12 in. Wide, and spacious Stern Seat of clear western pine, natural finish, with three coats "Univernish". Inside of boat painted three coats gray **"Marswells Marine Paint".** Joints well caulked and filled with best seam composition, making outside perfectly smooth. All screw and nail holes filled with white lead putty and painted three coats of Marswells Water Green. Decks and Gunwals natural finish with three coats "Univernish".

Each boat is provided with one pair Galvanized Oar Locks and one pair 8 ft. Oars, Copper Tipped.

Each

✚**No. F3461AB—Length 16 ft.;** 48 in. Beam; Depth Amidship 19 in.; Gunwales ⅝x1⅜ in.; Shipping Weight 240 Lbs....$172.00

✚**No. F3461AB—Length 18 ft.;** 50 in. Beam; Depth Amidship 19 in.; Gunwales ⅝x1⅜ in.; Shipping Weight 270 Lbs.. 193.00

FAMILY ROW BOAT

Complete with One Pair of Leathered and Varnished Oars and Two Pairs of Oar Locks; With Reinforced Transom extending high enough above the stern deck to allow for fastening on any of the ordinary Outboard Motors.

Specifications—Entire Frame made of Selected White Oak; Planking is clear Selected Cedar; Coaming and Gunwales are made of Oak; Deck is made of Cedar; All Fastenings are Galvanized Iron; Outside painted Three Coats best Marine White, Top Strake painted Bright Red; Decks, Coaming, Gunwales and Seats finished Natural in Spar Varnish; Inside painted Two Coats Green.

Each

✚**No. F3461C—Length 16 ft.;** 48 in. Beam; Depth Forward 26 in.; Depth Amidship 17½ in.; Depth Aft 23 in.....$128.00
Shipping Weight 220 Lbs.

FISHING AND HUNTING BOATS

FLAT BOTTOM

Complete with one pair of Oars and Oar Locks; Especially designed for all around use and built for heavy service; Can be used with any ordinary Outboard Motor; Constructed of Selected Cypress. Built with Clinker Sides, two Strakes on each side; Finished Natural with Spar Varnish.

Each

✚**No. F3461F—Length 16 ft.;** 46 in. Beam; Depth 16½ in...$104 00
Shipping Weight 230 Lbs. Each

SPECIAL BOAT FOR OUTBOARD MOTOR

A Boat of special design and heavy construction. Its wide, nearly flat stern section prevents drawing down when running. Extremely steady, roomy and seaworthy; Handles easily with a pair of Oars; Will carry six persons.

Specifications—Frame work is made from selected White Oak, Ribs are 1½ in., spaced 6 in. centers; Transom 1½ in. Oak, reinforced, with Iron Bolts; Decking and Coaming, Selected Oak; Gunwales with Galvanized Fastenings; Interior of Boat is provided with three Cross Seats 12 in. Wide, and Stern Seat large enough to allow the operator ample seating room; One pair Leathered and Varnished Oars and Two Pairs Oar Locks furnished with each Boat.

Seats are made from clear Selected Cedar or Spruce, finished natural with Two Coats of Spar Varnish; the Inside of Boat is painted Two Coats Battleship Gray; Outside is thoroughly smoothed, joints caulked with Seine Twine; Seams, Nail and Screw Holes are filled with White Lead and entire outside painted Three Coats Moss Green; Decks and Gunwales finished natural with Three Coats Spar Varnish.

Each

✚**No. F3461A—Length 16 ft.;** 48 in. Beam; Depth at Bow 26 in.; Depth at Stern 23 in.; Depth Amidship 17 in.; Gunwales ⅝x1½ in.; Shipping Weight 285 Lbs. Each.....$164.00

✚**No. F3461B—Length 18 ft.;** 50 in. Beam; Depth at Bow 25 in.; Depth at Stern 24 in.; Depth Amidship 18 in.; Gunwales ⅝x1½ in.; Shipping Weight 350 Lbs Each..... 184.00

STANDARD SQUARE STERN ROW BOAT

Complete with One Pair of 7 ft. Spruce Oars and Two Pairs of Oar Locks of Special Design; Iron Stem Band and Seat Braces; These Boats are provided with Iron Bolts through edge of Transom and can be used with an **Outboard Motor, if so desired**

Specifications—Entire Frame and Transom made of Clear Selected White Oak or Jack Pine; Planking is Clear Selected Cedar, fastened to Ribs with Galvanized Clout Nails, All Fastenings are Galvanized Iron, Outside painted Three Coats White Lead, with Top Strake painted Bright Red, Gunwales and Decks finished Natural, Inside painted Two Coats Green

Each

✚**No. F3461D—Length 14 ft.;** 44 in Beam, Depth Forward 23 in; Depth Amidship 14½ in ; Depth Aft 20 in ; Shipping Weight 185 Lbs Each.....$103.00

✚**No. F3461E—Length 16 ft.;** 46 in. Beam; Depth Forward 24 in.; Depth Amidship 15½ in.; Depth Aft 21 in.; Shipping Weight 210 Lbs. Each..... 108.00

DUCK BOATS

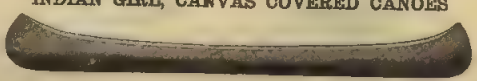
Bottom and Planking, Selected Cedar or White Pine; Thickness of Bottom ¾ in., Planking ⅜ in.; Planking consists of Four Strakes on each side; Ribs are ⅝x⅞ in., spaced 4 in. center, securely fastened through Bottom and Planking with Clout Nails In connection with the Bent Rib, each Boat is provided with Three Sawed Oak Frames ⅝x1 in. Decks and covering Boards are ⅜ in Selected Cedar, Coaming is of Selected Oak extending 3 in above Decks; Complete with Galvanized Anchor Tube, through each Deck Fittings consist of One Pair of 6 ft. Oars, One Push Paddle, Oar Locks and One Seat.

Each

✚**No. F3461H—Length 12 ft.;** 34 in. Beam; Length of Cockpit 6½ ft.; Shipping Weight 85 Lbs. Each.....$85.00

✚**No. F3461J—Length 14 ft.;** 34 in. Beam; Length of Cockpit 8½ ft.; Shipping Weight 100 Lbs. Each..... 90.00

INDIAN GIRL, CANVAS COVERED CANOES



Open Gunwale Type; High grade throughout; Hand Caned; All Fastenings are Copper and Brass; Ribs and Planking Clear Selected Cedar; Ribs Polished Brass Stem Bands; Outside is Canvas, spaced 4 in. centers; Gunwales and Fenders made covered, Enameled in Green; Decks, Gunwales from Clear Selected Spruce; Decks Thwarts and inside finished with three coats of Spar; Seat Rails made from Clear Birch; Seats are Varnished; **Complete with one Spruce Paddle.**

Each

✚**No. F3461K —Length 16 ft.;** 33 in. Beam; Depth Amidship 13 in ; Depth at Ends 24 in.; Shipping Weight 73 Lbs. Each.....$112 00

✚**No. F3461K4—Length 17 ft.;** 34 in. Beam; Depth Amidship 13 in ; Depth at Ends 24 in.; Shipping Weight 78 Lbs. Each..... 116 00

✚**No. F3461L —Length 18 ft.;** 35 in. Beam; Depth Amidship 13 in.; Depth at Ends 24 in.; Shipping Weight 85 Lbs Each..... 120.00

✚**All Above Boats, Not Carried in Stock; Sold for Direct Shipment from Eau Claire, Wis.**

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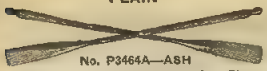
BOAT OARS

PLAIN



No. P3464A—ASH

Selected Ash; Straight Blade; Strong, Tough and Well Balanced; Free from imperfections.

Length, Ft.	6	6½	7	7½
Weight Pair, Lbs.	6	7	7½	8
Per Pair	$3.70	4.00	4.25	4.70
Length, Ft.	8	9	10	
Weight Pair, Lbs.	9	12	16	
Per Pair	$5.00	6.20	7.00	

No. P3464A4—SPRUCE

Clear Spruce; Straight Blade; Straight Grained; Especially Light; Perfect Stock.

Length, Ft.	6½	7	7½	8
Weight Pair, Lbs.	5	6	6½	7
Per Pair	$5.50	6.00	6.20	6.60

COPPER TIPPED

No. P3464B—ASH

Selected Ash; Straight Blade, with Copper Tips; Tough and Well Balanced; Free from Imperfections.

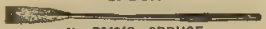
Length, Ft.	6	6½	7	7½	8
Wt. Pair, Lbs.	6	7	8	8½	9
Per Pair	$4.20	4.60	5.00	5.30	5.70
Length, Ft.	8½	9	10	11	
Wt. Pair, Lbs.	10	12	16	21	
Per Pair	$6.00	7.00	8.00	10.50	

No. P3464B4—SPRUCE

Clear Spruce; Straight Blade; Copper Tipped; Straight Grained; Especially Light; Perfect Stock.

Length, Ft.	6½	7	7½	8
Weight Pair, Lbs.	5	6	6½	7
Per Pair	$6.00	6.50	7.00	7.50

SPOON



No. P3464C—SPRUCE

Extra Quality Spruce, Spoon Shaped Blade, with Copper Tip; Nicely Varnished; Fitted with Oar Leathers.

Length, Ft.	7	7½
Weight Pair, Lbs.	7	7½
Per Pair	$11.00	12.00

EXTRA COPPER TIPS Per Pair

No. 3464C4—Extra Copper Tips, for Oars $0.75

Open Stock; Weight 1¼ Lbs. Dozen Sets

OAR LEATHERS

Specially prepared Heavy Oak Sole Leather; Easily attached; Complete with Tacks and Nails.

Per Dozen Sets

No. 3464D—Length 8 in. $10.00

One Set in Envelope

Weight 4½ Lbs. Dozen Sets

CANOE PADDLES

No. P3464D4—SPRUCE; PLAIN; 8½ IN. BLADE

Selected Spruce; Spar Varnish Finish

Length, Ft.	4½	5	5½	6
Weight Each, Lbs.	1½	1¾	1¾	2
Each	$3.80	3.80	3.80	3.80

No. P3464D5—NORTHERN WHITE FIR; 6½ IN. BLADE

Length, Ft.	5	5½
Weight Each, Lbs.	1¾	1¾
Each	$3.00	3.00

No. P3464D7—NORTHERN WHITE FIR; 8 IN. BLADE

Length, Ft.	3	3½	4	4½
Weight Each, Lbs.	1¾	1¾	1½	1½
Each	$4.00	4.00	4.00	4.00

No. P3464E4—MAPLE; COPPER TIPPED

Selected Maple; Fine Stock; Highly Finished with Spar Varnish; Extra Large Blade with Special Designed, Hand Shaped Comfort Grasp.

Length, Ft.	5	5½
Weight Each, Lbs.	2	2½
Each	$4.30	4.30

No. P3464E—MAPLE; PLAIN; 6½ IN. BLADE

Selected Maple; Spar Varnish Finish; Extra Strong

Length, Ft.	5	5½
Weight Each, Lbs.	2¼	2½
Each	$4.00	4.00

BATEAU PADDLES

No. P3464F—MAPLE

Selected Straight Grain; Rock Maple; Blade Copper Tipped, with Steel Point; Used by Millmen, Log Rafters, etc.

Length, Ft. 7

Weight Each, Lbs. 4½

Each $7.00

OAR LOCKS

No. 3464F4

No. 3464J

Per Pair

No. 3464F4—Patent Swivel; Galvanized Malleable Iron; 3 in. Top Opening, 2½ in. at Center; Weight 2¼ Lbs. Pair $2.70

No. 3464H—Extra Horns; Weight 1½ Lbs. Pair 1.40

No. 3464J—White Bear; Tinned Malleable Iron; 1¾ in. Top Opening, 2 in. at Center; Weight 2 Lbs. Pair. .90

No. 3464K No. 3464L No. 3464L4

Per Pair

No. 3464K—Round Socket; Galvanized Malleable Iron; Diam. Inside of Rings 2 in.; Wt. 1 Lb. 6 Oz. Pair..$0.70

No. 3464L—North River; Galvanized Malleable Iron; Iron Bolt through Top; Width at Center 2 in.; Weight 1 Lb 6 Oz. Pair ..... .60

No. 3464L4—White Bear with North River Sockets; Tinned Malleable Iron; Iron Bolt through Top; Width at Center 2 in.; Weight 1½ Lbs. Pair .90

SOCKET PATTERN

Galvanized Malleable Iron

Nos.	Top Open. In.	Center Open. In.	Weight, Pair	Per Pair
3464M	1½	2½	1 Lb 3 Oz.	$0.50
3464N	2	2½	1 Lb. 6 Oz.	.60
3464P	2¼	3	1 Lb. 9 Oz.	.70

Polished Malleable Iron

3464T	1½	2½	1 Lb. 3 Oz.	.40
3464V	2	2½	1 Lb. 6 Oz.	.50

LIFE PRESERVERS

CORK

Waist Style with Shoulder Straps; for Inland Lakes and Rivers except Great Lakes; Compressed Granulated Cork; with Canvas Drill Covering; Strongly Sewed throughout; Approved and stamped by U. S Inspector.

Each

No. 3464W -Width 12 in. ..$4.00

Open Stock; Weight 7 Lbs. Each

RING BOUYS

CORK

Acme Cork moulded into perfect shape and covered with Heavy Canvas; Heavy Cotton Rope held in position by Wide Canvas Strips.

Each

No. 3464X Diam. 24 in...$8.00

Weight 7 Lbs Each

LIFE PRESERVER PILLOWS

KENYON

Fine Grade Artificial Spanish Leather; Filled with Soft, Non-absorbent Prince, Java Kapoc; Will support heaviest person 48 hours; Fulfills all requirements of the law; Also used for Cushion in Canoe or Pleasure Boat.

Each

No. 3464V—Size 16x16 in..$2.70

Weight 22 Oz. Each

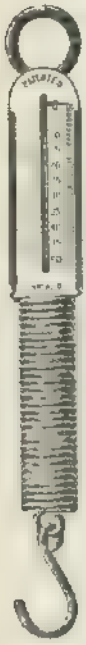
CANOE GLUE

Black Marine Glue is the best preparation known for waterproofing and filling Canvas Covering on Canoes; Any puncture or leak in canoe can be permanently repaired in five minutes; Will not dry up nor deteroriate in the can.

Nos.	3464Y4	3464Y6
Cans, Lbs.	¼	1
Per Dozen	$7.00	16.00

Open Stock

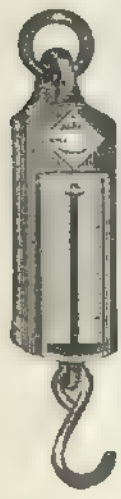
SPRING AND ICE BALANCES



PELOUZE spring, white nickeled steel face, straight japanned steel case and heavy steel spring.

Nos.	500P	100P	1500P	210P
Cap., lbs.	50x½	100x1	150x1	210x2
Lgth, over all, in.	11	18	17	19
W't, doz., lbs.	6	18	18	24
Per dozen	$21.00	45.00	53.50	69.50

HALF DOZEN IN A BOX



PELOUZE, double dial, wide gradnations, malleable iron throughout, absolutely unbreakable, size over all 15½x2⅜ in. Double dial ice scales as the name implies have double dials which admit of greater distance between graduations and the dials are more easily read. Made to comply with the requirements of the departments of weights an l measures. Can be quickly adjusted, if necessary, by removing the steel cap on top and turning the screw slightly.

Nos.	202	205
Cap., lbs.	200x2	200x5
Per dozen	$104.00	96.00
Nos.	305	405
Cap., lbs.	300x5	400x5
Per dozen	$112.00	120.00

ONE IN A BOX

IRONCLAD ICE BALANCES

CHATILLON'S, heavy iron case and heavy steel spring, brass dial, stamped figures, with heavy tinned hook ring, length over all 14 in.

Nos.	302	303
Capacity, lbs.	200x5	300x5
W't, doz., lbs.	42	42
Per dozen	$103.50	129.60

ONE IN A BOX

PELOUZE'S, steel king, long brass dial, black figures, heavy steel case, with heavy tinned hook and ring, with limiter attached to the spring which prevents the spring from being extended beyond its capacity, length over all 15½ in.

Nos.	150	200
Capacity, lbs.	150x1	200x2
W't, doz., lbs.	50	52
Per dozen	$104.00	112.00
Nos.	300	400
Capacity, lbs.	300x5	400x5
W't, doz., lbs.	52	53
Per dozen	$120.00	128.00

ONE IN A BOX

CHATILLON'S WAGON SCALES

Conforms to weights and measure laws of the various states.

Black japanned steel case, heavily tinned hook and ring. Pointer and dial are protected by raised sides, length of dial 9½ in., width 1⅜ in.

Made especially for use of Dealers in Fruit, Vegetables, Ice and Coal, who desire a compact portable scale that can be carried in the pocket.

No. 401—25 lbs. by ¼ lb., per dozen $66.00
No. 701—50 lbs. by ½ lb., per dozen $72.00

QUARTER DOZEN IN A BOX

MILK SCALES

CHATILLON'S black enameled steel case, polished brass face, stamped in figures and lines, tinned steel hook and ring.

These scales are made with a loose pointer which by means of a thumb screw on the center of the pointer may be set anywhere on the dial, thus taking care of a milk pail, etc.

Nos.	260MD	270MD	280MD
Capacity, lbs.	30x1-10	60x10	120x1-5
W't doz., lbs...	27	32	48
Per dozen ...	$124.00	160.00	240.00

ONE IN A CARDBOARD BOX

CHATILLON'S SPRING BALANCES

No. 52.

Brass face stamped figures, japanned case with heavy tinned hook and ring.

No. 52—Capacity 25 lbs. × ½ lb., length over all 8¼ in., with 9 in. round tin dish, w't per doz. 8 lbs.,
per dozen $8.50

HALF DOZEN IN A BOX

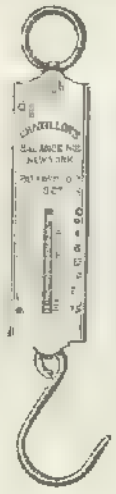
Brass face, stamped figures, japanned case with heavy tinned hook and ring.

LIGHT STRAIGHT CASE

Nos.	50	51
Capacity, lbs.	25×½	50×1
Length over all in.	8¼	10½
W't, doz., lbs.	3	5
Per dozen	$3.40	6.50

ONE IN A BOX

CHATILLON'S SPRING BALANCES



Brass face, stamped figures, japanned case, with heavy hook and ring.

HEAVY STRAIGHT CASE.

Nos.	81	84
Capacity, lbs.	25×½	50×1
Length over all, in.	10	13½
W't, doz., lbs.	5	9
Per dozen	$3.50	17.00

Brass face, stamped figures, japanned case, with heavy hook and ring

No. 70—Heavy Round Case, capacity 25 × ½ lb., length over all 9 in., w't per doz. 3 lbs.,
per dozen $8.50

HALF DOZEN IN A BOX

CHATILLON'S SPRING BALANCES

CHATILLON'S IMPROVED, Circular dial, brass face, black figures, japanned case, tinned, hook and ring, each 20 lbs. indicated on the slide.

Nos.	120	121
Kind	Heavy	Light
Capacity, lbs.	30×1 oz.	60×2 oz.
Length over all, in.	15½	18
W't, doz., lbs.	34	38
Per dozen	$120.00	144.00

TWELFTH DOZEN IN A BOX

No. 86—Capacity 80×1 lb., straight brass, extra quality, heavy, length over all 11½ in., w't per doz. 19 lbs.,
per dozen $50.00

QUARTER DOZEN IN A BOX

SINGLE BARREL TRAP GUNS

ITHACA

NO. 4E GRADE

Barrel—Very high grade of fluid steel, exceedingly tough, hard and strong, especially adapted for nitro powder, ventilated rib, automatic ejector.

Stock—Well finished walnut, full or half pistol or straight grip, carefully hand checkered and figured gold shield in stock, beaver tail fore-end, hard rubber butt plate.

Frame—Engraved with trap shooting scene on one side and American Eagle design on the other, hardened and polished trigger, equipped with lightning lock, bolted at three points, will stand the continuous strain of heavy trap loads, hammerless.

No. F4E—12 gauge, 30, 32 or 34 in. barrel, w't 7¾ to 8¾ lbs.★ .....each $211.55

NO. 5E GRADE

Frame, top lever, fore-end iron, guard and trigger plate elaborately engraved by hand. Beautiful leaf and flower design on sides of frame and trigger plate; quail inlaid in silver on right side of frame; pheasant inlaid in silver on left side. American Eagle design on trigger plate. Triple gold plated or hardened, polished trigger. Gold shield in stock.
No. F5E—12 gauge, 30, 32 and 34 in barrel, w't 7¾ to 8¾ lbs ★ .....each $296.15

NO. 6E GRADE

Frame, top lever, fore-end iron, guard and trigger plate very elaborately hand engraved. The first American shooter was the Indian with his bow and arrow. This original design is most skillfully inlaid in green and yellow gold and silver on one side of frame. The very latest American shooter is the trapshooter. The down-to-date trap gun is the "one-barrel" built for this special purpose. This down-to-date man and his gun were also designed especially for us and are inlaid in the most artistic manner on the other side of the frame. An American Eagle of special design is engraved on trigger plate. Triple gold plated or hardened, polished trigger. Gold shield in stock.

No. F6E—12 gauge, 30, 32 or 34 in. barrel, w't 7¾ to 8¾ lbs ★ .....each $440.00

"VICTORY GRADE"

The Ithaca Victory Grade single barrel trap gun is a gun the shooters have been looking for—a thoroughbred single barrel trap gun at a popular price. While it is not as elaborately finished as the higher priced guns it has very good lines and is built to "stand the racket" of trap shooting. The Victory Grade gun comes only in the following standard dimensions and absolutely cannot be built to order.

Barrel is 12 gauge, 34 in., fitted with matted, ventilated top rib, brass front and rear sights, stock, straight, grip, hand checkered, 14⅛ in. long, 1⅝ in. drop at heel, 1⅛ in. drop at cone, fitted with recoil pad. "Beaver-Tail" hand-checkered fore-end.

Frame, top lever, trigger plate, fore-end iron and guard, line engraved.

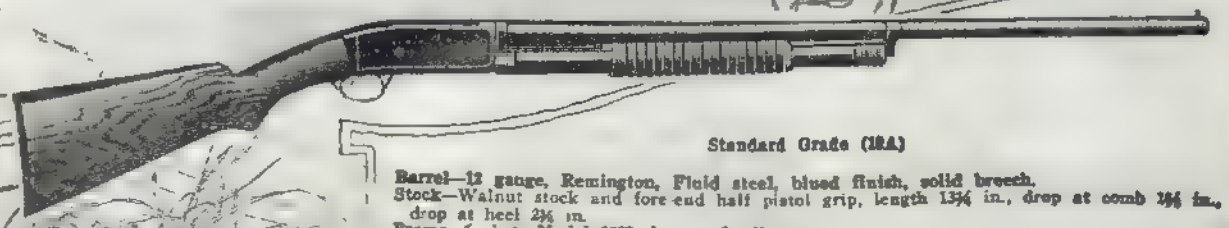
Center position trigger, non-ejector.

No. F8—12 gauge, 34 in. barrel, w't 8 to 8¾ lbs.★ .....each $126.90

★ Items Marked Thus ★ Are Shipped from Factory Only.

REMINGTON

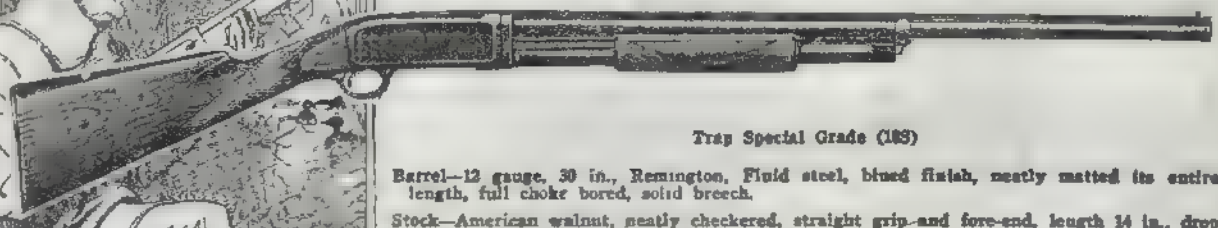
REPEATING HAMMERLESS



Standard Grade (18A)

Barrel—12 gauge, Remington, Fluid steel, blued finish, solid breech.
Stock—Walnut stock and fore-end half pistol grip, length 13¾ in., drop at comb 1⅝ in., drop at heel 2¾ in.
Frame—6 shot, Model 1908, bottom loading

No. 150—Plain barrel, 28, 30 or 32 in., full or modified choke bored, w't 7½ lbs...each $ 85.30
No. 160—Plain barrel, 26 in., cylinder bored, w't 7½ lbs. ..... each 85 30
No. 150R—Raised matted rib, 30 in. full choke bored, w't 7¾ lbs. . . . each 100 90
Any other length or drop of stock to order★.....additional $24.00



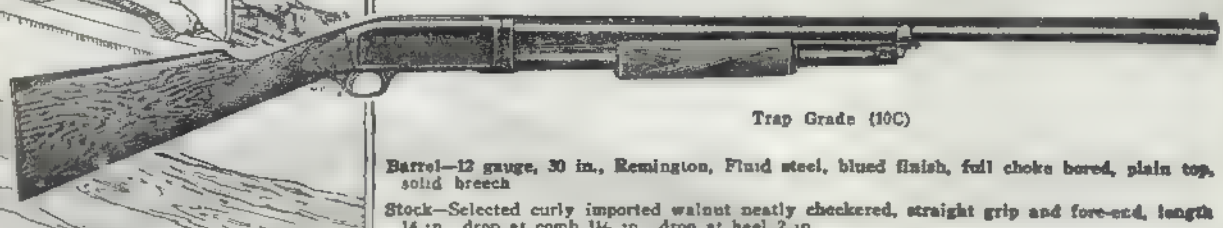
Trap Special Grade (18S)

Barrel—12 gauge, 30 in., Remington, Fluid steel, blued finish, neatly matted its entire length, full choke bored, solid breech.

Stock—American walnut, neatly checkered, straight grip and fore-end, length 14 in., drop at comb 1½ in., drop at heel 2 in.

Frame—6 shot, Model 1908, bottom loading.

No. 170—Matted barrel, w't about 7¾ lbs. ..... each $101 70
No. 170R—Raised matted rib, w't about 7¾ lbs. ..... each 117.25



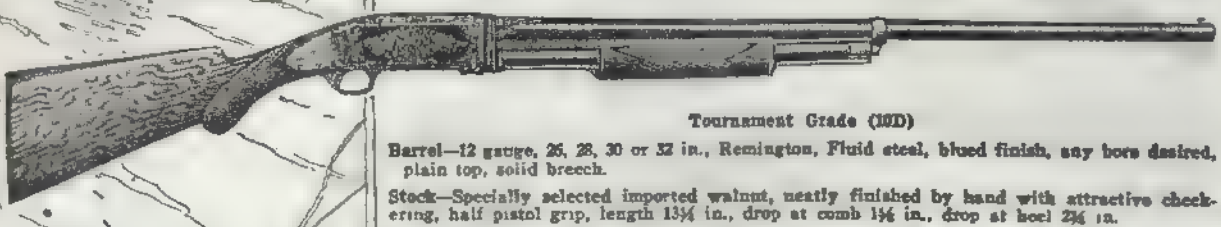
Trap Grade (10C)

Barrel—12 gauge, 30 in., Remington, Fluid steel, blued finish, full choke bored, plain top, solid breech

Stock—Selected curly imported walnut neatly checkered, straight grip and fore-end, length 14 in., drop at comb 1½ in., drop at heel 2 in.

Frame—6 shot, Model 1908, bottom loading.

No. F175—Plain barrel, w't about 7¾ lbs.★ ..... each $116 60
Stocks will be made to order without charge in lengths from 13½ to 15 in., drops at comb from 1½ to 1¾ in. and at heel from 2 to 1¼ in.★
No. F175R—Raised matted rib, w't about 7¾ lbs★ ..... each $132.20



Tournament Grade (10D)

Barrel—12 gauge, 26, 28, 30 or 32 in., Remington, Fluid steel, blued finish, any bore desired, plain top, solid breech.

Stock—Specially selected imported walnut, neatly finished by hand with attractive checkering, half pistol grip, length 13¾ in., drop at comb 1⅝ in., drop at heel 2¾ in.

Frame—Receiver and barrel finished in a rich scroll, hand engraved, all working parts hand polished, 6 shot, Model 1908, bottom loading.

No. F180—Plain barrel, w't about 7¾ lbs.★ .....each $163 60
Will furnish made to order without additional charge, straight or pistol grip stock in any dimensions desired.
No. F180R—Raised matted rib, w't about 7¾ lbs★ .....each $178.60

★ Items Marked Thus ★ Are Shipped From Factory Only.

SINGLE BARREL TRAP GUNS

L. C. SMITH

SPECIALTY TRAP GRADE

Barrel—Nitro blued steel or Damascus steel, compensating ventilated top rib, automatic ejector, any bore desired, chambered for 2¾, 2⅞ or 3 in. shells.

Stock—Fine quality walnut, full or half pistol or straight grip to order, checkered grip and fore-end.
Frame—Beautifully engraved, hammerless.

SPECIALTY GRADE

The compensating ventilated top rib automatically adjusts itself for the 70 degrees difference between the barrel and rib during constant shooting and so cannot buckle the barrel. The sides of the rib are made parallel to insure quick and accurate sighting.

No. F2ST—12 gauge, 30, 32 or 34 in. barrel, w't 7½ to 8¼ lbs.★ ..... each **$235.90**

EAGLE GRADE

The decoration, while not elaborate, is of a nature to give the style that classes it far above the usual. On the left lock plate appears a ring-necked pheasant in bold relief against a frosted back ground; and on the right a duck in full flight. The top and bottom of the frame are ornamented with scroll work of artistic design.

No. F3ET—12 gauge, 30, 32 or 34 in. barrel, w't 7½ to 8¼ lbs.★ ..... each **$321.20**

CROWN GRADE

The detail of the gold inlay and engraving is delicate and pleasing to the most critical eye.

No. F4CT—12 gauge, 30, 32 or 34 in. barrel, w't 7½ to 8¼ lbs.★ ..... each **$443.30**

MONOGRAM GRADE

The engraving, embodying scroll and relief work, is of the utmost distinctiveness both in design and execution. The barrels are chosen of Monogram steel with a view to strength, service, proper balance and quick handling. The stock is from imported walnut, carefully finished, and is in keeping with the entire gun.

No. F5MT—12 gauge, 30, 32 or 34 in. barrel, w't 7½ to 8¼ lbs.★ ..... each **$634.70**

FOX

J GRADE

Barrel—Highest grade Chromox Fluid steel; sliding ventilated top rib; automatic ejector.
Frame—Beautifully engraved; heavy tapered steel cross bolt; one-piece nickel steel hammer; Coil springs throughout.
Stock Fine quality walnut, full or half pistol or straight grip to order, checkered grip and fore-end.

No. FJTE—12 gauge, 30 or 32 in. barrel, w't 7½ to 8¼ lbs.★ ..... each **$264.50**

A wonderfully, close, even shooting gun with the highest quality of workmanship and finish throughout.

★ **Items Marked Thus ★ Are Shipped From Factory Only.**

DOUBLE BARREL SHOT GUNS

ITHACA HAMMERLESS

Field Grade.

Barrels—Blued smokeless steel, double thick nitro breech, both barrels full choke or left full choke and right modified choke bored, matted hollow ground rib with bolted extension, plain extractor.

Stock—Black walnut, good color, well finished, half pistol grip, hand checkered stock and fore-end, ornamented rubber butt plate.

Frame—Case hardened, automatic safety and all locks forged from same steel as used on higher grade guns, mechanical construction is the same blued guard.

No. 59—12 gauge, 30 or 32 in. barrel, w't 6¾ to 8¼ lbs., each $62.40

No. 1659—16 gauge, 28 or 30 in. barrel, w't 6¼ to 7 lbs., each $62.40

No. 2059—20 gauge, 28 or 30 in. barrel, w't 5¾ to 6¾ lbs., each $62.40

Barrels—Imported nitro blued steel barrels, both choked, matted hollow ground rib, locking bolt extension, plain extractor.

Stock—Black walnut and fore-end checkered, full pistol grip, capped, ornamented rubber butt plate.

Frame—Case hardened, automatic safety catch, blued guard, frame top lever, fore-end iron and guard line engraved.

No. 61—12 gauge, 30 in. barrel, w't 7¼ to 8 lbs., each $79.15

STEVENS' HAMMERLESS

Barrels—High Pressure Compressed steel, bored for nitro powders, matted extension rib, left barrel full choke, right barrel modified choke bored.

Stock—Varnished American walnut, checkered half pistol grip and fore-end, length 14 in., drop 3 in.

Frame—Case hardened ornamented with scrolls, top lever and bolt one piece, locking through extension rib, spiral mainspring, automatic safety, all parts drop forged.

No. 335—12 gauge, 30 or 32 in. barrel, w't 7¾ to 8¼ lbs., each $48.60

No. 16335—16 gauge, 28 or 30 in. barrel, w't 7¼ to 8 lbs., each $48.60

No. 20335—20 gauge, 28 in. barrel, w't 6 to 6¼ lbs., each $54.00

STEVENS' HAMMER

Barrels—High pressure compressed steel, bored for nitro powder, matted extension rib, left barrel full choke, right barrel modified choke bored.

Stock—Varnished American walnut, checkered half pistol grip and fore-end, length 14 in., drop 3 in.

Frame—Case hardened ornamented with scrolls, top lever and bolt in one piece locking through extension rib, low circular hammers, rebounding locks, coil mainsprings, all parts drop forged.

No. 235—12 gauge, 30 or 32 in. barrel, w't 7¾ to 8¼ lbs., each $41.50

No. 16235—16 gauge, 28 or 30 in. barrel, w't 7¼ to 8 lbs., each $41.50

★ Items Marked Thus ★ Are Shipped from Factory Only.

IVER JOHNSON REVOLVERS

SAFETY HAMMER, AUTOMATIC EJECTOR

Double action, hinged frame, hammer model, checkered rubber stocks. Five shots.

Chambered for .32 S. & W. Center Fire or .38 S. & W. Center Fire Cartridges

Caliber	Length Barrel Inches	Weight Ounces	Nickel Plated Each	Blued Each
.32 R. F.	3	13½	$12.00	$12.50
.32 C. F.	3	13½	12.00	12.50
.38 C. F.	3¼	18	12.00	12.50

Add for long barrels, 4 in., **$0.50**, 5 in., **$0.75** 6 in., **$1.00** to list

SAFETY HAMMERLESS, AUTOMATIC EJECTOR

Double action, hinged frame, hammerless model, checkered rubber stocks. Five shots.

Chambered for .32 S. & W. Center Fire or .38 S. & W. Center Fire Cartridges

Caliber	Length Barrel Inches	Weight Ounces	Nickel Plated Each	Blued Each
.32 R. F.	3	13½	$13.00	$13.50
.32 C. F.	3	13½	13.00	13.50
.38 C. F.	3¼	18	13.00	13.50

Add for long barrels, 4 in., **$0.50**; 5 in., **$0.75**; 6 in., **$1.00** to list

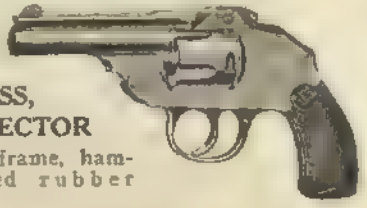
U. S. REVOLVERS

HAMMER, AUTOMATIC EJECTOR

Double action hinged frame, hammer model, checkered rubber stocks. Five shots.

Chambered for .32 S. & W. Center Fire or .38 S. & W. Center Fire Cartridges

Caliber	Length Barrel Inches	Weight Ounces	Nickel Plated Each	Blued Each
.32 C. F.	3	13½	$7.50	$8.00
.38 C. F.	3¼	18	7.50	8.00



HAMMERLESS, AUTOMATIC EJECTOR

Double action, hinged frame, hammerless model, checkered rubber stocks. Five shots.

Chambered for .32 S. & W. Center Fire or .38 S. & W. Center Fire Cartridges

Caliber	Length Barrel Inches	Weight Ounces	Nickel Plated Each	Blued Each
.32 C. F.	3	13¼	$8.50	$9.00
.38 C. F.	3¼	18	8.50	9.00

COLT REVOLVERS

NEW SERVICE MODEL

Double action, jointless solid frame, swing out cylinder. Simultaneous ejection, checkered rubber stocks, ring on butt, positive lock. Six shots. Blued.

.38 Caliber Chambered for .38-40 (.38 Winchester) Center Fire Cartridges

Length barrel, inches	4½	5½	7½
Weight, ounces	40	41	44
Each	$39.00	39.00	39.00

.44 Caliber Chambered for .44-40 (.44 Winchester) Center Fire Cartridges

Length barrel, inches	4½	5½	7½
Weight, ounces	40	41	44
Each	$39.00	39.00	39.00

.45 Caliber Chambered for .45 Colt (Full, Medium or Gallery Loads) Center Fire Cartridges

5½ inch barrel, weight 40 ounces.....each **$39.00**
7½ inch barrel, weight 44 ounces.....each. **39.00**

NEW SERVICE TARGET MODEL

Double action, jointless solid frame, swing out cylinder, simultaneous ejection, front sight adjustable for elevation, rear sight with adjusting screw, adjustable for windage, walnut stocks neatly checkered, positive lock. Blued finish. Six shots.

.44 Caliber, Chambered for .44 Russian and .44 S. & W. Special (Full, Mid Range or Gallery Loads) Center Fire Cartridges

Length barrel, inches. 7½
Weight, ounces 42
. . . . . $60.00

ARMY SPECIAL MODEL

Double action, jointless solid frame, swing out cylinder, simultaneous ejection; rubber stocks, positive lock, blued finish. Six shots.

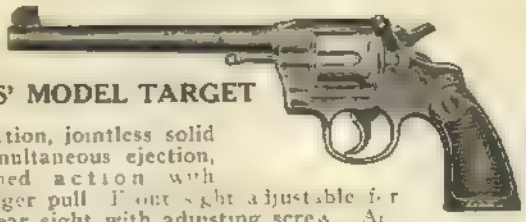
.32 Caliber Chambered for .32-20 (.32 Winchester) Center Fire Cartridges

Length barrel, inches	4	5	6
Weight, ounces	33	34	35
Each	$38.00	38.00	38.00

.38 Caliber Chambered for .38 Short Colt, .38 Long Colt, or .38 Colt Special, Also .38 S. & W. Special (Full and Mid Range Loads)

Length barrel, inches	4	5	6
Weight, ounces	33	34	35
Each	$38.00	38.00	38.00

COLT REVOLVERS



OFFICERS' MODEL TARGET

Double action, jointless solid frame simultaneous ejection, hand polished action with smooth trigger pull. Front sight adjustable for elevation, rear sight with adjusting screw. Adjustable for windage. Checkered walnut stocks, positive lock, blued finish, 6 shots.

.38 Caliber, Chambered for .38 Long Colt, .38 Colt Special and .38 S. & W. (Full or Mid Range Loads)

Length barrel, inches	6	7½
Weight, ounces	34	36
Each	$52.00	52.00

POLICE POSITIVE MODEL

Double action, jointless solid frame, swing out cylinder, simultaneous ejection, positive lock, rubber stocks, 6 shots.

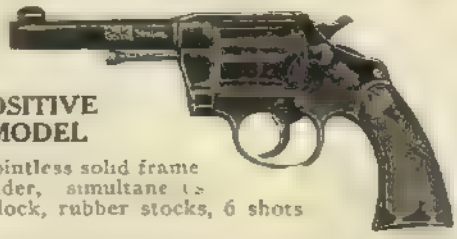
.32 Caliber

Chambered for .32 Colt Police Positive, full and gallery loads; also for .32 S. & W. short and long cartridges, when barrel is stamped ".32 Police Ctg."

Length barrel, inches	4	5	6
Weight, ounces	20	21	21½
Blued or nickeled ..... each,	$34.00	34.00	34.00

.38 Caliber, Chambered for .38 Colt Police Positive and .38 S. & W. Cartridges

Length barrel, inches	4	5	6
Weight, ounces	20	21	21½
Blued or nickeled ..... each	$34.00	34.00	34.00



POLICE POSITIVE SPECIAL MODEL

Double action, jointless solid frame swing out cylinder, simultaneous ejection, positive lock, rubber stocks, 6 shots

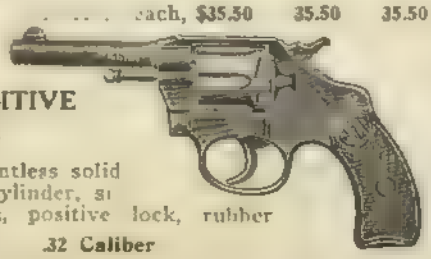
.32 Caliber, Chambered for .32-20 (.32 Winchester) Center Fire Cartridges

Length barrel, inches	4	5	6
Weight, ounces	22	23	24
Blued or nickeled ..... each,	$35.50	35.50	35.50

.38 Caliber

Using in the same arm .38 long Colt, .38 short Colt, .38 S. & W. special, full or mid range loads

Length barrel, inches	4	5	6
Weight, ounces	22	23	24
Blued or nickeled ..... each,	$35.50	35.50	35.50



POCKET POSITIVE MODEL

Double action, jointless solid frame, swing out cylinder, simultaneous ejection, positive lock, rubber stocks, 6 shots

.32 Caliber

Using .32 Colt Police Positive, full and gallery loads; also .32 S. & W. short and long cartridges, when barrel is stamped ".32 Police Ctg."

Length barrel, inches	2½	3½	6
Weight, ounces	16	16½	18
Blued or nickeled ..... each,	$31.50	31.50	31.50

COLT REVOLVERS

POLICE POSITIVE TARGET MODEL

Double Action, Jointless Solid Frame, Simultaneous Ejection

Blued finish only, checkered rubber stocks. Block rear sight adjustable for windage. Removable bead front sight mounted by screw, capacity of cylinder 6 shots, length of barrel 6 inches, only length over all 10½ inches, weight .22 caliber 32 ounces, .32 caliber 19 ounces

.22 Short, Long and Long Rifle. Using .22 short, long or long rifle rim fire cartridges when barrel is stamped "Cal. .22" ..... each, **$36.00**

.22 W. R. F. Using only the .22 W. R. F. Model 1890 rifle cartridge when barrel is stamped ".22 W.R.F." ..... each, **36.00**

.32 Caliber. Using .32 Colt Police Positive, full and gallery loads; also .32 S. & W. short and long cartridges when barrel is stamped ".32 Police Ctg." ..... each, **36.00**

SINGLE ACTION ARMY MODEL

Solid Frame, Case Hardened, Rod Ejection, Rubber Stocks Plain Sights, 6 Shots

.32 Caliber, Chambered for .32-20 (.32 Winchester) Cartridges

Length barrel, inches	4¾	5½	7½
Weight, ounces	42	43	45
Blued or nickeled ..... each,	$36.75	36.75	36.75

.38 Caliber, Chambered for .38-40 (.38 Winchester) Cartridges

Length barrel, inches	4¾	5½	7½
Weight, ounces	42	43	45
Blued or nickeled ..... each,	$36.75	36.75	36.75

.44 Caliber, Chambered for .44-40 (.44 Winchester) Cartridges

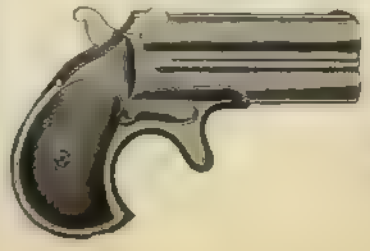
Length barrel, inches	4¾	5½	7½
Weight, ounces	42	43	45
Blued or nickeled ..... each	$36.75	36.75	36.75

.45 Caliber, Chambered for .45 Colt Cartridges
Full, medium or gallery loads

Length barrel, inches	4¾	5½	6½
Weight, ounces	42	43	45
Blued or nickeled ..... each,	$36.75	36.75	36.75

DOUBLE DERRINGERS

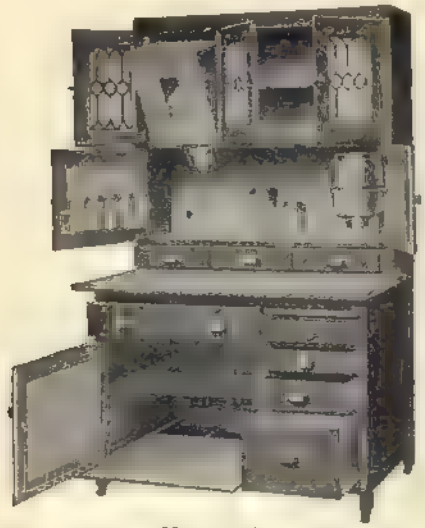
REMINGTON U. M. C.



Two shots, .41 caliber short rim fire, checkered rubber stocks, weight 11 ounces

Blued ..... each, **$14.58**

*I X L KITCHEN CABINETS



No. 71-16

Made of oak, golden oak waxed finish; interior of top compartments white enameled, glass jar equipment, metal cake and bread drawer; sliding top; height 70 inches; width 40 inches; depth 28 inches; nickeled trimmings.

No. 71-16. With polished metal sliding top. . .. $.
No. 71-16. With Alba iron, white porcelain sliding top. .

Weight crated, 230 pounds

No. 75-17

Made of oak, golden oak waxed finish; interior of top compartments white enameled; drop roll curtain, glass jar equipment, metal cake and bread drawer, sliding top; height 70 inches; width 40 inches; depth 28 inches; nickeled trimmings.

No. 75-17. With polished metal sliding top.....$.....
No. 75-17. With Alba iron, white porcelain sliding top. .

Weight crated, 230 pounds

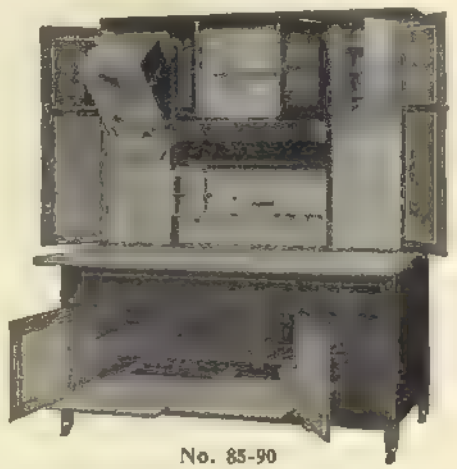
No. 28-25

Made of oak, golden oak waxed finish; interior of top compartments white enameled; drop roll curtain, glass jar equipment, metal cake and bread drawer, sliding top; height 70 inches; width 40 inches; depth 25 inches; nickeled trimmings.

No. 28-25. With polished metal sliding top..... .$ . .
No. 28-25. With Alba iron, white porcelain sliding top .

Weight crated, 200 pounds

Prices on application



No. 85-90

Made of oak, golden oak waxed finish; interior of top compartments white enameled; drop roll curtain, glass jar equipment, metal cake and bread drawer, sliding top; height 73 inches; width 56½ inches; depth 28 inches; nickeled trimmings.

No. 85-90. With polished metal sliding top..... .. $ . .
No. 85-90. With Alba iron, white porcelain sliding top. .. .

Weight crated, 300 pounds

Prices on application

*Not carried in stock; will ship from factory.

*GURNEY GROCERY REFRIGERATORS

COMBINATION COOLING ROOM AND REFRIGERATOR

No. 74

Made throughout of hardwood, golden oak finish, insulation is quilted linofelt of several thicknesses, with dead air spaces between each thickness. In the method of installing the insulation which retards the transmission of heat, the linofelt is applied around all corners of the inner case, while the ordinary way of insulating the top, bottom, back and ends is to place insulation between wood cleats and framing and only within several inches of the corners, where corner lumber is used to support the construction. All broken joints are eliminated through which warm air can pass. Linofelt insulating quilt closes all joints. Ice compartments are lined with heavy gauge galvanized steel, leaving no woodwork exposed to absorb moisture or odors. All parts are removable for cleaning. Trimmings are heavy solid bronze, with drop lever fasteners, nickel plated. Casters are self retaining.

Right hand compartment fitted with meat hooks. Upper half of large door is provided with auxiliary door to meat compartment. Lined entirely with heavy gauge galvanized steel.

No. 74. Ice capacity 700 pounds, weight crated 1040 pounds..... $

Over All Dimensions in Inches

Outside			Small Food Compartment			Meat Compartment			Ice Chamber		
Width	Depth	Height	Width	Depth	Height	Width	Depth	Height	Width	Depth	Height
67	34½	80	28	28	26½	29½	28	68½	24½	25½	36

Price on application

No. 69

GROCERY AND CAFE REFRIGERATORS

White enameled food compartments. Other parts galvanized sheet steel lined; well insulated and has two thicknesses of double strength A glass in upper doors; beveled edge plate mirror in ice chamber door, nickel plated bronze trimmings

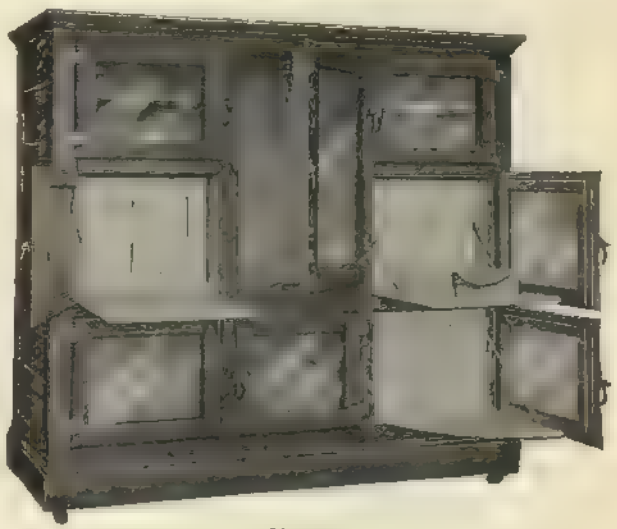
No. 69. Ice capacity 225 pounds..... .....$....

Over All Dimensions in Inches

		Width	Depth	Height
Outside		62	27	65
Provision chamber	Upper	17¼	21¾	29¾
	Lower	17¼	21¾	20¾
	Center	18½	21¾	15½
Ice chamber		16¼	21¾	27¼

Weight crated, 625 pounds

Price on application



No. 75

GROCERY AND RESTAURANT REFRIGERATORS

White enameled interior, galvanized sheet steel lined ice chamber; separate compartment for butter, cheese and lard; sliding trays and cheese turn-out prevent admission of cold air when withdrawn; double thickness of double strength A glass in food compartment doors; beveled edge plate mirror in ice compartment door; nickel plated bronze trimmings.

No. 75. Ice capacity 625 pounds.. . . ..$.. . .

Over All Dimensions in Inches

		Width	Depth	Height
Outside		84	32½	77
Provision chamber	Upper	25	26	19
	Middle	25	26	21
	Lower	25	26	21
	Center	23½	26	19
Ice chamber		20	26	36

Weight crated, 1100 pounds

Price on application

*Not carried in stock; will ship from factory.

ELECTRIC CEILING FANS

GENERAL ELECTRIC CO.

Ceiling fans are universally employed in locations where the moving of a very large volume of air at a moderate velocity is desired. They are suitable for large offices, stores, restaurants, theatres, etc.

All numbers include insulating hanger ceiling canopy, ceiling hook with lag screw end and one set of four wooden blades.

PLAIN TYPE, FOUR BLADE

52 Inch Alternating Current, Three Speed.

All exposed metal parts green enameled; mahogany finished blades.

Nos.	44986	44987
Volts	110	220
Cycles	60	60
High Speed	225	225
Shipping weight each, lbs	93	93
	$57 50	*59 00*
Each	147 30	✠153 30

52 Inch Direct Current, Three Speed.

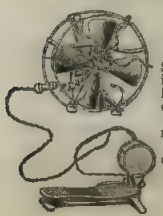
All exposed metal parts green enameled; mahogany finished blades.

Nos.	218178	34007	34008
Volts	32	110	220
High Speed	200	200	200
Shipping wt. each, lbs	97	97	97
	$57 50	*57 50*	*59 00*
Each	✠147 30	✠147 30	✠153 30

One in a wood box.

FAN ATTACHMENTS

For use with Sew-E-Z Sewing Machine Motors.



Permits any Jack Rabbit Type Sew-E-Z sewing machine motor to be instantly converted into an electric fan of equal efficiency to the most expensive fan motor of equal size. The speed can be regulated by means of the foot control.

Full nickel plated and polished; diameter of blades 6½ inches.

		Each
No. FA—Weight each about 1 lb	*$3 00*	6 00

One in a carton.

✠F. O. B. Ohio or Massachusetts Factories Only.

SEWING MACHINE MOTORS

JACK RABBIT TYPE—SEW E-Z

One of the cleverest devices ever invented for the home. Will operate any high-arm sewing machine (new or old) and immediately converts it into an electrically self-operated labor saver. No belt is necessary, requires neither screws, bolts, nor clamps to fasten, as the springs hold the pulley of the motor against the wheel and gives the firm friction drive. Simply set it on the machine next the hand wheel, so that the little cork pulley bears lightly against the latter.

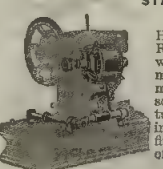
Place the self-starter in any convenient position on the floor, and attach the plug to any ordinary electric light socket.

The speed of the motor can be varied from 200 to 1800 revolutions per minute by pressing lightly on a treadle with the foot. A rheostat is operated by the treadle. It runs on direct or alternating current, and on frequencies from 25 to 60 cycles.

Nos.	JR-110-U	JR-220-U	JR-32-U
Voltage	110	220	32
List Price, Each	*$18 50*	*20 00*	*20 00*
In lots of 1 to 11, Each	39 00	✠43 50	43 50
In lots of 12 or more, Each	37 50	✠42 00	42 00

One in a wood box; weight each about 9¼ lbs.

STAR MOTOR



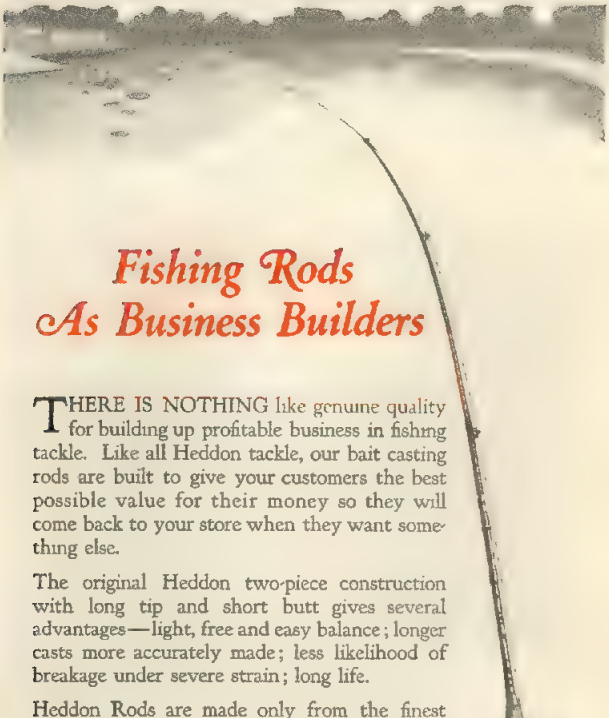
In construction and principle the Holdfast type is similar to the Jack Rabbit type, except that it is equipped with a bracket which fastens it permanently to the head of the sewing machine. The bracket is constructed so that it permits the motor to be turned in under the head of the sewing machine when it is closed. Will fit and operate any make or model of high head sewing machine.

Polished nickel plated finish. Equipped with speed control and operates on either direct or alternating current, 25 to 60 cycles. Complete with cord and attachment plug.

Nos.	H-110-U	H-220-U	H-32-U
Voltage	110	220	32
List Price, Each	*$18 50*	*20 00*	*20 00*
In lots of 1 to 11, Each	39 00	✠43 50	✠43 50
In lots of 12 or more, Each	37 50	✠42 00	✠42 00

One in a carton; weight each 9½ lbs.

✠F. O. B. Wisconsin Factory Only.



Fishing Rods As Business Builders

THERE IS NOTHING like genuine quality for building up profitable business in fishing tackle. Like all Heddon tackle, our bait casting rods are built to give your customers the best possible value for their money so they will come back to your store when they want something else.

The original Heddon two-piece construction with long tip and short butt gives several advantages—light, free and easy balance; longer casts more accurately made; less likelihood of breakage under severe strain; long life.

Heddon Rods are made only from the finest quality of split bamboo, built up by our own private process under rigid inspection. Thoroughly tested and seasoned before sent out. Trimmed and finished in keeping with their high quality.

Now, as always, Heddon-Dowagiac stands for the best possible quality at a fair price. You can sell Heddon Rods and Tackle with the full knowledge that they will make and hold satisfied customers for you. Catalog on request.

JAMES HEDDON'S SONS · *Dowagiac, Michigan*

Say you saw it in GOOD HARDWARE

Telegrams: "TRIAD, ON, LONDON." Telephone: Museum 2740 (2 lines).

By Appointment to His Majesty King George V

JAMES SLATER & Co. (Engineers), Ltd.,

Late of 251, HIGH HOLBORN, W.C.),

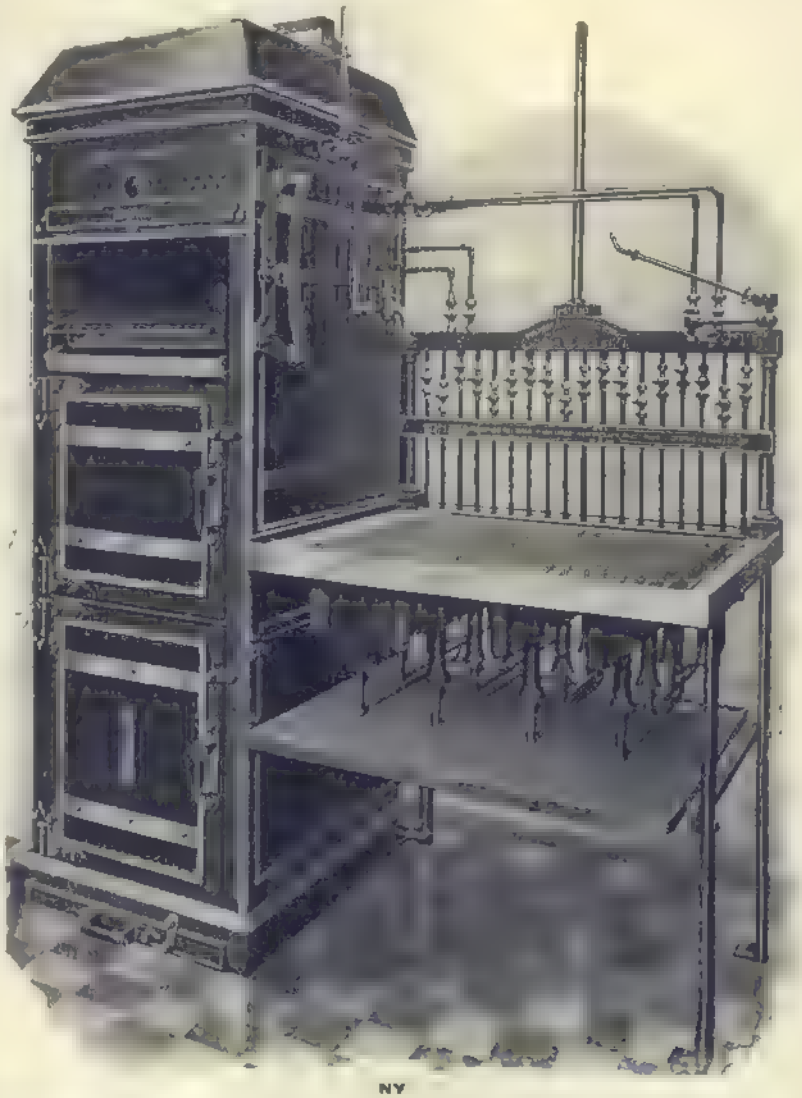
Engineer Specialists in Cooking,
50 and 51, WELLS STREET, LONDON, W.

Railway Dining Car Kitchener Gas Heated.

POELE-FOURNEAU, CHAUFFE AU GAZ, POUR WAGONS-RESTAURANTS DES CHEMINS DE FER

COCINA PARA VAGONES-RESTAURANTES (Calefacción a Gas)

This piece of Apparatus may well be described as a kitchen in itself, comprising as it does Roasting Oven, Hot Closet, Grill, Hot Water Boiler and Gas Hot Plate. The Oven is at the bottom and is constructed on the regenerative principle. Immediately above comes the Hot Closet, heated by waste gas from the oven. The doors of the oven and closet have special catches to prevent them swinging open on the train taking a curve at a high speed or on a sudden application of the brakes. Next above the Hot Closet we have the Grill. The burners of this Grill are divided into two unequal parts thus giving three rates of working :-(1) the smaller part alone; 2) the larger part alone; (3) both parts together. The Gridiron can be controlled by a handle placed on the outside and away from the heat. At the top we have the copper water boiler for supplying hot water for Hot Plate work. The Hot Plate can be fitted with either 9 or 12 burners. The cocks for controlling the burners for the entire apparatus are conveniently grouped together as shown. These kitcheners are in use by the following Railway Companies :—L. & N.W. Rly., G.N. Rly., L. & S.W. Rly., G.W. Rly., G E. Rly., and N.E. Rly., England; G.S. & W. Rly., Ireland; N.B. Rly., Scotland; and the G.I.P. Rly., N.W. Rly., and Bombay and Baroda Rly., India.



NY

SIZES.

Over-all Dimensions of Kitchener with 12 Burners to Hot Plate, 5 ft. 9½ in. long × 2 ft. 6 in. wide × 6 ft. 6½ in. high, Hot Plate 2 ft. 11½ in. high

Over-all Dimensions of Kitchener with 9 Burners to Hot Plate, 4 ft. 7 in. long × 2 ft. 6 in. wide × 6 ft. 6 in. high, Hot Plate 2 ft. 11½ in. high.

Inside Dimensions of Oven, 1 ft. 8½ in. long 1 ft. 10½ in. back to front × 2 ft. high. Inside Dimensions of Hot Closet, 1 ft. 8½ in. long × 1 ft. 10½ in. back to front × 1 ft. 7½ in. high. Inside Dimensions of Grill, 1 ft. 7 in. long 1 ft. 10½ in. back to front × 1 ft. high. Capacity of Boiler, 13 gallons. Weight 19 cwt.

Prices on application.

We also make a DINING CAR KITCHENER to be Heated by Coal Fire, where gas is not available.

TELEGRAMS: "LEVICK, BIRMINGHAM."

TELEPHONES: { CENTRAL 360.
" 340

JOHN LEVICK, LTD.,

METAL SPINNING WORKS,
ALMA STREET, ASTON,

BIRMINGHAM.

Patentee and Manufacturer of high-class

METAL SPINNINGS IN ALL METALS,

Metallic and Earthenware

SANITARY APPLIANCES, ETC.

Specialities in Reflectors, Parabolic and Projector, etc.

Specialities in silver-plating by patent Process, giving an equal thick deposit, with great density, for Lighthouse work.

Patent Specialities in Metallic and Porcelain Appliances, for Railway Carriages and Ships' Cabins.

Specialities in Metallic Folding Wash Basins.

Specialities in Cast Iron Porcelain Enamelled W.C.'s

Specialities in Patent Syphonic Flushing Cisterns, for Flushing the W.C.'s. of Railway Carriages, etc.

Specialities in Porcelain Wash Basins.

Specialities in Porcelain W.C.'s.

Specialities in Patent Automatic Syphon Flushing Cisterns, for Public Conveniences, Railway Stations, Hotels, etc.

Specialities in Ventilators and Air Regulators, for Railway Carriages, Ships, etc.

Specialities in Gas Lamp Tops, etc., for Railway Carriages.

Specialities in Highest Class Water Fittings, for Railway Carriages and Ships.

Specialities in Acetylene Welded Water Tanks, for Railway Carriages, in galvanised iron, copper or zinc.

DUCK DECOYS

PREMIER, WOOD

Made from carefully selected Cedar, perfect imitations of live species as to form and plumage is imitated so closely as to make it difficult to distinguish them from live birds a few feet off. The eyes used are finest Enameled Glass, colored in exact imitation of those of living birds

In hollowing them out they are cut in two above the water line, thus preventing any breakage. Being flat on bottom they ride water exactly like living bird

Hollow and Flat Bottomed

	Per Dozen
No. W3310A2—Mallard	$40.00
No. W3310A4—Blue Bill	40.00

One Dozen, 4 Females and 8 Males in Crate
Weight 42 Lbs. Dozen

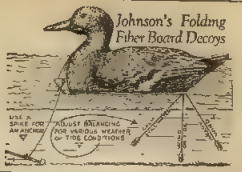
CHALLENGE, WOOD

Made from carefully selected Cedar, nicely painted, true to life. Perfect imitations of the live species as to form and the plumage. The eyes used are the finest Enameled Glass, colored in exact imitation of these of the living birds.

Solid	Per Dozen
No. W3310C —Mallard	$20.00
No. W3310C4—Canvas Back	20.00
No. W3310D —Red Head	20.00
No. W3310D4—Blue Bill	20.00

One Dozen, 4 Females and 8 Males in Crate
Weight 50 Lbs. Dozen

We Do Not Break Crates



Waterproof, Light, Compact, Serviceable; a Dozen can easily be carried in a Hunting Coat Pocket.

Bodies are printed on tough Jute Fibre board, thoroughly **Waterproofed** to prevent absorbing moisture. Bodies are spread out by use of a bottom or floating board made of ⅛ in. Cedar; Tipping over impossible.

	Per Dozen
No. 3310E —Mallard	$8.80
No. 3310E4—Blue Bill	8.80

One Dozen in Two Canvas Bags
Weight 6 Lbs. Dozen

CANVAS, COLLAPSIBLE

Made of best Canvas, with three coats of Waterproof Dressing and one coat of Paint; Expands automatically; Painted true to life; Full size; Complete with Anchor and Cord. These Decoys are self-righting when tossed into water and are not affected by stray shots.

	Per Dozen
No. W3310H—Mallard	$18.00

One Dozen in Paper Carton,
8 Males and 4 Females
Weight 10 Lbs. Dozen

We Do Not Break Boxes

ILLINOIS RIVER, FOLDING

In groups of three, connected with a Hinge, allowing them to be set out with a Bird on each end of Frame, securely held in place with a Spring; Complete with Anchor; When not in use can be folded flat; Made of Wood, painted true to life; Note how light.

	Per Dozen
No. W3310J —Mallard	$14.00
No. W3310J4—Blue Bill	14.00

One Dozen, ⅔ Male, ⅓ Female, in a Neat Box with Handle, Size 22x8x6½ in.
Weight 8 Lbs. Dozen

We Do Not Break Boxes

ROSE, FOLDING

Made entirely of Wood, with Lead Weighted Anchor; Hinged Top; One Dozen can be compactly folded into small space; Nicely painted Body; Glass Eyes.

	Per Dozen
No. P3310K—Mallard; Full Size; 8 Drakes and 4 Hens to each Dozen	$16.00
No. P3310K4—Blue Bill; Otherwise same as above	16.00

One Dozen in Box
Weight 17 Lbs. Dozen

We Do Not Break Boxes

FOLDING GEESE

Made of Sheet Iron, nicely painted to represent Wild Goose. Folds compactly when not in use; Improved Legs and Neck.

No.	Per Dozen
3310L—Without Wings	$19.00

One Dozen in Case
Weight 24 Lbs. Dozen

DECOY ANCHORS AND BODY WEIGHTS

	Per Dozen
No. 3310N—Iron Decoy Anchors; Weight 4½ Lbs. Dozen	$1.80
No. 3310P—Lead Oval Body Weights; Weight 4 Lbs. Dozen	3.45

Open Stock

DUCK CALLS

Will Imitate Various Calls of Mallard, Canvas Back, Red Head, Blue Bill, Pintail, Widgeon, Other Ducks and Crows

BROAD BILL

Made in two pieces, allowing Reed to be securely fastened to one side of a Metal Clamp; Reed is made of Mica, carefully treated and practically indestructible; Accurately produces short, choppy call of the Teal, to the long call of the Mallard Drake.

	Per Dozen
No. 3310R -Length 5¼ in	$12.00

One Dozen in Box; Weight 1¼ Lbs. Dozen

DITTOS

Hard Maple Wood; Nickeled Brass Tip; Fitted with hand made Rubber Reed and Rubber and Cork inner parts; is non-corrosive and not affected by climatic changes; Easily adjusted to suit the different voices of Ducks.

	Per Dozen
No. 3310T—Length 4½ in	$18.00

One Dozen in Box; Weight 1¾ Lbs. Dozen

GOOSE OR DUCK CALLS

Made of spun Brass, heavily Nickel Plated; Improved hard Rubber Reed; Various notes sounded by extending inner tube of Call; Exactly reproduces voices of Mallard, Canvas Back, Red Head, Blue Bill, Pin Tail, and other Ducks or Geese.

	Per Dozen
No. 3310V—Length 5½ in	$20.00

One Dozen in Box; Weight 1½ Lbs. Dozen

ALLENS

Made of Maple Wood, Varnished; Nickel Plated Metal Tip

	Per Dozen
No. 3310W—Length 6½ in	$14.50

Half Dozen in Box; Weight 2½ Lbs. Dozen

COCOBOLA

Made of Cocobola Wood, Nicely Finished; Heavily Nickel Plated Tip

	Per Dozen
No. 3310X—Length 4½ in	$6.50

One Dozen in Box; Weight ¼ Lb. Dozen

CROW CALL

Made of Hard Wood, Brass Lined, Nickel Plated Metal Tip; Reproduces exactly call of a Crow.

	Per Dozen
No. 3310Y—Length 4 in	$12.00

One Dozen in Box; Weigh ½ Lb. Dozen

JOYCE-CRIDLAND JACKS

JOYCE SELF-LOWERING; BALL BEARING

No. F406-1279

No. F406-1278F

No. F406-1288

No. F406-1030

FIFTY TON

Used principally in Railroad service in the Car, Locomotive and Bridge departments, where a powerful, safe, and easily operated Jack is needed; Lowers the Load automatically, simply by pressing Small Lever on Side; Has an All-Steel construction, Bronzed Bushed at every Bearing Point; Capacity of any Foot Lift is 50% of the Head Lift.

PLAIN

Nos.	F406-1276	F406-1278	F406-1279	F406-12712
Height, In.	20	24	26	36
Raise, In.	9	13	15	26
Wt. Each, Lbs.	225	240	250	300
Each	*$225.00*	*230.00*	*230.00*	*280 00*

WITH FOOT LIFT

Nos.	F406-1276F	F406-1278F	F406-1279F
Height, In.	20	24	26
Raise, In.	9	13	15
Weight Each, Lbs.	225	240	250
Each	*$230.00*	*235.00*	*236 00*

SEVENTY-FIVE TON

Used especially for Heavy Locomotive or Bridge work. Lowering Mechanism is enclosed in Dust-proof, Oil-filled compartment Lowering Mechanism Parts interchangeable with 50-ton sizes, Have Positive Stop, which prevent operator from going past Safety Limits, Bracket with Set of Wheels attached can be bolted to Base, making handling easy; State if Wheels are wanted.

PLAIN

Nos.	F406-1286	F406-1288	F406-1289
Height, In.	20	24	26
Raise, In.	7	11	13
Weight Each, Lbs	300	315	330
Each	*$360.00*	*360.00*	*360.00*

WITH FOOT LIFT

Nos.	F406-1286F	F406-1288F	F406-1289F
Height, In.	20	24	26
Raise, In.	7	11	13
Weight Each, Lbs.	300	315	330
Each	*$365.00*	*365.00*	*365.00*

JOYCE SUSPENSION JOURNAL JACK

Clamp Type, for inspecting Journal Boxes and Re-brasing Journals of all kinds; Does not touch ground, is applied on Axle Collar, holding Wheel firmly down against Track; Only a Short Rise required to lift Journal Box sufficiently to remove and replace Brass, Head Cap is adjustable, enabling use with any Standard M. C. B. Journal, Is extremely Light, very Strong, and about four times as Fast as ordinary Journal Jack, Eliminates Spotting of Car over Tie, or Blocking; Screw runs in Bronze Nut, Ratchet Lever operates so easily that only 24-inch Lever is required, thus enabling easy handling in close quarters.

No. F406-1030—Weight 60 Lbs. Each..... Each *$70 00*

Small Base

Small Base Type Jack; Made with Small Square Base for use where firm foundation can be secured and working space will not admit of a large Base.

Broad Base

Broad Base gives solid foundation where Jacks stands on ground or light boards and there is sufficient room for Jack underneath load; Used principally for railroad work in machine, car and locomotive shops.

Ground Lift

Ground Lift Type Jack; Used principally in railway wrecking cars, machine shops and for moving where there is not room to get Head of Jack underneath load; Ground Lift Claw and Sleeve are cast as one piece and rigidly secured to Head of Jack

JOYCE HYDRAULIC; INSIDE PUMP

Nos.	Capacity, Tons.	Rise, In.	Height, When Down, In	Weight, Lbs.	Each
406S	4	6	17	43	*$ 60 00*
409S	4	9	20	47	*65.00*
412S	4	12	23	51	*69 00*
706S	7	6	18	47	*81.00*
709S	7	9	21	51	*94.00*
712S	7	12	24	63	*98 00*
1006S	10	6	19	73	*163 00*
1009S	10	9	22	76	*165 00*
1012S	10	12	26	84	*166 00*
1018S	10	18	31	98	*174.00*
1509S	15	9	23	100	*176.00*
1512S	15	12	25	105	*176.00*
1518S	15	18	32	120	*182 00*
2009S	20	9	22	108	*170 00*
2012S	20	12	25	121	*196.00*
2018S	20	18	33	147	*148 00*
3009S	30	9	24	158	*178.00*
3012S	30	12	26	168	*187.00*
3018S	30	18	33	215	*200 00*
4009S	40	9	24	181	*215.00*
4012S	40	12	27	180	*238 00*
4018S	40	18	33	222	*300.00*
5009S	50	9	24	201	*242.00*
5012S	50	12	27	225	*267 00*
5018S	50	18	33	277	*320 00*
6009S	60	9	24	201	*252 00*
6012S	60	12	27	225	*277 00*
6018S	60	18	33	438	*336.00*

Nos.	Capacity, Tons.	Rise, In.	Height, When Down, In	Weight, Lbs.	Each
406G	4	6	17	43	-
409G	4	9	20	47	*$ 67.00*
412G	4	12	23	51	*93.00*
706G	7	6	18	47	-
709G	7	9	21	51	*96 00*
712G	7	12	24	63	*100 00*
1006G	10	6	19	73	*167.00*
1009G	10	9	22	76	*170 00*
1012G	10	12	26	84	*173.00*
1018G	10	18	31	98	*178.00*
1509G	15	9	23	100	*175.00*
1512G	15	12	25	105	*178 00*
1518G	15	18	32	120	*185 00*
2008G	20	9	22	108	*144 00*
2012G	20	12	25	121	*163 00*
2018G	20	18	33	147	*167.00*
3009G	30	9	24	158	*183.00*
3012G	30	12	26	168	*183.00*
3018G	30	18	33	215	*206.00*
4009G	40	9	24	181	*222 00*
4012G	40	12	27	180	*239.00*
4018G	40	18	33	222	*327 00*
5009G	50	9	24	201	*253 00*
5012G	50	12	27	225	*278 00*
5018G	50	18	33	277	*340 00*
6009G	60	9	24	201	*267.00*
6012G	60	12	27	225	*310.00*
6018G	60	18	33	438	*364 00*

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SCREW JACKS

DUFF; STANDARD SPEED; BALL BEARING

Refined Malleable Iron and Steel; Gears are Drop Forged from High Carbon Steel, and have Machine Cut Teeth; Raises load by means of Crucible Machinery Steel Screw with Special Thread, which revolves in a Bronze Nut; The load is carried on a large Ball Bearing which gives minimum friction with greatest strength; The Bearings consists of Two Hardened Ground Tool Steel Plates, each has a Groove in which the Balls roll. Each Ball is in a Separate Bronze Cage, eliminating all friction between them. All have Foot Lift for low set body

Nos. P407-66 and P407-60

Nos. P407-67 and P407-61

Nos. P407-68 and P407-62

No. P407 64

For bridge work, repair shops, yards, for handling structural material; for use on steam shovels, or for industrial concerns, trucking companies, machine shops, mills and factories, Operated by a single Ratchet and Bevel Gears.

Nos.	P407-66	P407-60	P407-67	P407-61
Capacity, Tons	15	15	25	25
Height, In.	22	26	22	27
Raise, In.	10	13	10	13
Base, In.	5x9	5x9	8x11	8x11
Weight Each, Lbs.	120	133	170	200
Each	*$60.00*	*70.00*	*80.00*	*98.00*

For heavy work of any character, including bridge, car, or repair work, or for handling structural material; Has Crank Handle for rapid handling of light loads, in addition to regular Lever Handle, Operated by a single Ratchet and Bevel Gears

Nos.	P407-68	P407-62	P407-64
Capacity, Tons	35	35	50
Height, In.	22	25	27
Raise, In.	10	13	13
Base, In.	9x10½	9x10½	14 Diam.
Weight Each, Lbs.	220	250	320
Each	*$130.00*	*138.00*	*150.00*

DUFF; HIGH SPEED; BALL BEARING; WITH CYCLONE FAST LOWERING DEVICE

Worm on top with Crank Handle, assures fast raising to load and quick easy lowering under load, Lowering requires only a fraction of effort for raising; Load can be adjusted to smallest part of an inch by Crank.

No friction disc; Load is held mechanically by Automatic Roller Pin Clutch, which remains positive regardless of wear; No possibility of Jack dropping; Crank Handle can be inserted at both ends of Worm so that it can be turned regardless of position of Jack or load.

Cold Drawn Steel Shell and Stem; Special Alloy Steel Heat Treated Screw, 1 in. Pitch, Double Thread, Diameter is less than in other high speed Jacks, making operation easier; Special Analysis Bronze Nut with tensile strength of 90,000 Lbs.; Case Hardened Alloy Steel Bearing Balls; Tested to 110,000 Lbs., Case Hardened Chrome Nickel Steel Ball Bearing Plates; Case Hardened Alloy Steel Automatic Clutch for retaining and lowering of load, Pinion Shank Bearing lined with Heavy Phosphor Bronze Bushing reducing friction and wear to minimum

Nos. P407-7526 to P407-7520

Nos. P407-5036 to P407-5024

Nos. P407-1592 and P407-1591

No. P407-1562

WITHOUT FOOT LIFT; ON WHEELS

Portable; for heavy service anywhere; Especially for handling railway equipment and for general lifting purposes, where speed is necessary.

Nos.	P407-7526	P407-7524	P407-7520
Cap., Tons	75	75	75
Height, In.	26	24	20
Raise, In.	12	10	6
Wt. Ea., Lbs.	440	425	410
Each	*$300.00*	*300.00*	*300.00*

WITHOUT FOOT LIFT

For general railway service on cars and locomotives; For wrecking crews, or for any service where safety, speed and high capacity are essential

Nos.	P407-5036	P407-5026	P407-5024	P407-1592	P407-1591
Cap., Tons	50	50	50	35	35
Height, In.	36	26	24	30	26
Raise, In.	24	14	12	17	13
Wt. Ea., Lbs.	375	320	310	262	237
Each	*$220.00*	*180.00*	*180.00*	*160.00*	*150.00*

WITH FOOT LIFT

For low set loads in railway shops, yards, bridge building, etc., Heavier than styles without Foot Lifts. Foot Lift takes one-half rated capacity of Head Lift.

Nos.	P407-1562
Capacity, Tons	35
Height, In.	26
Raise, In.	13
Wt. Each, Lbs.	291
Each	*$165.00*

JOURNAL OR CAR INSPECTORS

DUFF SCREW; BALL BEARING

Nos. P407-2509 and P407-2511

Especially for inspection, or removal of Journal Brasses in railroad cars; High Pitch Steel Screw revolves in Bronze Nut; Large Single Contact Ball Bearings; Perfectly aligned; High Carbon Crucible Steel Gears, Machine Cut; Inside packed with semi-fluid grease; No friction; No lost motion.

Nos.	P407-2509	P407-2511	P407-53	P407-52
Capacity, Tons	25	25	15	15
Height, In.	9⅝	11	9¾	11
Raise, In.	4⅜	5⅝	4	5
Weight Each, Lbs.	31	33	27	28
Each	*$38.00*	*38.00*	*22.00*	*22.00*

All Above, Open Stock

Nos P407-53 and P407-52

REPAIR PARTS FOR CARBIDE LAMPS

RUBBER GASKETS

No. 60—Square edge, per dozen $0.30

FELT PACKING

No. 62— Per dozen ..$0.30

FELT HOLDER

No. 64— Per dozen ..$0.70

BURNER TIPS

No. 28—Jewel, shell made of brass with imported lava burner insert, per dozen ..$0.70

No. 66—Lava tip with air holes .....per dozen $0.50

VALVE STEMS

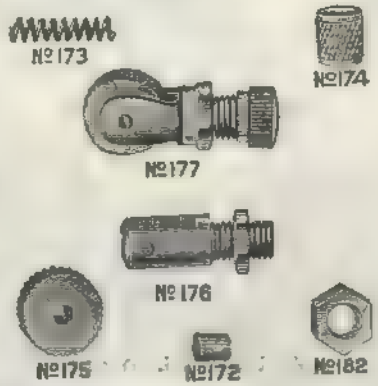
No. 78—For wire feed lamps, per dozen $4.00

No. 600—For **Victor** lamps, per dozen $4.00

No. 700—For Polygon feed lamps, per dozen $4.00

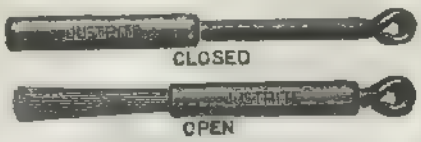
REPAIRS FOR CARBIDE LAMPS

LIGHTER PARTS



No. 172—Flints ....per dozen $0.60
No. 173—Springs ..per dozen .30
No. 174—Caps .....per dozen .70
No. 175—Wheels ..per dozen .70
No. 176—Fork and Nut, per dozen $0.80
No. 182—Hexagon Nut, per dozen $0.30
No. 177—Lighter complete, per dozen $1.50

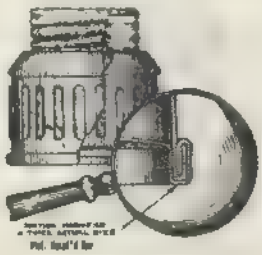
WIRE TIP CLEANERS



No. 37—50 hard, rust-proof steel wires, sliding cover protects wires when not in use ....per dozen $1.50

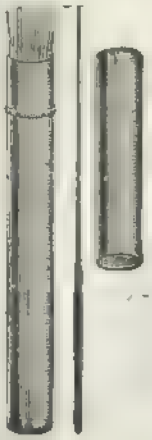
No. 22—Wire .....per dozen $0.80

EXTRA BOTTOMS



No. 965—Polished brass, for all cap lamps .....per dozen $4 00

REPAIRS FOR CARBIDE LAMPS



TIP REAMERS

No. 145—One dozen in a metal tube, per dozen ..$0.70

No. 150—Empty tubes, per dozen ..$0.80

POCKET CARBIDE CANS

Heavy tin, concave.

No. 76—7 oz., per dozen $2.50
No. 77—10 oz., per dozen $2.80

FLAME PROTECTORS

Wind and rain proof.

Fit over burner tip and protects flame against wind and rain.

No. 170—For lamps 85, 407, 417, 100 and 95 lamps .....per dozen $1.50

No. 171—For Nos. 50, 661 and 676 lamps .....per dozen $1.50

JUSTRITE MINERS' CARBIDE LAMPS

Brass finish, brass or nickel plated, burning capacity, 2½ hrs., w't 5 oz., charge 2 oz. carbide, height 3¾ in., diam. of bottom 2 in., 16.7 candle power.

WIRE FEED

Round Hook, 2½ in. reflector.

No. 407—Lamp only ..dozen $18.50

No. 85—Lamp with No. 77 carbide can .....per dozen $21.00

Flat Hook.

No. 417—Lamp only, per dozen $18.50

NEW DRIVERS' LAMP

Special silvered reflector and flame protector.

Polished brass, polygon feed, deep concaved silvered reflector, 2⅝ in. in diam. Equipped with No. 170 flame protector making lamp wind and drip proof. Excellent for wet mines.

No. 787—Round hook, dozen $22.00

No. 797—Flat hook ...dozen $20.00

ABOVE, ONE DOZEN IN A CARTON. W'T 6 LBS.

JUSTRITE SUPERINTENDENTS' LAMPS

Brass, heavily nickel plated, 18 C. P. with folding handle and lighter attachment, equipped with flame protector, carbide can included with lamp. Also for hunting, fishing, camping.

No. 100—2½ in. reflector, burns 3 hours, w't per doz. 9 lbs., per dozen $27.00

No. 95—3 in. reflector, **burns 4 hrs.,** w't per doz. 8 lbs. per dozen $36.00

ACME STEEL LAMP

FOR METAL MINES

All steel lamp with a dependable water feed and reflector strongly attached which cannot easily become bent, broken or lost. Burning capacity 5 hours, 18 C. P., w't 15¼ oz., charge 5 oz., height 5¼ in., height to top of bail 7⅛ in., diam. of reflector 3 in. Equipped with flame protector, making lamp wind and drip proof.

No. 50—Weight per doz. 13 lbs., per dozen $54.00

ONE IN A BOX

VICTOR CAP LAMPS

Miners preferring an "upright" or "vertical' style lamp will find the Victor equipped with a dependable water feed, a reflector rigidly attached to lamp not easily bent, broken or lost.

Brass, round hook, 2⅝ in. reflector.

No. 661—Lamp only, w't per doz. 6 lbs. .....per dozen $18.50

ONE DOZEN IN A CARTON

Brass, flat hook, 3 in. reflector.

No. 676—Lamp only, w't per doz. 6 lbs. .....per dozen $20.00

ONE DOZEN IN A CARTON

GUY'S DROPPER MINE LAMPS

No. 22SL.

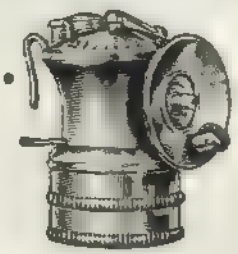
Brass lamp, bright finish. Polished brass reflector fastened to lamp with lock nut screw on burner tube, strongly reinforced on back to protect from accident. Intended for use in rooms or entries with high roofs.

No. 22SL—2½ in. reflector, **round** hook, hexagon bottom, per dozen $18.50

No. 422SL—2½ in. reflector, **flat** hook, hexagon bottom, per dozen $18.50

No. 423SL—3 in. reflector, **flat** hook, hexagon bottom ..per dozen $19.00

AUTO-LITE MINE LAMPS



Improved water dropper, which does not clog and requires no cleaning. Equipped with self-lighter. Light in weight but strong and durable.

Burning capacity 3½ hours. W't 6 lbs.

No. 11—Polished brass, per dozen $18.00

No. 12—Nickel plated brass, per dozen $19.00

ONE IN A BOX, ONE DOZEN IN A CARTON THREE DOZEN IN A SHIPPING CARTON.

J. SAMUEL WHITE & CO., Ltd.,

Ingénieurs et Constructeurs Navals, **Shipbuilders, Engineers,** Инженеры и Кораблестроители,

EAST COWES, ISLE OF WIGHT, England.

SCREW CARGO STEAMER.

Navire Marchand à Hélice. Винтовой Грузовой Пароходъ.

For carrying Coal and other cargo.
Pour le transport du charbon ou d'autres marchandises
Для перевозки угля и другого груза.

Mot du Code: Code Word: Условное слово Кода: **"ARGONNE."**

As built to the order of French owners and classed 100 A1 at Lloyd's.
Modèle construit pour des armateurs français et classé dans la catégorie 100 A1 du Lloyd's
Построенъ по заказу французскихъ судовладѣльцевъ и классифицированъ 100 А1 въ Регистрѣ Ллойда.

HULL.

DIMENSIONS.
Length, 293 ft. 0 in.
Breadth, 40 „ 0 „
Depth, 21 „ 6 „
Draught (loaded) 18 „ 0 „

SPEED, 9½ knots.
Deadweight, 3,000 tons.
Bunkers, 275 tons.

CONSTRUCTED of mild steel, divided into six compartments by watertight bulkheads, having a cellular double bottom extending the whole length of machinery and cargo spaces.

Raised Poop, Bridge and Forecastle.

Lighted throughout by Electricity.

BOATS. Two 20 ft. seamless steel Lifeboats and one 18 ft. Motor Boat

One Carpenter's Raft.

Wireless Telegraph Installation.

STEAM WINCHES. One of 5 tons and three of 3 tons.

Steam steering Gear and Windlass entirely fitted and furnished as is usual for service as a cargo steamer and made ready for sea.

MACHINERY.

ENGINES. Vertical Inverted Triple expansion of 1,200 I.H.P.

BOILERS. Two Cylindrical Single-ended Return Tube Boilers fitted with Howden's system of Forced Draught.

CONDENSER (Cylindrical). Shell of wrought steel supported on back columns.

PUMPS. Air Pump with two Feed and two Bilge Pumps worked by levers from Main Engine.

CIRCULATING PUMP. Independent and of centrifugal type.

Ballast and General Service Pumps of the Duplex Type.

Auxiliary Feed Pump of the single cylinder direct acting type.

COQUE

DIMENSIONS

Longueur 89,30 *mètres* — *Vitesse*, 9½ *nœuds*.
Largeur 12,18 „ — *Poids mort*, 3,000 *tonnes*.
Profondeur 6,55 „ — *Soutes*, 275 *tonnes*.
Tirant d'eau (à plein chargement), 5,48 *mètres*

Construits en acier galvanisé divisé en 6 compartiments par des cloisons étanches à double fond cellulaire s'étendant sur toute la longueur de la salle de machines et des cales.
Poupe sur élevée, pont et gaillard d'avant.
Entièrement éclairé à l'électricité

CANOTS. Deux canots de sauvetage sans soudure en acier, de 6,09 mètres, de longueur et un canot automobile de 5,48 mètres.
Un radeau de charpentier. Installation de télégraphie sans fil

TREUILS À VAPEUR. Un de 5 tonnes et trois de 3 tonnes

Mécanisme de gouvernail à commande par la vapeur, et guindeau entièrement équipé et monté comme d'habitude pour le service habituel de navires marchands, et prêt à prendre la mer

MACHINERIE.

MACHINES. Verticales, à triple expansion, de 1200 S.H.P.

CHAUDIÈRES. Deux chaudières cylindriques à fond unique avec tube de retour, munies du système de tirage forcé "Howden"

CONDENSEUR (Cylindrique). En fonte en acier forgé supporté sur colonnes postérieures

POMPES. Pompe à air avec deux alimentations et deux pompes de cale actionnées par leviers de la machine principale

POMPE DE CIRCULATION. Indépendante et du type centrifuge

Pompe pour lest et pour service général, du type "Duplex."
Pompe alimentaire auxiliaire du type monocylindrique à action directe.

КОРПУСЪ.

РАЗМѢРЫ.

Длина 293 фута — Скорость хода, 9 узловъ.
Ширина 40 футовъ — Грузоподъемная способность, 3,000 тонны.
Высота 21 футъ 6 дюймовъ.
Осадка (Нагружена), 18 футовъ. Угольныя ямы, 275 тоннъ

Построенъ изъ оцинкованной стали, раздѣленъ на шесть частей водонепроницаемыми переборками, съ двойнымъ клѣтчатымъ дномъ, простирающимся во всю длину машиннаго помѣщенія и грузовыхъ трюмовъ.

Приподнятая кормовая палуба, рубка и бакъ.
Освѣщеніе всецѣло электрическое

ШЛЮПКИ. Двѣ 20ти футовыхъ, безшовныхъ, спасательныхъ шлюпки и одна 18ти футовая моторная лодка
Одинъ плотничій плотъ.
Установка безпроволочнаго телеграфа.

ПАРОВЫЯ ЛЕБЕДКИ. Одна въ 5 тонны и три въ 3 тонны каждая
Паровой штурвалъ и якорная лебедка. Полное снаряженіе и уборка сообразно съ службою въ качествѣ грузоваго парохода и готовый къ отплытію въ море

МАШИНЫ

МАШИНА. Вертикальная, типа опрокинутаго типа съ тройнымъ расширеніемъ, въ 1,200 норм. лош. силъ.

КОТЛЫ. Два цилиндрическихъ одностороннихъ котла съ обратнымъ ходомъ пламени, снабженныхъ гоуденской системой для форсированія тяги.

ОПРѢСНИТЕЛЬ (Цилиндрическій). Корпусъ изъ ковкойстали помѣщенъ задними колоннами.

НАСОСЫ. Воздушный насосъ съ двумя питательными и двумя трюмными помпами, пускаемыхъ въ ходъ при посредствѣ рычаговъ отъ главной машины

ЦИРКУЛЯЦІОННЫЙ НАСОСЪ. Самостоятельный и центробѣжный

Насосы для отчерпыванія водянаго балласта и общихъ нужнъ двойного дѣйствія.

Вспомогательный питательный насосъ одноцилиндрическаго, прямого дѣйствія типа.

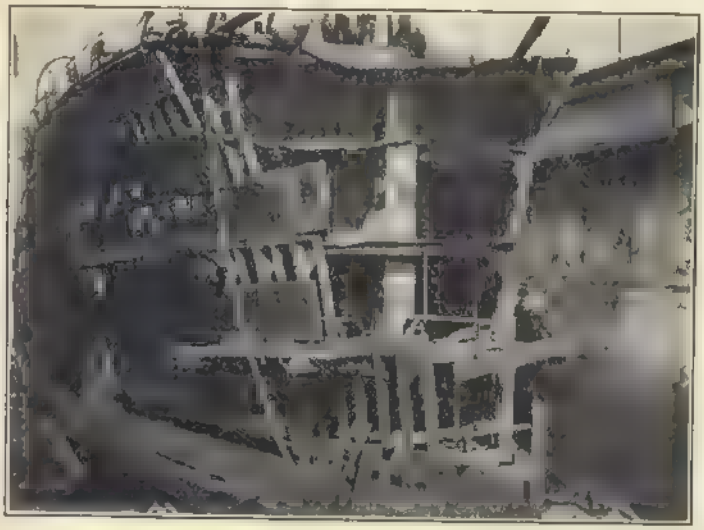
TELEGRAMS: "MIDYARD, CLASCOW." ON THE ADMIRALTY LIST. TELEPHONE GOVAN 688 4 LINES.

ALEXANDER STEPHEN & SONS, LTD.,

Shipbuilders — Engineers — Boilermakers.

GOVAN GRAVING DOCK REPAIR WORKS.

Vessels Docked and Painted and Repairs of all kinds Executed to Hulls, Machinery and Boilers with Up-to-Date Appliances including Oxy-Acetylene Cutting and Electric Welding Plants.



The damage to this vessel was caused through collision with an iceberg.

Over 150 tons of cement, the upper portion of stem bar, 10 frames on each side, 29 shell plates, and 30 plates on the several decks together with the hawse pipes required to be renewed.

This repair was almost entirely carried out afloat, the vessel only being dry docked for examination for any under water damage.

L'avarie de ce navire fut causée par une collision avec un iceberg.

Plus de 150 tonnes de ciment, armature supérieure de l'étrave, 10 membrures de chaque côté, 29 bordages, 30 tôles de ponts [illegible] remplacer. Les manches à eau [illegible] réparation fut effectuée presque entièrement à flot, le navire ayant été mis en cale sèche uniquement pour l'examen de la ligne de flottaison.

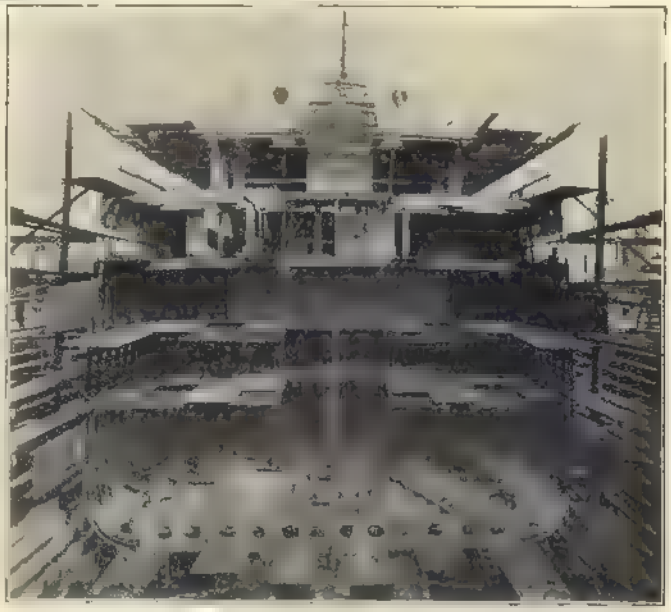
Skaden paa dette skib forarsagedes ved sammenstød med et isbjerg. Mere end 150 tons cement, den øverste del af stævnen, 10 rammer paa hver side, 29 skjødplader, og 30 plader fra forskjellige dæk tilligemed trosserørene maatte fornyes. Denne reparation blev udført næsten helt og holdt mens skibet laa paa vandet og det maatte kun i tørdok for at undersøge om det var skadet under vandlinjen.

This vessel was lengthened 50 feet. Launching ways were laid in dry dock and after cutting away the fore part of the vessel was launched forward 50 feet, and a new portion constructed between. A sister ship was also lengthened in a similar way.

Ce navire a été allongé d'une longueur de 15 mètres. Des rouleaux de lancement furent placés en cale sèche, l'avant du navire fut coupé et amené en avant, à une distance de 15 mètres, et l'on construisit une nouvelle partie de navire entre [illegible]

Dette skib forlængedes med 30 fod. Stabelvejene lagdes i tørdokken, skibets fordel blev skaaret løs og flyttet 30 fod nedover mod stjernen og en ny skibsdel bygges [illegible]

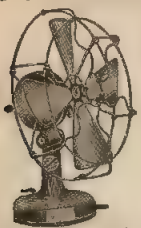
I søsterskibet blev [illegible] paa [illegible]



DESK AND BRACKET FANS

Prices on Application

"K & D" DESK AND BRACKET



UNIVERSAL MOTOR, gives a very strong breeze, adjustable to any position on desk or wall.

8 inch diameter, three speeds, phosphor bronze motor bearings, enameled base and standard nickel guard and blades, complete with 6-foot cord and plug, w't each 5 lbs.

No. E400E—For direct **current** 110 **volt or alternating** current 110 volts, 60 cycle .....each **$18.00**

ONE IN A CARTON

"POLAR CUB," DESK AND BRACKET

UNIVERSAL MOTOR, for direct current 110 volt or alternating current 110 volt, 60 cycle, one speed, no switch, die cast frame, spot welded guard, adjustable to any angle, motor black enameled, mica filled commutator rustproof, brass blades, base finished in rich velvet black, equipped with 8 ft. cord and plug.

Made only for 110 volt circuit.

No. 450E—Model "D", 6 in. diam., 8 in. to top of guard, 6 in. to top of motor, w't each 3 lbs., each **$9.40**

ONE IN A CARTON
ONE DOZEN IN A CASE

No. 460E—Model "9," 9 in. diam., 10½ in. to top of guard, 7½ in. to top of motor, w't each 5 lbs., each **$12 50**

ONE IN A CARTON SIX IN A CASE

Finish—The brass blades are highly polished and lacquered. Base and other parts baked on black enamel.

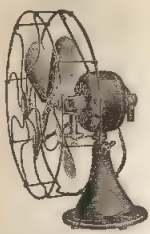
Construction—Cast enclosing shells and base, can be adjusted to any angle desired, either for a bracket or desk fan. The construction is simple and the field of service large. Large air velocity with minimum current consumption.

Speeds—Has four point switch for three speeds, namely, **slow, medium and fast, ranging from 900 to 1500 revolutions per minute.**

Equipment—8 ft. cord and attachmment plug included.

"PEERLESS," DESK AND BRACKET

OSCILLATING.



PEERLESS oscillating fans can be used either as a desk or bracket fan without the use of an adaptor.

They are designed to move from side to side through a desired angle, thus distributing the air over a larger area than with a stationary fan.

DIRECT CURRENT

110 Volt.

No. E1212E—12 in. diam., 3 speeds, 960, 1460 and 1860, w't boxed 40 lbs., each **$57.50**

No. E1216E—16 in. diam., 3 speeds 800, 1100 and 1400, w't boxed 60 lbs., each **$66.00**

ALTERNATING CURRENT

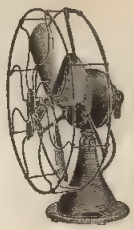
110 Volt, 60 Cycle.

No. E4112E—12 in. diam., 3 speeds, 900, 1400 and 1600, w't boxed 40 lbs., each **$57.50**

No. E4116E—16 in. diam., 3 speeds, 900, 1375 and 1550, w't boxed 50 lbs., each **$66.00**

"PEERLESS," DESK AND BRACKET

SWIVEL AND TRUNNION TYPE.



DIRECT CURRENT

10 Volt.

No. E112E—12 in. diam., 3 speeds 900, 1400 and 1800, w't boxed 27 lbs., each **$44.00**

No. E116E—16 in. diam., 3 speeds, 850, 1150 and 1500, w't boxed 35 lbs., each **$51.50**

ALTERNATING CURRENT

110 Volts, 60 Cycle.

No. E1112E—12 in. diam., 3 speeds, 900, 1200 and 1600, w't boxed 30 lbs., each **$44.00**

No. E1116E—16 in. diam., 3 speeds, 900, 1400 and 1550, w't boxed 38 lbs., each **$51.50**

Prices furnished on application for 25 cycle fans.

Factory Shipments, 220 Volt Fans can be shipped from Warren, Ohio, factory. Prices on application. Voltage desired must be specified in ordering, and if for alternating current, the number of cycles.

"BLUE BIRD" DINNERWARE

"H. T. & K." trademarked. Light wt. white semi-porcelain, fancy shape, delicately tinted blue bird, apple blossom and foliage sprays, gold edges, striped handles and knobs. **Open stock,** sold in any quantity. **No Package Charge.**

DINNER SETS

E15394—31 piece set.
6 cups & saucers (12 pieces)
12 plates, 6 each 8 & 10 in.
1 plate, 6 in.
6 fruits, 4 in.
Shipping wt. about 85 lbs.
SET (31 pcs.) **$4.10**

E15396—50 piece set.
6 tea cups
6 saucers
6 cereals, 6 in.
6 plates, 8 in.
6 plates, 9 in.
6 plates, 7 in.
1 baker, 7 in.
1 salad, 7 in.
1 platter, 10 in.
1 creamer
1 covered sugar (2 pcs.)
Shipping wt. about 40 lbs.
SET (50 pcs.) **$7.15**

E15397—100 piece set.
12 tea cups
12 saucers
12 plates, 6 in.
12 plates, 8 in.
12 plates, 9 in.
1 bowl, 7 in.
1 baker, 9 in.
1 platter, 14 in.
1 platter, 17 in.
1 salad, 9 in.
1 vegetable (2 pcs.)
1 butter dish (3 pcs.)
1 sugar and cover (3 pcs.)
1 cream pitcher (2 pcs.)
1 bacon boat (3 pcs.)
Shipping wt. about 80 lbs.
SET (100 pcs.) **$14.95**

OPEN STOCK

CUPS AND SAUCERS—
E16300—Tea 3½x3¼ in., saucer 5½. Doz. **$2.25**
E16302—Oxide 3½x3¼ in., saucer 5½. Doz. **$2.25**

PLATES—
E16310—4 in. wt. 2 oz. Doz. **$1.10**
E16311—6 " " 4 " " **1.65**
E16312—8 " " 7 " " **2.20**
E16313—9 " " 9 " " **3.00**
E16315—7 cups soup & in set 7½. Doz. **$1.90**
E16310—Deep soup, 7 in. sets 7½. Doz. **$2.20**

BAKER—
E16326—7 in., sets 9, 6x7. Doz. **$3.30**

BOWL—
E15311 .30 z. Doz. **$2.75**

PLATTERS—
E16343—8 in. set 11 x8½. **$2.75**
E16346—10 " " 13 x10½. **3.95**
E16347—12 " " 16 x12½. **5.40**

SALAD—
E15332—7 in., set 8¾ Doz. **$3.30**

FRUIT—
E16302—6 in., sets 5¾ Doz. **$0.85**

CREAMER—
E15326—3 oz. Doz. **$1.75**

CREAMER—
E15326—6 oz. Doz. **3.30**

COVERED SUGAR—
E15327—3 oz. Doz. **$6.60**

COVERED BUTTER—With drainer
E15328—6 oz. Doz. **$9.90**

INDIVIDUAL BUTTER—
E15329—2½ in. Doz. **65c**

COVERED DISH—Oval
E15330—10 in. Doz. **$11.55**

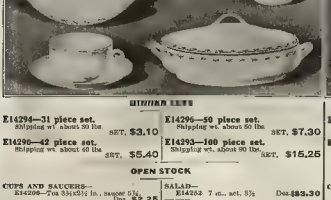
CANDLESTICK—1 arm
E15331— Doz. **$13.20**

SALT BOAT—Without stand
E15295—2x5¾ in. Doz. **$4.40**

PICKLE DISH—
E15386—3½x6¾ in. Doz. **$2.10**

"JEFFERSON" WHITE & GOLD SEMI-PORCELAIN

"K. T. & K." trademarked. Light wt., white semi-porcelain plain shape, gold line border, striped handle and knobs. Open stock, sold in any quantity. No Package Charge.



DINNER SETS

E14294—31 piece set.
Shipping wt. about 30 lbs.
SET, **$3.10**

E14296—50 piece set.
Shipping wt. about 50 lbs.
SET, **$7.30**

E14293—100 piece set.
Shipping wt. about 90 lbs.
SET, **$15.25**

OPEN STOCK

CUPS AND SAUCERS—
E14296—Tea 3½x3¼ in., saucer 5½. Doz. **$2.25**
E16292—Oxide 3½x3¼ in., saucer 5½. Doz. **$2.25**

PLATES—
E14216—4 in., sets 4½ Doz. **$1.10**
E14211—6 " " 6¼ " **1.25**
E14213—8 " " 8¼ " **1.60**
E14215—9 " " 9¼ " **1.95**
E14214—8 " " 9¾ " **2.35**
E14217—Coupe soup, 7 in., set 8¼ Doz. **$1.98**

BAKER—
E14224—9 in., sets 9½ Doz. **$3.30**

BOWL—
E14231—30's Doz. **$3.00**

PLATTERS—
E14243—8 in., set 11½ Doz. **$3.00**
E14247—12 " " 15¾ " **5.40**

SALAD—
E14252—7 in., set 8¾ Doz. **$3.30**

FRUIT—
E14260—4 in., set 5¼ Doz. **$0.82**

CREAMER—
E14276—3 oz. Doz. **$3.30**

COVERED SUGAR—
E14277—3 oz. Doz. **$6.60**

COVERED BUTTER—With drainer
E14278—6 oz. Doz. **$9.90**

INDIVIDUAL BUTTER
E14279—2½ in. Doz. **$0.55**

COVERED DISH—Oval
E14286—7 in. Doz. **$12.00**

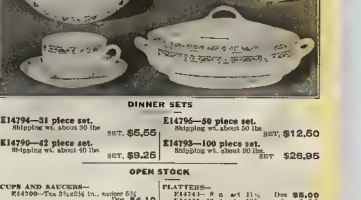
CANDLESTICK—1 arm
E14285—7 in. Doz. **$13.80**

SAUCE BOAT—Without stand
E14295—7x3½ in. Doz. **$4.40**

PICKLE DISH—
E14286—6½x3 in. Doz. **$3.00**

"METROPOLITAN" BLUE, TAN & GOLD SEMI-PORCELAIN

"K. T. & K." trademarked. Light wt., white semi-porcelain, floral spray on light blue, tan, coral, green & purple tinted border, gold edges and lines, handles, gold lines on hollow pieces and cups. Open stock, sold in any quantity. No Package Charge.



DINNER SETS

E14794—31 piece set.
Shipping wt. about 30 lbs.
SET, **$5.55**

E14796—50 piece set.
Shipping wt. about 50 lbs.
SET, **$12.50**

E14793—100 piece set.
Shipping wt. about 90 lbs.
SET **$26.95**

OPEN STOCK

CUPS AND SAUCERS—
E14709—Tea 3½x3¼ in., saucer 5½. Doz. **$4.10**
E14708—Coffee 3½x3¼ in., saucer 5½. Doz. **$4.75**

PLATES
E14719—4 in. set 6 oz. Doz. **$1.85**
E14711—6 " " 9 " " **2.10**
E14712—8 " " 14 " " **2.65**
E14713—9 " " 19 " " **3.25**
E14714—8 ½ " " 20½ " Temp. Only
E14715—Coupe soup, 7 in., set 8¼ Doz. **$3.25**

BAKER—
E14724—7 in., set 9½ Doz. **$5.60**

BOWL—
E14731 .30 z. Doz. **$5.00**

FRUIT
E14760—4 in., set 5¼ Doz. **$1.70**

PLATTERS—
E14743—8 " set 11½ Doz. **$5.00**
E14745—10 " " 13½ " **9.00**
E14747—12 " " 15¾ " **15.00**
E14748—14 in., set 17¾ " Temp. Only

CREAMER—
E14776—3 oz. Doz. **$5.60**

COVERED SUGAR—
E14777—3 oz. Doz. **$11.20**

COVERED BUTTER—With drainer
E14778— Doz. **$16.80**

COVERED DISH—Oval
E14780—7 in. Doz. **$19.50**

CASSEROLE—Round
E14787—7 in. Doz. **$22.50**

SAUCE BOAT—Without stand
E14795—7x3½ in. Doz. **$7.40**

PICKLE DISH—
E14798—6½x3 in. Doz. **$5.60**

"RENSHAW" "K. T. & K." trademarked.

Light wt. white semi-porcelain, sem. translucent, plain shape, pink rose sprays, olive and brown scrolls, gold scalloped edges, traced embossing, gold line inside cups and base of upright pieces. Open stock, sold in any quantity. No Package Charge.

DINNER SETS

E14994—31 piece set.
Shipping weight about 35 lbs. SET. $4.95

E14990—42 piece set.
Shipping weight about 40 lbs. SET. $8.50

E14995—50 piece set.
Shipping weight about 50 lbs. SET. $11.10

E14993—100 piece set.
Shipping weight about 90 lbs. SET. $24.75

OPEN STOCK

CUP AND SAUCER—
E14900—Tea 3¼x2½ in. saucer 5½ Doz. $2.75

PLATES—
E14910—6 in., act. 6½ Doz. $1.70
E14911—7 " " 8 " 1.95
E14912—8 " " 9½ " 2.40
E14913—9 " " 10½ " 3.00
E14914—10 " " 12 " 3.80
E14915—Coupe soup, 8 in. 8½ " 3.00

BAKER—
E14924—7 in., act. 8¼ Doz. $6.25

BOWL—
E14901 10 oz. Doz. $4.25

PLATTERS—
E14918—8 in. act. 11" Doz. $4.25
E14945 16 " " 13 " 7.85
E14943 17 " " 15¾ " 14.00

SALAD—
E14902 7 in. act. 8¾ Doz. $5.25

FRUIT—
E14903—4 in., act. 5½ " Doz. $1.35

CREAMER—
E14904—10½ oz. Doz. $5.25

COVERED SUGAR—
E14907—10 oz. Doz. $10.50

COVERED BUTTER—With drainer
E14978— Doz. $15.75

INDIVIDUAL BUTTER
E14979—3¼ in Doz. $6.85

COVERED DISH—Oval
E14960—7 in. Doz. $18.00

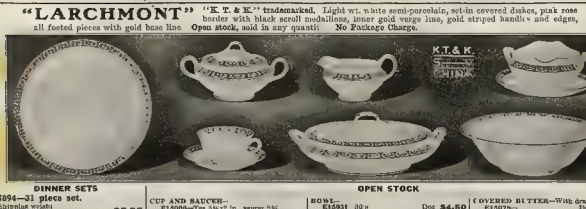
CASSEROLE—Round.
E14965—7 in. Doz. $21.00

SAUCE BOAT Attached stand.
E14984 7x4 ¼ in Doz. $18.00

PICKLE DISH
E14968—6½x5 in. Doz. $5.25

"LARCHMONT" "K. T. & K." trademarked.

Light wt. white semi-porcelain, set-in covered dishes, pink rose border with black scroll medallions, inner gold verge line, gold striped handles and edges, all footed pieces with gold base line. Open stock, sold in any quantity. No Package Charge.



DINNER SETS

E15094—31 piece set.
Shipping weight about 35 lbs. SET. $5.65

E15090—42 piece set.
Shipping weight about 40 lbs. SET. $9.25

E15096—50 piece set.
Shipping weight about 50 lbs. SET. $12.50

E15093—100 piece set.
Shipping weight about 90 lbs. SET. $26.95

OPEN STOCK

CUP AND SAUCER—
E15000—Tea 3¼x2 in saucer 5½ Doz. $4.50

PLATES—
E15010—4 in., act. 6¼ Doz. $1.85
E15011—5 " " 7½ " 2.10
E15012—6 " " 8½ " 2.65
E15013—7 " " 9½ " 3.25
E15014—8 " " 10½ " 3.75
E15017—Coupe soup, 7 in. act. 8½ " 3.25

BAKER—
E15004 7 in. act. 9¼ Doz. $5.50

BOWL—
E15031 10 oz. Doz. $4.50

PLATTERS—
E15043—8 in. act. 11¼ Doz. $5.00
E15045—10 " " 13½ " 9.00
E15047—12 " " 16½ " 15.00

SALAD—
E15052—7 in. act. 8¼ Doz. $5.50

FRUIT—
E15053—4 in. act. 5¼ Doz. $1.40

CREAMER—
E15054—10 oz. Doz. $5.50

COVERED SUGAR—
E15077—10 oz. Doz. $11.00

COVERED BUTTER—With drainer
E15078— Doz. $16.50

INDIVIDUAL BUTTER—
E15079—3 in. Doz. $6.90

COVERED DISH—Oval.
E15060—7 in. Doz. $18.50

CASSEROLE—Round
E15065—7 in. Doz. $22.50

SAUCE BOAT—Attached stand.
E15084—7x4½ in. Doz. $18.00

PICKLE DISH
E15068—8½x5 in. Doz. $5.50

"POWHATAN" "K. T. & K." trademarked.

Light wt. white semi-porcelain, wide oriental border, black & ivory panels, rosebuds and green & blue inlaid motifs between tan edges, all pieces with gold edges, traced handles and knobs, cups and covered dishes with gold base line. Open stock, sold in any quantity. No Package Charge.

DINNER SETS

E15194—31 piece set.
Shipping weight about 35 lbs. SET. $5.65

E15190—42 piece set.
Shipping weight about 40 lbs. SET. $9.25

E15196—50 piece set.
Shipping weight about 50 lbs. SET. $12.50

E15193—100 piece set.
Shipping weight about 90 lbs. SET. $26.95

OPEN STOCK

CUP AND SAUCER—
E15100—Tea 3¼x2 in saucer 5½ Doz. $4.50

PLATES—
E15110—4 in., act. 6¼ Doz. $1.85
E15111—6 " " 7¾ " 2.10
E15112—6 " " 8¼ " 2.65
E15113—7 " " 9¼ " 3.25
E15114—8 " " 10¼ " 3.70
E15117—Coupe soup, 7 in., act. 8½ " 3.25

BAKER—
E15124 7 in., act. 9¼ Doz. $5.50

BOWL—
E15131 10 oz. Doz. $4.50

PLATTERS—
E15143—8 in., act. 11¼ Doz. $5.00
E15145—10 " " 13½ " 9.00
E15147—12 " " 16½ " 15.00

SALAD—
E15152—7 in. act. 8¼ Doz. $5.50

FRUIT—
E15153—4 in. act. 5¼ Doz. $1.40

CREAMER—
E15154—10 oz. Doz. $5.50

COVERED SUGAR—
E15177 10 oz. Doz. $11.00

COVERED BUTTER—With drainer
E15178— Doz. $16.50

INDIVIDUAL BUTTER
E15179—3½ in. Doz. $6.90

COVERED DISH—Oval.
E15160—7 in. Doz. $18.50

CASSEROLE—Round
E15165—7 in. Doz. $22.50

SAUCE BOAT Attached stand.
E15184—7x4½ in. Doz. $18.00

PICKLE DISH—
E15168—8½x5 in. Doz. $5.50

Composition of Our Dinner Sets

31 Piece Set
6 tea cups, 6 plates, 8 in.
6 saucers, 6 fruits.
1 platter, 4 in. 1 platter 8 in.

NO PACKAGE CHARGE ON OUR DINNERWARE

42 Piece Set
6 tea cups 1 bowl, 10 oz.
6 saucers. 1 platter, 8 in.
6 plates, 6 in. 6 fruits, 6 in.
6 plates 8 in 1 covered sugar (2 pcs.)
6 plates, 7 in 1 creamer.
1 baker, 7 in.

50 Piece Set
6 tea cups 1 nappy, 7 in
6 saucers. 1 bowl 10 oz.
6 plates, 6 in. 1 dish, 10 in.
6 plates, 8 in. 1 creamer.
6 plates, 7 in. 1 covd sugar (2 pcs.)
6 coupe soups. 1 covd. dish (2 pcs.)
6 fruits, 6 in.

100 Piece Set
12 tea cups. 12 fruits.
12 saucers 1 covd. sugar (2 pcs.)
12 plates, 6 in. 1 creamer
12 plates, 8 in. 2 butter dish (2 pcs.).
12 plates, 7 in. 1 casserole (2 pcs.).
12 plates, 9 in. 1 dish, 7 in.
1 baker, 7 in. 2 pcs
1 platter, 8 in. 1 sauce boat (2 pcs.).
1 platter, 12 in. 1 pickle dish

Dolls

Nobbikid Doll
Popular for Children's Parties

Per doz.

N25662—Dressed in assorted styles of neat children's dresses, fancy materials such as: floral, striped and checked designs with bonnets to match. Jointed at hips and shoulders, imitation socks and slippers. Cute bisque turning head with moving slant eyes on order of Kewpie with smiling expression. Curly mohair wig. Measures 6¼ inches, packed in neat lace trimmed box 12.00

Novelty Dolls

Per doz.

N25668—Klondikers costume of imitation fur scout suits with hoods to match. Imitation leather belt with fancy buckle, revolver at side and pick in apron. Painted shoes and stockings. Bisque head with stationary glass eyes, open mouth showing teeth and bang mohair wig. Measures 6½ in., packed 6 in box..... 4.00

We Are Showing a Complete and Wonderful Line of Dolls
Order Now!

TOOTSIE DOLLS

We do not break packages

N25692

N25693

Per doz.

N25693—Dressed in assorted styles of neat children's dresses, fancy materials, such as, floral, striped and checked designs with bonnets to match. Jointed at hips and shoulders, removable socks and slippers. Cute bisque turning head with moving slant eyes on order of Kewpie with smiling expression. Bobbed hair wig. Measures 6½ inches, packed each in box..... 16.00

N25694—Dressed in assorted styles of neat children's dresses, fancy materials, such as, floral, striped and checked designs with bonnets to match. Jointed at hips and shoulders, removable socks and slippers. Cute bisque turning head with moving slant eyes on order of Kewpie with smiling expression. Bobbed hair wig. Measures 16 inches, packed each in box..... 24.00

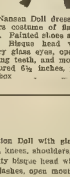
Each

N25695—Dressed in assorted styles of neat children's dresses trimmed with lace and straw hats. Jointed at hips and shoulders, removable socks and slippers. Cute bisque turning head with moving slant eyes with eyelashes, and bobbed hair. Measures 10½ inches, packed in box 4.00

N25666—Lawn trimmed dresses of assorted styles with underwear scalloped on edge. Removable shoes and stockings. Straw hats to match dresses. Bisque turning head with moving eyes and real hair eyelashes and bobbed hair. Measures 13 inches, packed in a box 5.50

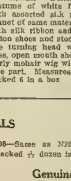
N25667—Lawn trimmed dresses of assorted styles with underwear scalloped on edge. Removable shoes and stockings. Straw hats to match dresses. Bisque turning head with moving eyes and real hair eyelashes and bobbed hair. Measures 16 inches, packed each in a box 7.00

NOVELTY DOLLS



Per doz.

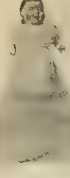
N25669—Nansen Doll dressed in naperies costume of flannel material. Painted shoes and stockings. Bisque head with stationary glass eyes, open mouth showing teeth, and mohair wig. Measured 6½ inches, packed 6 in a box 4.00



Per doz.

N25670—Eskimo Dolls. Eskimo costume of white fur trimmed with assorted silk ribbons and bonnet of same material trimmed with silk ribbon and bow. Imitation shoes and stockings. Bisque turning head with moving eyes, open mouth showing teeth. Curly mohair wig with imitation side part. Measures 6½ inches, packed 6 in a box 4.30

NOVELTY DOLLS



Per doz.

N25671—Mama Crying Doll with mechanical contrivance Dressed in long white baby dresses with lace collar and bertha. Composition head with painted hair and features and bisque hands Dresses trimmed with lace and ribbon rosette Measures 12 inches, including dress. Packed ½ dozen in a box..... 9.00

Per doz.

N25672—Whistling Boy Doll with turning bisque head with whistling expression and painted eyes. Dressed in romper suit with belt and button for decoration. Removable shoes and stockings, composition arms, jointed at shoulders and legs, and hips Measures 12¼ inches, packed ½ dozen in box..... 17.00

JOINTED DOLLS

N25684

Each

N25684—Good quality composition Doll with plaster natural finish, jointed at hips, knees, shoulders, elbows and wrists. Has fine quality bisque head with movable eyes and real hair eyelashes, open mouth showing teeth. Fine quality turning head. Curly mohair wig with side part and silk ribbon bow for hair decoration. Good quality cotton chemise with lace collar and cuffs. Has silk ribbon inserted through beading across front of chemise. Removable shoes and stockings. Measures 18½ inches, packed ⅓ doz. in a box 4.00

N25685—Same as N25684, but measures 20¼ inches, packed ⅓ dozen in a box..... 4.50

N25686—Same as N25684, but measures 23 inches, packed ⅓ dozen in a box..... 6.00

N25687—Same as N25684, but measures 24½ inches, packed ⅓ dozen in a box..... 7.50

Each

N25688—Same as N25684, but measures 26¾ inches, packed ⅓ dozen in a box. 12.00

Genuine Kestner Crown Dolls

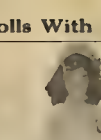
N25689—Finest quality composition Doll with natural mat finish, jointed at hips, knees, shoulders, elbows, and wrists. Has best quality bisque head with movable eyes and real hair eyelashes, open mouth showing teeth Head has unusual pretty girl features. Finest quality fully curled mohair wig with side part and silk ribbon bow on hair. Good quality chemise with embroidered and lace trimming, and shoulder straps, silk ribbon around neck tied with a large bow for decoration Dainty removable shoes and stockings. Measures 19¼ inches, packed ⅓ doz. in a box 10.00

N25610—Same as N25689, but measures 21 inches, packed ⅓ doz. in a box..... 12.00

N25689

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

N25693

N25654

N25691

N25639—**DRESSED DOLL**—Neatly costumed in six different distinct blue dresses with hats to match. All very good styles and fashionably dressed. Cotton underwear, removable shoes and stockings. Bisque head, moving eyes, open mouth showing teeth. Curly wig with imitation side part. Measures 11", packed 6 dozen in a box ..... 2 | 60

N25640—**DRESSED DOLL**—Good quality cotton organdy dresses with floral designed braid. Tulle trimmed with fancy lace and edged with silk ribbon, two ribbon rosettes for decoration. Cotton underwear trimmed with lace, with removable socks and slippers. Buttonhook trimmed with lace and ribbon rosette on each. Bisque turning head with moving eyes, open mouth showing teeth, mohair wig. Curly mohair wig with side part. Measures 13", packed 3 dozen in box 3 25

Per doz.

N25641—**DRESSED DOLL**—Costumed open dress with sailor and blue underdresses. Apron of crossbarred material with braid insertion. Collar and shoulders trimmed with lace. Cotton underwear edged with lace, removable socks and slippers. Neat straw hat, trimmed with dress material. Bisque turning head with moving eyes and open mouth, showing teeth. Curly mohair wig with side part. Measures 13", packed 3 dozen in box 3 60

Each

N25642—**3-in-1 DRESSED DOLL**—Of assorted solid colors with trim of white material edged with lace and collar ruffs and hats trimmed with lace also silk bow or bisque for decoration. Cotton underwear with removable socks and slippers. Bisque turning head with moving eyes and open mouth showing teeth. Curly mohair wig with imitation side part. Measures 12", 24 dozen in box 3 00

N25644

N25644—**DRESSED DOLL**—Of organdy with floral designed dots. Collar, cuffs and sash set with ribbon rosettes for decoration. Cotton underwear with lace, removable socks and slippers. Neat hat of white crepe, with plaited brim trimmed with flowers and ribbon rosette. Bisque turning head with moving eyes, real lash eyelashes, open mouth showing teeth. Curly mohair wig with natural side part. Measures 14½", packed 3 dozen in box 3 50

N25645—**DRESSED DOLL**—White lawn dresses with insertion across front of skirt and sleeves. Cotton underwear with lace inserted with ribbon. Belt of same material with two ribbon rosettes for decoration. Insertion tucks with hemstitching. Cotton underwear with lace trimmed with ribbon. Socks and slippers. Hat of bonnet effect, with material to match dress, trimmed with ribbon and flowers. Bisque turning head with moving eyes, real lash eyelashes, open mouth showing teeth. Curly mohair wig with natural side part. Measures 15", packed 2 dozen in box 4 00

N25646—**WINTER COSTUME DRESSED DOLL**—Wide velvet or flannel dress and imitation ermine set with ermine muff and collar edged with braid. Hat a set vest

N25646

Curly mohair wig with imitation side part. Measures 12", packed each in box 4 00

N25647—**APRON DRESSED DOLL**—Of good quality gingham, collar and cuffs, trimmed with lace. Apron of white lawn with insertion and hemstitched suspenders joined with fancy bows. Good quality underwear, removable socks and slippers. Bonnet of gingham material to match dress, trimmed with fancy bow and flowers. Bisque turning head with moving eyes, open mouth showing teeth. Curly mohair wig, imitation side part. Measures 13", packed 3 dozen in box 3 00

N25648—**DRESSED DOLL**—Gingham dress of neat pattern. Fitted vest of plain material, collar trimmed with fancy braid of same material. Cotton underwear with lace, removable shoes and stockings. Straw hat trimmed with silk buttons and edged with fancy braid. Cotton underwear with removable shoes and stockings. Bonnet of same material as dress, trimmed with plain material and flowers. Bisque turning head with moving eyes, open mouth showing teeth. Curly mohair wig with imitation side part. Measures 15½", packed each in a box 4 00

N25648

N25649—**DRESSED DOLL**—Over blouse dress of imitation linen. Collar, cuffs and blouse trimmed with colored linen material with ribbon rosette on belt. Pleated skirt. Cotton underwear, removable shoes and stockings. Straw hat trimmed with ribbon to match. Bisque turning head with moving eyes, open mouth showing teeth. Curly mohair wig with imitation side part. Measures 15", packed each in a box 4 00

N25650—**DRESSED DOLL**—Over blouse dress, blouse trimmed with colored lawn material with ribbon rosette on belt. Pleated skirt. Cotton underwear trimmed with lace, removable stockings and shoes. Large sailor hat, trimmed with ribbon. Bisque turning head with moving eyes, open mouth showing teeth. Real lash eyelashes, curly mohair wig with imitation side part. Measures 14", packed each in box 4 00

N25651—**DRESSED DOLL**—Dressed in assorted colored solid silk dresses. Collar cuffs and hats trimmed with lace. Large showy trimmed lace bonnets. Straw hat trimmed with material to match. Cotton underwear, removable socks and slippers. Bisque turning head with moving eyes, open mouth showing teeth. Curly mohair wig with imitation side part. Measures 15½", packed 2 dozen in a box 5 00

N25652—**DRESSED DOLL**—Shoulder style dress trimmed with colored silk ribbon and ribbon rosette and bow. Skirt has ruffled edge with lace. Silk ribbon boot trimmed with rosette and streamers. Large showy bonnet trimmed with silk ribbon and lace. Skirt edge has lace trimmed with silk ribbon tied with bow knot. Bisque turning head with moving eyes, real hair eyelashes, with open mouth showing teeth. Curly mohair wig with natural side part. Measures 17½", packed 2 dozen in a box 6 00

N25653—**DRESSED DOLL**—Long waisted dress of good quality striped cotton material. Skirt and belt decorated with silk covered buttons. Collar and cuffs trimmed with white lawn. Neat white lawn hat trimmed with rosette and scalloped edge. Cotton underwear with lace trimming, removable shoes and stockings. Bisque turning head with moving eyes real hair eyelashes, with open mouth showing teeth. Curly mohair wig with natural side part. Measures 18½", packed 2 dozen in a box 6 00

N25654—**DRESSED DOLL**—Of assorted solid colors with trim of white material edged with lace and collar ruffs and hats trimmed with lace also silk bow or bisque for decoration. Cotton underwear with removable socks and slippers. Bisque turning head with moving eyes, open mouth showing teeth. Curly mohair wig with imitation side part. Measures 12", 24 dozen in box 3 00

N25655—**DRESSED DOLL**—Of organdy with floral designed dots. Collar, cuffs and sash set with ribbon rosettes for decoration. Cotton underwear with lace, removable socks and slippers. Neat hat of white crepe, with plaited brim trimmed with flowers and ribbon rosette. Bisque turning head with moving eyes, real lash eyelashes, open mouth showing teeth. Curly mohair wig with natural side part. Measures 14½", packed 3 dozen in box 3 50

N25656—**DRESSED DOLL**—White lawn dresses with insertion across front of skirt and sleeves. Cotton underwear with lace inserted with ribbon. Belt of same material with two ribbon rosettes for decoration. Insertion tucks with hemstitching. Cotton underwear with lace trimmed with ribbon. Socks and slippers. Hat of bonnet effect, with material to match dress, trimmed with ribbon and flowers. Bisque turning head with moving eyes, real lash eyelashes, open mouth showing teeth. Curly mohair wig with natural side part. Measures 15", packed 2 dozen in box 4 00

N25657—**DRESSED DOLL**—Silk dresses with lace collar, cuffs and hats. Satin ribbon trimmed with lace and ribbon rosette. Sleeve bands trimmed with rosette. Cotton underwear edged with lace, removable shoes and stockings. Bisque turning head with moving eyes, real lash eyelashes, open mouth showing teeth. Curly mohair wig with natural side part. Measures 17", packed 2 dozen in box 5 00

N25658—**DRESSED DOLL**—Neat dress with pink and blue lawn slips. Slips lace insertions and trimmed with ribbon rosettes and silk ribbon belt. Skirt is tucked with shirred ribbon and edged with lace. Straw hat of leghorn effect, trimmed with ribbon rosette and flowers. Cotton underwear with imitation crocheted lace. Removable shoes and stockings. Bisque turning head with moving eyes and real hair eyelashes, open mouth showing teeth. Curly mohair wig, packed 2 dozen in box 6 00

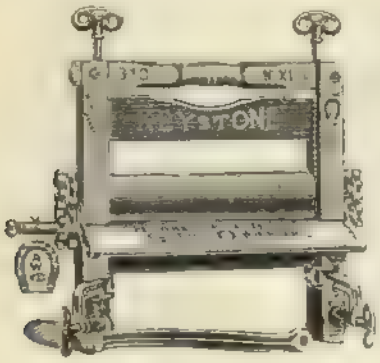
N25659—**DRESSED DOLL**—Solid colored lawn dresses with fancy imitation crocheting trimmed in ribbon, collar and cuffs edged with silk ribbon. Waist side fastening. Cotton underwear with lace trimmed with ribbon, removable shoes and stockings. Large showy hat trimmed with ribbon bow and streamers and flowers. Bisque turning head with moving eyes, real hair eyelashes, open mouth showing teeth. Curly mohair wig with natural side part. Measures 19½", packed 2 dozen in box 7 00

N25660—**DRESSED DOLL**—Solid colored lawn dresses with fancy imitation crocheting trimmed in ribbon, silk bow and rosette on sleeve. Cotton underwear trimmed with lace, removable shoes and stockings. Silk bonnet trimmed with lace and rosettes. Bisque turning head with moving eyes, real hair eyelashes, open mouth showing teeth. Curly mohair wig with natural side part. Measures 21½", packed 2 dozen in box 7 00

N25661—**DRESSED DOLL**—Elaborate net dress with white satin slip. Large bertha trimmed with braid lace, and ruffle trimmed with same lace. According pleated skirt and over-skirt trimmed with lace. Solid colored silk sash with rosettes and bow. Silk boot and ribbon bow with rosettes. Cotton underwear with scalloped edge, removable shoes and stockings. Showy straw hat with ribbon trimming joined with bow and streamers and flowers for decorations 7 00

CLOTHES WRINGERS

Hard maple wood frame, bolted and varnished, hinged water board, galvanized tub clamps for galvanized steel, wood or fibre tubs; galvanized thumb pressure screws.

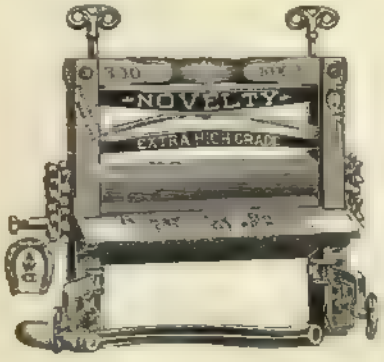


KEYSTONE

With plain bearings, spiral pressure springs, exposed cog wheels, white rubber rolls, warranted for three years

Nos.	310	311	312
Each	$7.50	8.00	8.75
Rolls, inches	10 x 1¾	11 x 1¾	12 x 1¾
Weight per dozen, pounds	264	268	276

One quarter or one half dozen in a case



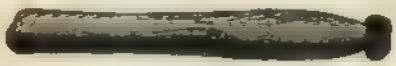
NOVELTY

With steel ball bearings, flat steel pressure springs; exposed cog wheels; white rubber rolls; warranted for three years

No.	391
Each	$8.75
Rolls, inches	11 x 1¾
Weight per dozen, pounds	272

One quarter or one half dozen in a case

CLOTHES PINS



COMMON

Hardwood, round head finished; length 4 inches

Common. In boxes; 24 in a box, 24 boxes in a case; weight per case 18 pounds . . . per case $.

Common. In bulk, 5 gross in a case weight per case, 20 pounds . . . . per case.

CLOTHES WRINGERS

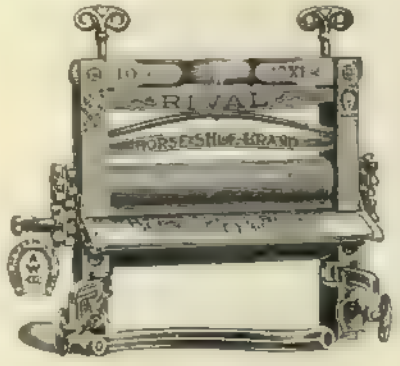
Hard maple wood frame, bolted and varnished; hinged water board, galvanized tub clamps for galvanized steel, wood or fibre tubs; galvanized thumb pressure screws

UNIVERSAL

With plain bearings flat steel pressure springs exposed cog wheels, white rubber rolls warranted for three years

Nos.	350	351	352
Each	$7.50	8.00	8.75
Rolls, inches	10 x 1¾	11 x 1¾	12 x 1¾
Weight per dozen, pounds	246	256	270

One quarter or one half dozen in a case



RIVAL

With plain bearings, exposed cog wheels, white rubber rolls; warranted for one year; family size.

No.	100
Each	$6.00
Rolls, inches	10 x 1¾
Weight per dozen, pounds	248

One quarter or one half dozen in a case

CLOTHES PINS

HOLDFAST

Hardwood, with galvanized steel bow, spring clamp, grooved jaws.

Holdfast. For wire or rope clothes lines; length 3¼ inches; one quarter gross in a box; weight per gross, 4 pounds.....per gross, $.....

Twelve gross in a case

WASH BOARDS

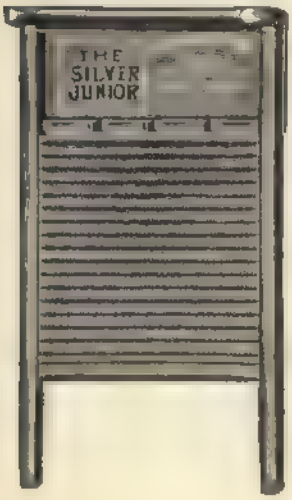
Top Notch washboards are so constructed that they afford quick drainage, utilizing all the soap and lessening the quantity used.

WHITE HEN

Hardwood frame, full dovetailed top.

No. 862. White Hen, large family size. Single glass washing surface, spiral crimp rubbing surface 10⅞ x 12 inches. Size over all 12½ x 24¼ inches; weight per dozen 57 pounds.....per dozen, $....

One half dozen in a bundle



THE SILVER JUNIOR

Hardwood frame, full dovetailed top.

No. 822. The Silver Junior, small family size. Single metal washing surface, 10 x 10½ inches; spiral crimp; washing surface supported by three truss hoops; open back. Size over all, 11½ x 23¼ inches; weight per dozen, 26 pounds.....per dozen, $

One half dozen in a bundle

CLOTHES LINES

SISAL

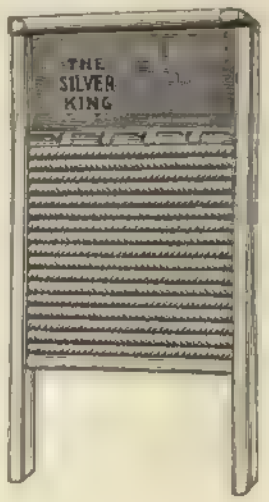
Close Twist

Snow White. Stainless; six threads to each twist; ⅛ inches diam.; 50 feet in a hank; weight per dozen hanks, 4½ pounds.....per dozen, $.....

One dozen hanks in a bundle

WASH BOARDS

Top Notch washboards are so constructed that they afford quick drainage, utilizing all the soap and lessening the quantity used.



THE SILVER KING

Hardwood frame, full dovetailed top.

No. 824. The Silver King, standard family size. Single metal washing surface, 10⅞ x 11 inches; spiral crimp; washing surface supported by five truss rods; open back. Size over all, 12½ x 24¼ inches; weight per dozen, 30 pounds.....per dozen, $....

BRASS KING

No. 801. Brass King, same style and dimensions as Silver King, but has brass washing surface..per dozen, $. ..

One half dozen in a bundle

OUR SPECIAL

Hardwood frame with metal top and soap drain.

No. 167. Our Special Large family size. Single metal washing surface, 10⅞ x 11½ inches; globe crimp; ventilated back. Size over all, 12½ x 24⅛ inches; weight per dozen, 43 pounds ..per dozen, $....

One half dozen in a bundle

CLOTHES LINES

WIRE

Galvanized Flexible Steel Wire

Feet in coil	40	50	75	100
Per dozen .....$.....	.....	.....	.....	.....
Weight per dozen, coils.....	7	8½	12	16

ASSORTED IRON TOYS

Bright colors; all with drivers

T3378—Assorted 3 kinds, consisting of driver, cumabout, goat and cart; finished in aluminum, red, yellow, black and green colors; average size 8x3x3 ins. high; packed assorted in box. Dozen pieces 2.00

CLIMBING MILLER

An old favorite at an attractive price

T3025—Wood, painted in colors, 17 in. high, with 4 detachable pedestals; when placed on a slant the miller climbs to the top, then slides down and returns with a jump. Packed one to the carton. Each ..... .30

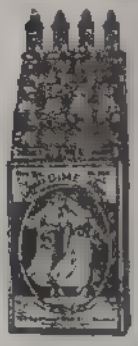
METAL WHISTLE

Duplex; nickeled and polished

T2816—All nickel plated with ring for chain. Packed in cartons of 36 in box. Box ..... .35

TAPPAN'S DIME PERFUME

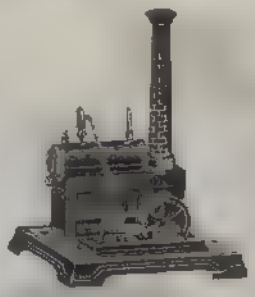
Assorted odors, in attractive counter display box



E770—Dainty perfume put up in rose tint glass bottles with sprinkler top, nickel plated bands, beaded; good quality perfume; 1 dozen in a box packing assorted odors. Dozen ..... .90

BING'S STEAM ENGINE

Strongly built and nothing better made at the price



T4180—Heavy tin base 8x8 ins., blued steel foundation; oxidized finish brass boiler; whistle, safety valve, pressure gauge, throttle valve, fly wheel, connecting rod, eccentric, reversing lever, belt pulley and belt; mounted on black wheels; height over all 12 ins.; packed one in box. Each 2.50

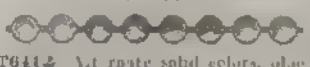
GIRL'S WRIST WATCH

T2547—Good quality sewed leather strap with buckle and eyelets; embossed gilt stem wind and set watch; 1 dozen in pkg. Dozen ..... .72

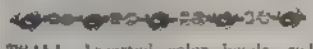
GLASS BEADS

Alternate colors

10 beads to string; 10 strings in box



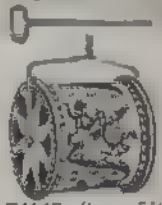
T6412—Assorted solid colors, also red, green, silver and gold beads in assorted colors; strands 11 ins. long. Box ..... .33



T6114—Assorted color beads, red, silver, gold, alternating with two smaller beads between; 5/8 in. beads 12 to string; length 16 ins.; 1 doz. strings in box. Box ..... .72

ROLLER CHIMES

Staple Holiday sellers in every store



T4146—Drum 4½x5 inches; lithographed in colors; nickel plated chime rod 18 inch wire handle; 1 dozen in box. Dozen 2.15

T4147—Same, 5¼x5½ in. drum; 1 dozen in box. Dozen 3.75

T4148—Same, 6¼x8¼ in. drum; 20 in. round knob wood handle; 1 dozen in box. Dozen 4.50

T4149—Same as T4146 except 7¼ in. drum; 3/4 dozen in box. Dozen 6.75

JAZZBO JIM

Still the best jig dancer on the market

T3079—Lithographed negro cabin 3½x4¾x3¾ in. high; with full jointed negro dancer on roof; when wound up, Jazbo Jim does all the best jig dances; height over all 7½ ins., packed one in box. Each ..... .40

CUPS AND SAUCERS

Nicely floral decorated in colors

T3811—Lithographed in colors, assorted juvenile and floral decorations in colors; 3 in. saucers; cups handled 1¾x1½ ins.; 3 dozen assorted in box. Dozen ..... .39

"KICK INN" TOY SAVINGS BANK

T3752—Two story wood house bank with extension porch, mechanical donkey on upper floor porch, and when spring is released donkey kicks coin into bank; with lock; size 4x9½x6¾ ins. high, each in carton. Each 7.20

TELEPHONE RECEIVER

Concealed bell

T3707—All metal, black enameled; works automatically like a real telephone; nickeled adjustable transmitter; 2½ in. nickeled bell on case 4 in. high; packed each in box. Dozen 8.50

SAND MOULD SET

Lots of fun for the kiddies

T3912—Ten piece set, bright colors, assorted shapes with shovel, in box 14x12¾ ins.; 1 dozen in package. Dozen 1.65

FLOOR CHIME

A good number for a 15c seller

T4117—Revolving floor chime, nickle plated; 1¼ in. polished nickel plated gongs; 1½ in. wheels; length 4 ins.; 1 doz. in box. Dozen 1.25

SPRINKLING CANS

Two good 10 and 15 centers

T3920—Non bossed lithographed, juveniles at play in full colors, gilt stripes and bands around top; diameter bottom 2 ins., 4¼ in. high; 1 dozen in carton. Dozen ..... .72

T3927—Same as T3525, except 6 ins. high, 1 dozen in carton. Dozen 1.15

MUSICAL TOP

Assorted colors, nicely decorated

T2600—All metal; assorted color and gold bands; spring wire ring 3 ins. high; 4 ins.; 1 dozen in box. Dozen ..... .92

ENAMELED TEA SETS

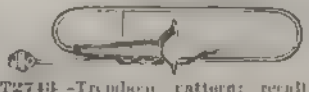
Blue with china finish

T3885—12 piece set with 4 cups, 4 saucers, sugar, creamer, and shaped tea pot with cover, in box 10x13 ins.; 1/6 dozen in package. Dozen 0.75

T3886—Same, 16 piece set; 6 cups, 6 saucers, sugar, creamer and shaped tea pot with cover; in box, 11x15 ins.; 1/6 dozen in package. Set ..... .85

TROMBONE BUGLE

Nickel plated recall



T2743—Trombone pattern; recall of metal, nickel plated; gold braid cord, 2½ in. bell; length 13½ in.; 1 dozen in box. Dozen 1.35

A GUARANTEED HIGH-GRADE LOW PRICED TRAIN

All the late improvements with extra strong guaranteed clockwork; handsomely finished

T12[illegible]—[illegible] of 7½ in. coal car, [illegible] with [illegible] cover, [illegible] in. tender, 9 in. baggage car with 2 sliding doors; 5½ in. Pullman and 5½ in. observation [illegible] stepped by brake set [illegible], Pennsylvania Line type; complete with 8 sections curved [illegible] ins. straight track; total length train 3$ ins.; each in box. Each 3.75

SEWING SETS

...ssary for sewing and ...broidering

T...81 ... 2.25

T4082 ... 4.35

LOTTO

A game that is always a popular seller

T4479 — Contains 13 cards, set of round counters, and checking table; lithographed label in colors; size ... ½ dozen in pkge 2.15

RIBBON TINSEL

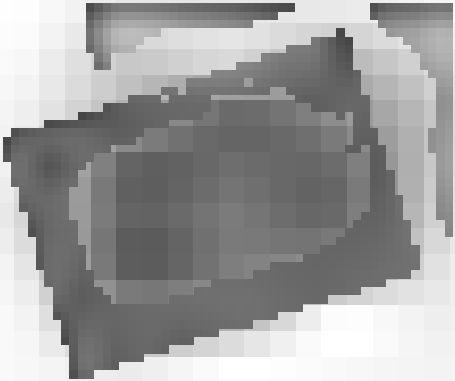
T0477 Strands, 32 ... long in untied ... card; will not tarnish ... ing as Christmas tree ... producing a ...tiful and ...ntillating effect, ... 14 ins.; 1 ... pkge
Gross ... 4.20
Dozen ... .30

BRASS WIRE BEDS

Two good numbers; collapsible brass lacquered

T7128 — Lacquered brass finished wire frame, folding ends; length 12 in., width 6 in., height 5½ in.; 1 ... pkge. Dozen. ... 2.25

T7129 ... ... with ... cards ... pure ... ...



FUEL PROTECTORS

KINGSTON

FOR FORD CARS

Especially designed to clean and purify the gasoline.

Equipped with three controls, one for regular running, one for emergency and one for shutting off the fuel supply entirely; the emergency control insures 1½ gallons reserve supply of gas. All fuel must pass through the metal screen; the sediment bowl may be drained instantly.

No.	A-19KFP
Weight each, lbs.	2½
List Price, Each	$3 50
1 to 12, Each	✚7 89
12 or more, Each	✚7 35

One in a cardboard box.

CARBURETOR TUBING

AUTO-STEELFLEX

Asbestos Packed.

Made of galvanized steel strips, interlocking construction and possesses all requirements for the protection of the insulation of automobile wiring, for both oil and abrasion. It is flexible, neat in appearance and in conjunction with the fittings.

Especially adaptable for the convenience of hot air carburetors.

Sold only in coil lots.

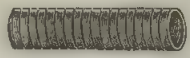
Nos.	Inside Diam. Inches	Outside Diam Inches	Approx. Feet Per Coil	Approx. Weight Per 1000 Ft. Lbs.	List Per 100 Feet	Per 100 Feet
A-1-¾	⅜	.906	125	220	$0 22	✚$27 75
A-2-⅞	⅞	1.031	125	330	25	✚ 31 50
A-3-1	1	1.156	100	400	30	✚ 34 50
A-4-1⅛	1⅛	1.282	100	470	35	✚ 37 50
A-5-1¼	1¼	1.406	50	520	40	✚ 45 00
A-6-1 5/16	1 5/16	1.469	50	540	43	✚ 47 25
A-7-1⅜	1⅜	1.532	50	590	46	✚ 51 00
A-8-1½	1½	1.656	50	650	52	✚ 57 00
A-9-1¾	1¾	1.906	50	720	60	✚ 69 00
A-10-2	2	2.156	25	800	70	✚ 84 00
A-11-2¼	2¼	2.406	25	920	88	✚ 96 00
A-12-2½	2½	2.656	25	1030	94	✚108 00
A-13-2¾	2¾	2.906	25	1250	1 10	✚126 00
A-14-3	3	3.156	25	1480	1 25	✚141 00

✚Protectors—F. O. B. Indiana Factory Only.

✚Tubing—F. O. B. Illinois Factory Only.

EXHAUST TUBING

AUTO-STEELFLEX

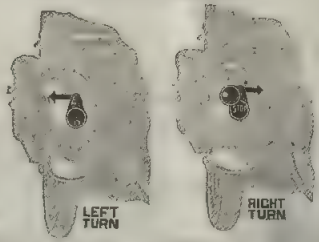


Asbestos Packed.

Sold in any desired lengths.

Nos.	Inside Diam. Inches	Outside Diam. Inches	Weight Per 1000 Feet, Lbs.	List Price Per Foot	Per 100 Feet
A-15-1	1	1.250	750	$0 65	✚$84 00
A-20-1¼	1¼	1.500	880	80	✚100 80
A-30-1½	1½	1.750	1020	95	✚126 00
A-40-1¾	1¾	2 000	1160	1 12	✚135 00
A-50-2	2	2 250	1330	1 30	✚165 00
A-60-2¼	2¼	2.500	1510	1 50	✚195 00
A-70-2½	2½	2.750	1756	1 75	✚220 50
A-80-2¾	2¾	3 000	2056	2 00	✚252 00
A-90-3	3	3.250	2356	2 35	✚264 00

VACU-SIGNALS



A Combination Stop and Direction Signal, Rear Light and License Bracket.

Made of aluminum; attractively finished. Operates only by vacuum while the engine is running. The large white letters "Stop" on ruby glass is displayed the instant the brake-pedal is depressed.

A clear glass window in the bottom of the signal illuminates the license tag which is attached to the signal. It can be applied on any gasoline car by any auto mechanic within one hour.

	Each
No. A-32VS—Weight each 1½ lbs	$20 00 ✚42 75

One in a carton.

AUTOMOBILE CLOCKS

One Day Movement.

Steel case, nickel plated; brass rim and bezel, highly nickel plated and polished; 2½ in. iveroid dial with second hand; extreme diameter of rim 8½ in.; depth 1⅝ inches.

	Each
No. A-4—Complete with necessary screws and complete directions for using	$8 40

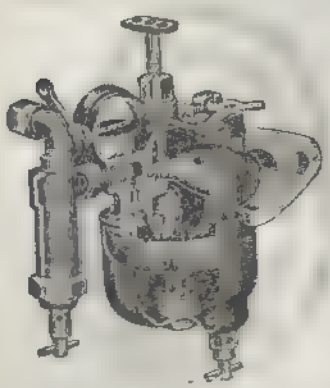
One in a cardboard box; weight each about 18 ozs.

✚Exhaust Tubing—F. O. B. Pennsylvania Factory Only.

✚Vacu-Signals—F. O. B. Illinois Factory Only.

ACCESSORIES FOR FORD CARS

KINGSTON CARBURETORS



The factory advise that the Ford Motor Co., has adopted this Carburetor as standard equipment.

This carburetor owes its success to the construction which makes it possible to thoroughly impregnate all air with atomized gasoline directly at the nozzle and at point of highest air velocities. This is the reason that Ford cars equipped with the Kingston can be throttled down to a speed as slow as walking and accelerated to 40 miles per hour in 20 seconds and every cylinder doing the full share of work all the time. These carburetors start surely and easily because of their perfect atomizing of fuel.

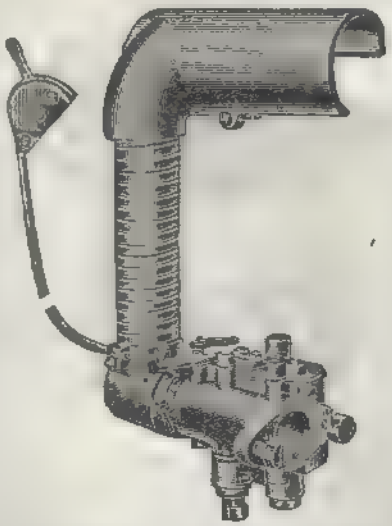
Equipped with new design laminated cork float. Fuel valve made of Monel metal. The compensating air valve is made of bronze. Is equipped with a spray nozzle.

This carburetor will, without any extra fittings, perfectly fit the Ford manifold and operating rods.

No. 5470—W't each 4½ lbs., each $5.50

ONE IN A CARTON

RAYFIELD CARBURETORS



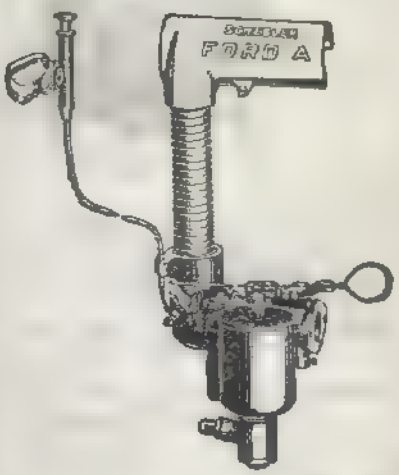
The Improved **Rayfield Carburetor Outfit** was designed especially for Ford motors and is of the plain tube type, having no loose attachments. There are two adjustments, one for low and one for intermediate speeds. The feature of this new Rayfield Outfit is the thermostatic hot air control involved in its construction, making it impossible to over-heat the Ford motor in the summer time. This feature alone will pay for the Carburetor in a short time. It is also adjusted for easy starting of the motor, quick pick-up, increased power, economy of gasoline consumption and uniformity of performance.

The outfit comes complete with all necessary fittings and can be attached in a few minutes.

No. 5467—Complete, w't each 8 lbs., each $27.00

ONE OUTFIT IN A BOX

CARBURETOR OUTFITS



Especially designed for Ford cars, has no moving parts. The new Pitot Tube Principle is introduced, which is an improved type of gasoline nozzle so built that it automatically furnishes a rich mixture for acceleration and thins out this mixture after the normal motor speed has been reached.

No. F5442—"Ford A" Outfit consists of a carburetor, steering column control, hot air drum, flexible tubing, manifold gasket, (2) ⅜x16 in. cap screws and radiator choke wire, w't each complete 12 lbs., complete outfit each★ $26.00

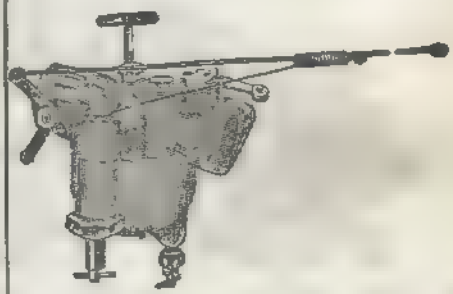
STROMBERG CARBURETORS

In an officially observed test this carburetor gave 37 9/10 miles on one gallon of gasoline, more than 50% decrease in the usual Ford consumption.

No. F5458—The new Stromberg Carburetor for Ford Cars, complete with all necessary attachments ready to install, w't packed 11 lbs.★ .....each $30.40

ONE OUTFIT IN A BOX

SPRING GOOSER WIRES



The Spring Gooser is a combination priming rod and carbureter spring. Used to replace the spring on carburetors which holds the choker valve open. For use on all Fords, whether choked from the dash or the front.

No. 7340—W't per doz. 1½ lbs., per dozen $3.15

★ **Items Marked Thus ★ Are Shipped from Factory Only.**

AIR RIFLES

KING 1909 JUNIOR SINGLE SHOT

Blued finish steel barrel and frame, walnut stock, good sights, perfect action, shoots BB shot, length 29 in., w't per doz. 18 lbs.

No. 5010—Per dozen $14.40

ONE DOZEN IN A CASE

KING SINGLE SHOT

Lever action, made of one piece blued finish steel, black walnut stock, carefully adjusted sights, shoots BB shots and darts with accuracy and good penetration, length 31 in., w't per doz. 25 lbs.

No. 5021—Per dozen $24.00

ONE DOZEN IN A CASE

KING 350 SHOT "SPECIAL" AUTOMATIC REPEATER

New lever action, 350 shot, automatic repeater, shoots 500 times without reloading, made of best grade blued steel with barrel and frame of one piece, walnut stock, open sights, shoots air-tight gun shot with accuracy, length 31 in., w't per doz. 27 lbs.

No. 5022—Per dozen $28.00

ONE DOZEN IN A CASE

KING 500 SHOT AUTOMATIC REPEATER

Shoots 500 times without reloading, lever action, blued finish, black walnut stock, Rocky Mountain front sight, rear peep sight, hammerless, shoots BB shot, all parts interchangeable, length 34 in., w't per doz. 36 lbs.

No. 5016—Per dozen $40.00

HALF DOZEN IN A CASE

KING 1000 SHOT AUTOMATIC REPEATER

HALF DOZEN IN A CASE

Shoots 1,000 times without reloading, shoots BB shot, lever action, frame and barrel are of one piece, blued finish, no joints between barrel and frame to work loose, black walnut stock, excellent sights, all parts interchangeable, length 36 in., w't per doz. 38 lbs.

No. 5017—Per dozen $44.00

HALF DOZEN IN A CASE

Shoots 1,000 times without reloading, lever action, frame and barrel are of one piece, blued finish, no joints between barrel and frame to work loose, black walnut stock, excellent sights, strong, long range, accurate, all parts interchangeable, length 36 in., w't per doz. 46 lbs.

No. 5028—Per dozen $56.00

BENJAMIN PUMP AIR RIFLE

Nickel plated barrels, walnut stock, single shot takedown, larger barrel is the pump and air chamber, smaller one is the shooting barrel, length 37 in., w't 2 lbs.

No. 5025—Per dozen $80.00

ONE DOZEN IN A CASE

DAISY AIR RIFLES

LITTLE DAISY SINGLE SHOT

Blued finish steel barrel and frame, walnut stock, good sight, perfect action, shoots BB shot, length 29 in., w't per doz. 18 lbs.

No. 5004—Per dozen $14.40

ONE DOZEN IN A CASE

SINGLE SHOT

Lever action, single piece steel barrel, blued finish, walnut stock, shoots BB air rifle shot and 17-100 darts, length 31½ in., w't per doz. 28 lbs.

No. 5005—Per dozen $24.00

ONE DOZEN IN A CASE

1000 SHOT AUTOMATIC REPEATER

Lever action, 1000 shot, blued finish, magazine gun, loads automatically, turned genuine black walnut stock, highly polished, fitted with blued steel butt-plate, all parts interchangeable, length 36 in., w't per doz. 56 lbs.

No. 5008—Per dozen $56.00

HALF DOZEN IN A CASE

Lever action, 1,000 shot, nickel finish, shoots BB shot, working parts of steel and brass, turned walnut stock, fitted with blued steel butt-plate, loads automatically, length 36 in., w't per doz. 42 lbs.

Shooting barrel provided with patented shot retainer that enables the user to shoot downward without losing the shot. It shoots accurately and with great force.

No. 5012—Per dozen $48.00

350 SHOT AUTOMATIC REPEATER

Lever action, 350 shot, shoots BB shot, single piece steel barrel, nickel finish, all parts interchangeable, length 31½ in., w't per doz. 28 lbs.

No. 5007—Per dozen $32.00

ONE DOZEN IN A CASE

Lever action, 500 shot, shoots BB shot, working parts of steel and brass, blued finish, black walnut stock, loaded automatically, length 33 in., w't per doz. 40 lbs.

No. 5018—Per dozen $40.00

HALF DOZEN IN A CASE

MILITARY REPEATER

Lever action, 50 shot, shoots BB air rifle shot, all metal parts finished in gun blue, beautifully walnut finished stock, rear sight open and adjustable, front sight knife type, sling strap and swivel, 45 in. over all, including rubber tipped detachable bayonet, w't per doz. 45 lbs.

No. 5040—Per dozen $80.00

HALF DOZEN IN A CASE

PUMP ACTION REPEATER

HALF DOZEN IN A CASE

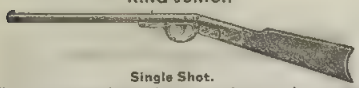
50 shot, shoots BB air rifle shot, metal parts non-rusting gun blue, genuine black walnut stock, hand polished, adjustable sights front and rear, length 38 in., w't each 3¼ lbs.

This new pump action repeater operates by pulling the slide toward the stock, the loading action is automatic, fires rapidly from the shoulder, the magazine having a forced feed, is a strong and accurate shooter.

No. 5020—Per dozen $80.00

AIR RIFLES

KING JUNIOR



Single Shot.

Designed especially for the younger boys not large enough for a heavy air rifle.

Steel barrel, hardwood ebony finished stock; good sights and perfect action; length over all 29 inches.

Per Dozen

No. 10AR—Nickel plated barrel and frame; weight each 1¼ lbs $25 50

One dozen in a wood case.

BENJAMIN

This is a pneumatic rifle and is operated entirely by air. The air is compressed in an air chamber by a stroke or two of the pump rod, and when released by pressure upon the trigger throws a shot which will easily pass through a ½ inch white pine board. An ideal rifle for target practice and small game. Simple, strong and efficient.

Nickel plated steel barrel and trimmings, varnished walnut stock. Length over all 37 inches.

Per Dozen

No. 18E—Single shot; shoots air rifle shot; weight each 2 lbs $117 00

One in a carton.

POP GUNS

DAISY

Per Dozen

No. 10PG—Designed like an air rifle, breakdown action; one piece nickel plated steel barrel and frame, walnut stock; blued finish; shoots a cork attached to a cord; length 15 inches; weight each 6½ ozs $10 80

One in a carton, six dozen in a case.

KING

Per Dozen

No. 15—Made like an air rifle; Winchester action; one piece nickel plated steel barrel and frame; black walnut stock; shoots a cork attached to a cord; length 17 inches; weight each 7½ ozs $10 80

One in a carton, three dozen cartons in a case.

KING RAPID FIRE

A pump action, rapid fire pop gun. Operates similar to a real pump gun; barks hard, loud and fast; easy and simple to work. Loads automatically, explodes with both forward and backward movement of the hand piece; absolutely safe, not even a cork to fly out.

Per Dozen

No. 25PG—All metal parts nickel plated; genuine black walnut stock, polished; length 27 inches; weight each 18½ ounces $25 50

Three dozen in a case; weight per case 36 lbs.

GUN DISPLAY CASES

Revolving Hexagon Display Case for Guns and Rifles.

Each

No. 2—Solid oak, 4 ft. 7 in. high, 32 in. wide, each hexagon side 18 in. wide. To be placed on platform or counter; has one door with lock and key; holds 12 rifles and 12 shot guns ..... ✦$157 50

One in a crate; shipping wt. 225 lbs.

REVOLVERS

COLT'S NEW POCKET POSITIVE

Double Action, 32 Caliber, Center Fire, 6 Shot.

Simultaneous ejection; jointless solid frame; equipped with the Colt positive lock, an absolute preventive of accidental discharge.

Chambered for 32 Short Colt, 32 Long Colt 32 S&W and 32 S&W Long Cartridges.

Nickel Plated.

No.	Barrel, inches	Stock	Weight, ounces	Each
1323½	3½	Rubber	16	✦$72 00

Blued.

No.	Barrel, inches	Stock	Weight, ounces	Each
01323½	3½	Rubber	16	$72 00

Chambered for 32 Colt Police Positive. (Using 32 Colt Police Positive, Full and Gallery Loads; also 32 S. & W. Short and Long Cartridges, when barrel is stamped "32 Police Ctg"). **32S&W, 32 S&W Long and 32 Colt New Police Positive Cartridges.**

Nickel Plated.

Nos.	Barrel, inches	Stock	Weight, ounces	Each
$1322½	2½	Rubber	15	✦$72 00
$1326	6	"	18	✦ 72 00
$1322½P	2½	Pearl	15	✦ 78 30
$1326P	6	"	18	✦ 78 30

Blued.

Nos.	Barrel, inches	Stock	Weight, ounces	Each
$01322½	2½	Rubber	15	✦$72 00
$01323½	3½	"	16	✦ 72 00
$01326	6	"	18	✦ 72 00
$01322½P	2½	Pearl	15	✦ 78 30
$01323½P	3½	"	16	✦ 78 30
$01326P	6	"	18	✦ 78 30

One in a cardboard box.

✦**Display Cases—F. O. B. Missouri Factory Only.**

✦**Revolvers—F. O. B. Connecticut Factory Only.**

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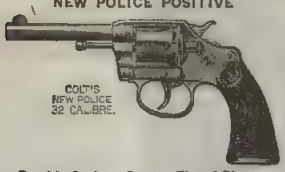
REVOLVERS

COLT'S NEW POLICE POSITIVE



Double Action, Center Fire, 6 Shots.

Simultaneous shell ejection, solid jointless frame, equipped with the Colt's positive lock which is an absolute safe guard against accidental discharge.

Adopted by the Police Department of New York City.

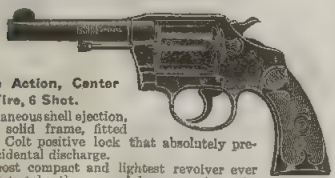
32 CALIBER

Chambered for 32 Colt Police Positive; 32 S&W, 32 S&W long and 32 Colts New Police Positive Cartridges.

Barrel, inches	Stock	Weight, ounces	Nickel Plated. Nos.	Each	Blued. Nos.	Each
4	Rubber	18	PPC1324	✣$73 50	PPC01324	$73 50
4	Pearl	18	PPC1324P	✣ 82 95	PPC01324P	82 95

Can be furnished from factory with 2½ or 6 inch barrel at same price as above.

COLT'S POLICE POSITIVE SPECIAL



Double Action, Center Fire, 6 Shot.

Simultaneous shell ejection, jointless solid frame, fitted with the Colt positive lock that absolutely prevents accidental discharge.

The most compact and lightest revolver ever produced to take this powerful ammunition — the most effective pocket and house arm on the market.

32 CALIBER

Chambered for 32-20 Winchester Rifle Cartridge.

Barrel, inches	Stock	Weight, ounces	Nickel Plated. Nos.	Each	Blued. Nos.	Each
4	Rubber	22	PPS324	$76 80	PPS0324	$76 80
5	"	24	PPS325	76 80	PPS0325	76 80
6	"	25	PPS326	✣ 76 80	PPS0326	76 80
4	Pearl	22	PPS324P	86 25	PPS0324P	86 25
5	"	24	PPS325P	86 25	PPS0325P	86 25
6	"	25	PPS326P	✣ 86 25	PPS0326P	86 25

38 CALIBER

Shooting in the same arm 38 long Colt, 38 short Colt, 38 Colt Special, 38 S&W Special, full or mid range loads.

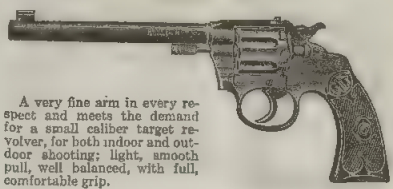
Barrel, inches	Stock	Weight, ounces	Nickel Plated. Nos.	Each	Blued. Nos.	Each
4	Rubber	22	PPS384	$76 80	PPS0384	$76 80
5	"	24	PPS385	76 80	PPS0385	76 80
6	"	25	PPS386	✣ 76 80	PPS0386	76 80
4	Pearl	22	PPS384P	86 25	PPS0384P	86 25
5	"	24	PPS385P	86 25	PPS0385P	86 25
6	"	25	PPS386P	✣ 86 25	PPS0386P	86 25

All above one in a cardboard box.

✣F. O. B. Connecticut Factory Only.

REVOLVERS

COLT'S POLICE POSITIVE TARGET



A very fine arm in every respect and meets the demand for a small caliber target revolver, for both indoor and outdoor shooting; light, smooth pull, well balanced, with full, comfortable grip.

22 Caliber, Double Action, Rim Fire, 6 Shot.

Simultaneous shell ejection, jointless solid frame, equipped with the Colt positive lock that absolutely prevents accidental discharge; fitted with sights: front sight adjustable for elevation; rear sight with binding screw, adjustable for windage.

Length of barrel 6 inches, length over all 10½ inches, full blued finish, weight each 22 ounces.

Chambered for 22 Caliber W. R. F. Cartridges only.

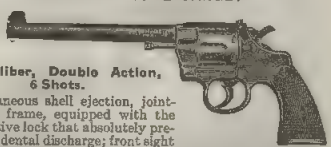
	Each
No. PP0226TW—Rubber stock	$84 75
No. PP0226TPW—Pearl stock	94 20

Chambered for 22 short, 22 long and 22 long rifle Rim Fire Cartridges.

	Each
No. PP0226T S&L—Rubber stock	$84 75
No. PP0226TP S&L—Pearl stock	94 20

One in a cardboard box.

OFFICERS' MODEL TARGET



38 Caliber, Double Action, 6 Shots.

Simultaneous shell ejection, jointless solid frame, equipped with the Colt positive lock that absolutely prevents accidental discharge; front sight adjustable for elevation; rear sight with adjusting screw, adjustable for windage. Action is hand finished and without equal for smoothness and excellence of pull.

Length of barrel 6 inches, length over all 11¼ inches, full blued finish, weight each 32 ounces.

Chambered for 38 Long Colt, 38 Colt Special and 38 S&W Special.

Any of the above cartridges, either full or mid-range loads, may be used in the same revolver.

	Each
No. OM02386—6 inch barrel, walnut stock	$114 30
No. OM02386P—6 inch barrel, pearl stock	127 05

Nos.	Barrel, inches	Stock	Weight, ounces	Each
OM02387½	7½	Walnut	35	✣$114 30
OM02387½P	7½	Pearl	35	✣ 127 05

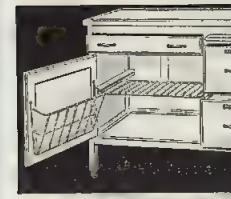
One in a cardboard box.

✣F. O. B. Connecticut Factory Only.

KITCHEN CABINETS

Sturdily constructed with all the latest improvements by one of America's leading cabinet makers. Under the maker's name plate you would pay at least 25% more than these quotations.

Rounded corners and edges, all joints mortised and tenoned, guaranteed not to sag or fall apart. All white enameled cabinets are finished with high grade "Satin" white enamel. All doors and drawers have the dust lip construction and are finished inside, high grade refrigerator style hardware, 3 ply panel backs.



"New Utility"

MATERIAL—Solid oak.

SIZE—Ht. 70 in., top 27x40 in

FEATURES—Metal top bread and cake box, roomy cupboard with sliding wire shelf, wire pan rack, large spclal top flour bin, partitioned cutlery drawer, bread board, steel sliding mousepproof bottom, nickel plated trimmings.

P8635—Golden oak inside and out, porcelain top. Crated, 180 lbs.

Each, **$18.50**

P8606—White enamel inside and out, porcelain top. Crated, 180 lbs.

Each, **$20.75**

"Our Leader"

MATERIAL—Solid Indiana oak

SIZE—Ht. 68 in., top 25x40 in

FEATURES—Tubing metal flour bin with sifter

EQUIPMENT—Bread board, wood cake or bread box with ventilated metal sliding top.

P8547—Golden oak inside and out, stationary nickeloid top. Crated, 175 lbs.

Each. **$17.50**

"Comfort"

MATERIAL—Solid Indiana oak.

SIZE—Ht. 70 in., top 26x40 in.

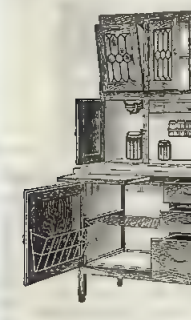
FEATURES—Drop roll curtain, sliding metal flour bin with sifter. Wood cake and bread box with ventilating sliding top

EQUIPMENT—Complete set of five spice jars, one tea and one coffee container, crystal glass sugar jar on swinging steel hanger large bread board.

P8542—Golden oak upper section white enamel inside sliding nickeloid top. Crated, 200 lbs. Each, **$21.75**

P8843—Golden oak upper section white enamel inside, porcelain sliding top. Crated, 200 lbs.

Each. **$24.75**



"The Marvel"

MATERIAL—Selected Indiana oak

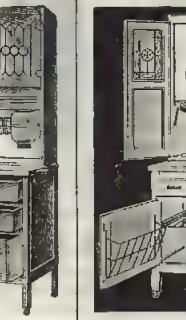
SIZE—Ht. 70 in., sliding top 26x40 in

FEATURES—Drop curtain front, wood cake and bread box with ventilated sliding metal top, sliding wire shelf, pan rack, sliding steel mousproof bottom, frosted glass doors in top, sliding flour bin.

EQUIPMENT—Complete set of five spice jars, one tea and one coffee container, crystal glass sugar jar on swinging steel hanger, large bread board.

P8846—Golden oak outside, white enamel inside, porcelain top. Crated 275 lbs

Each. **$29.75**



"Purity"

MATERIAL—Selected Indiana oak.

SIZE—Ht. 70 in. top 25x40 in

FEATURES—Drop curtain front, metal cake and bread box, large full glass front, lower-ins flour bin, pan rack sliding wire shelf steel mousepproof bottom, frosted glass doors, large drawer divided for cutlery

EQUIPMENT—Complete set of five spice jars, one tea and one coffee container, swinging crystal sugar jar, large bread board.

P8325—Golden finish outside, white enamelled inside, porcelain sliding top. Each **$37.00**

P8327—White enamel inside and out porcelain sliding top. Crated 270 lbs Each. **$41.00**

"De Luxe"

MATERIAL—Selected white oak.

SIZE—Ht. 75 in. top 28x48 in

FEATURES—Roll curtain front, metal cake and bread box, lowering flour bin, two pan racks, sliding wire shelf, dust-proof three ply bottom under entire base, sliding mouse-proof metal bottom, all mouse proof centers, frosted glass doors, four cutlery drawers in top, large upper drawer in base divided for cutlery

EQUIPMENT—Complete set of five spice jars, one tea and one coffee container, swinging crystal sugar jar and large bread board.

P8325—Golden oak outside, white enamel inside, sliding porcelain top. Crated, 300 lbs. Each. **$49.75**

P8328—White enamel inside and outside, sliding porcelain top. Crated, 300 lbs. Each, **$52.00**

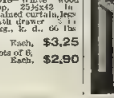
Wood Top Kitchen Table

P7518—White wood top, 25x42 in. slatted curtain, legs with drawer 14 pcs., K. d., 66 lbs.

Each, **$3.25**

Lots of 6, Each, **$2.90**

Porcelain Top Kitchen Table



Indestructible porcelain top 26x40 in. 8 cents white enamel finish panelled frame, 4 drawers 1 with cutlery drawer, 2 in chamfered legs with doubles of mercer slides

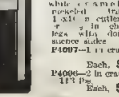
P4097—Unit crate.

Each. **$7.25**

P4096—In crate, K. d., 117 lbs.

Each, **$6.90**

Drop Leaf Kitchen Tables



Built of solid ash, finished golden, legs bolted to top, closed 24x42 in., open 42x42 in. Crated, K. d., 46 lbs.

P6196—Square.

P6197—Oval.

Each **$8.50**

KITCHEN SAFES

Hardwood; imitation quartered oak finish; 4 ft. 11 in. high; 2 ft. 10 in. wide, 14½ in. deep; perforated tin doors; mounted with patent lug fastenings.

Each

No. 20T Without drawer $18 00
No. 20TD With drawer 19 80
One in a crate K D · shipping wt. each 65 lbs

Hardwood; imitation quartered oak finish; 4 ft. 11 in. high; 3 ft. 4 in. wide; 14½ in. deep; perforated tin doors; large drawer; mounted with patent lug fastenings.

Each

No. 21T...$21 45
One in a crate, K. D ; shipping wt. 85 lbs

KITCHEN CUPBOARDS

Hardwood; imitation quartered oak finish; 5 ft. 9 in. high; 2 ft. 10 in. wide; 14½ in. deep; panel doors in base, large drawer; mounted with patent lug fastenings.

Each

No. 22T—With perforated tin doors in top ..$28 05
No. 22P—With panel wood doors in top..28 05
No. 22W—With screen wire doors in top...28 05
One in a crate, K. D ; shipping wt. 98 lbs.

KITCHEN CUPBOARDS

Hardwood; imitation quartered, oak finish; 6 ft. high; 3 ft. 4 in. wide; 14½ in. deep; perforated tin doors in top, and panel wood doors in base; with drawer mounted with patent lug fastenings.

Each

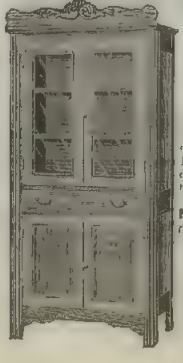
No. 23T ..$31 50
One in a crate, K D , shipping wt 110 lbs

—Trade Stimulator—

Hardwood; imitation quartered oak finish; 6 ft. high; 2 ft. 10 in. wide; 14½ in. deep; glass doors in top; panel wood doors in base; with drawer; glass 10x30 inches; mounted with patent lug fastenings.

Each

No. 30..$26 10
One in a crate, K. D.; shipping weight 95 lbs.

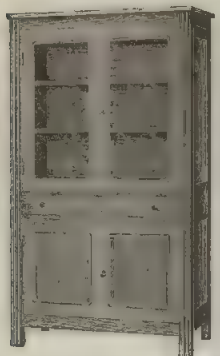


Hardwood; imitation quartered oak finish; 6 ft. 3 in. high; 2 ft. 10 in. wide; 14½ in. deep; glass doors in top; panel wood doors in base; with drawer; glass 10x30 in.

Each

No. 24.. $31 50
One in a crate, K. D ; shipping weight 97 lbs.

KITCHEN CUPBOARDS

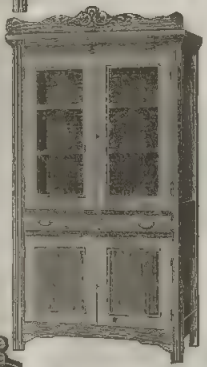


Hardwood, imitation quartered oak finish; 6 ft. high; 3 ft. 4 in. wide; 14½ in. deep; glass doors in top; panel wood doors in base, with drawer; glass 13x30 in.; mounted with patent lug fastenings.

Each

No. 25 ..... $37 50

One in a crate, K. D.; shipping weight 120 lbs



Hardwood; imitation quartered oak finish; 6 ft. 8 in. high; 3 ft. 4 in. wide; 14½ in. deep; glass doors in top; panel wood doors in base, with drawer; glass 14 x 30 in.; mounted with patent lug fastenings.

Each

No. 26 ..... $40 50

One in a crate, K. D.; shipping weight 125 lbs.

Hardwood; imitation quartered oak finish; 6 ft. 8 in. high; 3 ft. 4 in. wide; 14½ in. deep; glass doors in top; panel wood doors in base, with drawer; glass 14x30 in.; mounted with patent lug fastenings.

Each

No. 27 ..... $45 00

One in a crate, K. D.; shipping weight 135 lbs.

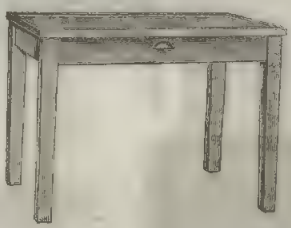
KITCHEN TABLES

Made of hardwood; frame and legs varnished; one drawer fitted with wood knob; 2¼ inch square tapered legs.

Nos.	3KT	4KT
Size top, inches	28x42	30x48
Shipping weight each, lbs	40	45
Each	$9 90	12 75

Nos.	5KT	6KT
Size top, inches	30x60	34x72
Shipping weight each, lbs	53	60
Each	$15 75	18 75

Two in a bundle, K. D. We will not break bundles.



Frame and legs are white enamel finish. Size top 25x40 in.; height 29 inches.

Really a Kitchen table De Luxe.

Each

No. K2WE—Porcelain Enamel top $19 35

No. K3WE—Aluminum top 11 85

Two in a crate; shipping weight per crate 84 lbs.

Buy your stocks of Furniture and Rugs from Belknap. You'll save money.

The KLAXON Line

"REGULARS"

KLAXON 12-L

As efficient as the Klaxon 20. Constructed for underhood installation.
List Price, - - - - - - - - Each, $18.00

KLAXON 6

Slightly smaller in size than the Klaxon 12. Its construction is the crowning result of years of experience in building quality signals.
List Price, - - - - - - - - Each, $9.50

KLAXON 20-L

The finest Automobile Warning Signal made. Penetrating tone, remarkable construction. Needs practically no attention whatever.
List Price, - - - - - - - - - - - - Each, $32.00

Klaxons are regularly finished in all black. For all other finishes such as black and nickel, black and brass etc. add $1.20 to the list prices. Electric Klaxons can be operated from dry cells or storage batteries. They are regularly wound for 6 volts. For special voltages up to 24 volts no extra charge is made.

KLAXON 3

A hand-operated signal of the same quality and efficiency as the electrically operated instruments. Horizontal push rod.
List Price, - - - - - - - - - - Each, $5.75

KLAXON 3-V

Vertical push rod. In every other respect the same as Klaxon 3.
List Price, - - - - - - - - Each, $5.75

"SPECIALS"

KLAXON 20-Dash

Klaxon 20-L with swivel-bracket. Constructed for installation on automobile running boards or for yachts and motorboats.
List Price, Each, $36.00

KLAXON 20-S

Same mechanical construction throughout as the Klaxon 20-L. The short projector makes practically no difference in tone.
List Price, - - - Each, $32.00

KLAXON 12-S

Same mechanical construction throughout as Klaxon 12-L. The short projector makes practically no difference in tone.
List Price, - - - - Each, $18.00

KLAXON 6-Dash

Klaxon 6 with swivel bracket. Constructed for installation on automobile running boards or for yachts or motorboats.
List Price, - - - Each, $11.25

The same—mechanically—as the Klaxon 6 but has a torpedo projector.
List Price, - - - Each, $8.00

KLAXON 5

The most reliable and powerful hand-operated signal ever made. Built especially for trucks and fire apparatus where sturdiness is essential and where the best obtainable is desired.
List Price, Each, $12.75

KLAXON 10

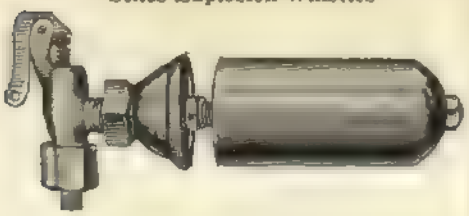
Same as Klaxon 3 but constructed with short projector for motorcycle use. Furnished with handlebar, frame or tank bracket.
List Price, - - - - - - Each, $5.60

KLAXON 3-M.C.

Same as Klaxon 3-V but constructed with short projector for motorcycle use. Furnished with handlebar, frame or tank bracket.
List Price, - - - - - - Each $5.50

KLAXON 3-V M.C

Stiles Explosion Whistles



The Stiles adjustable explosion whistle is a perfect warning signal for passenger cars and trucks. It can be adjusted to any tone, the adjustable feature makes it possible to get the desired tone regardless of the compression of the motor.

Installed in place of priming cup except on Fords, where a special adapter is furnished to be used in connection with regular spark plug.

Operates by a cord attached to dash or steering wheel.

Fully guaranteed. Will last twice the life of any car.

Complete.....each, $4.00

Aermore Exhaust Horns

"The Signal with a Smile"

The clear, distinctive tone of the Aermore is easily heard above traffic, yet the chord is so harmonious and the signal so pleasant it never frightens or angers pedestrains.

It is carefully built and there is nothing to get out of order. Easily and quickly installed. Operates by exhaust gas so there is no expense for upkeep.

Tractor owners find the Aermore just the signal they want.

PATENTED
Aermore complete with Style 'G' valve ready to attach

Small horns should not be used on large cars as the excessive exhaust will make them shriek.

Always give size of valve desired (outside diameter of exhaust pipe) or name and model of car or tractor to which it is to be attached.

No. 0 17 in. Aermore outfit for cars of over 40 h. p., complete with Style G valve .....each, $12.00

No. 1 15 in. Aermore outfit for cars 30 to 40 h. p., complete with Style G valve .....each, 10.00

No. 2 13 in. Aermore outfit for cars 20 to 30 h. p., complete with Style G valve .....each, [illegible]

No. 3 11 in. Aermore outfit for Fords and other light cars.each, 8.00

Style G Valves, made of malleable iron in sizes from 1⅛ to 3¼ in. valve only .....each, 2.00

Pushwell Buttons

For fore door or surface mounting. Black finish.

No. 8189F .....each, $0.35

Pushwell Buttons

For steering wheel mounting. The steering wheel clamp mounting fits on a spoke of the steering wheel, and the button fastened within easy reach

No. 8189J Black finish .....each, $0.45

E. A. Motor Driven Horns

Motor driven. Length 10 in., straight bell. All black enamel finish with bracket for inside attachment.

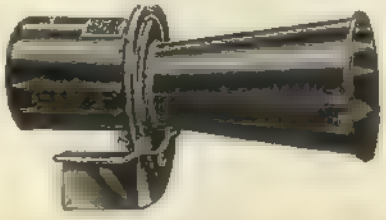
Model D .....each, $7.00

E. A. Motor Driven Horns

Motor driven. Length 12 in., straight bell. Black enamel finish, with bracket for inside attachment.

Model F .....each, $12.00

E. A. Motor Driven Horns



This horn has the straight bell. All black enamel finish with bracket for inside attachment. Length 10 in.

Ford Model 9 .....each, $7.00

Newtone Motor Driven Horns

Motor driven. Length 11½ in. Black enamel finish, with bracket for inside attachment.

Torpedo Model .....each, $15.00

Stewart Motor Driven Horns

Design and construction is the same as No. 136 except that it has a straight projector for underhood installation.

No. 136A .....each, $10.00

Stewart Hand Operated Signals

A high grade, effective, powerful warning signal with a vibrant, penetrating tone. One piece seamless bell. All parts riveted and bolted.

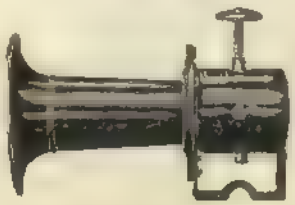
No. 114 All black finish ....each, $6.00

Stewart Hand Operated Signals

Operates by a slight pressure of the hand or finger on the plunger. Finished in black enamel. Furnished complete with bracket.

No. 151B .....each, $4.50

E. A. Hand Horns

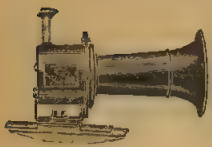


Model A All black finish ...each, $4.50

AUTOMOBILE HORNS AND WHISTLES

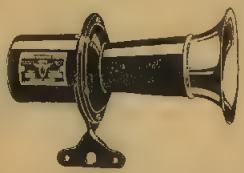
STEWART

STEWART HORNS



Has no soldered parts. All parts are riveted and bolted. Case hardened gears supported on shaft, both ends of which run in hardened steel bushings. Has perfect oiling method and double supporting bracket. Gives a clear and wonderfully effective warning signal.

NO.	Finish	Wt. Each	EACH
114A	All Black	4½ lb.	$6.25



Entirely enclosed in its own case. Shaft can not get out of alignment. Runs at highest speed with a small amperage. Large brushes, thrust bearings, ample lubrication, large push button.

Gives a clear, loud warning signal, the tone of which may be varied by adjusting the sounding button.

NO.	Finish	Voltage	Wt. Ea.	EACH
136G-6	Blk and Nic	6	6½ lb.	$10.25
136G-12	Blk and Nic	12	6½ lb.	10.25

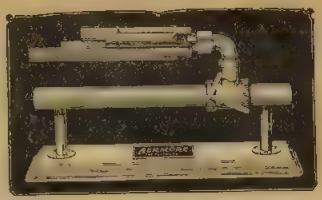
Exceptionally vibrant and penetrating. The plunger, set at a 45-degree angle, is convenient to operate. The interior mechanism is remarkably simple and wear-proof. Large vibrator wheel is mounted with a ratchet on a central shaft. Teeth cut in this shaft engage the teeth of the push rod and operate the signal. Furnished with bracket.

NO.	Finish	Wt. Each	EACH
151A	Black	— lb.	$4.75

A real electric motor driven warning signal at a remarkably low price.

NO.	Finish	Volts	Wt. Each	EACH
136E-6	Black	6	— lb.	$10.25
136E-12	Black	12	— lb.	10.25

AERMORE HORNS



Built on the pipe organ principle. The four tones sounded together produce a pleasing chord easily heard over the din of traffic or in the country.

Easily installed, nothing to get out of order. A great favorite with discriminating motorists.

The Aermore is rapidly becoming very popular with tractor owners who find it just the signal for their purposes.

NO.	Length	H. P. Car	Wt. Each	EACH
0	17 in.	40	4¾ lb.	$12.00
1	15 in.	30 to 40	3¾ lb.	12.00
2	13 in.	20 to 30	3¼ lb.	9.50
3	11 in.	All Light	3 lb.	8.50

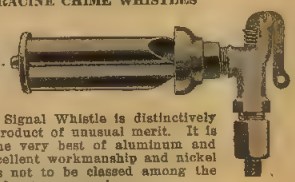
State size of exhaust pipe, O. D. measurement

RACINE SIGNAL WHISTLES

The Signal Whistle is distinctively a high-class product of unusual merit. It is made from the very best of aluminum and bronze, of excellent workmanship and nickle plated finish, and is not to be classed among the cheap grade of auto accessories.

NO.	Tone	Conn. Size	Wt. Each	EACH
35	Single	⅛ in.	¾ lb.	$3.50

RACINE CHIME WHISTLES



The Chime Signal Whistle is distinctively a high-class product of unusual merit. It is made from the very best of aluminum and bronze, of excellent workmanship and nickel plated, and is not to be classed among the cheap grade of auto accessories.

NO.	Tone	Conn. Size	Wt. Each	EACH
45	Chime	⅛ in.	1 lb.	5.00

AUTO WHISTLE ATTACHMENTS

NO.	Size Plug	Wt. Each	EACH
10½	⅛ in.	4 oz.	$0.50
10⅞	¼ in.	4 oz.	.50

AUTOMOBILE HORNS

KLAXON

The Klaxon warns unfailingly. Its powerful, penetrating note gets instant attention, instant action wherever, whenever sounded.

There is a motor driven or hand operated Klaxon—durable, good looking and easy to install—for every type of car, truck and motorcycle. There is a Klaxon that will meet your needs exactly, at just the price you want to pay. You will find it described and illustrated below.

The same mechanically as the Klaxon 6 but with a tapering "torpedo"-shaped projector for underhood installation. Furnished without wires and without push button but with brackets for installation on Ford, Buick and Maxwell cars. Black finish only. Projector 4½ inches.

NO.	Volts	Cars	Wt. Each	EACH
5D	12	Dodge	4¾ lb.	$7.00
5F	6	Ford	4¾ lb.	7.00
5M	6	Maxwell	4¾ lb.	7.00
5C	6	Chevrolet	4¾ lb.	7.00
5B	6	Buick	4¾ lb.	7.00

A powerful signal for underhood installation. Furnished in a black finish only. Projector 7½ inches long.

NO.	Volts	Car	Wt. Each	EACH
12L-6	6	Any 6 V Battery	5½ lb.	$15.00
12L-12	12	Any 12 V Battery	5½ lb.	15.00

Horizontal Push

This horn operates on the same principle as the electric Klaxon, except that the cam is rotated by a train of gears instead of by a motor. Projector 7½ inches long.

NO.	Finish	Wt. Each	EACH
8	All Black	4½ lb.	$5.00

Slightly smaller in size than the Klaxon 12. It is nevertheless powerful in tone and sturdy in construction. Just the signal for smaller cars. Projector 5 inches long.

NO.	Volts	Car	Wt. Each	EACH
6-6	6	Any 6 V Battery	5 lb.	$7.75
6-12	12	Any 12 V Battery	5 lb.	7.75

King among automobile warning signals. Its deep, powerful note and handsome appearance add the final touch of dignity to the well groomed car. Furnished also with special bracket for installation on Cadillacs. Furnished in black enamel only.

NO	Volts	Car	Wt. Each	EACH
20S-6	6	Any 6 V Battery	15½ lb.	$30.00
20S-12	12	Any 12 V Battery	15½ lb.	30.00
20L	6	Any 6 V Battery	15½ lb.	30.00
20C	6	Cadillac Special	15½ lb.	30.00

Vertical Push

Vertical push rod, in every other respect the same as Klaxon No. 8.

NO.	Finish	Wt. Each	EACH
8V	All Black	4½ lb.	$5.00

Crank Operated

Big and sturdily built; operated by a small revolving crank. This is a powerful hand operated instrument, and compares in this class to the best electrical instruments. Especially designed for heavy duty, such as heavy trucks, fire apparatus, ambulances, police patrols, etc. Projector 10 inches long.

NO.	Finish	Wt. Each	EACH
10	All Black	10 lb.	$12 00

For Ford Horns see Ford Section.

BOYCE MOTO-METERS

De Luxe

Designed for highest grade passenger cars, temperature tube is ½-inch in diameter, having broad column of red liquid readable at great distances, case is silver plated brass; entire instrument of highest quality workmanship

De Luxe Boyce Moto-Meters; size 3¼x5¾ in.; wgt 20 oz. Each $15.00

Universal

Slightly smaller than Standard model, finished in all nickel beveled crystal glass more easily read than a clock

Universal Boyce Moto-Meters; size 3x5 in., wgt 12 oz. Each $7.50

Ford Special

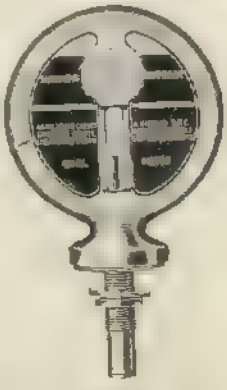
Especially adapted for Ford cars, very durable and handsomely finished

Ford Special Boyce Moto-Meters; size 2¾x5¼ in. wgt 7 oz. Each $3.50

Standard

Selected as regular equipment on leading cars; broad ribbon-like thermometer tube

Standard Boyce Moto-Meters; size 3¾x7½ in.; wgt 16 oz. Each $10.00



Junior

For cars of medium size; frame is heavily nickel plated, has same range of temperature as Standard and Universal models

Junior Boyce Moto-Meters; size 1x4⅞ in.; wgt. 8 oz. Each $5.00

Midget

Especially designed for small or light car use, combines accuracy with sturdiness of construction; fits on regulation radiator cap of all small cars

Midget Boyce Moto-Meters; size 2¼x4½ in. wgt 5 oz. Each $2.50

Truck and Tractor

Designed especially for severe service on trucks and tractors, diameter of thermometer tube ¾ inch throughout, protected frame of instrument very substantial, casing is nickel plated, tube has a broad red column of indicating liquid

Truck and Tractor Boyce Moto-Meters; size 2¾x4¾ in.; wgt 16 oz. Each $10.00

Overland Special

Designed especially for Overland cars having an oval radiator cap, such as on the Overland 4; when ordering specify Overland Model

Overland Special Boyce Moto-Meters; standard model. Each $10.00

Overland Special Boyce Moto-Meters; universal model Each 7.50

Overland Special Boyce Moto-Meters; junior model Each 5.00

Overland Special Boyce Moto-Meters; midget model. Each 2.50

Packed One in a Carton. First Class Freight.

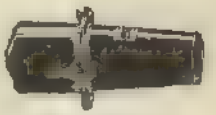
THE KLAXON LINE

Klaxon 20-L

In warning power, dependability, workmanship and finish this Klaxon has no equal. It is built for motorists who want the best horn that money can buy. Furnished with either universal or special Cadillac [illegible]
List Price [illegible] Each **$30.00**

Klaxon 12-A

This is the economy Klaxon—the Klaxon with the orange rim. Its deep, powerful, unmistakable note nearly matches the note of the Klaxon 20-L. Yet it costs only one third as much. Quality and reliability have not been sacrificed. The low price is due to a simplified construction requiring less labor and materials. Furnished with universal, underhood bracket for dash mounting. Black finish only.
List Price ..... Each **$10.00**



Klaxon 5 Ford

This Klaxon is like the Klaxon 6 but is equipped with a "torpedo" projector and a special bracket for installation under the hood on Ford cars factory equipped with self starters. Black finish only. A short wire is supplied.
List Price..... Each **$7.00**

Klaxon 6

This is a small but surprisingly powerful Klaxon for [illegible] cars. In spite of its low [illegible] it is thoroughly dependable in every way.
List Price... Each **$7.75**

Klaxon 12-L

A powerful warning signal, especially designed for use under the hood. Differs in construction from the Klaxon 12-A. Black finish only.
List Price..... Each **$15.00**

Klaxon 3

A really dependable hand-operated signal with the genuine Klaxon note. In every respect as carefully made as the electric Klaxons.
List Price [illegible] Each **$5.00**

Klaxon 3-V

This Klaxon is the same as the Klaxon 3 except that it has a vertical instead of a horizontal push rod.
List Price..... Each **$5.00**

Klaxon 20 Deck

This is a Klaxon 20-L with a swivel bracket for mounting [illegible] instrument board or [illegible] deck of a motorboat.
List Price [illegible] Each **$33.00**

Klaxon 12-S

[illegible] Klaxon 12-L with a [illegible] for installation [illegible] where [illegible] high room for the long projector. Black finish only.
List Price ..... Each **$15.00**

Klaxon 6 MC

An electric motorcycle Klaxon. Really a Klaxon 6 adapted to motorcycle use. It is furnished with either handle bar or frame bracket or with special Harley Davidson bracket.
List Price..... Each **$7.75**

Klaxon 10

This is a practically indestructible hand-operated signal with a powerful tone for use on trucks, fire apparatus, railway service cars and motorboats. Black finish only.
List Price ..... Each **$12.00**

Klaxon 6 Deck

A Klaxon 6 with a swivel bracket for mounting on an instrument board or on the deck of a motorboat.
List Price..... Each **$9.25**

Klaxon 5

This Klaxon is a Klaxon 6 with a "torpedo" projector, designed for use under the hood. Black finish only.
List Price..... Each **$7.00**

Klaxon 3-MC

A hand operated automobile Klaxon furnished with brackets for mounting either on handlebar, frame or tank of motorcycle.
List Price ..... Each **$4.75**

Klaxon 20-S

Mechanically this horn is identical to the Klaxon 20-L only instead of a long projector, it has a short one. There is practically no difference in tone.
List Price..... Each **$30.00**

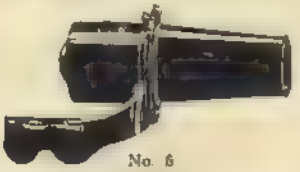
KLAXONS are regularly finished in black baked enamel. For special finishes such as black-and-brass, black-and-nickel, etc., add $1.00 to the list price. Electric Klaxons are operated either from dry cells or storage batteries. They are regularly wound for six volts. For special voltages up to 21 volts no extra charge is made.

Push buttons and wires are furnished only with Klaxon 20 instruments. Extra for Klaxon 12 models—$1.00 List; for Klaxon 5 and 6 models—$.75 List.

Klaxon 3-V-MC

This Klaxon is a Klaxon 3-MC with a vertical instead of a horizontal push rod.
List Price..... Each **$4.75**

Klaxon Horns, Ford Type



No. 6

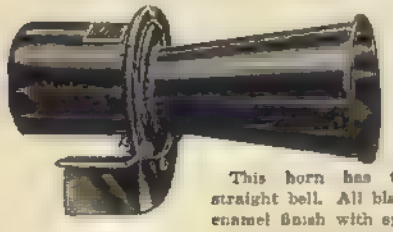
A motor driven safety signal for the Ford car

Made from highest quality material and finished in all black enamel

It is easily installed on all Ford cars equipped with self-starters. Wound for 6 volt battery.

Klaxon 5 Ford Special.....each, $8.00

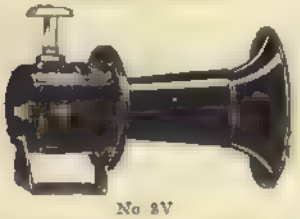
E. A. Motor Driven Horns



This horn has the straight bell. All black enamel finish with special bracket for attachment to Ford motor block. Used on Ford cars with storage batteries. Wound for 6 volt battery.

Model 9 E. A. Ford Special.....$7.00

Klaxon Horns



No 3V

A hand operated Klaxon safety signal with vertical push rod. Finished in the smart "Klaxon black" enamel. Easily attached to all Ford touring cars, runabouts and commercial cars.

Klaxon 3V .....each, $5.75

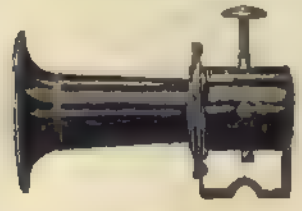
Klaxon Horns

No. 3

A hand operated Klaxon safety signal with horizontal push rod. Finished in the smart "Klaxon black" enamel. Easily attached to all Ford touring cars, runabouts and commercial cars

Klaxon 3 .....each, $5.75

E. A. Hand Horns



Hand actuated. Length 9½ inches. Black enamel finish.

Model A .....each, $4.50

Stewart Speedometers for Open Cars

The Stewart Instrument Board is made of wood, with black satin, egg shell finish. Anyone can install it in a minute's time. The lower edge rests tight against the steering column—eliminates every bit of vibration from the steering wheel.

You can install on the Stewart Instrument Board, a clock, headlight control, priming lever, starting control, and any other accessories you desire.

Model 160B Complete with Model 160A speedometer, 60 mile capacity, 100,000 mile season register and 100 mile trip register.each, $16.25

Stewart Speedometers
Instrument Board Type

Especially designed for easy installation on the instrument board which is now built into the Ford car.

It has 60 mile capacity rotating speed dial, 100,000 mile season odometer and 100 mile trip register, which can be reset to any mile. Has 3 inch dial face. Fully jeweled. Tungsten steel magnet. Black enameled flange. Complete with fittings and driving equipment.

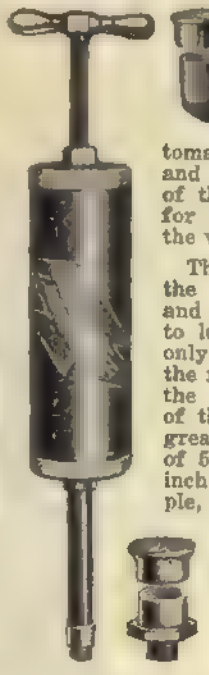
No. 160A Complete.....each, $15.00

Dash Type

Designed for Ford owners who do not desire an instrument board. Also suitable for Ford delivery cars and trucks. Equipped with adjustable bracket for dash installation. Has a three-inch dial face, sixty-mile rotating speed dial, 100,000 mile season and 1,000-mile trip odometer which resets to any mile or tenth of a mile. Fully jeweled. Tungsten steel magnet. Nickeled flange. Furnished with all fittings and driving equipment for Ford cars.

Model 160 D .....each, $15.00

Forc-Ful Lubricators

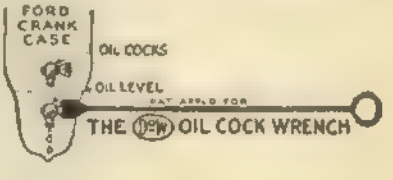


Forc-Ful lubricator outfits include a powerful screw plunger grease gun with automatically closed nozzle and fittings for all parts of the Ford car designed for lubrication, including the wheels.

These fittings replace the regular grease cups and when it is necessary to lubricate the car it is only necessary to screw the nozzle of the gun into the fittings and a stroke of the plunger forces the grease under a pressure of 500 lbs. to the square inch into every part. Simple, clean and efficient.

Outfit complete, gun and 11 connections. $7.75

Dow Oil Cock Wrenches



25 in. long. Finished in black enamel.

No. 1 Each $0.25

Fawco Oil Cock Wrenches

This tool serves the threefold purpose of oil cock wrench, pet cock cleaner and gasoline gauge. A low priced convenience that every Ford owner should have.

Fawco Oil Cock Wrench.....each, $0.45

Ball Joints

Used very extensively for connecting carburetors and timers with levers on steering wheel; in fact, anywhere a flexible right angle joint is required. Is supplied with cotter pin hole and V thread. Threaded end ⅜-32. Tapped end ⅜-32.

No. 3526 Each $0.10

Oil Gauges

Indicates the height of the oil in the crank case. Remove lower pet cock in the crank case, then insert the pipe nipple, attach gauge on other end of nipple. Insert pet cock in front opening and gauge is ready for use. Glass is heavy and is ⅝ inch in diameter.

No. 41 With brass protector .....each, $0.35

Gasoline Gauges

This is the best and most reliable gauge on the market. It is constructed so that all friction is eliminated by the use of a ball-bearing metallic float operating in a concave track; therefore it registers accurately and tells at a glance the amount of gasoline in tank. Is instantly installed by simply discarding filler cap and inserting gauge.

No. 75 For Ford cars, each, $1.25

One Dozen in a Box

Connecting Rods

Made of a special alloy steel, heat treated forging, accurately machined so that all parts are interchangeable. High grade tin base babbitt bearings. The babbitt metal is applied under pressure, giving friction resisting quality.

No. 3024.....each, $2.50

Tribune Babbitting Jigs

For Ford Motors

The Tribune Babbitting Jig is a simple efficient tool for rebabbitting Ford connecting rods. They will do this work quickly, accurately and economically. The average mechanic can rebabbitt eight or ten rods an hour with this simple jig.

Each $1.75

Babbitting Metal for Ford Connecting Rods

Designed for the most severe duty. Contains no lead. Has a great resistance to crushing strain and is particularly adapted to automobile bearings and connecting rods.

Prices on Application

Kingston Carburetors

For Ford Cars

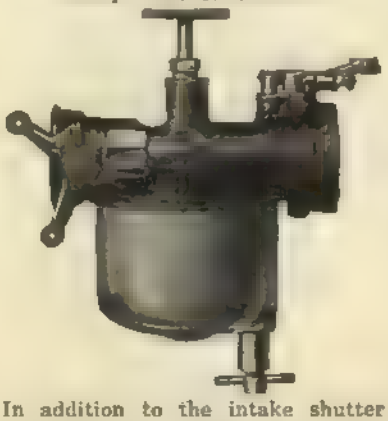
These carburetors are constructed so as to thoroughly impregnate all air with atomized gasoline directly at the nozzle and at the point of highest air velocities. This is the reason that the Kingston carburetor can be throttled down to a speed as slow as walking and accelerated to 40 miles per hour in 20 seconds and every cylinder doing its full share of work all the time.

Model L2.....each, $6.00

Repairs for Kingston Carburetors

No. 6101A Float Assembly..each, $1.00
No. 6115 Spray Needle Assembly .....each, .50

Holly Ford Carburetors



In addition to the intake shutter it has a primary air passage that lifts the cold fuel off the nozzle into the main air stream insuring ease in starting. The inlet needle is detachable and can be easily replaced in a few minutes. The inlet needle and float are made entirely of metal and are impervious to the effects of acids or impurities in gasoline.

Model NH.....each, $6.00

Repairs for Kingston Carburetors

No. 4451A Float with lever.each, $1.00
No. 4452A Spray Needle Assembly .....each, .25

Sunderman Vacuum Carburetors

The Sunderman Carburetor changes gasoline from a liquid to a highly explosive vapor by a combination of terrific air force, vacuum and screen.

No. 1 For Ford cars.....each, $6.00

Rayfield Carburetors

For Ford Cars

A new Rayfield carburetor for Ford cars of the plain tube type that brings forth all the economy, power and speed that is possible to procure in the Ford motor. There are no loose fittings to adjust or readjust, the carburetor having but two adjustments, one for low and one for intermediate speeds. The predominant feature of this carburetor is the thermostatic hot air control principle which is involved in its construction, making it an absolute impossibility to overheat the Ford motor. Easier starting, quicker pickup, increased power and uniformity of performance are made certain.

Complete with all necessary fittings .....each, $18.00

Stromberg Ford Carburetor

This is the new style Stromberg Carburetor made especially for Ford cars. Fits in the same position as the carburetor that comes with the Ford car. Can be put on in a short time with wrench and pliers.

Comes complete with housing, tubing and steering post control.

Model LF ⅝ in. complete..... $24.00
High speed adjusting needle. . . . 1.25

*KNIGHT PORTABLE CIRCULAR SAW MILLS

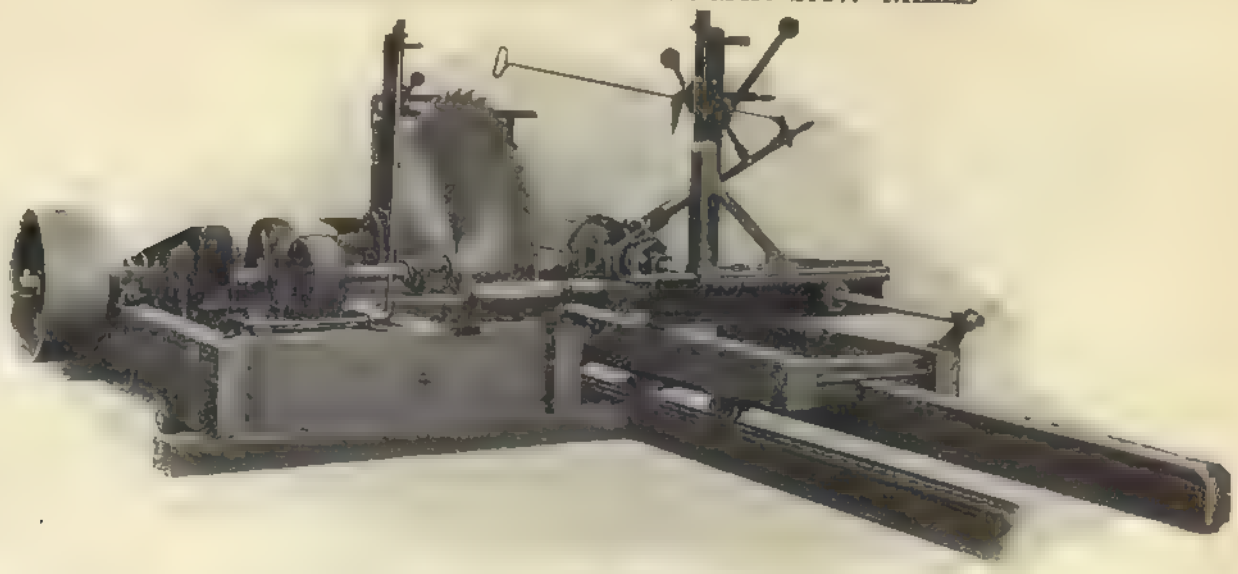


Fig. D1504

Style T with Style C1 Head Block, Ideal Single Mill Dog, No. 1 Ideal Single Ratchet Set Works and Belt Feed Husk

All Knight circular saw mills are equipped with variable belt feed works, which has a tightener pulley directly connected to the sawyer's lever and controls the feed to suit the power of the engine, and the kind of timber to be sawed. Can be quickly changed within a range from 0 to 3¼ inches for the smallest mills up to 0 to 5¼ inches on the largest size mills, by allowing the feed belt to slip over the pulleys. The fast operating gig back increases the daily output of mills in a given time by reducing the time required in gigging back, which is always a loss of time. Mountings for the different sizes of mills are as follows: S has two style C1 36 inch opening head blocks, two pony excelsior mill dogs and No 1 single ratchet set works. T has two style C1 36 inch or 42 inch opening head blocks, two No. 1 Ideal single mill dogs and one No 1 single ratchet set works. T½ has two style A1 36 inch or 42 inch opening simultaneous or taper movement head blocks, two No 1 Ideal single mill dogs and one No 2 single ratchet set works. U has two style C1 36 in or 42 inch opening head blocks, two No 1 Ideal single mill dogs and one No 2 single ratchet set works. V has two style A1 36 inch or 42 inch opening simultaneous or taper movement head blocks, two No 2 Ideal single mill dogs, one No 2 double ratchet set works. Frames of husks and carriage are built of long leaf yellow pine lumber securely bolted. Irons for track. All carriages 16 feet long and with wood drum. Cable drive attachment, unless otherwise specified, but no way timbers.

Sizes and Specifications

Sizes	S	T	T½	U	V
Price with 36 inch head blocks, no saw or way timbers carriage 33 inches wide, each	$577.00	$702.00	$817.00	$876.00	$1355.00
Price with 42 inch head blocks, no saw or way timbers, carriage 42 inches wide, each	...	724.00	834.00	892.00	1372.00
Husk length, feet	6¼	6½	6⅝	7⅛	8
Husk width, feet	3	4	4	4½	5⅛
Mandrel length, inches	55	65	65	74	82
Mandrel diameter, inches	2⅛	2⅞	2⅞	2⅞	3⅛
Extension mandrel, inches	...	...	...	2⅞ x 74	3⅛ x 82
Top saw mandrel, inches	...	...	...	2 x 64	2¼ x 70
Drive pulley, inches	20 x 10	20 x 12	20 x 12	22 x 12	24 x 14
Lumber rolls, inches	...	...	...	...	4 x 20
Gig back, inches	9¾	9¾	9¾	11½	13
Gig back, feet per minute	500	490	490	660	580
Feed belt width inches	4	4	4	...	6
Top saw belt width, inches	...	...	...	...	8
Gig frictions, width, inches	...	...	...	...	6
Roller wedge diameter, inches	...	...	...	...	14
Feed shaft diameter, inches	...	...	...	...	1⅜
Feed per revolutions of saw	0 to 3¼	0 to 3¼	0 to 3¼	0 to 4½	0 to 5¼
Largest admissible saw, single mill	56	60	60	62	64
Largest admissible saw, double mill	...	...	...	60 bottom, 30 top	62 bottom, 30 top
Carriage timbers size, inches	4 x 6	4 x 6	4 x 6	5 x 6	6 x 6
Truck wheels diameter, inches	7	8	8	9	10
Shipping weight pounds	2750	3360	3560	4520	5845
Maximum capacity per day feet	5000	9000	9000	11500	20000
Horsepower capacity	5 to 15	10 to 25	10 to 25	20 to 35	35 to 60

Rack and pinion drive can also be furnished with any of above mills.
All mills are made right or left hand. Right hand will always be shipped unless left hand is specified.
Saws and main belts are not included with mills unless specified in the order as extras.
Where a mill is ordered without saw be sure to give size of saw to be used; also speed of engine and size of drive pulley; also speed for which saw to be used is hammered.
Saw swage is furnished with all solid tooth saws ordered with mills, but not with inserted tooth.
Special saw mill machinery catalog sent upon request.
*Not carried in stock; will ship from factory.

SWING CUT-OFF SAWS

KNOXVILLE

Fig. D1505

The frame of No. 1 is cast iron with pipe sides, which are held in top yoke by set screws, making the frame adjustable. The No. 2 has cast iron frame with flat steel sides. Both frames are rigid and have a counterbalance weight. The weight of the frame is supported by the boxes and not by the shaft. Hangers can be bolted to a joist or post. Swing 6 to 7 ft.; 10x15 in. tight and loose pulleys; 18x5 in. drive pulley; 5x5 in. mandrel pulley.

Without Saws or Belt

Takes saw with 1¼ in. hole up to 20 in. diameter.

No. 1. Weight 420 pounds .....each, **$120.00**

No. 2. Weight 455 pounds .....each, **120.00**

CIRCULAR SAW MANDRELS

Fig. D1506

Cut illustrates pulley outside boxes

Pulley Outside or Inside of Boxes

Nos.	1	2	3	4	5	6
Each	$8.00	8.50	9.50	10.75	12.50	14.00
Length, in.	16½	19	21½	24	26	28
Arbor, dia., in.	1⅞	1⅞	1⅞	1⅞	1⅞	1⅞
Pulley, dia., in.	3	3	3	3½	4	4½
Pulley face, in.	3	3½	4	4½	5	5½
Collars, dia., in.	3	3	3½	3½	4	4
Saw hole, in.	1	1	1⅛	1⅛	1¼	1¼
For saw, in.	6 to 12	14 to 18	20 to 24	26 to 28	30 to 32	34 to 36
Weight, lbs.	18½	20	27½	30½	35½	40

*PLANER AND WOOD WORKING KNIVES

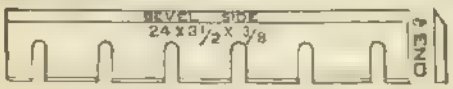


Fig. D1507

Made of best quality crucible alloy steel, specially tempered.

Prices of 12 Inch Long or Less, 4 Inch Wide or Less, ⅜ Inch Thick or Less

2 inch long or less.....each, **$2.00**
Over 2 in. to 4 in. long.....each, **2.40**
Over 4 in. to 6 in. long.....each, **3.00**
Over 6 in. to 12 in. long per linear inch..... **.48**

If over 4 to 5 inches wide increase ⅛ for each additional inch or fraction thereof.

If over 5 inches wide, price on application

PLANER KNIVES

Over 12 to 31 inches long, 4 inches wide or less, ⅜ inch thick or less.....per linear inch, **$0.42**

Advance for Extra Thickness

Over ⅜ to ⅞ in., 10%; ⅜ to ⅝ in., 20%; ⅞ to 1½ in., 15%; ⅝ to ¾ in., 25%.

In ordering, please send drawing, giving length, width and thickness of knives. If required for head with movable bolts, state number and size of slots. If for head with stationary bolts, furnish accurate sketch of size and location of slots.

*Not carried in stock; will ship from factory

*POWER BAND SAWS

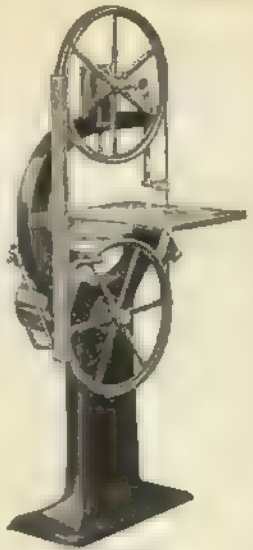


Fig. D1508

Equipped with an iron table planed smooth, and can be tilted for angle sawing up to 45 degrees by loosening a nut with an attached lever, and can be firmly locked when desired. Has upper wheel adjustment on same side of operator. Up and down adjustment of upper wheel is below. Wheels are turned true and perfectly balanced. Rubber bands are securely cemented to rims. Upper wheel has up and down adjustment of several inches.

Regular Equipment

Two plain guides, brazing clamp and tongs, piece of brazing material and one blade ¼ in. wide ready for use.

No. 720. With saw blade 10 ft. long, ¼ in. wide; tight and loose pulley 7x3 in.; table 18x22 in.; wheels 20½ in. diameter, 1⅜ in. face. Base 11½x23 in. floor space 24x30 in.; distance between saw and frame 20½ in.; height under saw guide, when raised 9 in.; height over all 67 in. Power required 1 to 2 horsepower, speed 300 to 400 r. p. m. Weight 390 pounds .....each, **$95.00**

Wright's Non-Friction Roller Saw Guide.....extra, **8.00**

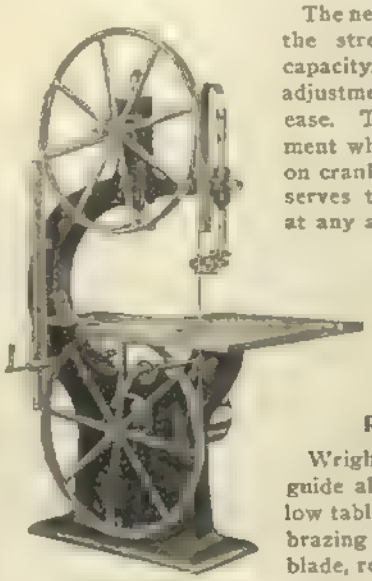


Fig. D1509

The new shape of frame increases the strength and gives greater capacity. Belt can be shifted and adjustments made by operator with ease. Table is attached to segment which is worked by a pinion on crank shaft. Small hand wheel serves to loosen or fasten table at any angle up to 45 degrees.

Belt shifter can be used either above or below pulleys. Wheels turned true, balanced, and with rubber band cemented to face.

Regular Equipment

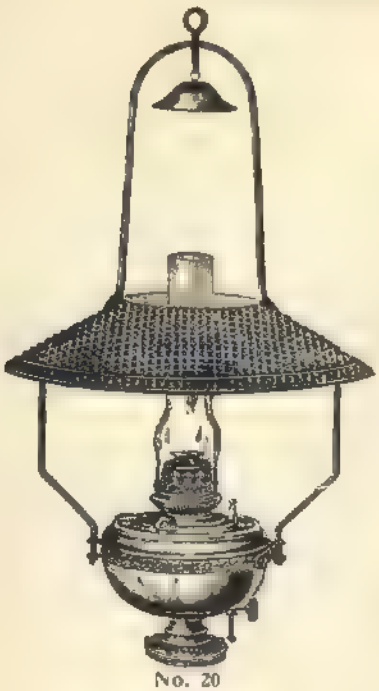
Wright's non-friction roller saw guide above table, plain guide below table, brazing clamp and tongs, brazing material and ¾ in. wide blade, ready to use. Choice of any blade up to 1 inch wide.

No. 824. With saw blade 18½ ft. long, ¾ in. wide; tight and loose pulleys 12x4 in.; table 31x38 in.; wheels 36½ in. diameter, 2 in. face. Base 18x39 in.; floor space 39x57 in.; height under saw guide when raised, 16 in.; height over all 93 in. Power required 2½ to 4 horse, speed to run 300 to 400 r. p. m. Weight 1390 pounds.....each, **$250.00**

Ripping Gauge .....each, **18.00**

*Not carried in stock; will ship from factory

STORE LAMPS



No. 20

MAMMOTH JUPITER

Corrugated Tin Shade

Central draft, No. 3 Jupiter chimney and wick.

Furnishes an intense white light with a small amount of heat.

The shade has a diameter of 20 inches.

No. 20. Weight per dozen 140 pounds, ... each, **$12.50**

One in a carton

MAMMOTH JUPITER

With Opal Dome

Central draft, No. 3 Jupiter chimney and wick

First class material and workmanship

The dome has a diameter of 14 inches

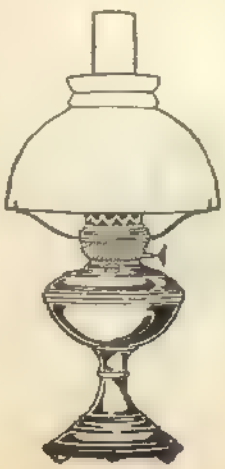
No. 25. Plain polished brass, weight per dozen 140 pounds. . . . . each, **$15.80**

No. 30. Nickel plated brass, weight per dozen 140 pounds. . . . . each, **$15.50**

One in a carton

Extra Domes. 14 inches . . . . . per dozen, **$4.00**

Nos. 25 and 30



No. 2

STAND LAMPS

SUCCESS

All brass, nickel plated, complete with No. 2 Success chimney and wick and 10 inch opal dome.

Furnishes 100 candlepower light for 15 hours with one quart of oil.

A very attractive, useful and durable lamp.

No. 2. Complete as described, weight per dozen 70 pounds, ... per dozen, **$68.00**

One half dozen in a case

KITCHEN LAMPS

Eureka

EUREKA

Glass fount, tin reflector.

Frame made of best quality steel finished in enamel

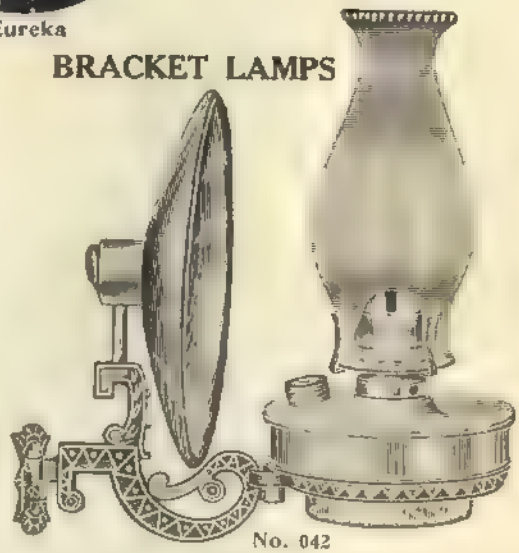
Reflector is 7½ inches diameter.

Glass fount is fitted with No. 2 burner, chimney and wick.

No. 2. Complete as described, weight per dozen about 30 pounds. . . . . per dozen, **$10.00**

In boxes of one half or one dozen, as ordered

BRACKET LAMPS



No. 042

Glass fount with outside filler, No. 2 Banner burner, chimney and 7 inch silvered glass reflector. Finished in French bronze. Projection 11 inches

No. 042. Complete, weight per dozen about 75 pounds, ... per dozen, **$27.00**

One half dozen in a case

No. 053½

Glass fount with outside filler, No. 2 Banner burner, chimney and 10 inch silvered glass reflector. Finished in French bronze. Projection 12 inches.

No. 053½. Complete, weight per dozen about 90 pounds . . . . . per dozen, **$37.00**

One half dozen in a case

COLEMAN QUICK-LITE GASOLINE LAMPS AND LANTERNS

Light with a match, no other generating required. Gives a brilliant 300 candle power, strong, pure white light. Safe, no danger if upset as fuel cannot spill. Clean, no greasy wick, no dirty chimney and no odor. Costs only 1 cent for 3 hours' use. Burns 18 hours on one filling. Holds 3 pints. Is made of brass and heavily nickel plated.

QUICK-LITE GASOLINE LAMPS

No. CQ329

With Special Design Opal Shades

No. CQ329 Quick-Lite Lamp. Is the standard lamp equipped with a shade which has been especially designed for Quick-Lite lamps. It is ornamental and a splendid value. In this shade breakage is reduced to a minimum because of the large panels. The weight and quality of glassware used and the new special design produce uniform heat expansion. Complete with mantles, pump, wrench, hanger, cleaning pick, and extra generator. Shipping weight 10 pounds.....each, **$13.50**

One in a carton

Shade No. 329

No. 329, opal shade, is designed especially for the Quick-Lite. It is artistic and durable. A splendid value, the standard shade for Quick-Lites

No. 329. Shades .....each, **$1.80**

*QUICK-LITE GASOLINE CHANDELIERS

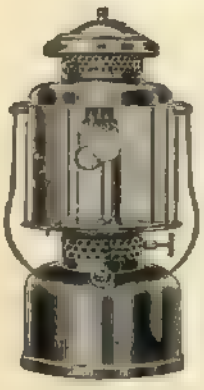
PQ307

Opal Ribbed Shades

No. PQ307. Specially designed for use in churches and stores. Complete with mantles, pump, wrench, pick and two extra generators. Shipping weight 16 pounds....each, **$25.00**

One in a carton

QUICK-LITE GASOLINE LANTERNS



No. LQ327

With Mica Chimney and Reflector

No. LQ327 Quick-Lite Lantern gives 300 candle power, lights with a match through a door in the reflector.

The Quick-Lite is windproof, rainproof and bugproof. It is guaranteed to burn in any storm and will go right on shining in hundreds of places where a common oil lantern is useless. Made of brass, nickel plated and will last for years.

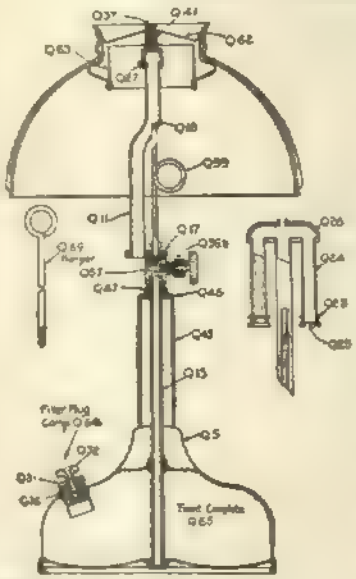
Complete with chimney, mantles, pump, wrench, cleaning pick and extra generator. Shipping weight 6 pounds .....each, **$11.50**

One in a carton

*Not carried in stock; will ship from factory.

QUICK-LITE GASOLINE LAMP REPAIRS

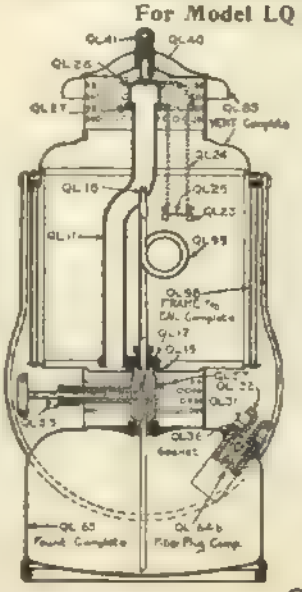
For Model CQ Quick-Lite Lamps



No. of Part	Name of Part	Each
Q11	Burner support tube only	$0.60
Q17	Burner support casting	.20
Q18	Gas tips	.10
Q23	Burner cap complete	.30
Q24	Burner tube	.20
Q25	Burner cap screen, 2 for	.10
Q26	Mixing chamber	.80
C32	Air stem	.30
C36	Lead gaskets, 2 for	.10
Q41	Shade holder screw	.10
C45	Handle	.40
C46	Fibre handle cap	.10
C47	Handle lock nut	.10
Q56b	Valve stem and nut	.40
Q57	Valve complete	1.00
Q63	Universal shade holder	.40
C64b	Filler plug complete	.80
C65	Fount with filler plug	7.50
Q69	Hanger	.10
Q70	Burner, generator and valve assembled	4.00
Q99	Generator complete	.50
CQ	Wrench	.20

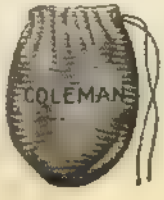
QUICK-LITE GASOLINE LANTERN REPAIRS

For Model LQ Quick-Lite Lantern



Burner and generator parts same as Model CQ Quick-Lite lamp.

No. of Part	Name of Part	Each
LQ19	Burner frame washer	$0.10
LQ32	Air stem	.30
LQ36	Lead gasket, 2 for	.10
LQ40	Ventilator rod	.10
LQ41	Ventilator ball nut	.10
LQ55	Valve stem and nut	.40
LQ57	Valve complete	1.00
LQ64b	Filler plug complete	.80
LQ65	Fount with filler plug	6.00
LQ70	Complete burner, valve and generator	3.50
LQ85	Ventilator	2.40
LQ98	Frame and bail, complete	1.60
CQ	Wrench	.20



COLEMAN JUNIOR RAG MANTLES

For Quick-Lite Lamps and Lanterns

Made with a reinforced bottom from Egyptian long fibre thread.

No. 41. Length 2½ inches, for Quick-Lite lamps and lanterns and all other gasoline lamps using two or more junior size mantles.....per dozen, **$1.80**

Lane's Super Unique Socket Wrench Sets

Consists of seventeen pieces as follows:
1—9 in. drop forged ratchet wrench.
1—8 in. extension bar with fixed socket.
15—Case hardened steel sockets with broached hex. openings, ⅛ to 1¼ in.

This set has sockets for all regular S. A. E. caps, screws and hexagon nuts. Its range on U. S. S. cap screws is from ¼ to 1 in. and hex. nuts from ¼ to ¾ in. (except ⅜ in.).

Set is packed complete in a strong hardwood box. Weight 6 lbs.

Super unique, set complete.....$12.00

Lane's Style "S" Ratchet Socket Wrench Sets

Formerly Lane's Standard Set. An ideal set for every car owner and mechanic. Contains ten pieces.
1—7 in. reversible ratchet wrench.
2—Screw driver bits.
7—Sockets which fit all S. A. E. and U. S. S. sizes as listed.

Socket No.	Broached Hex. Open	Hex Nuts U. S. S.	Hex Nuts S. A. E.	Cap Screws U. S. S.	Cap Screws S. A. E.
1	½	¼	16	¼	7/16
2	7/16	..	5/16	5/16	5/16
3	5/16	3/8	..	..	..
4	3/8	..	7/16	7/16	1/2
5	11/16	5/16	..	..	..
6	5/8	..	1/2	1/2	1/2
7	7/8	1/2	9/16	9/16	5/8

Packed in strong black Keratol case, weight 23 oz.

Style "S" Set, complete.....$4.00

Lane's Style "F" Ratchet Socket Wrench Sets

Formerly Lane's Ford set. Consists of ten pieces.
1—7 in. reversible ratchet wrench.
1—6 in. extension bar.
6—Sockets to fit all hex. nuts, cap screws and cylinder heads on Ford engine.
2—Screw driver bits.

Socket No.	Broached Hex. Open	Hex Nuts U. S. S.	Hex Nuts S. A. E.	Cap Screws U. S. S.	Cap Screws S. A. E.
1	½	¼	7/16	7/16	7/16
2	7/16	..	5/16	5/16	5/16
3	5/16	..	7/16	7/16	7/16
4	3/8	..	..	..	..
5	11/16	5/16	..	..	..
6	5/8	..	1/2	1/2	1/2
7	7/8	1/2	9/16	9/16	5/8

Packed in strong black Keratol case, wt. 28 oz.
Style "F" Set, complete.....$4.00

Big Ten Wrench Sets

Consists of ten wrenches adaptable for 78 different purposes.

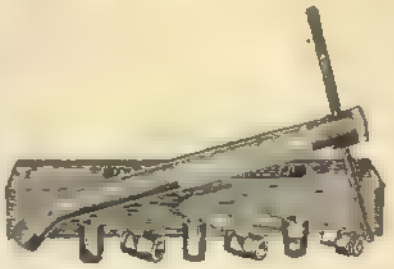
This is an excellent set for garages as it will cover almost every requirement.

Packed in a canvas roll. Consists of following wrenches, semi-finished.

No.	S. A. E. Nuts and Cap Screws	U. S. S. Nuts Bolt Size	U. S. S. Cap Screws Diam.	Length	Each
721	.....	1/8	1/8 & 7/32	3 1/2	$0.17
23	7/32	7/32 & 1/4	7/32	4	.21
726A	1/4 & 5/16	..	1/4 & 5/16	4 3/16	.25
[redacted]	..	5/16 & 3/8	..	5 3/16	.31
729	1/4 & 1/2	..	1/4 & 1/2	6 5/16	.37
731D	7/32	1/4	5/16 & 3/8	7 3/16	.45
32	.....	7/16 & 1/2	..	8 3/16	.53
33C	5/16 & 11/32	..	3/4	8 3/16	.65
737	3/8	3/4	7/8 & 1	11 5/16	.96
738	7/16 & 1	5/8 & 7/8	..	13 1/2	1.40

No. 10 Set, complete.....$5.22
Canvas roll..... extra, .60

Billmont Master Wrench Sets



The Billmont Master Wrench is adaptable for use wherever there are nuts and bolts to be tightened or loosened. It has the universal Billmont nose piece, a special ring in the socket holder permitting any size Billmont socket to be easily snapped in or removed. The nose, turned at an angle at the end of a long straight shank makes it easy to reach most difficult places.

The heavily nickeled and knurled outer steel tube is stationary, offering a firm grip. The solid T bar handle slides back and forth to pass any obstruction and gives tremendous power. All exposed parts are Parkerized, giving lasting life and utility.

No. 1 Master wrench set contains
1—Master wrench.
1—Standard socket adapter.
5—Interchangeable sockets, 7/16, ½, 9/16, 11/16, 5/8 hexagon.

Packed complete in a wooden case.

No. 1 Set, complete $10 50
No. 0 Master wrench only.. . . . . 8.00

Billmont Master Wrench Sets

The Billmont Master Wrench Set No. 100 is complete and especially suitable for garage work, as the great variety of sockets cover almost every requirement. Consists of following:

1—Master wrench.
1—Socket adapter.
24—Interchangeable sockets, 3/8, 11/32, 7/16, 13/32, 1/2, 17/32, 9/16, 19/32, 5/8, 21/32, 11/16, 3/4, 25/32, 13/16, 7/8, 15/16 and 31/32 hexagon, and 7/16, 1/2, 9/16, 11/16, 5/8, 11/16 and 3/4 square.

Packed complete in a wooden case.

No. 100 Set, complete.....$20.50

Standard Automotive Wrench Sets

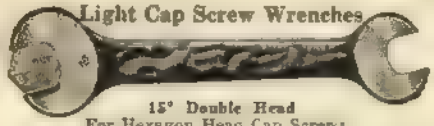
With Openings for Popular S. A. E. and U. S. Standard Nuts and Cap Screws

Any number of individual wrenches may be selected from the following list.

No.	Openings Milled	For S. A. E. Standard Nuts and Cap Screws	For U. S. Standard Nuts	For Cap Screws	Extreme L'xth	Thickness Heads	Semi-finished
725	7/32 & 1/2	1/4 & 7/16	1/4	1/4 & 7/16	4 7/8	3/32	$0.25
727	7/32 & 5/8	5/16 & 9/16	..	5/16 & 7/16	5 7/8	7/32	.31
731A	3/4 & 7/8	1/2 & 9/16	1/2	1/2 & 5/8	7 3/4	9/32	.45
33C	11/32 & 1	5/16 & 11/32	.....	3/4	8 3/4	7/32	.55
37	1 1/32 & 1 1/4	3/4 & 7/8	5/8 & 3/4	1	11 1/2	3/8	.96

No. 5-S Set $2.52
Roll ..... extra, .45

Light Cap Screw Wrenches



15° Double Head
For Hexagon Head Cap Screws

No.	Diam. Screws Inches	Length Inches	Semi-finished
721	1/8 & 5/32	3 1/2	$0.17
722	1/8 & 1/4	4	.21
723	5/32 & 1/4	4	.21
723A	5/32 & 5/32	4	.21
725	1/4 & 5/32	4 7/8	.25
725A	1/4 & 3/8	4 7/8	.25
725B	5/32 & 3/8	4 7/8	.25
726	5/32 & 7/32	5 7/8	.31
727	3/8 & 7/32	5 7/8	.31
728	3/8 & 1/2	6 7/8	.37
729	7/32 & 1/2	6 7/8	.37
730	7/32 & 5/32	7 3/4	.45
731	1/2 & 5/32	7 3/4	.45
731A	1/2 & 5/8	7 3/4	.45
731B	5/32 & 5/8	7 3/4	.45
732	5/32 & 3/4	8 3/4	.55
733	5/8 & 3/4	8 3/4	.55
734	5/8 & 7/8	9 3/4	.68
735	3/4 & 7/8	9 3/4	.68
736	3/4 & 1	11 5/8	.96
737	7/8 & 1	11 5/8	.96
738	7/8 & 1 1/8	13 1/2	1.40
739	1 & 1 1/8	13 1/2	1.40
739A	1 & 1 1/4	13 1/2	1.40
739B	1 1/4 & 1 1/4	13 1/2	1.40

Double Head Thin Wrenches

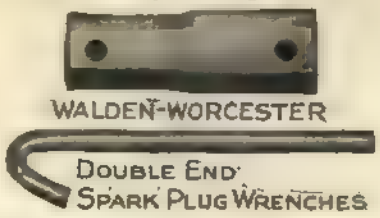
No.	For S. A. E. Standard Nuts Inches	Length Inches	Semi-Finished
623D	1/8 and 5/32	4 5/8	$0.25
626S	5/8 and 7/16	5 1/2	.32
629E	1/2 and 7/16	6 7/8	.40
632X	5/8 and 11/32	8 1/2	.56
637	3/4 and 7/8	10 3/8	.84

Engineers' Double Head Wrenches

15° angle, double head, with opening for U. S. standard finished nuts.

No.	Bolt Sizes	Milled Openings	Length Inches	Semi-finished Each
21	1/8 & 5/32	5/32 & 11/32	3 1/2	$0.17
22	1/8 & 1/4	5/32 & 1/2	4	.21
23	5/32 & 1/4	11/32 & 1/2	4	.21
24	5/32 & 5/32	11/32 & 11/32	4 7/8	.25
25	1/4 & 5/32	1/2 & 11/32	4 7/8	.25
26	1/4 & 3/8	1/2 & 13/32	5 7/8	.31
27	5/32 & 3/8	11/32 & 13/32	5 7/8	.31
28	5/32 & 7/32	11/32 & 15/32	6 7/8	.37
29	3/8 & 7/32	13/32 & 15/32	6 7/8	.37
30	3/8 & 1/2	13/32 & 7/8	7 3/4	.45
31	7/32 & 1/2	15/32 & 7/8	7 3/4	.45
32	7/32 & 5/32	15/32 & 31/32	8 3/4	.55
33	1/2 & 5/32	7/8 & 31/32	8 3/4	.55
34	1/2 & 3/8	7/8 & 1 7/32	9 3/4	.68
35	5/32 & 3/8	31/32 & 1 7/32	9 3/4	.68
36	5/32 & 1/4	31/32 & 1 1/4	11 1/2	.96
37	3/8 & 1/4	1 7/32 & 1 1/4	11 1/2	.96
38	3/8 & 7/16	1 7/32 & 1 7/32	13 1/2	1.40
39	1/4 & 7/16	1 1/4 & 1 7/32	13 1/2	1.40
40	1/4 & 1	1 1/4 & 1 5/8	15 1/2	1.90
41	7/16 & 1	1 7/32 & 1 5/8	15 1/2	1.90

Double End Spark Plug Wrenches



Pressed steel, case hardened, two sizes in one, 10 in a box.

No.	Openings	Each
2931	13/16 and 7/8	$0.55
2933	13/16 and 1 1/16	.55
2937	7/8 and 1 1/16	.55
3137	13/16 and 1 1/16	.55

Spark Plugs Used On

No. 2931	No. 3137
All in One	AC Cleo
Auburn, Ford Size	AC Titan
Auburn, Long Heavy	AC Old Style
Benton	Auburn
B. G. Nonshortable	Benford's Golden
Breech Block	Bergie National
Brown	Bosch
Champion O	Giant Monarch
Champion Toledo	Goliath
Champion X	Jumbo Giant
Harvard	Kopper King
Kopper King	Leader Giant
Lisserty	Miller
Mosler	Rex Lion
Mosler Superior	Splitdorf No. 784
Perfection	Splitdorf No. 163
Ralph	Sterling
Red Head	Stewart V Ray
Redlex	Viking
Symonds	Vital
Splitdorf (Code No. 145)	

No. 2933

AC Cleo	Breech Block	Mosler
AC Titan	Brown	Norwalk
All in One	Dorf	Perfection
A. V. Regular	Fobat	Red Head
Benton	Herz Bougie	Sootless
Bethlehem	Mercedes	Splitdorf No. 145

No. 2937

AC Cleo	Goliath	Spitfire
AC Titan	Jumbo Giant	Splitdorf No. 163
AC Old Style	Leader Giant	Splitdorf No. 784
Benford's Golden	Metzger	Sterling
Giant Monarch	Miller	Stewart V Ray
Bergie National	Premier	Viking
Bethlehem	Rex Lion	Vital
Bosch	Reliance	

Magneto Wrench Sets

This is a real magneto wrench kit and should be in the possession of every garage man.

A useful kit put up in a folding canvas cover.

Consists of twelve tools (magneto wrenches, keys, screwdriver and a contact aligner).

Each wrench is stamped with the name of the magneto it will fit and the set will cover the following systems:

Bosch	Eiseman
Connecticut	Remy
Delco	Simms
Ford	Splitdorf

No. W6 .....per set, $2.50

Stadco Spark Plug Wrenches

Strong wrench made from highest quality refined malleable iron. A double end wrench that can be used on practically every spark plug.

	Each
No. 21	$....

Bonney Motor Stillson Wrenches

Bonney Motor Stillson wrenches have extra thin jaws closely milled with fine teeth and are the only wrenches of this type designed especially for use on automobiles and finely finished machinery.

Owners of automobiles, motorcycles, repairmen and garage men quickly appreciate the advantages of these wrenches.

Made from finest materials, exact and accurate in every detail. Made in four sizes. Packed in individual cartons.

Size In.	Type Wrench	Takes Round Part. In.	Length Open In.	Each
6	Motorcycle	1/8 to 5/8	6	$2.00
8	Automobile	1/8 to 7/8	8	2.25
10	Automobile	1/8 to 1 1/4	10	2.50
12	Motor Truck	1/4 to 1 1/2	12	3.00

One in a Box

Sextet-Rench Sets

This is a set of thin wrenches specially designed and made of 1/16 in. steel.

It consists of six double end wrenches, giving 12 sizes fastened together by a knurled thumb screw when not in use.

They are nickel plated and polished all over.

The smallest wrench is 2 1/2 in. long, the largest 4 1/2 in. long. The openings are the following sizes. Each size stamped on the wrench.

5/32 · 3/8 · 11/32 · 13/32 · 15/32 · 17/32
1/4 · 7/16 · 3/8 · 7/16 · 1/2 · 9/16

With each unit package of 15 wrenches a lithographed display stand 10 1/4 x 6 1/2 x 3 3/4 in. is furnished free. Wrenches packed inside the stand.

Sextet-Rench Sets... .each, $0.75

LENOX Neckwear for Men

MEN'S SILK OPEN-END FOUR-IN-HAND SCARFS

M5550—Open-end four-in-hand of multi-tone checked Silk, very effective patterns. 6 assorted colors to box of 1 doz. . Doz. **$2.00**

M5551—Brocade silk Open-end four-in-hand. Colored grounds with contrasting figures. 6 assorted colors to box of 1 doz. Doz. **$2.15**

M5552—Bronze Silk, open end four-in-hand. Black ground with contrasting multi-colored figures. 6 assorted colors to box of 1 doz Doz. **$2.15**

M5553—Plaid effect Brocade Silk, open-end four-in-hand. Very rich color combinations. Slip band. 6 assorted colors to box of 1 doz Doz. **$3.75**

M5554 Pure Silk Colored grounds overlaid with contrasting diagonal stripes and figures Slip band. 6 assrtd. colors to box of 1 dozen.... Doz. **$4.25**

M5555 Pure Silk Brocade figured four-in-hand. Rich multi-color floral designs. Slip band 6 assorted colors to box of 1 dozen. Doz **$4.25**

MEN'S KNITTED AND GRENADINE FOUR-IN-HAND SCARFS

M6065 Knitted Artificial Silk four-in-hand Reversible Black grounds with contrasting color cross stripes. Assrtd. colors to box of 1 doz Doz. **$4.00**

M6141 Knitted Artificial Silk four-in-hand Reversible Overseas Grenadine striped effect which are strong colors. Assrtd colors to box of ½ doz Doz **$4.25**

M6139—Knitted Graduated Tie Black, Navy and Brown with contrasting white figures Assrtd colors to box of ½ doz Doz. **$4.50**

M6080—Plain Black. Doz. **$4.25**

M6085—Assrtd plain colors. Doz **$4 25**

M6100—Grenadine Silk, graduated shape Black, Navy or Brown, with contrasting colored bar, creating the shadow effect so much in demand Assrtd. colors to box of ½ doz. Doz **$8.00**

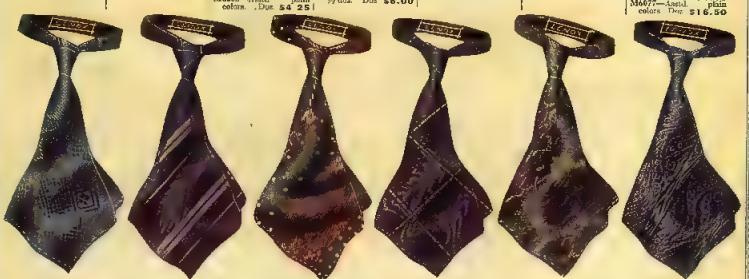
M6070 Knitted striped Grenadine Tie graduated shape, in Silk and Artificial Silk Assrtd colors to ½ doz box Doz. **$6.00**

M6198—Assrtd Plain colors . Doz. **$6.00**

M6151—Pure Silk Knitted four-in-hand, popular diagonal stripe in multi-color Assrtd colors to box of ½ doz Doz. **$9.00**

M6072—Cathedral weave, heavy pure Silk Wonderful color combination Black, Navy and Brown, grounds with dots and stripes. Assrtd. colors to box of ½ doz Doz. **$16.50**

M6077—Assrtd plain colors Doz **$16.50**



M5556 Shadow effect pure Silk four-in-hand Color grounds with contrasting figures Slip band, 6 assrtd colors to box of 1 doz. .. Doz **$4.25**

M5557—Colored Grosgrain Silk grounds with contrasting satin diagonal stripes. Slip band and pins 6 assrtd. colors to box of 1 doz. Doz. **$7.50**

M5558 — Diagonal Satin stripes with all-over Brocade figures and small dots Slip band and pins 6 assrtd colors to box of 1 doz Doz **$8.00**

M5559—Plaid effect Pure Silk. Dark grounds with contrasting dots and figures. Slip band, bar tacked and pins. 6 assrtd. to box of ½ doz Doz **$8.50**

M5560 —Beautiful brocaded Silk with rich contrasting multi-color figures. Slip band, bar tacked and pins 6 assrtd colors to box of ½ doz ..Doz.**$9.00**

M5564 Extra heavy silk Persian grounds with contrasting diagonal moire stripes Slip band, bar tacked and pins 6 assrtd colors to box of ½ doz. Doz **$13 50**

Holiday LENOX Neckwear

M 5500 $2.25

M5500—Asstd. brocade figured and striped Silk four-in-hands. Packed one tie in box, 12 asstd. ties to carton.... Doz. **$2.25**

Each In Individual Holiday Box

M 5501 $4.37½

M5501—Pure Silk four-in-hand. Asstd. stripes and plaids only. Slip bands. Packed one tie in box, 12 different ties to carton Doz. **$4.37½**

M 5502 $4.37½

M5502—Asstd. brocade figured designs, made of pure Silk. Packed one tie in box, 12 different ties to carton Doz. **$4.37½**

M5504—Pure Silk Open-end Tie; pebble weave, colored ground with contrasting multi-color dot spots and colored diagonal stripes. Slip band, bar tacked and pins. Each in envelope. Assorted to carton of ¼ doz. Doz **$9.00**

M5503—Pure Silk Twill ground, extra quality overlaid with contrasting color dots. Slip band, bar tacked and pins. 1 doz. asstd. to carton..... Doz. **$7.50**

M5505—Open-end. Heavy pure Silk satin ground, bank more diagonal stripes and contrasting novelty figured effects. Slip band, bar tacked and pins. One tie in box, 6 asstd. colors to carton of ½ doz. Doz **$8.50**

M5506—Beautiful Brocade Satin plaid effect. Colored grounds with contrasting color diagonal stripes. Slip band, bar tacked and pins. One tie in box, 6 asstd. to carton of ½ doz. Doz **$8.50**

M5507—Extra heavy brocade Silk Satin Twill effect. Black ground with contrasting brocade figures and small checks. Slip band, bar tacked and pins. One tie in box, 6 asstd. colors to carton of ½ doz. Doz **$13.50**

M5520—Asstd. Reversible knit Ties. Artificial Silk and mercerized mixtures. Black and colored grounds with contrasting cross stripes or plain colors. One tie in box, 1 doz. asstd. to carton Doz. **$4.00**

Knitted and Grenadine Ties

M5521 Artificial Silk, graduated and reversible shapes. Brightest and newest creations. One tie in box, 1 doz. asstd. to carton. Exceptional value. . . . Doz. **$4.37½**

M5522—Plain colors only . . Doz. **$4.37½**

M5523—Grenadine and pure Silk Four-in-hands, graduated shape. Vertical and cross stripes only. One tie in box, 12 asstd. to carton. . . . . Doz **$8.00**

M5524—Asstd. figures only . Doz **$8.00**

M5525—Asstd. plain colors only Doz. **$8.00**

Each In Individual Box

M5526—Grenadine shape of exceptional beauty and quality. Pure Silk, Grenadine weave. Asstd. stripes only. One tie in box, 12 asstd. to carton. Doz **$15.00**

M5527 Asstd. figures only Doz **$15.00**

M5528—Asstd. plain colors only Doz. **$15.00**

WATCHES—Popular Prices

New "Despatch" Watch

The special features in this watch are found in higher grade watches nothing on the market like it at this price

J7300 — "Despatch," 14 size, open face polished nickel pin set case hand carved effect narrow under wire lugs, genuine mineral crystal and bezel, stem wind and set white gilt dial, beveled crystal, guaranteed high grade American movement. 1 in box

Lots of 25 Each, **84c**
Less y **90c**

"MENTOR" AND "UNCLE SAM" WATCHES

J7336—"Mentor," 14 size, open face, high grade movement, polished nickel plated case, stem wind and set, white dial, minute numerals, bevel crystal, guaranteed. 1 in box

Each **Ont**

INGERSOLL WATCHES

The best known strongest advertised popular price timepiece on the market.

J7232 — "Yankee," 16 size, open face, nickel finish case, open at all vital parts. 1 in box. Each **95c**

J7284 — "Waterbury," 16 size, open face, solid nickel case, fitted with "Waterbury" jewel balance movement, case in individual box. 12 in carton

Each **$2.50**

J7233 — "Yankee" Radiolite, 16 size, open face, nickel finish case, each in satin display box. 12 in carton

Each, **$1.65**

J7234 — "Junior," 12 size, open face, nickel finish case, each in individual box. 12 in carton Each, **$1.80**

J7285 — "Reliance," 12 size, open face, solid nickel case, fitted with Ingersoll Reliance jewel bridge model movement, fully guaranteed, each in individual box. 12 in carton Each, **$3.80**

LEONARD POPULAR PRICED WATCH ASSORTMENT WITH FREE DISPLAY FIXTURE

This assortment contains the big sellers of the Leonard line assorted in the proportions usually selling most evenly.

J7340—4 styles, 14 size, open face, American nickeled lever movement, full guarantee, consists of:

1 gun metal finish, gilt center, engraved	$1 60
2 nickel finish engraved	1 50
5 solid composition gilt metal engraved	1 50
6 night watches, white luminous numerals and hands, gilt polished nickel	1 50
Total selling prices	$7 10
Your profit	$3 10

Used 12 watches including free attractive mahogany finish frame, easel counter or window display fixture

ASST 12 watches **$16.50**

WATCHES WITH IMPORTED MOVEMENTS

Solid Nickel 16 size, open face, solid nickel case, complete with "Admiral" Swiss movement

Each

J98-7 7 jewel **$4.65**
J98-15 15 jewel **5.50**
J98-17 17 jewel **5.85**

10 Yr. Gold Filled—16 size, open face, 10 yr. engraved case, assortment designs, complete with "Admiral" Swiss movement

Each

J97-7 7 jewel **$6.95**
J97-15 15 jewel **7.50**
J97-17 17 jewel **8.85**

J9663 — "Uncle Sam," 14 size, open face, nickel plated case, unbreakable crystal, white numerals, movement jeweled, stem wind, handsomely guaranteed. 1 in box

Each **82c**
Less of 50 **79c**

WOMEN'S WRIST WATCHES

SOLID GOLD AND GOLD FILLED POPULAR STYLE WRIST WATCHES
Fitted with one of the best fully guaranteed movements obtainable

IMPORTED MOVEMENTS

20 Yr. Gold Filled Case—Plain polished, 10½ lignes, silk dial, convertible 1-20 gold filled adjustable bracelet. 1 in box.

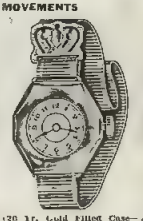
J7350—7 jewel, nickel lever movement Each, **$6.95**

20 Yr. Gold Filled Case—Plain polished, 10½ lignes, silk dial, convertible 1-20 gold filled adjustable bracelet. 1 in box.

J7350—15 jewel, nickel lever movement Each, **$11.50**

20 Yr. Gold Filled Case—Engraved case, 10½ lignes solid dial, convertible 1-20 gold, adjustable bracelet. 1 in box

J7587—15 jewel, nickel lever movement Each **$15.00**



20 Yr. Gold Filled Case—Plain polished, 8½ lignes, silvered dial, black silk ribbon bracelet with 1-10 gold filled clasp. 1 in box.

J7585—15 jewel, nickel lever movement Each, **$14.50**

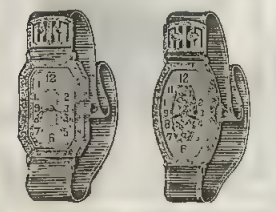
14k White Gold Case—10½ lignes tonneau shape, engraved back and bezel, silvered dial, black silk ribbon bracelet 14k engraved clasp. Each in box. 1 top leatherette case

J7586—15 jewel lever nickel movement Each, **$17.50**

14k Solid White Gold Case—Engraved, 8½ lignes long, round shape, engraved silver dial, case and silver silk black satin ribbon bracelet, 14k engraved tag. Each in velvet top leatherette case

J7582—15 jewel, nickel lever movement, Each **$25.00**

IMPORTED MOVEMENTS



18k White Gold Engraved Case—8½ lignes rectangular, fancy silver dial, black silk ribbon bracelet with clasp. Each in velvet lined display case.

J7570—17 jewel adjusted lever movement Each, **$32.50**

18k Solid White Gold Case—Engraved back and back of case solid shape, pastes to 4 positions, fancy engraved dial ribbon bracelet with clasp Each in display box

J7571—17 jewel adjusted lever movement Each, **$36.00**

18k Solid White Gold Case—Engraved 8½ lignes oval shape fancy engraved dial black ribbon bracelet with clasp. Each in display box.

J7572—17 jewel adjusted lever movement. Each, **$37.50**

Elgin Movements

Elgin 20 Yr Gold Filled Case Plain polished, size white movement dial, convertible 1-10 solid fancy adjustable bracelet. 1 in box.

J7579—Elgin, 7 jewel movement Each, **$15.00**

Elgin. 0 Yr Gold Filled Case Plain polished 10-0 size, cushion shape complete with ribbon bracelet. 1 in box.

J7574—Elgin, 7 jewel movement Each **$27.50**

Elgin "Princess." 25 Yr. White Gold Filled Case—10-0 size, cushion shape, engraved case, silver dial, complete with ribbon bracelet. Each in display box.

J7575—Elgin, 7 jewel movement, Each **$32.50**

ELECTRIC LAMPS TABLE, FLOOR AND BOUDOIR

Bulbs are not included with these lamps

LIBRARY TABLE LAMPS

Fancy embossed metal stands and overlaid amber glass shades. Wired complete with 6 feet of parallel silk cord and plug.

3C3415—2 light, 23½ in. high, bronze and gold finish 10 in. shade sunset border 7 pc. chain switch sockets. Benjamin plug. Each in shipping case, 20 lbs. Each **$10.25**

3C3520—2 light 23 in. high, bronze polychrome finish, 13 in. floral ornaments, amber glass, cream border 7 pull chain switch sockets. Each in wood case, 30 lbs. Each, **$10.95**

3C3420—2 light, 23 in. high, antique gold finish, 12 in. shade, 3 panels, 7 pull chain cotton sockets, Benjamin plug. Each in shipping case, 30 lbs. Each, **$18.25**

BOUDOIR LAMPS

3C3403—15 in. high, mahogany finish, solid brass base, 10 in. antique brass silk shade, all over Boudoir, gold braid fringe, wired complete with 6 ft. silk parallel cord and plug and Benjamin socket. Each in shipping carton, 10 lbs. Each, **$3.85**

3C3457—15 in. high, cast metal base, pink and white enamel finish. Frosted glass shade, embossed pink rose with green foliage, 6 ft. parallel cord. Benjamin swivel plug. Each in mailing carton, 7 lbs. Each, **$3.95**

ART METAL DESK LAMP

3C3467—13½ in. high, cast metal base, antique gold finish, 7x9 oval hibrowned glass receiving shade, green soapstone, 6 ft. parallel cord. Benjamin plug, pull chain / socket. Each in shipping carton, 15 lbs. Each, **$7.85**

WALLACE PORTABLE LAMP

3C3701—17 in. high, solid brass, satin finish, adjustable shade, push button socket, spiral spring clamps to back of chair bed, dresser, etc., 8 ft. extension cord, wt. 1½ lbs. (without bulb). 1 in carton. Each, **$2.35**

ADJUSTABLE DESK LAMP

2C4551—17 in. high, weighted bottom, oil antique xl base and socket brush brass finish, 10½ in. white Lead green shade, threaded and soldered connections, Benjamin swivel plug, sanitaire key action 1 in carton, 7 lbs. Each, **$2.75**

"FLEX-LITE" DESK LAMPS

Full 21 in. high, adjustable in any direction, parabola shade, key sockets, wired complete with 8 ft. enameled parallel cord Benjamin swivel plug. 1 in cases, 15 lbs.

2C3239—Flemish finish.
2C3290—Pompeian finish
Each, **$3.25**

ADJUSTABLE BRASS DESK LAMP

2C4549—17 in. high, with shade in position for use, weighted base, oil finish and socket, wired complete with swivel plug, key sockets. 1 in pkg. Each, **$2.40**

Birch Mahogany Floor Lamps

Bases and shades listed on this page are interchangeable. You can order any shade or base you desire and make up your own combination

"Bainral," ht. 6 ft. birch mahogany two pull chain sockets, 6 ft. silk cord 16 in. shade, selected silk 9 in. shade, alternate figured and striped, 5 brass head drops in harp, 4x shade rod disk and fancy figured pinwheel panels, 4 in. ciselite fringe, two tassel silk tassels Complete in shipping case, 35 lbs. SPECIFY COLORS.

2C2993—Complete lamp	Each.	**$23.50**
2C2993A—Base only.	"	6.25
2C2993B—Blue shade	"	15.26
2C2993C—Rose	"	15.26
2C2993E—Mulberry shade	"	15.25

Ht. 6 ft. birch mahogany, two pull chain sockets, 6 ft. silk cord new fall effect shirred silk 16 in. shade, alternate figured and striped panels, ciselite fringe. Complete in case. SPECIFY COLORS.

2C2997—Complete lamp	Each.	**$24.70**
2C2997A—Base only.	"	10.76
2C2997B—Blue shade	"	13.95
2C2997C—Rose	"	13.96
2C2997D—Gold	"	13.95
2C2997E—Mulberry shade	"	13.96

"Milnade," ht. 5 ft., extra heavy birch mahogany, two pull chain sockets 6 ft. silk cord 16 in. shade covered with selected silk shirred silk and stenciled fancy figured floral designed panels, heavy ciselite fringe, binding and tassels. Complete in shipping case, 39 lbs. SPECIFY COLORS.

2C2994—Complete lamp	Each.	**$26.50**
2C2994A—Base only	"	11.25
2C2994B—Blue shade	"	14.95
2C2994C—Rose	"	14.95
2C2994D—Gold	"	14.95
2C2994E—Mulberry shade	"	14.95

Fight for the Turn

Remember that a six months' supply of one article takes exactly as much capital and room as a thirty days' supply each of six articles—yet the latter will show sales SIX times as great. Place your orders every few days. Let Butler Brothers carry your surplus stocks.

LIGHTING FIXTURES

Frosted Bowl Fixture

2C2825—25 in overall 12 in frosted bowl, engraved plain loops and green leaves, 3 chain hangers, key sockets, covered pipe in case, 60 lbs.
Each, **$4.75**

Embossed Bowl Fixture

2C2882—41 in. over all, fancy brass canopy and chain, 14x5½" frosted bowl, embossed floral design, key sockets, complete in pkg., 40 lbs.
Each, **$6.50**

Hand Painted Bowl Fixture

2C2806—32 .5 over all 12 in. frosted hori zontal paneled American Beauty hand painted bowl, brass canopy complete in case, 35 lbs.
Each, **$6.75**

Ceiling Plate Shower

2C2811B—Complete in case, 25 lbs.
Each, **$5.95**

2C2811A—Without glassware, 25 lbs.
Each, **5.25**

36 in long, 12 in. ceiling plate key sockets 2-in. fitters, embossed blue decorated shades

Floral Embossed Combination Fixtures

42 in. over all, 4 lights, embossed brushed brass and black, 16 in. ring, 10 in. socket cover, 16 in. floral embossed drop frosted bowl, 3 shades to match 1 in case, 50 lbs.

2C2826—Complete with shade and glassware glass. Each **$8.95**

2C2824—Complete with frosted glass flor dotal spray, pale green leaves. Each **$9.95**

2C 4009—Shade only, plain frosted 2 to Dozen **$2.25**

Conventional Band Bowl Canopy Fixture

2C2831— In over all, embossed brushed brass and black, 16 in. ring, 10 in fitter 2¼ in. socket covers, wired, 3 key sockets enlaged, one keyless socket inside, 14 in. bowl, silvered bowl, with conventional forest purple grapes and green leaf design. Complete in case. 60 lbs.
Each, **$13.25**

Embossed Bowl Canopy Fixture

30 in over all, 4 lights, embossed brushed brass and black, 16 in. ring 10 in fitter 2¼ in. socket covers, wired, 3 key sockets wired, 1 key sockets enlaged, 1 keyless inside 12x13 frosted embossed silver leaf design scattered pink shaded flowers, 3 shades to match.

2C2857—Complete in case, 60 lbs.
Each, **$14.75**

2C2858—4½ in. shades only ½ doz. in box.
Doz. **2.40**

Landscape Bowl Canopy Fixture

2C2859—59 in over all, 4 lights, embossed brushed brass and black 16 in ring 10 in fitter, 2¼ in. socket cover, wired, 3 key sockets outside, 1 keyless inside 16x12 bowl, silvered bohemian tinted with landscape scene, 3 shades to match, 2 orange, 1 delicate to match. Combination case. 60 lbs.
Each, **$14.50**

Brass Canopy Plate Shower

2C2202—29 in long, embossed brush brass and black, 12 in. plate, 3 chain hangers, 2 1/ in sockets covers wired, key sockets 1 in crowfoot, fancy waste shades, hand painted pink rose. Complete in case, 25 lbs.
Each, **$8.10**

Brush Brass and Black Body Fixture

2C2205—30 in long embossed brush brass and black, 12 in plate with open brass cover 2¼ in. socket covers, wired, key sockets 1 in crowfoot, frosted shades, hand painted pink rose. 1 in case, 25 lbs.
Each, **$9.75**

Brownstone Finish Body Fixtures

Brownstone finish, rich palmy brown high lights in bright gold, open brass socket and canopy socket covers, cast arms, heavy flat shades tan embossed. Wired, key sockets, 1 in case.

3 LIGHT—Length 36 in spread 12
2C3265A—Without glassware. Each, **$10.50**
2C3265B—With glassware. Each, **12.50**

4 LIGHT—Length 36 in, spread 16
2C3265A—Without glassware. Each, **$11.50**
2C3265B—With glassware. Each, **14.25**

Brownstone Finish Body Fixtures

Brownstone finish, rich palmy brown, high lights in open bright gold, open brass socket and canopy covers, cast arms and ornaments, ivory tinted shades tan embossed, wired key sockets, 1 in case

3 LIGHT—Length 36 in spread 12
2C3267A— Without glassware. Each, **$10.50**
2C3267B—With glassware. Each, **12.50**

4 LIGHT—Length 36 in, spread 16
2C3268A— Without glassware. Each, **$11.50**
2C3268B—With glassware. Each, **14.25**

Aurelian Gold Finish Body Fixtures

Aurelian gold finish, dark olive color high lights in bright gold, open brass body canopy and socket covers cast arms and ornaments hand decorated Empire wreath shades, oranated medallions, wired key and sockets. 1 in case.

3 LIGHT—Length 36 in spread 12.
2C3283A—Without glassware. Each, **$10.50**
2C3283B—With glassware. Each, **12.50**

4 LIGHT Length 36 in., spread 18.
2C3284A—Without glassware. Each, **$12.50**
2C3284B—With glassware Each, **15.25**

Gray Gold Finish Body Fixtures

Gray gold finish high lights in bright gold, open brass body canopy and socket covers cast arms, wired complete, key sockets and crow foot brown frosted shades with gilded wild rose wreath decorations. 1 in case.

3 LIGHT—Length 22 in spread 14.
2C3371A—Without glassware. Each, **$8.50**
2C3371B—With glassware. Each, **9.50**

3 LIGHT—Length 36 in., spread 14.
2C3372A— Without glassware. Each, **$10.50**
2C3372B—With glassware. Each, **12.00**

4 LIGHT—Length 36 in., spread 18.
2C3373A—Without glassware. Each, **$13.50**
2C3373B—With glassware. Each, **15.50**

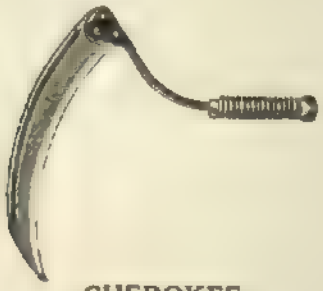
GRASS HOOKS

CRANBERRY

Forged from round tool steel, face of blade and both bevels polished, offset handle of hardwood

Cranberry. Weight per dozen 9 pounds....per dozen, **$11.50**

One dozen in a box



CHEROKEE

Oil tempered steel blade, green enameled, with polished bevel. Malleable iron handle, corrugated grip.

Cherokee. Weight per dozen 10 pounds. ...per dozen, **$9.00**

One dozen in a box

RIVETED BACK

Riveted and reinforced back, polished bevel

No. 4. Weight per dozen 6 pounds.. . . per dozen, **$8.00**

One dozen in a box

GRAIN SICKLES

Solid back, serrated edge, turned handle

No. 3. Weight per dozen 9 pounds. . per dozen, **$8.00**

One half dozen in a bundle

CORN KNIVES

ATKINS

Special steel blade, black finish; white, unvarnished handle, three rivets

No. 2. 2 x 15½ inch blade, 6½ inch handle, weight per dozen 12 pounds.....per dozen, **$9.50**

One half dozen in a package

ATKINS

Silver steel blade, polished bright; varnished handle, three rivets.

No. 4. 3 x 15 inch blade, 6½ inch handle, weight per dozen 12 pounds.....per dozen, **$10.50**

One half dozen in a package

LIGHTNING HAY KNIVES

Extra quality tool steel, hand forged, serrated cutting edge, polished with back painted red, riveted handles.

Lightning. 36 inches over all, weight per dozen 50 pounds .....per dozen, **$20.00**

One dozen in a box

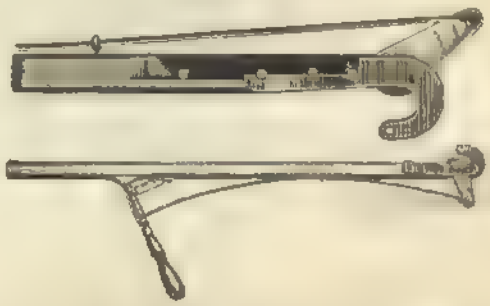
BUSH HOOKS

Extra heavy forged steel blade, polished edge, two straps, bronzed, with axe handle 36 inches long.

No. 22. Weight per dozen 55 pounds.....per dozen, **$60.00**

One dozen in a box

TREE PRUNERS



WATERS PATTERN, IMPROVED

With lift spring which holds the blade open. Complete with pole. The steel plate inserted in the head end of the pole reinforces the pruner where the most strain comes, and guards against splitting or breaking the pole.

Length, feet	6	10
Weight per dozen, pounds	38	52
Standard. Per Dozen	**$24.00**	**30.00**

PRUNING SHEARS

WOOD HANDLE

Best cast steel blades, full polished, heavy steel ferrules, varnished wood handles. Length over all 26 inches.

No. 20. Weight per dozen 45 pounds.....per dozen, **$27.00**

CONNECTICUT PATTERN

Polished steel blade, screwed, brass plated coil spring and fastening clip, black japanned handles.

No. 0. 9 inch, weight per dozen 9¼ pounds..per dozen, **$14.00**

One half dozen in a box

CALIFORNIA PATTERN

Polished, tempered steel blade, riveted, volute spring, end fastening clip. Bolt has adjusting nut and regulating ratchet, dead black finish, malleable iron head and handles.

No. R50. 9 inches, weight per dozen 10½ pounds. .....per dozen, **$26.00**

One half dozen in a box

HEDGE SHEARS

WILKINSON

Hand forged solid cast steel blades, bolted, locking spring washer, steel ferrules. Varnished handles

No. 101. 8 inches, notched blade, weight each 3¼ pounds .....each, **$3.75**

One in a package

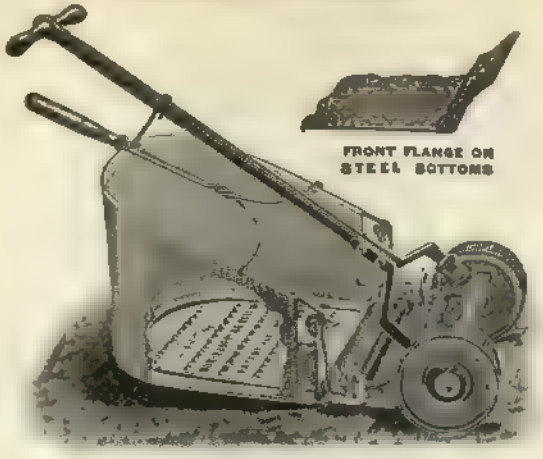
KENTUCKY

Half polished solid steel blades, with extra thin ground bevels and offset shanks. Heavy polished steel bolt with lock nut and tempered spring washer.

No. 88. 7 inch blades, 16 inches over all, weight per dozen 20 pounds.....per dozen, **$30.00**

One in a package

GRASS CATCHERS



EASY EMPTYING

View of Galvanized Non-Slipping Bottom

Easy Emptying Grass Catchers have round back, heavy duck sides, improved wood handle and method of attaching to frame.

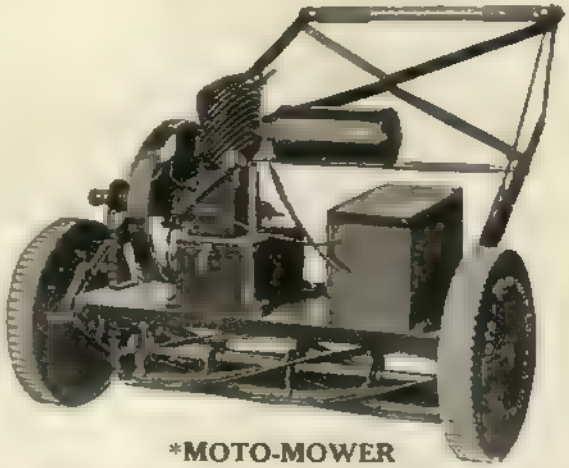
The rigid handle enables the catcher to be readily emptied, the adjustable flange prevents grass from slipping forward

The slotted bracket at the sides and the curved hook over the handle permit adjusting for any height from the ground.

No. 1G. 20 x 18 inch for 12 to 18 inch mowers, weight per dozen 50 pounds.....per dozen, **$30.00**

One half dozen nested, in burlap bundle

LAWN MOWERS



*MOTO-MOWER

One half horsepower operates the cutter and propels the mower. It is strongly built of best material, carefully machined and assembled. It requires little attention, having automatic release between motor and reel. There are no gears or exposed parts to accumulate oil and grit, no oil holes to clog, few adjustments.

It is easily operated and self-sharpening. Runs easily and will cut lawns too soft for horse-drawn mower. Saves time and worry, very economical in use, burning but one-eighth gallon of gas per hour of operation.

Moto-Mower. 27 inch cut, weight 125 pounds...each, **$325.00**

*Not carried in stock; will ship from factory

Fig. D1168

Single arm pulley, sizes 12 to 36 inch diameter

LIMESTONE WOOD SPLIT PULLEYS

Made of selected air dried material. Arms are of white oak with sections placed edgewise to the strain; spokes are built into the rim and firmly secured; rims are built of sections nailed and glued; are clamped to shafting by means o heavy iron plates with bolts and hexagon nuts. Pulleys finished in pure orange shellac. Pulleys up to 11 inches diameter are made in solid blocks. Standard bores are: 3 inch diameter, 1⅛ inches; 4 to 7 inch diameter, 2⅛ inches; 8 inch to 72 inch diameter, 3⅛ inches. Pulleys with special specifications can be furnished promptly.

Factory ships all orders **immediately.**

Fig. D1169

Double arm pulley, sizes 37 to 83 inch diameter

List Prices, Each

Diameter Inches	Width of Face in Inches											
	3	4	5	6	8	10	12	*14	*16	*18	*20	*22	*24
4	$2.80	2.90	3.10	3.30	3.70	*4.10	*4.50						
5	2.85	2.95	3.20	3.40	3.85	*4.30	*4.75						
6	*2.90	3.00	3.25	3.50	4.00	4.50	*5.00						
*7	2.95	3.05	*3.35	3.60	4.15	4.70	5.25	5.80					
8	*3.00	3.10	*3.40	3.70	4.30	4.90	*5.50	6.10					
*9	3.10	3.25	*3.60	3.90	4.55	5.20	5.85	6.50					
10	*3.25	3.40	3.75	4.10	4.80	5 50	6.20	6.90	7.60				
*11	3.50	3.70	*4.10	4.50	5.30	6.10	6.90	7.70	8.50				
12	*3.75	4.00	4.45	4.90	5.80	6.70	7.60	8.50	9.40	10.30			
*13		4.30	*4.80	5.30	6.30	7.30	8.30	9.30	10.30	11.30			
14		4.60	*5.15	5.70	6.80	7.90	9.00	10.10	11.20	12.30	13.40		
*15		4.90	*5.50	6.10	7.30	8.50	9.70	10.90	12.10	13.30	14.50		
16		5.20	*5.85	6.50	7.80	9.10	10.40	11.70	13.00	14.30	15.60	16.90	
*17		5.50	*6.20	6.90	8.30	9.70	11.10	12.50	13.90	15.30	16.70	18.10	
18		5.80	*6.55	7.30	8.80	10.30	11.80	13.30	14.80	16.30	17 80	19.30	20.80
*19		6.10	*6.90	7.70	9.30	10.90	12.50	14.10	15.70	17.30	18.90	20.50	22.10
20		6.40	*7.25	8.10	9.80	11.50	13.20	14.90	16.60	18.30	20 00	21.70	23.40
22		7.00	*7.95	8.90	10.80	12 70	14.60	16.50	18.40	20.30	22 20	24.10	26.00
24		7.70	*8.80	9.90	12.10	14.30	16.50	18.70	20.90	23.10	25 30	27.50	29.78
26		8.40	*9.65	10.90	13.40	15.90	18.40	20.90	23.40	25.90	28.40	30.90	33.40
28		9.10	*10 50	11.90	14.70	17.50	20.30	23.10	25.90	28.70	31.50	34.30	37.10
30		9.80	11.35	12 90	16.00	19.10	22.20	25.30	28.40	31.50	34.60	37.70	40.80
*32		10 50	12.20	13.90	17.30	20.70	24.10	27.50	30.90	34 30	37.70	41.10	44 50
*34		11.30	13.15	15.00	18.70	22.40	26.10	29.80	33.50	37.20	40.90	44.60	48 30
*36		12.10	14.10	16.10	20.10	24.10	28.10	32.10	36.10	40.10	44.10	48 10	52.10
*38				17 20	21.50	25.80	30.10	34.40	38.70	43.00	47.30	51.60	55 90
*40				18.30	22.90	27.50	32.10	36.70	41.30	45.90	50.50	55.10	59.70
*42				19 60	24.60	29.60	34.60	39 60	44 60	49 60	54.60	59.60	64 60
*44				20 90	26.30	31 70	37.10	42 50	47.90	53.30	58.70	64.10	69.50
*46				22.30	28.10	33.90	39.70	45.50	51.30	57.10	62.90	68.70	74 50
*48				23.80	30 00	36.20	42.40	48.60	54 80	61.00	67.20	73.40	79 60
*50				25.40	32.00	38.60	45.20	51.80	58.40	65.00	71.60	78 20	84 80
*52				27.10	34.10	41.10	48.10	55.10	62.10	69.10	76 10	83.10	90.10
*54				28 90	36.30	43.70	51 10	58 50	65 90	73.30	80 70	88 10	95.50
*56				30.80	38.60	46.40	54.20	62.00	69.80	77.60	85.40	93.20	101.00
*58				32 80	41.00	49.20	57.40	65.60	73.80	82.00	90 20	98.40	106.60
*60				34 90	43.50	52.10	60.70	69.30	77.90	86 50	95.10	103.70	112 30
*62				37.10	46.10	55.10	64.10	73.10	82.10	91.10	100.10	109 10	118.10
*64				39.40	48 80	58.20	67.60	77.00	86.40	95 80	105.20	114.60	124 00
*66				41 90	51 80	61.70	71 60	81 50	91 40	101.30	111.20	121.10	131.00
*68				44 50	54.90	65.30	75.70	86.10	96 50	106.90	117.30	127.70	138.10
*70				47 20	58.10	69.00	79.90	90.80	101 70	112.60	123.50	134 40	145.30
*72				50.00	61 40	72.80	84.20	95.60	107 00	118.40	129.80	141.20	152.60
*78					71.90	84.80	97 70	110.60	123 50	136.40	149.30	162 20	175 10
*84					83.30	97.70	112.10	126.50	140.90	155.30	169.70	184.10	198 50
*90					95 60	111.50	127.40	143.30	159 20	175.10	191 00	206.90	222 80
*96					109.00	126 50	144.00	161.50	179.00	196 50	214 00	231.50	249.00
102					123.70	143.00	162.30	181.60	200.90	220.20	239.50	258 80	278.10
*108					139.30	160.40	181.50	202.60	223.70	244.80	265.90	287.00	308.10
*114					155.80	178.70	201.60	224.50	247.40	270.30	293.20	316 10	339.00
*120					173.20	197.90	222.60	247.30	272.00	296.70	321 40	346.10	370.80

WOOD BUSHINGS

10 inches or less of complete bushing . . ..$0.50 | More than 10 inches of complete bushing....per inch. $0.05

NOTE: When ordering bushings, give size of hole in pulley, length of hub and diameter of shaft.

*Not carried in stock; will ship from factory.

USEFUL INFORMATION

For Everyday Use in Engine Room

To find diameter of cylinder for a given power:

Multiply horsepower of engine by 33,000; divide product by the product of cylinder × steam pressure × piston speed in feet per minute.

Rule for finding contents in cubic feet of a cylinder of any given diameter:

Multiply the square of diameter in inches by .7854 and this product by length of stroke in inches. Divide last product by 1728, and the result is contents of cylinder.

The diameter of the valve rod should be 1-10 to 1-12 of the cylinder diameter; or from 1-350 to 1-300 of unbalanced area of slide valve. This last is considering the valve as a piston. Steel rods will bear being made smaller.

Don't depend too much upon the glass gauge, but try the cocks often enough to keep your hand in in telling the height of water by them. If a gauge cock has a tendency to leak, fix it thoroughly.

Safety valves should be allowed to blow straight out into the room and not hitched on to a leading pipe which may allow water to stand on the valve, increasing its weight, or to freeze up if the boiler is laid up. When the valve blows into the room it will be known, when steam is escaping, whether from leakage or over pressure.

The economy of an engine should always be rated by the amount of steam or water which it consumes per horsepower per hour. The amount of coal burned per horsepower per hour involves the economy of the whole plant, and is not a measure of the performance of the engine taken independently.

Horizontal engines, when practicable, should be run over rather than under, as the thrust will then come downward upon the foundation rather than upon the caps of the boxes and the upper guides.

In calculating horsepowers of steam boilers, consider:

Tubular boilers, 15 square feet of heating surface, equivalent to 1 horsepower.

Portable boilers, 12 square feet of heating surface, equivalent to 1 horsepower.

Cylinder boilers, 10 square feet of heating surface, equivalent to 1 horsepower.

To find the area of safety valve required:

Multiply the number of pounds of coal burned per hour by .045; or the number of pounds of water evaporated per hour by .006. The product is the area of a common valve required in square inches.

For Calculating the Speed of Drums and Pulleys

Problem No. 1. The diameter of the driven being given, to find its number of revolutions.

Rule. Multiply the diameter of the driver by number of its revolutions, and divide the product by the diameter of the driven; the quotient will be the number of revolutions of the driven.

Problem No. 2. The diameter and revolutions of the driver being given, to find the diameter of the driven that shall make any given number of revolutions in the same time.

Rule. Multiply the diameter of the driver by its number of revolutions and divide the product by the number of revolutions of the driven; the quotient will be its diameter.

Problem No. 3. To ascertain the size of the driver.

Rule. Multiply the diameter of the driver by the number of revolutions you wish it to make, and divide the product by the revolutions of the driver; the quotient will be the diameter of the driver.

N. B. In ordering pulleys, be careful to give the exact size of the shaft on which they are to go; also state how you wish them finished on the face—flat face for shifting belt, or rounding for non-shifting.

How to Calculate Speed

To find the speed of a countershaft, if the revolutions of the main shaft and size of pulleys are given: Multiply the revolutions of the main shaft by the diameter in inches of the pulley on the main shaft, divide the result by the diameter of the pulley on the countershaft; the quotient will be the number of revolutions.

Example. What will be the speed of a countershaft with a 12 inch pulley, driven by a 30 inch pulley 180 revolutions per minute: $180 \times 30 \div 12 = 450$

To find the size of a pulley required, if the number of revolutions and size of pulley on the main shaft are given: Multiply the diameter in inches of driving pulley by the revolutions of the main shaft, and divide by the speed required; the quotient will be the diameter in inches of the pulley.

Example. What will be the diameter of a pulley to make a countershaft turn 450 revolutions per minute, driven by a 30 inch pulley 180 revolutions per minute? $180 \times 30 \div 450 = 12$ inch pulley.

To find the size of a pulley for a main shaft, if the speed of shafts and diameter of pulley on the countershafts are given: Multiply the diameter in inches of pulley by speed of the countershaft, and divide by the revolutions of the main shaft. The quotient will be the diameter of the pulley.

Example. What will be the diameter of a pulley on a main shaft making 108 revolutions per minute to drive a 12 inch pulley 450 revolutions per minute? $450 \times 12 \div 180 = 30$ inch pulley.

Horsepower of Shafts

We publish herewith a table used in general practice for the transmission of power where shafts are properly supported.

When shafts are used for conveying power from one point to another without any of the bending strains of pulleys, gears, etc., the next smaller size may be used.

This table must not be confounded with tables of actual strength of shafts published by other authorities

Horsepower of Shafts for Given Diameter and Speed

Diameter of Shaft Inches	Revolutions per Minute									
	100	125	150	175	200	225	250	300	350	400
1 1/16	2.4	3	3.6	4.2	4.8	5.4	6	7.2	8.4	9.6
1 3/16	4.3	5.4	6.5	7.6	8.6	9.8	10.8	13	15.2	17 2
1 1/4	6.5	8	9.7	11.2	13	14.6	16	19 4	22.4	26
1 5/16	10	12.5	15	17.5	20	22.5	25	30	35	40
2 1/16	14	17.8	21	24.5	28	31.5	35.6	42	49	56
2 1/16	20	25	30	35	40	45	50	60	70	80
2 1/4	26.5	32.5	40	44.6	53	59	65	80	89	106
2 5/16	34	42.5	51	59.5	68	76.5	85	102	119	136
3 1/16	54	67.5	81	94.5	108	122	135	162	189	216
3 1/16	80	100	120	140	160	180	200	240	280	320
4 1/16	114	142.5	171	199.5	228	256.5	285	342	399	456
4 1/16	156	195	234	273	312	351	390	468	546	624
5 1/16	208	260	312	364	416	468	520	624	728	832
5 1/16	270	337.5	405	472.5	540	607.5	675	810	945	1080
6 1/16	340	425	510	595	680	765	850	1020	1190	1360
6 1/16	420	525	630	735	840	945	1050	1260	1470	1680
8	640	800	960	1120	1280	1440	1600	1920	2240	2560

It is well to say in this connection that no matter what general rules are adopted there are frequently special cases in which the engineer or designer must depart from his rules, and use his judgment in determining both the size of the shaft and the number and location of bearings.

DOME LAMPS, VASES AND LENSES

DOME LAMP

Frosted star glass 2½ inches in diameter gives sufficient light. Fitted with 6-8 volt 2 cp. DC bulb. All metal parts nickel plated and polished. Can be fastened to the top of any car without cutting the top lining

No. 60S -Dome Lamp without switch Each $2 25
No. 60S Dome Lamp with switch attached Each 2 75

LIMOUSINE VASE

The "Limousine" Flower Vase is ornamental in appearance and is furnished so that the glass part can be easily removed from the holder placed back into position without the least inconvenience. Height 7 inches

No. 1707 Vase Each $13 00

ASH RECEIVER

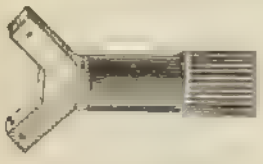
It does away with the most objectionable feature of cigar ashes scattering where same is the least desired and also acts as a container for lighted cigars, etc A removable sanitary glass cup is supplied with it which can be emptied when necessary and placed back in the ash receiver ready for another supply.

Ash Receiver .. Each $2 00

RUBY SEMAPHORE LENS

	Each	Dozen
2½ inches	$0 15	$1.25
3 inches	.15	1.45
3½ inches	.20	1.60
3¾ inches	.20	1 65
3½ inches	.20	1.70
3⅝ inches	.20	1.80

ACETYLENE GAS BURNERS

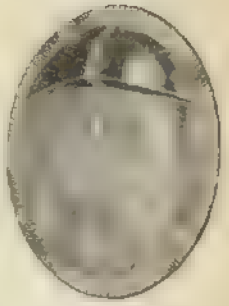


Alco No. 12

Tips are made from genuine imported lava

No. 12 -Alco-Acetylene Gas Burners Each $0 20

VIOLET RAY LENS

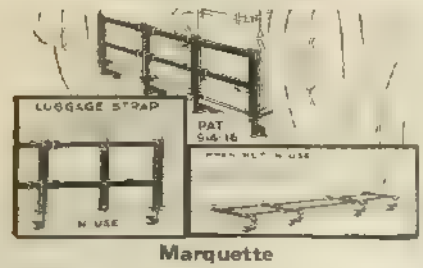


This lens was made necessary by the urgent demand of motorists for safety in night driving. The ordinary lens produces a shaft of blinding light, caused by its glaring red and yellow rays, and is the prolific source of night accidents. As it is the aim of the manufacturers to produce a lens of maximum efficiency, exhaustive laboratory experiments and tests with the constituents of light and its projection have resulted in the development of a steel blue glass which, by eliminating the glare of red and yellow rays and retaining the full power of light, produces in effect an artificial daylight—in a word THE VIOLET RAY the perfect light for night driving.

Violet Ray Lens .. .. ..

LUGGAGE CARRIERS, CAMP STOVE, WATER BAGS, REPAIR CREEPERS

LUGGAGE CARRIER



Marquette

Provides liberal storage for all kinds of luggage, camping equipment parcels, etc.; keeps them safe from loss or damage and out of the way.

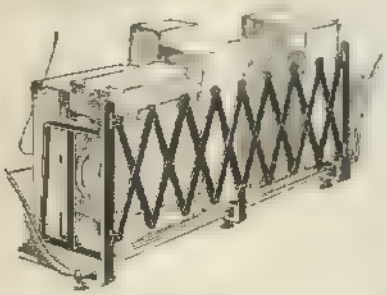
The straps hold luggage securely to carrier away from body of car; the straps are adjustable and detachable.

Made of high grade steel throughout.

	With Straps	Without Straps
Marquette Luggage Carrier, 4 ft. size.	$4 80	$3 80
Marquette Luggage Carrier, 5 ft. size	5 25	4 25
Extra Straps . . . . . Each	$0 35	

LUGGAGE CARRIER

Folded

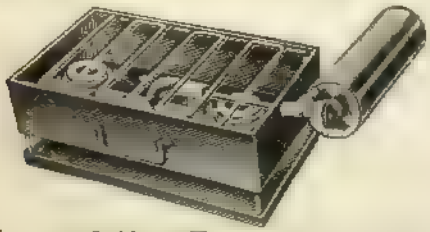


Standley

Is convenient and quickly detached. Clamps to running board with heavy clamps provided with rock pins which prevent them working loose. Is adjustable to fit any passenger or suitcase. Range 10 to 65 inches. Can be attached instantly to any make of car without tools.

Style A—Standley Luggage Carrier . . . . . Each $5 00
Style B Standley Luggage Carrier Light Weight . . . . . Each 3 00

AMERICAN FOLDING "KAMPKOOK" STOVE



The American Folding "Kampkook" Stove is the handiest and most compact camp stove made. There are no projecting parts, each part is enclosed within the steel case and protected against loss or damage. Case is fitted with handle for carrying or hanging. Finished in black enamel. Burns gasoline.

Size folded 14½x8x3½ inches. Weight 8 pounds.

No. 3—American "Kampkook" Stove . . . Each $7 50

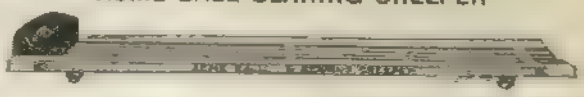
WATER BAGS

Keep water cool for several days; made of special weave imported flax; double stitched throughout; porcelain mouthpiece with cork stopper attached to cord; rope shoulder strap; **open top type** differs from regular type in that bag can be opened at top and thoroughly cleaned.

No.	Capacity	Each
R161	-1 Gallon	$
R162	-2½ Gallons	

Open Type

ACME BALL BEARING CREEPER



X-Ray View of Ball Bearing Caster, Countersunk and Riveted

A creeper that will roll in any direction, on any kind of floor and no weight or pressure can prevent the balls from working freely. Position brake, easily set prevents rolling when creeper is in desired working position.

The ball bearing casters with which the Acme Creeper is equipped are self-cleaning and will not clog with waste and dirt. The use of these casters brings the bed of the Creeper less than two inches from the floor, a big advantage to the garage man. Both casters and creeper will withstand the hardest usage. Can be run over with a car without breaking or damaging.

Built of selected hardwood strongly bolted together, length 39 inches, width 15 inches, weight 7 pounds.

Acme Ball Bearing Creeper. . . . . Each $4 00

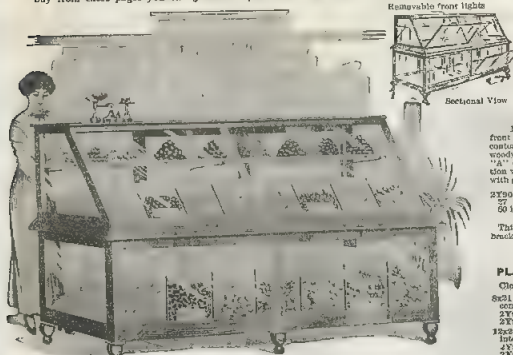
NO. 25 -STEEL AUTO CREEPER

Frame is tubular steel with strongly reinforced corners. Cross strips are one inch steel, and is extending the frame and welded to under surface. Casters are swivel type, ball bearing with steel wheels. Head rest is an oil proof enameled duck cushion, bolting rigidly to the frame. Size 35x15½ inches. Weight 10½ pounds.

No. 25—Steel Auto Creeper . . . . . Each $4 00

"LITTLE GEM" CANDY DISPLAY CASE

One good way to add a lot of profits to your business is to sell more candy buy from these pages you can get better profits and more frequent turns. Candy is a line of good profits and many turns and when you A well selected candy stock should comprise a good line of chocolate creams of various flavors, a variety of popular chocolate bars and wrapped candies, about twenty kinds of flavored hard candies, cream candies and gum candies in bulk. A candy counter stocked with these can be counted upon to bring an ever-increasing volume to your store, especially if well displayed in neat attractive form and with the equipment suggested on this page.



Little "Gem" Display Case consisting of display counter and sloping front top case with removable front that can be cleaned without disturbing contents, floor of top and bottom sections zinc lined, white oak golden finish woodwork, hand rubbed and polished, oxidized copper legs, double strength "A" quality glass throughout, polished wood shelf in top case, counter section without top but grooved for glass top (can be used separately if fitted with glass top).

2Y9076—6 ft. long, 20 in. high, 37 in. wide. Shipping weight 90 lbs. per running foot.
Each, **$92.50**

2Y9077—8 ft. long, 20 in. high, 37 in. wide. Shipping weight 90 lbs. per running foot.
Each, **$109.50**

This does not include dividers and brackets. Same are extra

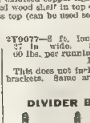
PLATE GLASS DIVIDERS

Clear plate glass, ground edges.

8x21 In.—For dividing top case into compartments
2Y9078—7 in. case . . . } Each
2Y9079—8 " " . . . } **$1.35**

12x21 In.—For dividing lower case into compartments
2Y9261—21 in. case . . . } Each
2Y9265—8 " " . . . } **$1.50**

DIVIDER BRACKET



2Y4289—Nickel plated metal brackets with adjustable screws for holding glass dividers in place. 1 pair in pkg. 2 brackets to a pair . . . Per, **27c**

"SUPERB" CONFECTIONER'S COMPUTING SCALE

Will pass test of U. S. Dept. of Weights and Measures.

1H8670—2 lbs. by ½ oz., 5½ in base, 8 in. bearings and pivots tempered steel, adjustable beam, turret to any position, nickeled sliding indicator poise, fine wire line shows cost in cents of item weighed from 5c to 60c lb. brass gold bronzed mountings and brass scoop. 1 in crate, 6 lbs.
Each, **$7.95**

"X RAY" GLASSINE BAGS CONFECTIONERY

White, clear transparent paper bags with end flaps, suitable for all kinds of confectionery, drug goods, notions, braids, hooks, gloves, etc., jewelry stationery, such as cards, envelopes, stamps, etc. 1 M in box.

1Y9738—3½x5½

Lots of 10 M,	Per M,	$1.00
Less than 10 M,	" "	1.10

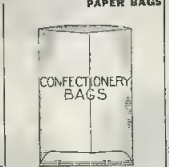
1Y9739—5½x9

Lots of 10 M,	Per M,	$1.50
Less than 10 M,	" "	1.65

25 lb. box, white clear transparent bags, flap ends. 1000 in box

2Y9040—2 oz.	Per M,	$1.20
2Y9041—½ lb.	"	1.30
2Y9042 ½ "	"	1.80
2Y9043—1 "	"	2.20

CONFECTIONERY PAPER BAGS



White laid, square, excellent smooth stock.

Cap. lbs.	½ M in bdl. Per M	Bale of	Per M
W1570—½	$1.35	10M	$1.22
W1571—½	1.95	5M	1.49
W1572—1	2.20	6M	1.98
W1573—2	3.25	6M	2.93

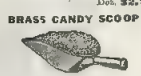
GUM AND PACKAGE CANDY DISPLAY CASE

2Y9075—Highly finished oak case 15½ x 10 x 11½, double strength glass, hinged back door (url) lock case
Each **$6.50**

CRYSTAL CANDY TRAY

1C2423—5½x8¼, plain pressed clear crystal bottom 2 doz. in shipping carton, 40 lbs. (Total $4.20)
Doz. **$2.10**

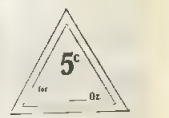
BRASS CANDY SCOOP

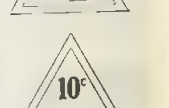


2Y96—8½ in., French model, hard rolled brass, bright finish.
Each, **50c**

SPECIAL CANDY PRICE TICKET ASSORTMENT

The most necessary items for your candy counter.

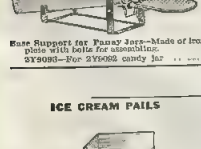




2Y9091—8 kinds, printed in black on buff colored triangle shape cards. Assid. as follows

		Quantity	
5c	oz.	4	10 cards
5c	lb.	7	
10c	oz.	7	1m Asst
10c	lb.	7	
20c	lb. pound	3	
30c	"	3	Assi
40c	"	3	26c
60c	"	3	

PANAY HORIZONTAL CANDY SHOW JARS



Base Supports for Panay Jars—Made of iron, heavily tinned, 3 sets, complete with bolts for assembling.
2Y9083—For 2Y9082 candy jar . . . . . Each, **$1.75**

2Y9082—23x7x6½ cap. 7½ to 15 lbs. of glass covers heavy glass, nickeled metal spring, clear rubber cushion, air tight, contents not affected by atmospheric conditions, absolutely sanitary, each in carton, 6 in case, not wt. unpacked, 18 lbs.
Each, **$6.50**
(Total $36.00)

FIBER GLASS CANDY PAIL COVER

2Y779—13⅝ in diam., bright aluminum metal rim, open face of fiber glass material for covering candies, dried fruits and grocers specialties. Will fit standard cans, pail 6 in pkg. . . . . Each, **90c**

When you want goods quick—order from BUTLER BROTHERS

SODA FOUNTAIN SUPPLIES

ICE CREAM PAILS

Improved one piece self lock solid manila board, extra heavy tape handle. Each pail stamped with official weights and measure seal.

2Y9548—1 Qt size . . .	Per 100,	$ 1.12
1 M lots,	"	10.50
5 M lots,	"	10.45
10 M lots,	"	10.00

PEANUT VENDER AND BRACKET

Vender—Model A, gray iron case, dark red enamel, aluminum mechanism, rustproof and non-corrosive, adjustable from 3 to 60 operations to give satisfaction.
Each, **$8.00**

Bracket—For fastening 2Y9703 to wall or building.
2Y9704—1 in pkg . . . . . Each, **90c**

BORDEN'S MALTED MILK

2Y9509—Strengthening for infants, invalids and the aged, 25 lb tin. In corrugated container . . . . . Lb, **35c**
(Total $8.75)

"CREMO" ICE CREAM WAFER

2Y9551—For ice cream sandwiches, 2½x3¼ Cut ice cream brick into 10 slices and serve each between 2 wafers for 5c . . . or into 14 slices and serve each for 3c . . . 500 in box.
Box, **$1.80**

When you want goods quick—order from Butler Brothers

SCREWDRIVERS

LEAD ALL

Round forged steel blade, polished; nickel plated ferrule, varnished cherry handle.

Blade length, in.	3	4	5	6	8
Weight per doz., lb.	1⅝	2	3½	3¾	6⅛
No. 44. Per doz.	$2.75	3.00	3.25	3.50	4.50

2 and 3 in., one dozen; balance half dozen in a box

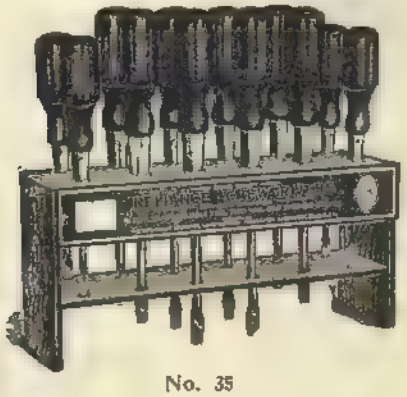
SCREWDRIVER ASSORTMENTS

No. 42

Consists of 4 each of Little Wonder screwdrivers: 1¾, 2 and 3 in. blades, 3, 3¾ and 4¾ in. long over all. Mounted on attractive red and gold display card. Blades made of high grade tool steel, tempered and polished. Handles are hardwood, stained red. Long polished steel ferrules

No. 42. Weight per card 7 lb.....per assortment, **$2.00**

One assortment in a box



No. 35

Consists of 4 each of Reliance screwdriver: 4, 5 and 6 in. blades, with blades of special steel tempered and polished. Heavy drawn reinforced steel ferrules with rivet through ferrule, blade and handle. Ferrule nickel plated and buffed. Fluted hardwood handles. Packed with display rack made of hardwood, mission finish, with label in white, violet and gold.

No. 35. Weight per assortment 4½ lb..per assortment **$5.50**

One assortment in a box

BAILEY WOOD PLANES

ADJUSTABLE

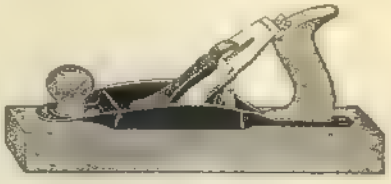
For rough outside work. The bottom, handle and knob are made from selected and well seasoned beech. The cutter is made of the finest quality English steel, tempered and ground by an improved process and is adjustable both endwise and sidewise. The frog is held in place by two machine screws which pass through the top iron and screw into two brass lugs. These lugs are screwed and securely pinned into the wood bottom.

SMOOTH

Nos.	22	24
Length in.	8	9
Cutter, in.	1¾	2
Weight lb.	2¼	2⅞
Each	$6.60	6.90

HANDLED SMOOTH

No.	35
Length, in.	9
Cutter, in.	2
Weight, lb.	3¼
Each	$8.10



JACK AND FORE

Nos.	26	28
Kind	Jack	Fore
Length, in.	15	18
Cutter, in.	2	2⅜
Weight lb.	3¾	5⅛
Each	$7.20	9.10

JOINTER

Nos.	31	32
Length, in.	24	26
Cutter, in.	2⅜	2⅝
Weight, lb.	6½	7⅝
Each	$9.70	10.50

Packed one in a box

STANLEY IRON BLOCK PLANES

No. 102

No. 103

Japanned iron body and trim, polished bottom, tempered and ground steel cutter.

No. 102. Non-adjustable, with 1⅜ in. cutter, length 5½ in., weight ⅜ lb.....each, **$1.80**

No. 103. Adjustable, with 1⅜ in. cutter and lever adjustment, length 5½ in., weight ⅜ lb.....each, **2.60**

One in a box

No. 110

No. 120

Iron body, japanned inside, polished bottom and sides, japanned trim, tempered and ground steel cutter, rosewood stained knob.

No. 110. Non-adjustable, with 1⅝ in. cutter, length 7 in., weight 1⅜ lb.....each, **$2.50**

No. 120. Adjustable, with 1⅝ in. cutter and lever adjustment, length 7 in., weight 1⅜ lb.....each, **3.60**

One in a box

No. 203

No. 220

Iron body, japanned inside, polished bottom and sides, japanned trim, tempered and ground steel cutter, rosewood stained knobs, adjustable.

No. 203. Adjustable, with 1⅜ in. cutter, screw adjustment, length 5½ in., weight 1⅜ lb.....each, **$3.20**

No. 220. Adjustable with 1⅝ in. cutter, screw adjustment, length 7 in., weight 1½ lb.....each, **3.70**

One in a box

STANLEY LOW ANGLE BLOCK PLANES

No. 61

No. 60

Iron body, japanned inside, polished bottom and sides, nickel plated trim, tempered and ground steel cutter, adjustable endwise cutters

No. 61. Non-adjustable throat, cutter 1⅜ in., length 6 in., rosewood stained knob, weight 1¼ lb....each, **$5.00**

No. 60. Adjustable, with throat and lateral adjustment, 1⅜ in. cutter, length 6 in., weight 1¼ lb.....each, **5.70**

One in a box

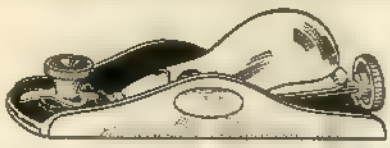
No. 65½

Iron body, japanned inside, polished bottom and sides, japanned trim, tempered and ground steel cutter, adjustable endwise cutter.

No. 65½. Adjustable, with adjustable throat and lateral adjustment, 1⅝ in. cutter, length 7 in., weight 1⅜ lb. .....each, **$5.60**

One in a box

STANLEY IRON PLANES



No. 65 LOW ANGLE BLOCK PLANES

Iron body, japanned inside, polished bottom and sides, nickel plated steel cap, knuckle joint, tempered and ground steel cutter.

No. 65. Knuckle joint, cutter adjustable endwise, cutter 1⅝ in., length 7 in., weight 1⅜ lb.....each, **$6.80**

One in a box

No. 62 LOW ANGLE PLANES

Iron body, japanned inside, polished bottom and sides, tempered and ground steel cutter, rosewood stained handle and knob, adjustable throat and lateral adjustment.

No. 62. Adjustable, with 2 in. cutter, length 14 in., weight 3⅝ lb. .....each, **$6.70**

One in a box

No. 130 DOUBLE END BLOCK PLANES

Iron body, japanned inside, polished bottom and sides, japanned trim, tempered and ground steel cutter, rosewood stained knob

No. 130. Double end, with two slots and cutter seats, cutter 1⅝ in., length 8 in., weight 1⅝ lb.....each, **$3.70**

One in a box

No. 131 COMBINATION ADJUSTABLE PLANES

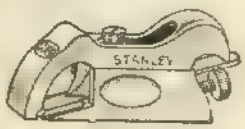
Iron body, japanned inside, polished bottom and sides, japanned trim, tempered and ground steel cutter, non-adjustable, rosewood stained knob.

No. 131. Combination adjustable block and bullnose plane, with two slots and cutter seats, cutter 1⅝ in., length 8 in., weight 1½ lb.....each, **$6.00**

One in a box

STANLEY RABBET PLANES

No. 75
BULLNOSE



No. 90
CABINET MAKERS

No. 75. Japanned iron stock, polished bottom, 1 in. cutter, length 4 in., weight ⅝ lb.....each, **$1.80**

No. 90. Nickel plated iron stock, polished bottom, 1 in. steel cutter, adjustable throat can be widened or narrowed for coarse or fine work, cutter is adjustable endwise, can be used close into corners, length 4 in., weight 1 lb.....each, **9.50**

One in a box

HAY CARRIERS

LOUDEN JUNIOR FOR STEEL TRACK

Reversible and Swivel

Operates on double bead steel track. Has refined malleable iron frame with special quality gray iron wheels. The rope wheels are 4 inches and the track wheels 2¾ inches diameter on the tread.

The carrier has a wide flaring mouth and a round capped fork pulley which never fails to enter the carrier at the proper time, no matter from what angle the fork is drawn and regardless of swinging load or twisting ropes.

The fork is carried within 12 inches of the track. Each carrier is furnished with 1 fork pulley, 1 trip block, 2 end stops and the rope swivel. Weight 25 pounds

No. 439. Hay carrier complete as above. ....each, **$20.00**
No. 366. Fork pulleys, only. ....each, **3.30**

LOUDEN JUNIOR FOR WOOD TRACK

Built exactly like No. 431 except that it uses 4x4 inch wood track instead of steel

Each carrier is furnished with 1 fork pulley, 1 trip block and 1 rope swivel. Weight 28 pounds.

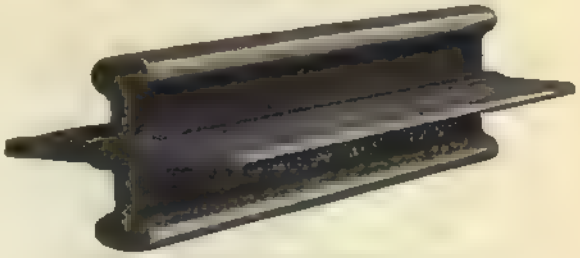
No. 441. Hay carrier complete, as described.....each, **$20.00**

STEEL TRACK SPLICES

Malleable iron complete with six bolts

No. 550. Splices, weight 1¼ pounds.... each, **$0.90**

HAY CARRIER FIXTURES



DOUBLE BEAD STEEL TRACK

High carbon steel, 2 x 1⅞ inches, weight per foot 2 pounds. If properly supported every 24 inches it will safely carry a load of 3000 pounds.

No. 571. Track for No. 430 carriers, with splices, per foot, **$0.60**

In lengths of six, eight and ten feet

No. 498

No. 424

RAFTER BRACKETS

No. 465

TRACK HANGERS RIDGE POLE BRACKETS

No. 498. Track Hanger, malleable iron in two parts, bolted together, weight ¼ pound.....per dozen, **$4.00**
No. 424. Rafter Bracket, pressed steel, weight per dozen 3¾ pounds.....per dozen, **1.60**
No. 465. Ridge Pole Bracket, pressed steel, weight per dozen 3 pounds.....per dozen, **3.00**

No. 780

No. 372

HANGER HOOKS FOR WOOD TRACK

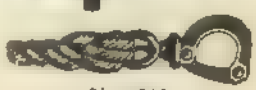
½ inch steel rod

No.	Style	Length, Inches	Weight Dozen, Pounds	Per Dozen
780	Straight	14	9	$2.20
780	Straight	16	12	2.20
372	Jointed	14	12	4.00

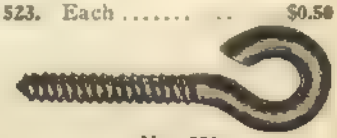
END STOPS

Blocks to be clamped on end of track to prevent carrier running off the open rail, weight each ¾ pound.

No. 523. Each **$0.50**



No. 383



No. 390

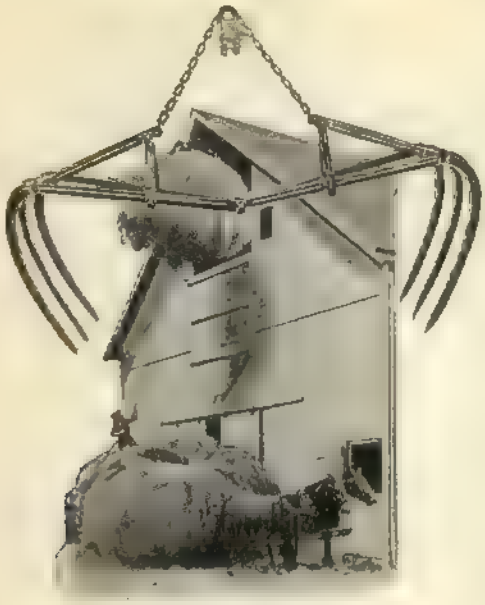
ROPE HOOKS

No. 383. Rope Hook, malleable iron, for cross draft carriers, weight 1 pound.....per dozen, **$8.80**

FLOOR HOOKS

No. 390. Floor Hook, steel, ⅜ x 6 inches, weight per dozen 10½ pounds.....per dozen, **5.80**

HORSE HAY FORKS



No. 351

GRAPPLE

The arched support of these grapple forks secures a perfect balance by means of which they can be opened or closed with the slightest touch.

They are made of high grade steel, very stiff with just enough spring to prevent breaking under heavy work.

No. 351. 6 tines, 19 inches apart, open 58 inches, tines enter hay 24 inches, weight 45 pounds.....each, **$27.50**

No. 648. 4 tines, 19 inches apart, open 58 inches, tines enter hay 24 inches, weight 40 pounds.....each, **24.00**

No. 356

NELLIS HARPOON
Single

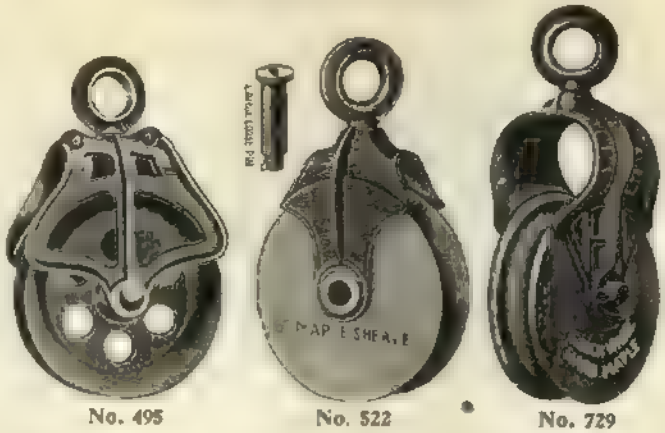
No. 356. Nellis Single Harpoon Hay Forks, 26 inch tine, weight 11 pounds.....each, **$11.50**

No. 353

HARRIS HARPOON
Double

No. 353. Harris Double Harpoon Hay Forks, forged steel tines, 24½ inches under the cross bar, 15½ inches wide between tines, weight 15 pounds..each, **6.50**

HAY FORK PULLEYS



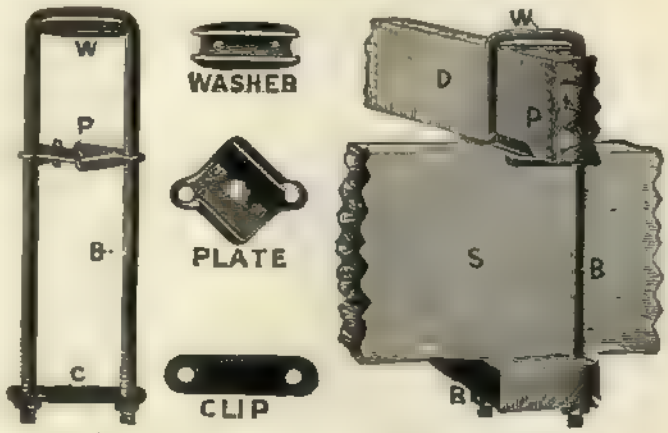
No. 495 No. 522 No. 729

No. 495. 6 inch gray iron sheave, malleable frame, swivel eye, weight 5⅛ pounds.....per dozen, **$12.00**

No. 522. 6 inch maple sheave, cast iron frame, large loose pin, self-oiling axle, weight 3¼ pounds.....per dozen, **13.50**

No. 729. 6 inch maple sheave, cast iron knot-passing frame, large loose pin, self-oiling axle, weight 4 pounds .....per dozen, **16.00**

HAY RACK CLAMPS



Parts of Set Method of Construction

LOUDEN

Used for building hay racks of all sizes

By means of these clamps and plates the timbers of a rack can be put together and securely held in position without boring holes in the sills or upper cross pieces.

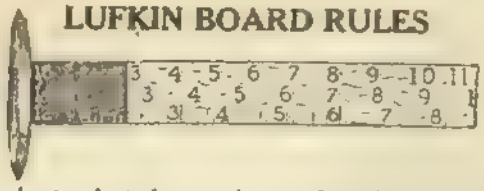
A rack can be built in one half the time when the clamps are used and the timbers are not weakened by having holes bored in them.

A set consists of 8 top washers, 8 intermediate plates, 8 lower clip plates and 8 U shaped clamp bolts. The top washers and intermediate plates are malleable iron; the bottom plates and clamps are steel.

No. 645-1. Clamps as described, with clamp bolts 14 x ⅜ inches, weight per set 11¾ pounds.....per set, **$3.00**

No. 645-2. With clamp bolts 16 x ⅜ inches weight per set 12¾ pounds.....per set, **3.25**

LUFKIN BOARD RULES



Very best selected second growth white hickory, burnt in figures, tempered steel, oval cap, brazed to heavy brass shoulder, 2 in. long, three tier, with handles 6 in. long.

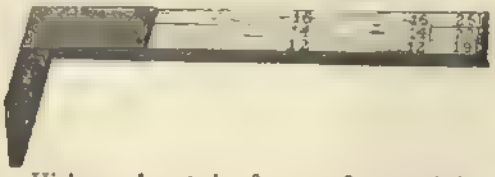
With Inspector's Board Rule

Nos.	1	1N
Width, in.	1⅛	1
Figured, in.	36	36
Entire length, in.	42	42
Weight per doz., lb.	7½	6¼
Per dozen	$55.00	55.00

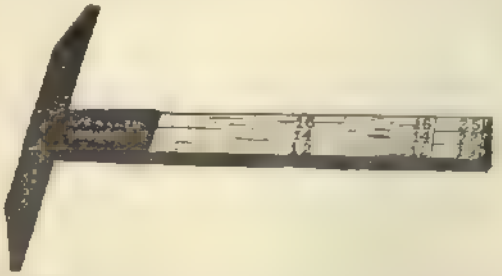
For Yard or General Use

Nos.	2	1XN	2N	2XN
Width, in.	1⅛	⅞	1	⅞
Figured, in.	30	36	30	30
Entire length, in.	36	42	36	36
Weight per doz., lb	6	6	5¼	5
Per doz.	$51.50	55.00	51.50	51.50

LUFKIN LOG RULES



No. 16½. Hickory, burnt in figures, flat steel hook; figured 48 in., with 8 in. handle, full length 56 in.; weight per doz. 10½ lb.....per dozen, **$57.50**



No. 18. Hickory, burnt in figures, double T steel hook; figured 48 in., with 8 in. handle, full length 56 in.; weight per doz. 12 lb.....per dozen, **$59.50**

Note—When ordering log rules, state log scale wanted.

LUFKIN LUMBER GAUGES

No. 00. Aluminum, for measuring thickness of lumber; ⅜, ½, ⅝, ¾, ⅞, 1, 1¼, 1½, 1¾, 2 in.; weight per dozen 9 oz.....per dozen, **$10.50**

One twelfth dozen in a box

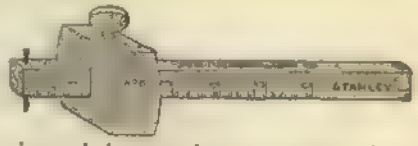
MARKING STICKS

For Lumber Crayons

Marking sticks, nickel plated crayon holder 36 in., hardwood handle, weight per doz. 7½ lb.....per dozen, **$43.50**

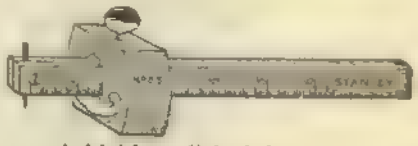
STANLEY WOOD MARKING GAUGES

Are made of selected wood. The bars are oval in form and are graduated in 16ths of inches for 6 inches from the point. Marking points are of tempered steel and are securely locked by screws, but can be readily removed for sharpening.



No. 61. Beechwood, boxwood screw, square head, stationary point, weight per doz., 2⅜ lb...per dozen, **$2.70**

One dozen in a box



No. 68. Boxwood, highly polished, brass screw, square head, brass face plate, adjustable point, weight per doz., 3¼ lb.....per dozen, **$16.60**

One half dozen in a box

STANLEY BUTT GAUGES

No. 94

No. 95

Nickel plated iron, steel bars, three cutters and set screw. These tools comprise rabbet gauges, marking gauges and mortise gauges of a scope sufficient for all door trim, including lock plates, strike plates, etc.

No. 94. For rabbeted jambs or nailed strikes; graduated in 16th inches for 2 inches; can also be used as a marking and mortise gauge and as an inside or outside square for squaring the edge of butt on either door or jamb; weight each 10 oz.....each, **$3.30**

No. 95. For rabbeted jambs; graduated in 16th inches for 2 inches; made so that it can be used as inside or outside square for squaring the edge of the butt on either the door or the jamb; weight 8 oz..each, **3.10**

One in a box

MALLETS

ROUND HICKORY

No.	Head Inches	Handles Inches	Weight Dozen Pounds	Per Dozen
1	5 x 3	10½	15½	$7.50
2	5½ x 3½	13	22	9.00

IRON HEADS, HICKORY ENDS

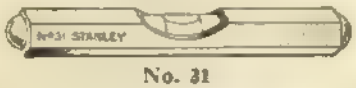
No. 18. Heads 4x2½ in., handles 10½ in.; weight per doz. 34 lb.....per dozen, **$15.00**

Packed in bulk

STANLEY POCKET LEVELS

No. 40. Japanned iron body, attached to square or straight edge, weight per dozen 1⅝ lb...per dozen, **$3.80**

One dozen in a box



No. 31

Nickel plated hexagon body, proved level glass

Length, in.	2½	3	3¼
Weight per doz., lb.	¾	1	1¾
No. 31. Per doz.	**$10.80**	**13.20**	**15.60**

One half dozen in a box

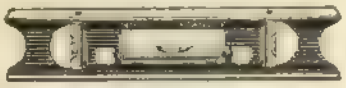
STANLEY METALLIC PLUMBS AND LEVELS

No. 36

Japanned iron; milled top and bottom; two plumbs; proved level glasses; nickel plated cases; adjustable, smooth bottom.

Length	6	9
Weight each, lb.	⅞	1¼
No. 36. Per doz.	**$48.00**	**60.00**

One twelfth dozen in a box



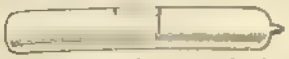
No. 36

Japanned iron body; milled top and bottom, two plumbs, proved level glasses, nickel plated cases, adjustable; smooth bottom.

Length, in.	12	18	24
Weight each, lb.	1¾	3	4¼
No. 36. Per doz.	**$72.00**	**84.00**	**96.00**

One twelfth dozen in a box

STANLEY PROVED LEVEL GLASSES



Made of extra thick tubing, marked at its central or crowning point by two indelible lines, enabling user to very quickly center the bubble.

Length, in.	1¾	2	2½	3
Weight per doz., lb.	¼	⅜	½	⅝
Per doz.	**$1.60**	**1.80**	**2.00**	**2.20**

One dozen in a box

STANLEY LEVEL SIGHTS

Special iron, japanned, nickeled set screws

No. 1. For wood levels; size 1½ x 2 in.; weight per pair ¼ lb. .....per pair, **$2.40**

No. 2. For iron levels, size ¾ x 1¼ in.; weight per pair ¼ lb. .....per pair, **2.40**

Level sights are attached to level and used for leveling from one given point to another a long distance away.

One pair in a box

STANLEY LEVELS

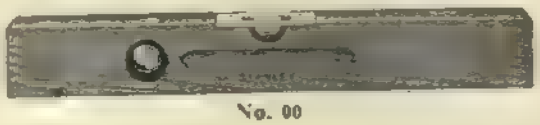
No. 102

Hardwood, cherry stained; brass square top plate; two side views; proved glasses, non-adjustable

Length, in.	10	12	14	16
Weight, lb	¾	⅞	1	1⅛
No. 102. Per doz.	**$15.60**	**15.60**	**16.80**	**16.80**

One dozen in a case

STANLEY PLUMBS AND LEVELS



No. 00

Hardwood, cherry stained; brass top plate, two side views; proved glasses, non-adjustable, stock 1⅜ x 3⅛ in.

Length, in.	18	20	22
Weight, lb.	1¾	2	2¼
No. 00. Per doz.	**$28.80**	**28.80**	**31.20**

One half dozen in a case

No. 0

Hardwood, cherry stained; brass top plate; two side views; proved glasses, non-adjustable; stock 1⅜ x 3⅛ in.

Length, in.	24	26	28	30
Weight, lb.	2¼	2½	2¾	3
No. 0. Per doz.	**$32.40**	**32.40**	**34.80**	**34.80**

One half dozen in a case

No. 3

Hardwood, cherry stained; brass tips and square top plate, proved glasses, adjustable, stock 1⅜ x 3⅛ in.

Length, in.	24	26	28	30
Weight, lb.	2½	2¾	3	3¼
No. 3. Per doz.	**$57.60**	**57.60**	**60.00**	**60.00**

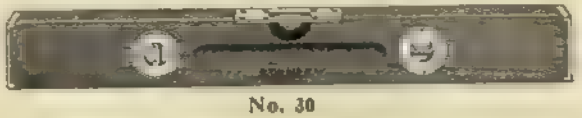
One half dozen in a case

No. 5

Hardwood, cherry stained; brass tips, lips and top plate, proved glasses; single plumb, adjustable; stock 1⅜ x 3⅛ in

Length, in.	24	26	28	30
Weight, lb.	2¼	3	3¼	3½
No. 5. Per doz.	**$75.60**	**75.60**	**78.00**	**78.00**

One half dozen in a case



No. 30

Duplex; hardwood, cherry stained; brass tips, plumb rings and square top plate; proved glasses, adjustable; stock 1⅜ x 3⅛ in.

Length, in.	24	26	28	30
Weight, lb.	2¼	3	3¼	3½
No. 30. Per doz.	**$75.60**	**75.60**	**79.20**	**79.20**

One half dozen in a case

STEAM WHISTLES

Brass Bells

Fig. D1116
Single Tone
Without Valve
Iron Base

Fig. D1117
Single Tone
With Valve
Brass Base

Fig. D1118
Chime
With Valve
Brass Base

Diam. of Bell Inches	Fig. D1116 Each	Fig. D1117 Each	Fig. D1118 Each	Pipe Connection Inches
1	$	3.10		¼
1¼		3.75		¼
1½		4.00	7.00	⅜
2		5.50	10.00	⅜
2½		7.40	13.00	½
3	5.50	8.50	16.00	½
3½	7.25	13.00	22.00	1
4	10.00	16.50	28.00	1¼
5	16.00	27.50	44.00	1½
6	23.00	37.50	60.00	1½

WHISTLE VALVES

For Steam Pressure Up to 200 Pounds

Brass body, screwed ends. Lever adjustable to any position. Valve seat can be reground when worn

Size Inches	Each
¼	$ 2.00
⅜	2.00
½	2.50
¾	3.00
1	4.40
1¼	5.60
1½	7.40
2	14.00

Fig. D1119

BLAKESLEE JET PUMPS

Fig. D1121

MODEL A

All parts are interchangeable. Freezing does not injure the pump, as it is self draining. Has no valves, cannot wear out. Pumps sandy or dirty water equally well. Entirely independent of engine. Very simple. Operates by a relatively small jet of steam entering the pump body and expanding its energy upwards. This pump cannot be successfully operated by gas or air. It is a steam pump, which, rightly operated, does its work effectively and without failure.

Size of Pump Inches	Each	Suction Pipe Inches	Discharge Pipe Inches	Steam Pipe Inches	Capacity Per Minute Gallons	Weight Pounds
¾	$ 8.00	⅜	½	⅜	8	4
1	10.00	1	¾	½	15	6
1¼	12.00	1¼	1	½	20	8
1½	14.00	1½	1¼	¾	30	12
2	16.00	2	1½	¾	40	16
2½	20.00	2½	2	1	50	24
3	24.00	3	2½	1	60	33
4	70.00	4	3	2	250	60

Price List of Parts of Blakeslee Jet Pumps

Model A

	Sizes to Inches							
	½ Each	¾ Each	1 Each	1¼ Each	1½ Each	2 Each	2½ Each	3 Each
Nuts, iron				$0.50	.50	.60	.80	.90
Nuts, brass	$0.50	.50	.50	.75	.75	1.00	1.50	1.50
Nipples, iron	.25	.25	.25	.35	.35	.60	.75	1.00
Nipples, brass	.50	.60	.75	.80	1.50	1.75	2.20	2.50
Combining tubes, brass		.75	.75	.75	1.00	1.00	1.50	1.50
Steam tubes, brass		.25	.50	.50	.60	.60	.75	.75
Bodies, iron		1.50	2.00	2.20	2.50	2.80	3.00	3.50

"XL-96" IMPROVED EJECTOR, SIPHON OR STEAM JET PUMP

Lifts 22 to 25 feet. Elevates 25 to 125 feet, 30 to 100 pounds pressure, no lift.

Fig. D1120

Nos.	Each All Brass	Each Iron Body Brass Jet	Pipe Connection Steam	Pipe Connection Suction and Delivery	Weight Each Pounds
1	$ 8.00	.....	⅜	⅜	1
2	10.00	.....	½	¾	1⅜
3	15.00	.....	¾	1	2⅞
4	20.00	.....	1	1¼	3½
5	25.00	20.00	1	1½	5⅜
6	35.00	27.50	1¼	2	8½
* 7	50.00	40.00	1½	2½	13¾
* 8	70.00	50.00	2	3	27
* 9	105.00	70.00	2	3½	37
*10	145.00	95.00	2½	4	44

*Not carried in stock; will ship from factory.

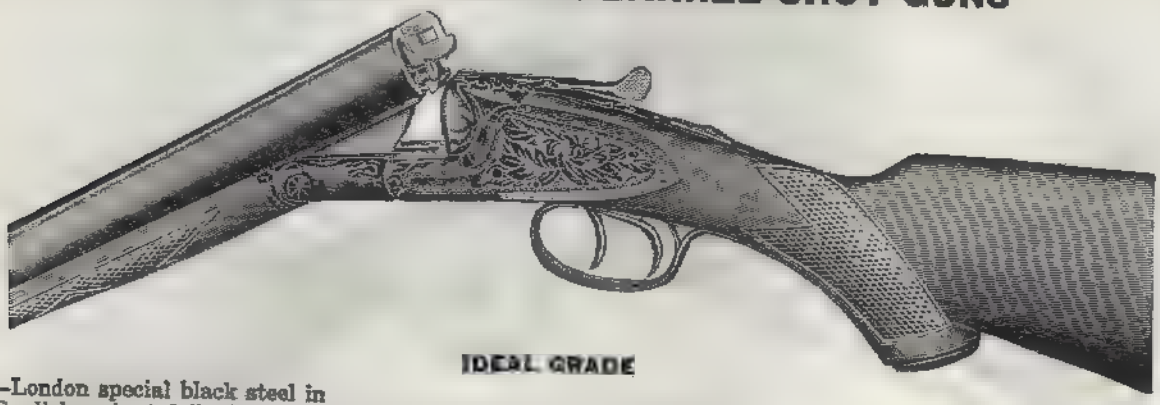
Capacity Per Hour, Gallons

Nos.	40 to 65 Pounds Steam Pressure 3 Feet Lift	25 to 40 or 65 to 100 Pounds Steam Pressure 3 Feet Lift	40 to 65 Pounds Steam Pressure 50 Feet Elevation	25 to 40 or 65 to 100 Pounds Steam Pressure 25 Feet Elevation
1	240	235	120	180
2	500	450	250	375
3	840	700	420	625
4	1,135	1,300	650	950
5	1,995	1,850	975	1,450
6	3,500	3,300	1,750	2,600
7	5,700	4,350	2,500	3,750
8	9,500	8,760	4,750	7,250
9	13,000	12,300	6,800	10,200
10	18,400	17,100	9,200	13,800

Vertical Lift

Nos.	Feet 40 to 75 Pounds	25 to 40 Pounds	75 to 100 Pounds
1	23	20	20
2	25	22	22
3	25	22	22
4	25	22	22
5	25	22	22
6	25	22	22
7	25	22	22
8	25	22	22
9	25	22	22
10	25	22	22

L. C. SMITH DOUBLE BARREL SHOT GUNS

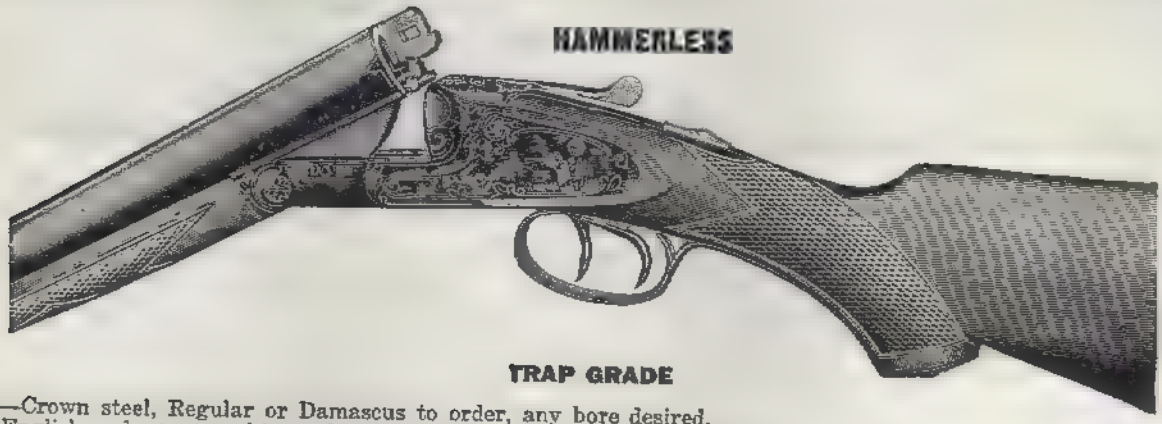


IDEAL GRADE

Barrels—London special black steel in
Stock—English walnut full pistol grip, capped, checkered and well finished.
Frame—Neatly engraved.

No. F0—**12 gauge,** 30 in. barrels, **plain extractor,** w't 6¼ to 8¼ lbs.★ ..... each **$95.10**
10, 16 and 20 gauge, 30 and 32 in. barrels, **plain extractor★** ..... each **95.10**
No. F0A—**12 gauge,** 30 in. barrels, **automatic ejector,** w't 6¼ to 8¼ lbs.★ ..... each **118.80**

HAMMERLESS



TRAP GRADE

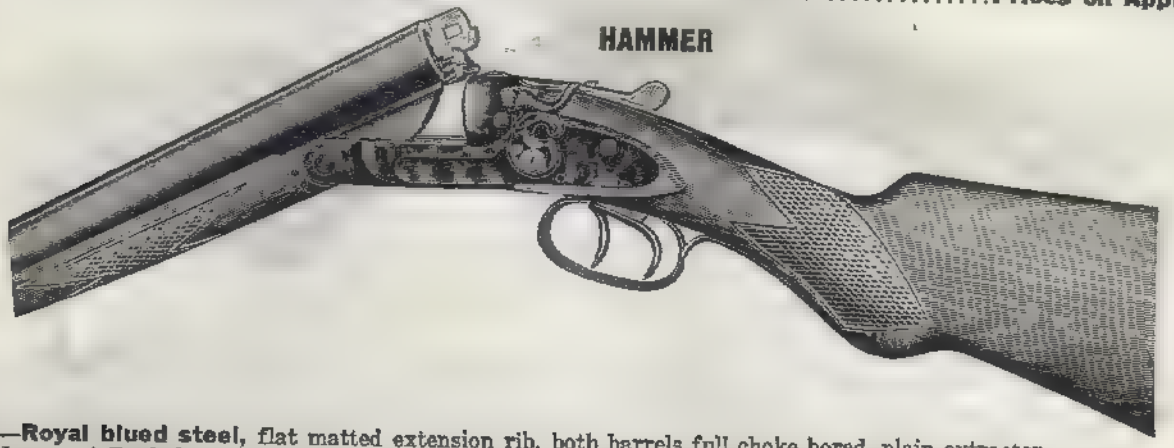
Barrels—Crown steel, Regular or Damascus to order, any bore desired.
Stock—English walnut, straight or pistol grip, checkered and finely finished.
Frame—Lock plate engraved with trap-shooting scene.

No. F1—**10, 12, 16 and 20 gauge,** 26, 28, 30 and 32 in. barrels, **plain extractor★** ..... each **$130.30**
No. F1A—**10, 12, 16 and 20 gauge,** 26, 28, 30 and 32 in. barrels, **automatic ejector★** ..... each **155.60**

HUNTER ONE TRIGGER MECHANISMS

No. F1T—Fitted to **Field, Ideal** and **Trap** grades, additional★ ..... **Prices on Application**

HAMMER



Barrels—**Royal blued steel,** flat matted extension rib, both barrels full choke bored, plain extractor.
Stock—Imported English walnut, checkered half pistol grip and patent snap fore-end, rubber butt plate.
Frame—Case hardened, full bar action rebounding locks, new style low circular hammers, blued guard.

No. 90—**12 gauge,** 30 or 32 in barrels, w't 7½ to 8 lbs. ..... each **$63.20**
No. 1690—**16 gauge,** 28 in. barrels, w't 6¾ to 7¼ lbs. ..... each **63.20**

★ Items Marked Thus ★ are Shipped from Factory Only.

DOUBLE BARREL SHOT GUNS

FULTON HAMMERLESS

This Fulton hammerless is made by The Hunter Arms Co., makers of the L. C. Smith Guns, and is constructed on the same lines and by the same workmen as their highest grade guns. It is a strong, substantial gun, and will stand the severe test to which all guns are subjected in these days of heavy nitro loads.

Barrels—Fluid blued steel, matted extension rib, plain extractor, both barrels full choke bored.
Stock—Selected walnut half pistol grip, neatly checkered and finished, hard rubber butt plate, selected checkered walnut snap fore-end.
Frame—Case hardened, drop forged top lever, automatic safety rebounding locks.

No. 100—**12 gauge,** 30 or 32 in barrels, w't 7½ to 8 lbs. ..... each **$60.50**
No. 16100—**16 gauge,** 30 in. barrels, w't about 7 lbs. ..... each **60.50**
No. 20100—**20 gauge,** 28 in. barrels, w't about 6¼ lbs. ..... each **60.50**

L. C. SMITH HAMMERLESS

Grade Field.

Barrels—Armor steel, blued.
Stock—English walnut, full pistol grip, capped checkered and well finished.
Frame—Built for hard usage.

No. 00—**12 gauge,** 30 or 32 in. barrels, **plain extractor,** w't 6¼ to 8 lbs. ..... each **$79.20**
16 gauge, 28 or 30 in. barrels, **plain extractor,** w't 6¼ to 7 lbs. ..... each **$79.20**
20 gauge, 28 in. barrels, **plain extractor,** w't 5¾ to 6¼ lbs. ..... each **79.20**
No. 00A—**12 gauge,** 30 in. barrels, **automatic ejector,** w't 6¼ to 8¼ lbs. ..... each **100.00**

MACKINAWS AND STAG SUITS

MEN'S AND BOYS' MACKINAWS

All are double breasted models, with shawl collars, full belts, double stitched and bound seams, armholes and facings. 2 large set-in patch pockets with flap, cuff sleeves. Sizes 30 to 46. SPECIFY SIZES

20 Oz Mackinaw—About 90% wool loose all around belt.

MEN'S—Over 34 in. long. Sizes 36 to 46.

1A830—HEATHER & NAVY PLAID.
1A831—OXFORD & BROWN PLAID.
Each, **$6.60**

BOYS'—Over 30 in. long. Sizes 6 to 15 yrs.

1A836—HEATHER & NAVY PLAID. Each, **$5.00**
1A838—BROWN ground, OXFORD & GREEN OVERPLAID Each, **$4.90**

34 Oz All Wool Mackinaw—Yoke back and inverted pant. Over 32 in. long. **Boys'**, sizes 6 to 12 yrs.

1A820, NAVY, MAROON & DARK GREEN
1A821, NAVY, MAROON & DARK OXFORD
Each, **$6.50**

34 Oz All Wool Mackinaw—Heavy wool, 9 oz detachable belt. **Men's**, sizes 34 to 46.

1A816—Plain OXFORD GRAY. Each, **$7.85**

34 Oz All Wool Mackinaw—35 in. long. 3 pc. detachable belt. **Men's**, sizes 34 to 46.

1A814, NAVY, MAROON & HEATHER
1A815—NAVY, MAROON & DARK GREEN. Each, **$6.50**

YOUTHS' AND YOUNG MEN'S MACKINAWS

Double breasted, large shawl collar, 2 button loose all around belt, set-in patch pockets with flaps, button trim cuffs, double stitched and bound seams, armholes and facings. Sizes as stated. SPECIFY SIZES.

Youths'—Heavy mackinaw cloth. Over 34 in. long, sizes 14 to 18 yrs.

1A7001 2—20 to 30 oz. oxford plaid, 3 pockets. Each, **$5.50**
1A7003-2 27 to 38 oz. heather mixture, 3 pockets. Ea. **$5.50**
1A7003-J—20 to 22 oz. brown & oxford, 2 pockets. Each, **$6.00**

Young Men's—30 to 32 oz. all wool mackinaw, over length 32 in. sizes 34, 36, 38 and 40 years (equivalent to 31, 32, 34 and 36" chest measure).

1A3061 OXFORD, green brown and faint maroon overplaid. Each, **$6.25**

MEN'S STAG SHIRT AND TROUSERS

You can't beat this suit for long wear and hard service

Heavy 40 oz DARK OXFORD mackinaw cloth, about 50% wool specially tailored for work and service. SPECIFY SIZES.

1A085—Shirt, 3 large patch pockets, turned down collar, double stitched seams. Sizes 15 to 18. Each, **$4.35**

1A856—Trousers, 5 pockets, extra heavy drill pockets, taped seats, riveted buttons, belt loops. Sizes 34 to 46 in. waist. Pr. **$4.50**

MEN'S EXTRA LONG MACKINAWS

Two remarkable values built for comfort and service.

40 oz. mackinaws, about 50% wool, double breasted, large shawl collar, loose all-around belt, 2 large set-in patch pockets with flaps, cuff sleeves, double stitched and bound seams, armholes and facings

1A918—38 in. long Each. **$9.75**
1A919—42 " " " **10.50**

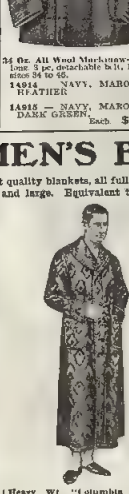
ALL YOUR WANTS in one shipment, one bill to check, one drayage charge, economy in investment, freight, time and bother. These are only a few of the blessings that flow to the merchants who orders from this catalogue.

MEN'S BATH ROBES "SOLID COMFORT"

Every robe made of first quality blankets, all full cut, correctly proportioned, piped armholes, piped and stitched seams, heavy tassel cord girdle.
Sizes: Small, medium and large. Equivalent to 36, 38, small; 38 to 40, medium; 42 to 46, large. SPECIFY SIZES.

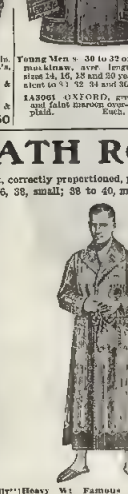
Good Wt "Lawrence" Blanket—3 tone striped and figured pattern border and pockets to match, high close fitting collar cord tie at neck model. 2 large patch pockets.

1A8641—NAVY BLUE
1A8641—BROWN
Each **$3.95**



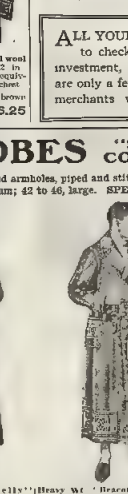
Heavy Wt "Columbia Kelly" Robe—10% wool fleecy 3 tone all-over figured pattern shawl collar model silk cord trim front and collar, 2 large patch pockets.

1A8649—LIGHT BROWN
1A8650—MAROON
Each. **$5.95**



Heavy Wt Famous "Kelly" Blanket 10% wool fleecy rich 3 tone striped and fancy pattern bordered cuffs and patch pockets to match, shawl collar model, with cord trim collar and front, piped facing. 2 large patch pockets.

1A8652 NAVY
1A8653 DK BROWN
Each **$8.25**



Heavy Wt "Beacon" Blanket Soft fleecy finish, 4 tone rich coverings striped and figured effect pattern, bordered cuffs and pockets to match convertible collar model, silk cord trim collar and front, piped facing. 2 large patch pockets.

1A8655—DK BROWN
1A8656—DK OXFORD
Each **$8.75**

Soft finish, double faced cloth, striped back, contrasting long roll collar, heavy silk cord tied tassel girdle, silk braid and cord trim front, collar, cuffs and 3 pockets

1A8635—DARK OXFORD with BLUE overcast. Each. **$9.75**

"Madame Hendren" Walking and Talking Dolls

(The Doll with the perfect Mama Voice)

Guttapercha bodies, filled with sanitary kapoc. Beautifully modeled unbreakable head, expressive eyes, pretty baby features, embossed hair. Ruddy tint composition arms, modeled fingers. White socks, patent leather shoes with metal buckle. Each in box.

T675—Rt. 15½ in., assrd. dresses of crinkle cloth, lace collar and cuffs, pretty cap to match. In lots of one doz. or more.
(Doz., $26.00) Each, $2.50

T676 Rt. 17½ in., assrd. colored stripet madras dresses with lace cuffs, trimmed collar and cuffs. In lots of one doz. or more.
(Doz., $32.00) Each, $2.88

T677—Rt. 20½ in., assrd colored romper dresses, embroidered edge collar and cuffs. In lots of one doz. or more. ..(Doz., $40.00) Each, $3.50

T678—Rt. 25½ in., assrd. color corded dimity dresses, finely fully trimmed with lace cuffs, silk ribbon bowknots, lace edge ruffles and cuffs, pretty baby cap to match. In lots of one doz. or more. ..(Doz., $60.00) Each, $5.25

China Limb Dolls

Well proportioned glazed heads, painted shoes, features and hair. Heads are well formed. T6415D Turkey Dot. Other numbers packed 1 doz.

T6415D—Rt. 6½ in.
(Gro., $4.50), Doz., 40c
T6416D—Rt. 7½ in.
(Gro. $5.25), Doz., 45c
T6417D—Rt. 8½ in.
(Gro., $7.00) Doz., 60c
T6418D—Rt. 9 in.
(Gro., $8.75) Doz., 72c
T6419D—Rt. 10 in.
(Gro., $10.00) Doz., 85c
T6420D—Rt. 11 in.
(Gro., $10.80) Doz., 92c
T6421D—Rt. 12 in.
Doz., $1.65

Floral cloth covered bodies. Arms flowered with name of each, white and black painted hair, pretty features, glazed finished and head.

T6424—Rt. 7½ in. 1 doz. in box.
(Doz., $10 20
Doz., $7c
T6425 Rt. 12 in. 1 doz. in box Doz., $2.10

Glazed heads and limbed unjointed formed bodies, white cloth covered, black painted hair, pretty features.

T6422—Rt. 7½ in. 1 doz. in box.
(Gro., $2.80), Doz., 77c
T6423—Rt. 12 in. 1 doz. in box Doz $1.35

Glazed China Dolls

Well formed white glazed china bodies, free arms and legs, painted hair, pretty features.

T6426—Rt. 5½ in. 1 doz. in box. Gro. 85c
T6427 Rt. 6½ in. 1 doz. in box. Gro., $1.50
T6428 Rt. 8½ in. 1 doz. in box.
(Gro. $2.20, Doz., 30c
T6429 Rt. 9 in. 1 doz. in box.
(Gro., $4.80), Doz., 42c
T6430 Rt. 10½ in. assrd. body 1 doz. in box
(Gro., $8.50), Doz., 72c

Following numbers with gold painted shoes.

T6431—Rt. 8½ in. 1 doz. in box.
(Gro., $4.25), Doz., 37c
T6432—Rt. 10½ in. 1 doz. in box.
(Gro., $6.25) Doz., 70c

POPULAR PRICED BISQUE HEAD DOLLS

T7018

T7018—Rt. 8½ in., movable bisque head, painted features, short curly wig, jointed arms, white slip, 2 doz. in pkg ... . Dot. 65c

T7019—Rt. 10½ in. assrt color cloth dress lace trimmed, movable bisque head, short curly wig, jointed limbs, painted shoes. 2 doz. in box Doz 65c

T7021 T7022 T7023

T7021—Rt. 6½ in., 1 doz. in box. (Gro., $5.50) Doz., 75c

T7022—Rt. 6 in., jointed limbs, stout body, movable bisque head, short curly hair, pink, blue and red sacd dresses. 1 doz in box.
(Gro., $10.00) Doz., 85c

T7023 Rt. 7 in. jointed limbs, paint on shoes, pret y movable bisque head, dress eyes and lovely short curly hair and dresses 1 doz in box.
(Gro., $12.00) Doz. 97c

BOY AND GIRL BISQUE CHARACTER DOLLS

Hollow bisque bodies, rivet jointed limbs, painted shoes and stockings, beautifully modeled heads with embossed hair, pretty features.

T6440 T6443 T6444

T6440—Boy, bt. 4 in. 1 doz. in box.
(Gro., $4.80), Doz., 42c

T6442—Girl, bt. 4 in. 1 doz. in box.
(Gro., $4.80), Doz., 42c

T6443 Boy, bt. 5½ in. 1 doz in box.
(Gro., $10.20), Doz 87c

T6444—STAR VALUE. Girl, bt. 6 in. 1 doz. in box. .. ..(Gro., $10.50). Doz 90c

T6442—Boy, bt. 6 in. 1 doz in box
(Gro., $13.50 . Doz., $1.15

T6448—Girl, bt. 6½ in. 1 doz. in box

BOY AND GIRL BISQUE BATHING DOLLS

Pretty quality, painted bobbed style hair, pretty features, rivet jointed limbs, embossed and decorated bathing suits.

T6445—Girl bt. 3½ in. 1 doz in box
(Gro., $4.80): Doz., 42c

T6449—Boy, bt. 3½ in. 1 doz. in box.
(Gro., $4.80); Doz., 42c

T6447—Girl, bt. 5 in. 1 doz in box.
(Gro. $10.20), Doz., 87c

T6448—Boy, bt. 5 in. 1 doz in box.
(Gro., $10.20), Doz., 87c

T6448—Girl, bt 6½ in. 1 doz in box
(Gro., $13.50) Doz., $1.15

T6431—Boy, bt. 6½ in. 1 doz. in box.

BISQUE CHARACTER BABIES

Hollow bisque bodies, rivet jointed arms and standing position legs, flesh color, prettily modeled heads, painted hair and features.

T6437—Rt. 3½ in. 3 doz. in box
(Gro., $4.20), Doz., 37c

T6438 Rt. 4½ in. 1 doz. in box
(Gro. $9.00) Doz 77c

T6439 Rt. 6½ in. 1 doz. in box.
(Gro., $13 50), Doz., $1.15

BISQUE BABIES

Hollow bisque bodies, flesh color, rivet jointed arms and legs, pretty modeled heads, painted hair and features.

T6433—Rt. 3½ in. 1 doz. in box.
(Gro., $4.20) Doz., 37c

T6435—Rt. 5½ in. 1 doz. in box
(Gro $9.00) Doz., 77c

T6436 Rt. 6½ in. 1 doz in box.
(Gro., $13.50 Doz $1.15

CURLY HAIR WASHABLE DOLLS

T5037 Ht 13½ in., flesh tint composition bisque, glass eyes, pretty features, short curly hair. 1 doz. in box . . . Doz., $3.60
T5038 Ht. 17½ in. 16 doz. in box. Doz., $4.25
T5040 Ht 13½ in. white lawn dress trimmed with satin ribbon, composition flesh tint bisque, mohair wig, short curls, glass eyes. 1 doz. in box. Doz., $3.60

T5041—Ht. 13½ in., sitting position body, otherwise as T5040. 1 doz. in box . . . . Doz., $4.25

T5033 Ht. 7½ in., composition flesh tinted jointed bisque, painted hair, pretty features, asst. color dresses with embroidered collar. 1 doz. in box. (Gro., $15.00) Doz., $1.35

T5034—Ht. 8 in., boy and girl asst., composition flesh tinted bisque, painted hair and features, white dress, embroidered collar. 1 doz. in box. (Gro., $15.00) Doz., $1.35

NOVELTY DOLLS

T9025 T9026 T9027

T9025—Ht. 4½ in. Boy and Girl asst., composition bodies, jointed arms. 2 doz. asst. in box. (Gro., $5.00) Doz., 45c
T9026—Ht. 6¾ in. as T9025. 1 doz. in box. (Gro., $10.20) Doz., 87c
T9027—Ht. 5 in., flesh tint composition body, painted hair and features, bobbed hat. 1 doz. in box . . . . (Gro., $9.00). Doz., 77c

T9028 T9030

T9028—Ht. 4½ in., Fur Baby, jointed arms, flesh tint composition body, black fur hat and shirt. 1 doz. in box. . . . (Gro., $10.50) Doz., 90c
T9030—Ht. 4 in., flesh tint composition body, jointed arms, short hair, satin ribbon sash. 1 doz. in box. (Gro., $9.00). Doz., 77c

T9033 Bathing Baby. Ht. 10½ in., silver fur dressed, jointed arms, painted arms and stockings, bisque heads, glass eyes, long curly hair. ½ doz. in box . . . . . Doz., $3.60

DOLL HEADS

Wash tinted composition, pretty painted features and hair.

T9039—Bust 1½x1¾ in. ht. 3 in. 2 doz. in box. (Gro., $3.50). Doz., 32c
T9040 Bust 2x2 in., ht. 3½ in. 1 doz. in box. (Gro. $3.20) Doz. 37c
T9041 Bust 2x2½ in., ht. 4 in. 1 doz. in box (Gro., $7.50) Doz., 65c
T9042—Bust 2½x2¾ in., ht. 4½ in. ½ doz. in box. (Gro., $10.00). Doz. 85c
T9043 Bust 2¾x3 in., ht. 4¾ in. ½ doz. in box. Doz., $1.15

GLAZED CHINA DOLL HEADS

Pure white china, pleased, pretty features, asst. dark and light, painted hair.

T9042—Bust 1½x1¾ in., ht. 2½ in. 2 doz. in box (Gro., $2.00). Doz., 27c
T9043—Bust 1¾x2¼ in., ht. 3½ in. 1 doz. in box (Gro., $4.20). Doz., 37c
T9044—Bust 1¾x2¼ in., ht. 3 in. 1 doz. in box (Gro., $8.50). Doz. 75c
T9045—Bust 1¾x2¼ in., ht. 3½ in. 1 doz. in box (Gro., $10.00) Doz., 85c
T9050—Bust 2x2½ in., ht. 4¼ in. 1 doz. in box (Gro., $13.50) Doz., $1.15

DOLL HEADS WITH CURLY HAIR

T9045—Bust 1½x1¾ in., ht. 2 in. 7 doz. in box (Gro. $7.50) Doz., 65c
T9046—Bust 2x2 in., ht. 2½ in. 4 doz. in box (Gro. $9.00) Doz., 77c
T9047 Bust 2x2½ in., ht. 4 in. 1 doz. in box (Gro. $10.00). Doz., 87c
T9048 Bust 2x2¾ in., ht. 4½ in. 1 doz. in box (Gro., $12.00) Doz., $1.05
T9049—Bust 2½x3 in., ht. 4½ in. ½ doz. in box. Doz., $1.50

DRESSED BISQUE DOLLS

T9060 T9061

T9060—Ht. 3½ in., full jointed, painted shoes and stockings, pretty features, bobbed style hair, beautifully dressed. 1 doz. in box (Gro., $9.00) Doz., 77c
T9061—Ht. 3½ in., rivet jointed arms, picture posture legs, knit sweater. 1 doz. in box (Gro., $9.50) Doz., 82c

T9061—Ht. 6 in. full jointed painted shoes and stockings, pretty bisque head, flesh tint . . . doz. in box . . . . Doz. $1.69

FULL JOINTED PINK KIDLYN DOLLS

Bodies covered with washable pink Kidlyn, securely stitched edges, beautifully modeled bisque heads, large moving eyes, flesh tint composition arms, white shoes and stockings, good quality mohair wigs with short pretty curls.

T9846 Ht. 13 in. Doz., $8.50
T9851 Ht. 16½ in. Doz., 13.50
T9853 Ht. 18½ in. Doz., 16.50
T9843—Ht. 20½ in. Each, 1.50
T9844—Ht. 22 in. Each, 2.25
T9845—Ht. 24 in. Each, 2.75

FULL JOINTED WHITE KIDLYN DOLLS

Beautifully modeled high grade bisque heads, large expressive sleeping eyes, good quality mohair wigs parted on side, short curls, composition flesh tinted arms, shoes and stockings, bodies covered with washable white kidlyn.

T9812 Ht. 12½ in. Doz., $8.25
T9813—Ht. 16½ in. Doz., 13.50
T9814—Ht. 18½ in. Doz., 16.00
T9815—Ht. 20½ in. Each, 1.75
T9816—Ht. 21½ in. Each, 2.25
T9817—Ht. 23 in. Each, 2.50
T9838 Ht. 7½ in., jointed limbs, painted shoes and stockings long curly hair, asst. embroidered and lace trimmed dresses. 1 doz. in box. Doz., $7.85

WALKING DOLL

T9585—Ht. 7½ in., bisque head, asstd. pretty dresses, jure body and leg. Actually walks when pushed across floor. A real merchandise . . each in box . . . . Doz. $3.60

WASHABLE DOLLS

White cloth covered bodies, flesh tinted composition bisque, glass eyes, pretty features, curly hair, side parted.

T9097— Ht. 13 in. 1 doz in box . . Doz. $2.15
T9099— Ht. 16 in. ½ doz in box. Doz. 3.95
T9100—Ht. 19½ in. ¼ doz in box Doz. 6.75

POPULAR PRICE WASHABLE DOLLS

T9015— Ht. 7½ in., composition bisque, flesh tint, painted shoes and stockings, curly hair, painted features, white slip with lace collar 1 doz. in box. (Gro., $10.20). Doz., 87c

T9016

T9016—Ht. 8½ in., flesh tint composition bisque, jointed arms, curly hair, pretty features, white slip with lace collar 1 doz in box. Doz. $1.50
T9018— Ht. 8½ in., rivet jointed arms, painted shoes and stockings, pink, blue, and white slip with lace collar short curly hair 1 doz. in box. Doz $1.85

T9017 T9014

T9017 STAR VALUE— Ht. 9½ in., rivet jointed arms and composition legs, pretty side parted curly hair, white slip with lace collar, 1 doz. in box. . . . . Doz. $1.90
T9014— Ht. 11 in., pretty modeled head, painted hair and features, glass eyes, composition limbs, white slip with embroidered collar 1 doz in box. Doz., $2.25

LAMPS

GLASS TABLE

New bead design, one piece very heavy clear crystal glass collar with brass thread, height 10½ in.

No. W9946½—In full barrels of 1½ doz., **without burner or chimney,** w't 106 lbs., per barrel $14.00
WE DO NOT BREAK PACKAGES

Heavy pressed glass, height 10½ in., extra large bowl or fount, No. 2 brass collar, cement fastening.

No. W1152½D—In full barrels of ½ doz., **without burner or chimney,** w't 90 lbs., per barrel $14.50
WE DO NOT BREAK PACKAGES

GLASS SEWING

JUMBO, height 19 in., new Grecian design, square base, extra large fount with new patent glass collar, large ornamental chimney to match fount, No. 2 brass burner, w't per doz. 100 lbs.

No. W9845—**Full one dozen barrel,** per dozen $16.90
WE DO NOT BREAK PACKAGES

GIANT PARLOR

Combination pressed and blown fount, diam. at base 6 in., imitation cut glass bottom, capacity 3 pints, special brass clinch on collar, No. 2 brass burner, mammoth globe chimney, height over all 15 in., w't per doz. 65 lbs.

This has the largest fount of any glass table lamp made.

No. W1200D—**Full one dozen barrel,** per dozen $14.00
WE DO NOT BREAK BARRELS

GLASS SEWING LAMPS

MAMMOTH moulded glass, height over all 19 in., base 6x6 in., extra large ornamental fount with clinch collar, large bulb, ornamental chimney to match fount, complete with No. 2 burner, w't per doz. 90 lbs.

No. W10D—**Full one dozen case,** per dozen $18.30
WE DO NOT BREAK PACKAGES

STORE

Illustration of No. 9273.

VESTAL, No. 2, central draft, fount holds 3 pints of oil, burns 8 hours, complete with No. 2 Rochester chimney and wick, with or without shade as listed below.

With 14 in. White Dome Shade, No. 1402, complete, w't 6 lbs.
No. 9173—Polished Brass, each $10.50
No. 09173—Nickel Plated Brass, each $10.70

With 20 in. Corrugated Tin Shade, No. 20, complete, w't 5½ lbs.
No. 9273—Polished Brass, each $8.00
No. 09273—Nickel Plated Brass, each $8.20

Without Shade, otherwise complete, w't 5 lbs.
No. 9373—Polished Brass, each $6.50
No. 09373—Nickel Plated Brass, each $6.70
HALF DOZEN IN A PACKAGE

CENTRAL DRAFT TABLE LAMP

NAUGATUCK, brass, nickel plated, ratchet wick raiser, patent chimney lift, outside filler, complete with 10 in. white dome shade, No. 132 Rochester chimney and No. 2 Royal wick, w't per doz. 26 lbs.
No. R9060—**Full half dozen case,** per dozen $73.20
No. 9060—**Less than case,** per dozen $73.20

MAMMOTH STORE

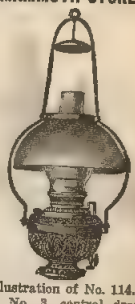


Illustration of No. 114.

JUNO, No. 3, central draft, embossed fount, holds 1 gallon of oil, burns 12 hours and gives a light equal to 800 candle power, equipped with oil indicator to prevent over-filling, combined screw and ratchet movement, simple re-wicking device and patent drip, complete with No. 3 Rochester chimney and wick, with or without shade as listed below.

With 14 in. White Dome Shade, No. 1402, complete, w't 8½ lbs.
No. 1114—Polished Brass, each $14.40
No. 01114—Nickel Plated Brass, each $15.00

With 20 in. Corrugated Tin Shade, No. 20, complete, w't 7 lbs.
No. 1120—Polished Brass, each $11.90
No. 01120—Nickel Plated Brass, each $12.50

Without Shade, otherwise complete, w't 6 lbs
No. 1128—Polished Brass, each $10.40
No. 01128—Nickel Plated Brass, each $11.00
HALF DOZEN IN A PACKAGE

BRACKET LAMPS

Bronzed cast iron bracket, with swinging socket, 8 in. silver glass reflector, No. 9120 filler fount, No. 102 sun burner, and No 402 sun crimped chimney, w't per doz. 50 lbs.

No. R553—Full one dozen case, per dozen $24.70

No. R553½—Full half dozen case, per dozen $24.00

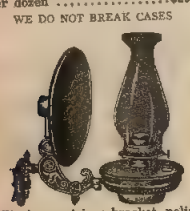
WE DO NOT BREAK CASES

French bronze finish, cast iron bracket, No. 9119 handled glass filler fount, 8 in. silvered glass reflector, No. 102 sun burner and No. 402 chimney, w't per doz. 51 lbs.

No. R556—Full one dozen case, per dozen $26.40

No. R556½—Full half dozen case, per dozen $29.00

WE DO NOT BREAK CASES



Gilt ring cast iron bracket, polished brass fount, No. 102 premier burner, No. 402 chimney, 8 in. silvered glass reflector, w't per doz. 35 lbs.

No. R580—Full one dozen case, per dozen $36.00

WE DO NOT BREAK CASES

KITCHEN SIDE LAMPS

Heavy tin blue lacquered frame, 7 in. corrugated tin reflector, No. 9123 glass fount, No. 152 burner.

With No. 2 Chimney and Burner, w't per doz. 35 lbs.

No. R816—Full one dozen case, per dozen $8.20

Without Chimney or Burner, w't per doz. 23 lbs.

No. R0816—Full six dozen case, per dozen $5.10

WE DO NOT BREAK CASES

Tinned steel frame, No. 9123 glass fount, No. 152 sun burner and No. 402 chimney, 7 in. tin reflector, w't per doz. 35 lbs.

No. R618 — Full one dozen case, per dozen $9.40

WE DO NOT BREAK CASES

Japanned tin fount, No. 152 sun burner and No. 402 chimney, tin reflector 9×10½ in., w't per doz. 35 lbs.

No. R583 — Full one doz. case, per doz. $13.50

WE DO NOT BREAK CASES

LAMP BRACKETS

No. 5530—Ring, bronze finish, lacquered to prevent tarnishing, with wall plate and reflector pin, 6 in. ring, projects 11 in., w't per doz. 11 lbs. .....per dozen $3.00

ONE DOZEN IN A PACKAGE; ONE GROSS IN A CASE

No. 5560—Bronze finish, lacquered to prevent tarnishing, machine-cut threads in the bowl, hangs level and rigidly, projects 13 in., w't per doz. 13 lbs. .....per dozen $6.70

HALF DOZEN IN A PACKAGE; HALF GROSS IN A CASE

No. 5561D—Wall plates for No. 556 bracket lamps ....per dozen $0.70

GLASS REFLECTORS

Silvered glass with metal back for bracket and station lamps.

7 Inch, w't per doz. 16 lbs.

No. R27—Full one dozen case, per dozen $9.30

9 Inch, w't per doz. 18 lbs.

No. R13—Full one dozen case, per dozen $10.40

No. W13½—In full packages of 3 doz., w't 56 lbs. ....per package $30.00

Silvered glass, flat back for hood reflector and car inspector lanterns.

5 Inch, w't per doz. 3 lbs.

No. W12—Full 5 dozen package, per package $32.50

No. R21—Full one dozen box, per dozen $7.80

WE DO NOT BREAK CASES

GARAGE EQUIPMENT

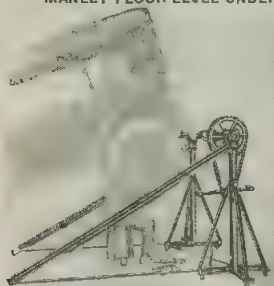
MANLEY, TRESTLES

Especially designed to hold a car in an inclined position in order to work on the under part of the chassis in safety and conveniently. Constructed of cast iron and steel; heavy cast sockets shaped to fit the tire adjustable post for seven positions, from floor to bottom of wheel sockets, 34, 37½, 41, 44½, 48, 51½, and 55 inches; equipped with two chocks bolted together and tied to the trestles for blocking the rear wheels, the tie rods are adjustable to different wheel bases. Each

No. A-66AT Trestles and chocks as illustrated above ✣$144 00

Weight each 200 lbs.

MANLEY FLOOR LEVEL UNDER-WORKER



Especially designed for garages, repair stations and wash racks, constructed throughout of steel and cast iron well supported and braced; the tracks are six inch channels stiffened in the middle; steel tie rods; electrically welded steel chain; drop forged steel hook; the unit is mounted on six ball-bearing casters. The chain is fastened to the axle or any location available and is pulled up to any height desired; when not in use the channels may be removed, the unit takes practically no room and is entirely out of the way. Each

No. A-68FLUW—Weight each 525 lbs. ✣$375 00

MANLEY TRUCK WHEEL DOLLY

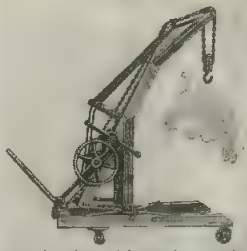
Especially designed for the removing, adjusting and handling of heavy truck wheels in garages, repair and tire stations. All steel construction with a supporting capacity of one ton, mounted on four ball bearing casters. After the truck has been jacked up, the projecting forks of the dolly are lowered until they pass under the wheel, then reversed until the weight of the wheel rests on the forks, holders swing against the tire, hooks are adjusted back of the inner rim to keep the wheels from falling and can be moved with ease to any location desired. Height over all 24 inches; width 44 inches; depth 37 inches. Each

No. A-70TWD—Weight each, 210 lbs. ✣$405 00

✣F. O. B. Pennsylvania Factory Only.

AUTOMOBILE CRANES

MANLEY, PORTABLE



Crane completely assembled as a portable floor crane with top extension in position. This top extension is only needed for high lifting and deep overhang, especially when taking out motor, etc.

Beam is of heavy angles built in an "A" shape for stiffness and in addition has a double truss on the top, making it very strong and rigid under the severest strain. Top extension pieces of flat steel and angles, quickly applied to the crane with two bolts and nuts. The saddle of two heavy angle uprights rigidly bolted to the angle foot and cross brace. The rear anchor piece is made of a 4 inch channel with a clip on each side properly spaced to receive the braces from top of saddle.

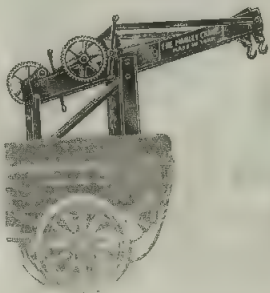
Base is made of selected white oak, 4 inches square. Has 6 inch wheels in front and roller bearing casters in rear. Gearing is exceptionally strong, of wide face and coarse pitch, protected by a guard for safety. Best grade of tested steel chain.

Each

No. A-100—Capacity 1½ ton; length of base 66 inches; width of base 36 inches; height of base 9 inches; height of lift 7 feet; overhang in clearance 36 ins.. $375 00

Shipping weight each 500 lbs.

MANLEY HEAVY WRECKING SERVICE



This crane is especially constructed for heavy wrecking service.

Made of heavy steel, amply braced and trussed for stiffness with a five ton lifting capacity, two chain lifting principle that works independently; quadruple chain reduction. The beam is pivoted on the king pin and can be raised or lowered to suit the job.

Width of frame 30 ins; length of frame 96 ins; projection beyond the king pin 48 and 54 inches; projection back of king pins 42 and 48 inches; distance from center to center of chain hooks 23 inches; height of king pin 38½ inches.

Each

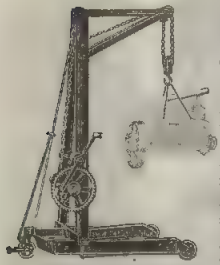
No. A-72WC—Weight each, 950 lbs. ✣$825 00

✣F. O. B. Pennsylvania Factory Only.

AUTOMOBILE CRANES

MANLEY

PORTABLE FLOOR CRANE



Especially designed for garage use. Always ready for instant use, will reach every corner of the shop.

The design of this crane is a cantilever bridge type, trussed down to the base with a steel tie rod, and has maximum strength. Combination cast iron and heavy I-beam base, with enough weight at the floor to hold it down. The base is of a broad spread mounted on three wheels, eliminating all twisting strains. Electric welded steel chain; the drum is steel and allows the chain to wrap singly. Hand may be moved from center to its extended position giving double leverage. For working in close quarters, this sliding feature is invaluable. Ratio of leverage, handle in center, 50 to 1; handle extended, 100 to 1. These leverages are more than double those of any other floor crane with equal capacity.

Each

No. A-62—Capacity 1 ton; width of base 36 inches; height of base 6 inches; height over all 8 feet; lift from floor 7 feet $315 00

Shipping weight each 515 lbs.

PULL-U-OUT

Portable Floor Crane.

This crane has many advantages over the regular crane, among which are its simplicity, adaptability, lightness and strength. Always ready with a strong pull or lift. For shifting heavy parts of machines, taking out or reseating engines, changing wheels or adjusting parts, etc., that are located on the under side of the car. It is handier to use for such purposes than jacks or overhead trolleys and is unlimited in action. Light in weight, but is so designed that it has tremendous strength, both in lifting device and crane.

The Pull-U-Out device can be detached from the crane and used as a block and tackle for innumerable purposes. It has a pulling strength seventy three times that of a man, and is strong enough for any ordinary purpose around a garage.

Crane made of 2½ inch extra heavy steel tubing, slip jointed and mounted on stone roller wheels. Black enameled finish.

Each

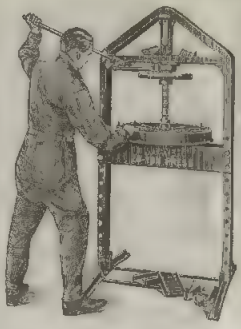
No. A-3CC—Complete with Pull-U-Out; base 3 feet 3 inches wide by 6 feet deep; height 10 feet; lifting capacity 2000 pounds; pulling capacity almost unlimited; lift from floor 9 feet 6 inches..... ✦$202 50

Shipping weight each 300 lbs.

✦F. O. B. Missouri Factory Only.

GARAGE EQUIPMENT

WEAVER PRESSES



Frame is made of 5 inch channel steel, in one piece, rigidly braced by a solid truss construction at the top; ball-bearing wheel; screw does not revolve; no bolted corners or connections to weaken. The lever mechanism provides a leverage of 1500 to 1 for normal service. This leverage can be doubled by shifting the ratchet arm to the center socket in the lever block.

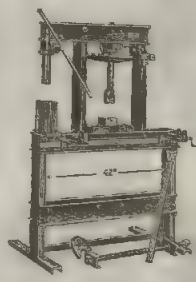
Each

No. A-8FP—Floor space 36x36 inches; width between uprights of frame 32 inches; height over all 72 inches; maximum capacity 28 tons; screw 2 inches in diameter with 3 pitch Acme mill cut thread; range of movement of approximately 12 inches..... $240 00

Crated; weight 435 lbs.

MANLEY

UNIVERSAL PRESSES



Combination, High Speed Rack and Pinion Press Attachment and Test Centers.

Frame is built of heavy 5 inch steel channels. Has two tables, the upper is stationary and the lower is adjustable.

The upper table, or press, has a clearance between uprights of 18½ inches and 19 inches under the screw. The lower table is a unit, rests on pins and is quickly and easily adjustable as to height. These clearances of 42 inches between uprights, are absolutely necessary to handle auto repair work. Screw is high carbon steel, 2 inch diameter; 4 pitch acme thread; does not revolve; travels 12 inches. Hand wheel is a heavy casting, 14 inches in diameter with 20 notches. Has two leverages, high power leverage 2200-6000 to 1 for heavy work and high-speed leverage of 1000 to 1 for light work.

Complete equipment; operating lever bar; two braced channel blocks; V plate with capacity up to 3 inches; V nose for screw; vise block; 1¼ inch threaded tie rod with two nuts and straps, for reinforcing lower table; extension piece for screw for lower table work and test centers.

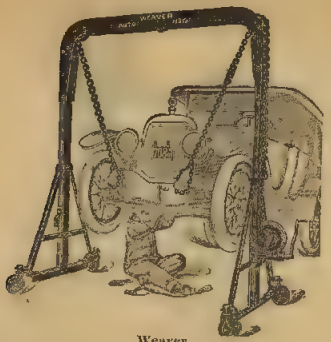
Each

No. A-21-42—Height over all 76 inches; floor space 40x36 inches $390 00

Crated; shipping weight each 475 lbs.

AUTOMOTIVE EQUIPMENT

AUTO HOISTS



Weaver

Showing Double Suspension

This hoist can be operated in cramped quarters. It is easily run into position. Requires only 12 or 14 inches space on either side of car. Adapted to conditions absolutely impossible to meet with other equipment. The frame is designed to permit height of arch to be increased approximately 12 inches, allowing uprights to be raised to desired height in the braces on either side. This increased height enables the hoist to raise the rear end of a limousine or touring car with the top up.

Showing Single Suspension

One chain of hoist may be carried over pulley in center of frame for performing work which can be handled to better advantage by single suspension. The hoisting mechanism is operated by worm drive, which is absolutely safe and positive. There are no gears nor ratchets to slip or break and allow the load to fall. Hoist is carried upon four ball and roller bearing casters, 5 inches in diameter. Construction throughout is of steel.

NO.	Height	Shipping Wt.	EACH
60WH	8 ft., 9 in.	500 lbs.	$200.00

PORTABLE FLOOR CRANES

Manley

Designed on the cantilever bridge type, trussed down to the base with a steel tie rod, and has maximum strength. Combination cast iron and heavy I-beam base; enough weight at the floor to hold it down; low center of gravity; base rests on three wheels, eliminating all twisting strains. Chain is 5-16 in. steel electric welded and is tested; crane hook is a drop forging and swivels. Drum is of steel and allows the chain to wrap singly. The gears are wide faced, with four pitch teeth and have proper safety guards. The operating handle may be moved from the center to its extended position, giving double leverage. Height over all 7 feet 6 inches.

NO.	Capacity	Lift	Overhang	Base Width	Wt. Ea. Lb.	EACH
66	1 ton	6½ ft.	35 in.	36 in.	500	$150 00

Manley

Manley Wrecking Cranes will handle wrecks of any description with one-third the labor, and in one-quarter to one-tenth of the time required by any other method. They are independent of road conditions; mud, snow, ruts, deep sand and chuck holes do not affect them. They are 100% method of handling wrecks. Easily and quickly mounted on a service car. Tilting beam a necessity.

NO.	Capacity	Wt. Each	EACH
101	2 ton	425 lb	$12,95

Manley

The Manley two-ton Combination Wrecking Crane is easily and quickly converted into a portable floor crane by mounting it on its base. It is light, strong and well-balanced. It has a deep overhang, which is necessary to garage work. Capacity as floor crane 1½ tons. Lift 7 feet. Constructed throughout from steel except gears and portable base. This is the same crane as No. 101 with the exception that it is provided with a base for floor use.

NO.	Capacity	Wt. Each	EACH
100	1½ to 2 ton	525 lb	$143.75

"CLYDE" DOGS.

LARGEST BRITISH SHIPPERS
of all kinds of
SPIKES, NAILS AND TACKS.

CERTIFICATE OF MECHANICAL TESTS

No	Area	Stress		Elongation.	Contraction
		Max. Tons per sq. in.	Elastic Tons per sq. in.	2 in.	Area
1	196	25·5	16·8	16·0	61·7
2	188	27·1	16·5	31·0	60·1

WHY YOU SHOULD BUY FROM US:—

The Point is so shaped it throws the Head well forward on to the Flange of the Rail. :: No other Dog has this advantage Manufactured with scrupulous care from the Highest Quality Mild Steel. Thoroughly Annealed and Toughened. Can be twisted to corkscrew shape without showing signs of fracture. Holds better than any other Dog.

CRAMPONS "CLYDE."

La plus importante maison anglaise d'exportation

RAISONS POUR LESQUELLES VOUS AVEZ D'AVANTAGE A ACHETER NOS PRODUITS

ESCARPIAS "CLYDE."

Los mayores exportadores ingleses de toda clase de Escarpias, Clavos y Tachuelas

CERTIFICADO DE PRUEBA MECANICA

LAS RAZONES POR QUE ESE DEBE COMPRAR DE NOSOTROS SON

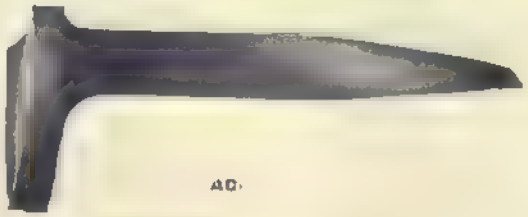
CLYDE NAIL CO., LTD., Newton, nr. Glasgow, SCOTLAND.

London Agents: GILLESPIE & MAYHEW, 14 15, Billiter Buildings, Billiter Street, E.C.
Telephone: *Téléphone:* Teléfono AVENUE 2626.

Telegraphic Address: *Adresse Télégraphique* Telegrafica
"CLYDE, HALLSIDE, LANARKSHIRE"

Code: *Code* Código
A B C 5th Edition).

"MANX" Patent Steel Dog-Eared Spikes.



AD.

Note the extra long Head, which takes a very firm hold of the rail.

Vous appelons l'attention du lecteur sur la tête extra longue de cet article assurant le plus parfait du rail

Observe la cabeza extra larga que permite una [illegible] firme sobre el rail

BASIS SIZES 4" × ½" and up, ... per Cwt. 3d. per Cwt. less in 2 ton Lots.

EXTRAS.

2"			2½"			2¾"			3"			3½"		4"		
½"	⅝"	¾"	½"	⅝"	¾"	½"	⅝"	¾"	½"	⅝"	¾"	½"	⅝"	¾"	⅞"	
5/-	4/6	4/-	4/6	3/-	2/6	3/-	2/6	2/-	2/-	1/6		1/6	9d.	6d.	6d.	Per Cwt.
										9d.	6d.	6d.	6d.	6d.	3d.	

STOCK SIZES.

½" and ⅝"
2" 2¼" 2½" 2¾" 3"
3½" 3¾" 4"
4¼" 4½" 5" 5¼" 6"
4" 4½" 5" 5½" 6"
3" 3¼" 4" 4½" 5" 5½" 6"
5" 5½" 6"

In all correspondence refer to "N" Dept

Crampons d'Acier à Oreille, Marque "MANX" Brevetée.

GRANDEURS COURANTES 102 × 12,7 m/m *et au dessus frs.* ..... *les* 50 *kg* *Les lots de* 2 *tonnes comportent une réduction de frs.* 0,30 *les* 50 *kg*

GRANDEURS SPÉCIALES

GRANDEURS COURANTES

Indiquer le Département "N"

Escarpias de Acero con Orejón, Patente "MANX."

TAMAÑOS NORMALES 102 × 12,7 m/m, Precio ..... los 50 kgs [illegible] en lotes de dos toneladas

EXTRAS

BUTCHER BLOCKS

+Not Carried in Stock; For Factory Shipment Only

+ No. F1935A—SECTIONAL MAPLE

Made from carefully selected and specially prepared Hard Maple Blocks, glued, cemented and bolted together under hydraulic pressure; bolts have Oxidized Caps; Gauge Steel Bolts have Oxidized Head Caps, very ornamental in design. Fitted with Turned Legs, automatically wedged solid (no loose Legs); Finished in Natural Wood; Height Over-all 34 in.; Blocks 16 in. Deep; Legs 18 in. Long

Size, In.	24x30	25x25	25x30	26x28	28x30	30x30	30x35
Wgt. Ea. Lbs.	350	290	360	350	400	425	490
Each	$43.60	38 60	45.10	44.00	45.00	53 00	61.30

+No. F1935B—ROUND SYCAMORE

Height from Floor to Top 36 In.

Nicely Turned, Painted and Varnished.

Diam. Top, In.	26	28	30	32	34	36	38
Wgt. Ea. Lbs.	229	273	321	372	427	486	549
Each	$21 00	24.00	27.00	30.00	33 00	36.00	39.00

FLY SWATTERS

KING

Black Screen Wire Head, Leather bound End, Selvidge Edge on sides, Black Enameled Wood Handle.

Per Dozen

No. 1935D—Length 18 in.; Size Head 5x5½ in.....$1.60

One Dozen in Box

Weight 2 Lbs.

QUEEN

Black Screen Wire, Edges bound with Black Felt; Black Enameled Wood Handle.

Per Dozen

No. 1935E—Length 18 in.: Size Head 4¾x6 in.....$1.70

One Dozen in Box

Weight 1¾ Lbs.

12 Mesh Black Wire Cloth; Edges Bound with High Grade Felt; Long Rigid Wire Handle.

Per Dozen

No. 1935F3—Length 24 in.; Size Head 8x4¾ $1.30

One Dozen in Box

Black Wire Cloth; Edges Bound with Felt, Rigid and Durable Wire Handle; Convenient Loop in End.

Per Dozen

No. 1935F5—Length 17 in.; Size Head 8x4¾.....$1.50

One Dozen in Box

FLY TRAPS

OUT-DOOR

Per Dozen

No. 1935H — Large Size; Height 15 in., Diam. 11½ in., Green Wire Screen, Reinforced by Heavy Tin around the Bottom, Top and Sides $25.00

Half Dozen in Carton

Weight 21 Lbs. Dozen

SURE CATCH

Per Dozen

No. 1935J—Height 5 in., Diam. 5 in.; Tin Base and Rim; Blued Wire Cloth Body; Easily taken apart; Weight 4 Lbs. per Dozen....$4.00

One Dozen in Carton

ACME

Per Dozen

No. 1935K—Heavy Tin Top, Bait Pan and Stays; Heavy Painted Wire Cloth; Cone and Body separate; Height 6½ in., Diam. 4¾ in....$2.00

One Dozen in Case

Weight 4 Lbs. Dozen

MOUSE TRAPS

OUT-O-SIGHT

Auto-Baited

Elmwood Base, Coppered Wire Spring and Catch; Auto-Baited Trigger, no other bait required.

Per Dozen

No. 1935L—Size Base, 3¾x2 In. $1.50

One Dozen in Box

Weight 1 Lb. Dozen

KETCH-EM

Wood Base, Coppered Wire Spring and Catch, Metal Trigger.

Per Dozen

No. 1935M—Size Base, 3¾x2 In. $0.40

One Dozen in Box

Weight 1 Lb. Dozen

WOOD CHOKER

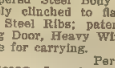
Wood Base, Red Stained; Coppered Wire Springs.

Per Dozen

No. 1935N—4 Hole; Diam. 4¾ In $1.80

One Dozen in Package

Weight 4¼ Lbs Dozen



CLIPPER

Coppered Steel Body Wires securely clinched to flat tempered Steel Ribs; patent Self Closing Door, Heavy Wire Top Handle for carrying.

Per Dozen

No. 1935R—Length 8 In.; Width 4½ In. $15.00

One Dozen in Bundle

Weight 5 Lbs. Dozen

RAT TRAPS

CLIPPER

Heavy Coppered Steel Wires securely clinched to flat, tempered Steel Ribs; Self closing door, Heavy Wire top handle for carrying.

Nos.	W1935T	W1935V
Length, In.	16	10
Width, In.	8½	10
Wt., Dozen, Lbs.	17	27
Per Dozen	$20.00	30 00

Half Dozen in Crate.

Weight 6 Lbs. Dozen

OFFICIAL

Heavy Hardwood Base; Coppered Steel Wire Spring bail and lever, heavy Steel Wire Double Action Trigger, all parts strongly stapled to base

Per Dozen

No. 1935W—Size of Base, 7x3½ in. $2.50

One Dozen in Box

Weight 6 Lbs. Dozen

HOLD FAST

Hardwood Base, Coppered Steel Wire Spring, bail and lever, Wood Trigger; all parts strongly stapled to base.

Per Dozen

No. 1935X — Size of Base, 3½x7 In $1.70

One Dozen in Box

Weight 6 Lbs. Dozen

ASSORTMENTS

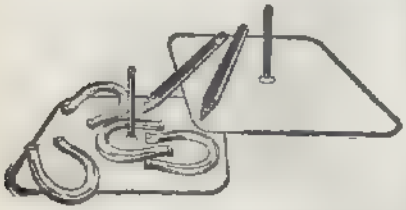
Wood stave Basket on Wood Tripod which holds basket at convenient height; With neat display card.

Per Assortment

No. P1935Y—Contains 242 Traps; 216 Mouse and 26 Rat Traps, Height of Basket when mounted on tripod 27 In., Weight 30 Lbs Assortment $11.00

No. P1935Y2—Contains 2½ Gross Mouse Traps only in Basket Without Tripod; Weight 26 Lbs. Assortment 10.00

"PITCH EM" HORSE SHOE GAME



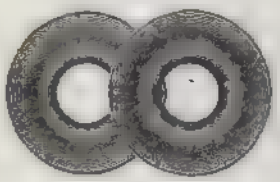
Indoor game, play in the parlor or on the lawn.

No. 1—Horse shoes of best rubber on flexible steel, four to a set, two metal discs with upright posts for indoor use, two neat wooden pegs for outdoor use, w't per doz. sets 35 lbs., per dozen sets $24.00

ONE SET IN A BOX, ONE DOZEN SETS IN A CASE

QUOITS

English model, japanned fr[illegible] painted black and numbered.



No. 100—6 in., w't per set of 4, 16 lbs. .....per dozen sets $67.70

No. 101—Iron quoit pins, per dozen $0.60

No. 300—Para Rubber, 5½ in., for playing indoors and out, four quoits to a set .....per dozen sets $66.00

IRON DUMB BELLS

No. 30—

Sizes 1, 2, 3, 4, 5, 6, 7, 8, 10, 12, 15, 20 and 25 lbs. .....per 100 lbs. $26.70

Sizes 50 and 75 lbs., with steel bar cast in ....per 100 lbs. $24.90

MAPLE DUMB BELLS

First quality maple, finished in hard oil, polished.

A pair of 1 lb. dumb bells weighs 2 lbs.

No. 20—

Pounds ...	1-2	3-4	1	1½
Per dozen pairs ...	$11.20	12.80	15.70	19.60
Pounds	2	2½	3	
Per dozen pairs ..	$23.10	26.90	30.10	

MAPLE INDIAN CLUBS

First quality maple, finished in hard oil polished.

A pair of 1 lb. Indian clubs weighs 2 lbs.

No. 10—

Pounds	1-2	3-4	1
Per dozen pairs ..	$13.50	14.10	17.10
Pounds	1½	2	2½
Per dozen pairs .	$20.20	25.00	27.20
Pounds			3
Per dozen pairs			$30.45

WHITELY EXERCISERS

No. 00—Whitely Ideal, with chart, short cable, suitable for boys or girls, light or medium, w't per doz. 15 lbs. .....per dozen $36.00

PACKED COMPLETE WITH SCREWS. ONE SET IN A BOX

TRAPEZE AND SWINGING RINGS

No. 88.

TRAPEZE

No. 89—Adjustable, extra strong webbing, strong hickory bar, w't complete 3 lbs. .....each $10.70

SWINGING RINGS

No. 88—Adjustable, extra strong webbing supports, japanned rings, perfectly safe for 16 ft. ceiling, w't complete 9½ lbs. .....per pair $11.60

HOCKEY STICKS

No. 11. Nos. 30 to 24.

No. 11—Second growth ash, blade 1⅞ in. wide, a strong reliable stick, w't per doz. 12 lbs., per dozen $7.50

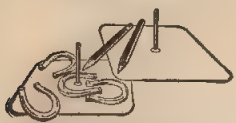
No. 30—Standard second growth ash, blade 1⅞ in. wide, finished in a very superior manner, w't per doz. 9 lbs., per dozen $7.50

No. 26—Boys, second growth ash, blade 1¾ in. wide, an exceptional value at the price, w't per doz. 8 lbs. per dozen $5.50

No. 24—Junior, hard maple, boys' size, w't per doz. 6 lbs., per dozen $7.50

HALF DOZEN TIED TOGETHER

"PITCH EM" HORSE SHOE GAME



Indoor game, play in the parlor or on the lawn.

No. 1—Horse shoes of best rubber on flexible steel, four to a set, two metal discs with upright posts for indoor use, two neat wooden pegs for outdoor use, w't per doz. sets 35 lbs., per dozen sets $24.00

ONE SET IN A BOX, ONE DOZEN SETS IN A CASE

QUOITS

English model, japanned iron painted black and numbered.

No. 100—6 in., w't per set of 4, 16 lbs. .....per dozen sets $67.70

No. 101—Iron quoit pins, per dozen $0.69

No. 300—Para Rubber, 5½ in., for playing indoors and out, four quoits to a set .....per dozen sets $66.00

IRON DUMB BELLS

No. 30—

Sizes 1, 2, 3, 4, 5, 6, 7, 8, 10, 12, 15, 20 and 25 lbs. .....per 100 lbs. $26.70

Sizes 50 and 75 lbs., with steel bar cast in ....per 100 lbs. $24.90

MAPLE DUMB BELLS

First quality maple, finished in hard oil, polished.

A pair of 1 lb. dumb bells weighs 2 lbs.

No. 20—

Pounds ...	1-2	3-4	1	1½
Per dozen pairs ...	$11.20	12.80	15 70	19.60
Pounds	2	2½	3	
Per dozen pairs ..	$23.10	26.90	30.10	

MAPLE INDIAN CLUBS

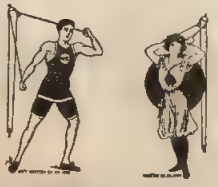
First quality maple, finished in hard oil polished.

A pair of 1 lb. Indian clubs weighs 2 lbs.

No. 10—

Pounds	1-2	3-4	1
Per dozen pairs ..	$13.50	14.10	17.10
Pounds	1½	2	2½
Per dozen pairs .	$20.20	25.00	27.20
Pounds		3	
Per dozen pairs		$30 45	

WHITELY EXERCISERS



No. 00—Whitely Ideal, with chart, short cable, suitable for boys or girls, light or medium, w't per doz. 15 lbs. .....per dozen $36.00

PACKED COMPLETE WITH SCREWS. ONE SET IN A BOX

TRAPEZE AND SWINGING RINGS

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No. 89—Adjustable, extra strong webbing, strong hickory bar, w't complete 3 lbs. .....each $10.70

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No. 11—Second growth ash, blade 1⅞ in. wide, a strong reliable stick, w't per doz. 12 lbs., per dozen $7.50

No. 30—Standard second growth ash, blade 1⅞ in. wide, finished in a very superior manner, w't per doz. 9 lbs., per dozen $7.50

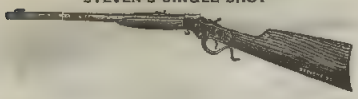
No. 26—Boys, second growth ash, blade 1¼ in. wide, an exceptional value at the price, w't per doz. 8 lbs. per dozen $5.50

No. 24—Junior, hard maple, boys' size, w't per doz. 6 lbs., per dozen $7.50

HALF DOZEN TIED TOGETHER

RIFLES

STEVEN'S SINGLE SHOT



New Favorite.

Octagon, blued steel barrel, 24 inches long; Rocky mountain front and sporting rear sights; blued frame; lever action; automatic ejector; walnut stock and fore-end; shot gun butt; rubber butt plate. Weight each 4¼ pounds.

Each

No. $NF2722 -22 caliber; with automatic ejector; shoots: **22 Shorts,** Nos. 22SL, 22SB, 22SSU, 22SSG, 22SSHP, 22SLHP, **22 Longs,** Nos. 22LL, 22LB, 22LSU, 22LSG, 22LSUHP, 22LHP $30 75

No. $NF2732—32 caliber; without automatic ejector; shoots R. F. cartridges Nos. 32S and 32L..... 30 75

One in a cardboard box; 10 in a wood case.

Ideal, Take Down.

24 inch, half octagon barrel, Rocky Mountain front sight and sporting rear sight; case hardened frame; solid breech block; single trigger; oiled walnut stock and forearm; steel butt plate; central extractor.

Each

No. 4422 -22 caliber; with automatic ejector; shoots **22 Long Rifle,** Nos. 22LRL, 22LRS, 22LRSHP, 22LRLHP; weight each 7 lbs..... $56 25

No. 4425 -25 caliber; without automatic ejector; shoots .25 Stevens rim fire cartridges; weight each 7 lbs..... 56 25

No. 4432 -32 caliber; without automatic ejector; shoots .32 rim fire round cartridges; weight each 7 lbs..... 56 25

One in a cardboard box; 10 in a wood case.

Armory, Take Down, With Automatic Ejector.

26 inch round barrel, Rocky Mountain front and receiver rear sights; case-hardened frame; solid breech block; single trigger; oiled walnut stock and forearm; shotgun butt with steel butt plate; center extractor.

Each

No. 41422L—22 caliber; shoots 22 long rifle cartridges, Nos. 22LRL, 22LRS, 22LRSHP and 22LRLHP..... $65 25

One in a cardboard box; 10 in a wood box.

HAMILTON, SINGLE SHOT

Take Down. 16 Inch Barrel.

Round steel barrel, 16 inches long; length over all 30 inches; fitted with front knife blade sight and adjustable open rear sight; plain stained stock and fore-end; blued steel butt plate. Weight 2¾ lbs.

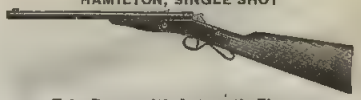
No. H2722—22 caliber; shoots **22 Shorts,** Nos. 22SL, 22SB, 22SSU, 22SSG, 22SSHP, 22SLHP, **22 Longs,** Nos. 22LL, 22LB, 22LSU, 22LSG, 22LSUHP, 22LLHP $7 95

Each

Ten in a wood case.

RIFLES

HAMILTON, SINGLE SHOT



Take Down, with Automatic Ejector.

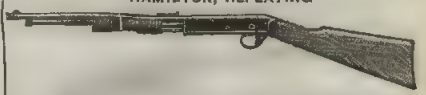
Round steel barrel, 16 inches long; length over all 30 inches; fitted with front knife blade sight and adjustable open rear sight; walnut stock and fore-end; rifle butt stock with steel plate.

Each

No. H02722—22 caliber; shoots **22 Shorts,** Nos 22SL, 22SB, 22SSU, 22SSG, 22SSHP, 22SLHP; **22 Longs,** Nos. 22LL, 22LB, 22LSU, 22LSG, 22LSUHP, 22LLHP $8 85

Ten in a wood case.

HAMILTON, REPEATING



Model No. 39, 22 caliber. Take Down with pump action. Magazine holds 15 Short, Rim Fire Cartridges. Automatic lock prevents accidental discharge while operating pump action, as trigger can not be pulled until breech is locked in firing position. Pump action is automatically locked when rifle is loaded and ready to fire. A trigger lock in the gun just back of trigger may be used to prevent accidental discharge when rifle is loaded. This lock is not automatic. Barrel is bronze lined, accurately rifled, with solid steel breech. Front sight knife pattern, rear sight open and adjustable, stock and forearm genuine walnut turned. Length over all 35 inches. Length of barrel assembly when taken down, 21¼ inches. Weight about 4 lbs each.

Each

No. 3922—22 caliber, shoots 22 short rim fire cartridges $27 00

One in a cardboard box; 10 in a wood case.

GAME GETTER GUNS

MARBLE'S DOUBLE BARREL

Single Shot.

22 Caliber Rifle Barrel and 44 Caliber Smooth Barrel.

Round blued barrels 12 inches long, drop forged blued frame, single trigger; nickel plated steel tubing stock, rubber grips.

Fine leather holster with shoulder straps; length of gun attachment 10 inches; weight each about 35 ozs.

Shoots 44X or 44WCF 44 shot and ball cartridges; 22 short, 22 long and 22 long rifle cartridges.

Shoots: **Shot Cartridges,** Nos. 44XLSB and 40-40WSB; **22 Shorts,** Nos. 22SL, 22SB, 22SSU, 22SSG, 22SSHP, 22SLHP; **22 Longs,** Nos. 22LL, 22LB, 22LSU, 22LSG, 22LSUHP, 22 LLHP; **22 Long Rifle,** Nos. 22LRL, 22LRS, 22 LRSHP, 22LRLHP,

Each

No. A—Equipped with Marble's flexible rear sight, lock leaf sight, improved front ivory bead sight..... ◆$61 50

No. B—Equipped with blank sight, lock leaf sight, improved front ivory bead sight..... ◆53 25

One in a wood case.

◆F. O. B. Michigan Factory Only.

AIR RIFLES

DAISY—Lever Action.

Single Shot and Repeaters.

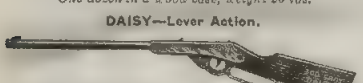
Lever action; blued; extremely simple; removal of one screw enables user to remove all parts for inspection or replacement.

Peep rear sight and Rocky Mountain front sight; black walnut stock; length over all 31 1/16 inches; weight each 1 11/16 lbs.

	Per Dozen
No. 12—Single shot, shoots air rifle shot and 1/100 darts	$49 50
No. 11—850 shot, repeater; shoots air rifle shot only	54 00

One dozen in a wood case, weight 26 lbs.

DAISY—Lever Action.



500 and 1000 Shot Repeaters.

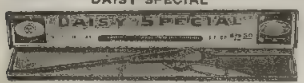
Magazine repeater; lever action, loads by operating the lever; shooting barrel provided with patented shot retainer that enables the user to shoot downward without losing the shot.

Blued steel barrel and frame; turned stock of genuine black walnut, highly polished, fitted with blued steel butt plate. This rifle shoots with great force and precision; shoots air rifle shot; length over all 36 in.; wt. each 2 5/16 lbs.

	Per Doz.
No. 30—500 shot repeater	$67 50
No. 3—1000 shot repeater	72 00

Half dozen in a wood case, weight 20 lbs.

DAISY SPECIAL



1000 Shot Repeater.

Blued steel barrel and frame beautifully polished; stock made of carefully selected walnut, hand polished; an extra strong and accurate shooter; each gun in a handsome box with hinged cover ready for display in show case or window, sells readily to boys of all ages for target practice; length over all 36 inches.

	Per Dozen
No. 33—1000 shot repeater, shoots air rifle shot; weight each about 2 1/2 lbs	$99 00

Each in a display box, weight 28 lbs.

DAISY

Automatic Pump Action, Repeater. Take Down Model.

A real rifle with genuine pump action, that can be fired repeatedly from the shoulder, the loading action is automatic, the smoothest and easiest action ever invented. Operates by pulling the slide toward the stock, fires rapidly from the shoulder, the magazine having a forced feed.

Blued steel barrel and frame, non-rusting; genuine black walnut stock, hand polished; adjustable sights front and rear. Magazine holds about 75 shot. Length over all 38 inches.

	Per Dozen
No. 25AR—Repeater, 75 shot; shoots air rifle shot only; weight each 3 1/4 lbs	$126 00

Six in a wood case, weight 25 lbs.

AIR RIFLES

DAISY, MILITARY TYPE

Lever Action. Repeater. With Bayonet.

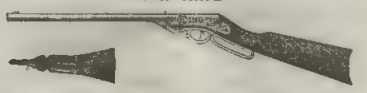
Beautiful walnut stock; all metal parts blued finish; rear sights are open and adjustable, front sight is of the knife type, adjustable strap for carrying, rubber tipped detachable bayonet for drill use. Has forced feed so that it can be fired in any direction without losing a shot.

Designed after the latest military rifle, with true army appearance. Shoots strong and accurately, is very neatly finished and will appeal to all boys.

	Per Dozen
No. 40—50 shot repeater; shoots air rifle shot only; length over all, including bayonet 45 in.; weight each 3 1/2 lbs	$126 00

Half dozen in a wood case.

NEW KING



Single Shot and Repeaters.

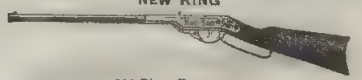
Lever action, loads by operating lever.

Nickel plated steel barrel, frame and trimmings, knife blade front and peep rear sights, varnished walnut stock, all parts interchangeable. Length over all 31 inches.

	Per Doz.
No. 21—Single shot; shoots air rifle shot or darts; weight each 1 1/2 lbs	$49 50
No. 22—Repeater, 350 shot; shoots air rifle shot only; weight each 1 5/8 lbs	54 00

One dozen in a wood case, weight 25 lbs.

NEW KING



500 Shot Repeater.

These air rifles shoot with sufficient force to penetrate 1/4 inch soft pine, and shoot accurately. They are designed especially for light target practice and will be found well adapted for this purpose.

Barrel and frame one piece steel; polished walnut stock and perfect sights, all parts interchangeable; lever action and loads automatically; length over all 33 inches.

	Per Dozen
No. 4—Nickel plated barrel and frame; wt. ea. 2 5/8 lbs.	$67 50

Half dozen in a wood case.

NEW KING

1000 Shot Repeater.

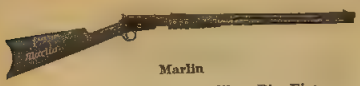
A hammerless, magazine repeater with lever action; loads automatically and shoots with accuracy.

Barrel and frame one piece steel; polished walnut stock and perfect sights; all parts interchangeable; lever action and loads automatically; length over all 36 inches.

	Per Dozen
No. 5—Nickel plated barrel and frame; weight each 2 3/4 lbs	$72 00

Half dozen in a wood case.

RIFLES



Marlin

Model No. 20 Rifle, .22 Caliber, Rim-Fire

Take-down, 24-inch octagon barrel, full magazine.

Handles without change or adjustment all .22 short, .22 long and .22 long-rifle cartridges.

Slide action; visible hammer; side ejection; solid-top, closed-in frame; ivory bead front and special flat top rear sights; barrel, receiver and buttplate, blued finish; length over all, 41 inches; length taken down, 27½ inches; length of buttstock, 13¼ inches; drop at comb, 1 9-16 inches; drop at heel, 2¾ inches; black walnut buttstock and action slide handle.

It is the only slide action repeater made that gives 25 shots at one loading.

NO.	Wt. Each	EACH
Model 20	5 lb. 2 oz.	$23.50

Marlin
Hammerless

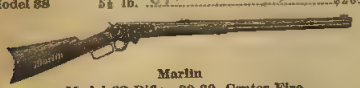
Model No. 88 Rifle, .22 Caliber, Rim-Fire

Take-down, hammerless, 24-inch octagon barrel, half magazine.

Handles without change or adjustment all .22 short, .22 long and .22 long-rifle cartridges.

Slide action; side ejection; solid-top, closed-in frame; ivory bead front and Rocky Mountain flat top rear sights; barrel and receiver have blued finish; hard rubber buttplate; length over all, 40 inches; length taken down, 27½ inches; length of buttstock, 13¼ inches; drop at comb, 1 7-16 inches; drop at heel, 3 inches; black walnut pistol grip buttstock and action slide handle; rifle handles at one loading: 15 .22 short, 12 .22 long, or 10 .22 long-rifle cartridges, either black or smokeless powder.

NO.	Wt. Each	EACH
Model 88	5¼ lb.	$26.50



Marlin

Model 93 Rifle, .30-30, Center-Fire

Lever action; visible hammer; side ejection; solid-top, closed-in frame; Rocky Mountain front and rear sights; case-hardened receiver; blued steel buttplate; length over all, 44¾ inches; drop at comb, 1¾ inches; drop at heel, 2¾ inches; black walnut buttstock and forearm.

Solid frame, 26-inch round special smokeless steel barrel, full magazine, 10 shots.

NO.	Wt. Each	EACH
RM9330	7¾ lb.	$32.50

Model 93 Rifle, .30-30, Center-Fire

Solid frame, 26-inch octagon special smokeless steel barrel, full magazine, 10 shots.

Adapted to use high power smokeless cartridges.

NO.	Wt. Each	EACH
OM9330	7¾ lb.	$34.00

Marlin

Model No. 27, Slide Action Repeating Rifle

The only slide action repeater made for the popular .25-20 and .32-20 high velocity cartridges, as well as the regular black and low pressure smokeless cartridges.

Slide action; visible hammer; side ejection; solid-top, closed-in frame; smokeless steel barrel; ivory bead front and Rocky Mountain rear sights; barrel, receiver and buttplate, blued finish; length over all, 42⅛ inches; length taken down, 28⅛ inches; length of buttstock, 13⅛ inches; drop at comb, 1 9-16 inches; drop at heel, 2¾ inches; black walnut buttstock and action slide handle.

.25 Caliber, rim-fire, take-down, 24-inch round barrel, half magazine, 8 shots

NO.	Wt. Each	EACH
2725RF	6¾ lb.	$31.00

.25-20 Caliber, center-fire, take-down, 24-inch octagon barrel, half magazine, 7 shots.

NO.	Wt. Each	EACH
272520		$32.75

.32-20 Caliber, center-fire, take-down, 24-inch octagon barrel, half magazine, 7 shots.

NO.	Wt. Each	EACH
273220		$32.75

Marlin

Model 93 Carbine, chambered for .30-30 or .32 Special Calibers, Center-Fire

Solid frame, 20-inch round special smokeless steel barrel, full magazine, 7 shots.

Lever action; visible hammer; side ejection, closed-in frame; carbine front and rear sights; case-hardened receiver; blued steel buttplate; length over all, 38 inches; drop at comb, 1¾ inches; drop at heel, 3 inches; black walnut buttstock and forearm.

Adapted to use high power smokeless cartridges.

NO.	Wt. Each	EACH
9330C	6¾ lb.	$32.50
9332C	6¾ lb.	32.50

GAME GETTER GUN

Marble's

Double barrel, single shot, 22 cal. rifle, 44 cal. 410 ga. shot and ball cartridges. Smooth barrel.

Blued steel barrels, drop forged blued steel frame, single trigger, rubber grips, nickel plated steel tubing stock, finest case leather holster; weight complete about 35 ounces.

Shoots 44 caliber, 410 ga. shot and ball cartridges, 22 short, long and long rifle cartridges, also C. B. caps.

NO.		EACH
MA2244-12	12 in. barrel	$25 00
MA2244-15	15 in. barrel	26.50
MA2244-18	18 in. barrel	28.00

Shotguns, rifles and revolvers are guaranteed by the factories which make them—to be free from imperfections in material and workmanship.

REMINGTON RIFLES

Model 30

Action of army type, barrel 24 in. long, tapered, pistol grip stock designed to give perfect balance, grooved steel butt plate, fitted with positive safety graduated peep rear sight adjustable up to 550 yards. Rifle fitted with Kerr Service Type of sling strap. Weight of complete rifle about 8 pounds. Uses regular 30 caliber government cartridges.

NO.	Caliber	Barrel	Shot	EACH
30-A	.30	25 in.	5	$65.00

HIGH POWER PUMP ACTION

Model 14A, Standard Grade Take Down

Uses 25, 30, 32 or 35 Cal. Remington Rimless Cartridges.

22 inch special ordinance steel barrel, half pistol grip; stock fitted with shot gun style rubber butt plate, quick adjustable No. 1 buck horn rear sight and new design copper bead front sight; weight 6¾ pounds. A new form of spiral magazine is provided, which holds the cartridges end to end and at the same time absolutely prevents any bullet in the magazine from coming in contact with the primer of the next cartridge ahead, which insures safety.

NO.	Caliber	Grade	Barrel	Shot	EACH
14A25	25	Standard	22 in.	6	$49.50
14A30	30	Standard	22 in.	6	49.50
14A32	32	Standard	22 in.	6	49.50
14A35	35	Standard	22 in.	6	49.50

AUTOLOADING

Model 8A

(Cut Showing Take Down)

Hammerless, Take Down

Blued steel round barrel, automatic action or self loading; box magazine, easily taken down, blued frame and trimmings; straight grip, walnut stock and forearm, rifle butt and metal butt plate; fitted with Remington bead front and sporting rear sights. Solid breech block and improved safety, trigger pull from 1½ to 8 lbs., can be used as a single shot or repeater. When a shot is fired, the recoil ejects the empty shell, cocks the hammer, and throws a fresh cartridge into the chamber. The gun can be fired as fast as the trigger can be pulled. Uses rimless center fire cartridges. Three clips are supplied with each rifle. Weight each 7¾ lbs.

NO.	Caliber	Grade	Barrel	Shot	EACH
8A25	25 Remington Rimless	Standard	22 in.	5	$62.00
8A30	30 Remington Rimless	Standard	22 in.	5	62.00
8A32	32 Remington Rimless	Standard	22 in.	5	62.00
8A35	35 Remington Rimless	Standard	22 in.	5	62.00
Extra Cartridge Clips for above Rifles					.30

TEN IN A CASE; CLEANING ROD WITH EACH RIFLE

Shotguns, rifles and revolvers are guaranteed by the factories which make them—to be free from imperfections in material and workmanship.

MARBLE'S HUNTING KNIVES

Marble's Hunting Knives are forged from Razor Steel, are hand tempered, tested and honed to a Keen edge. Each Knife is fully Guaranteed.

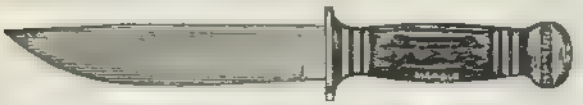
IDEAL HILT KNIVES

A combination of quality and excellent features of design and finish, that has won a world wide reputation. The blade is adapted to sticking and skinning. It is oval ground at back of point for chopping bones and other hard substances.

Laminated Leather Handle, with colored hard fibre and brass washers. Has flush aluminum tip. Complete in leather sheath.

No. 45—Blade, in.	5	6
W't per doz., lbs.	6½	7½
Per dozen	$49.80	54.40

HALF DOZEN IN A BOX



Stag Horn Handle, with colored hard fibre, leather and brass washers. Has flush aluminum tip. Complete in leather sheath.

No. 46—Blade, in.	5	6
W't per doz., lbs.	6½	7½
Per dozen	$63.40	68.00

HALF DOZEN IN A BOX

CANOE KNIVES

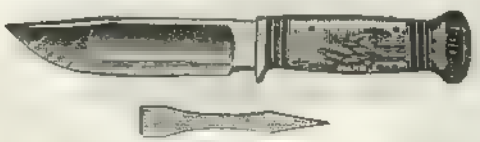
Some of the prominent canoeists of the country requested a knife for their use. Marbles Canoe Knife has won their approval as it is "short and stout."

When sailing a canoe or yacht, a short, keen sheath knife is a necessity for slashing rigging in case of sudden squall or capsizing.

Laminated Leather Handle, with colored hard fibre and brass washers. Has flush aluminum tip. Complete in leather sheath with point protector.

No. 51—4½ in. blade, w't per doz. 5 lbs., per dozen $45.30

HALF DOZEN IN A BOX

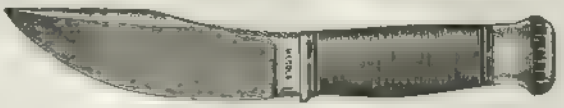


Stag Horn Handle, with colored hard fibre, leather and brass washers. Has flush aluminum tip. Complete in leather sheath with point protector.

No. 52—4½ in. blade, w't per doz. 5 lbs., per dozen $58.90

HALF DOZEN IN A BOX

WOODCRAFT KNIVES



The desirable features of several knives embodies in one. Is adapted for sticking, skinning, cleaning, slicing, breaking bones, etc.

The thick tapering bevel blade carries the strength from handle to point. Back of blade close to handle is checkered to give a firm grip with thumb and finger. The back of point is beveled for chopping, breaking bones, etc.

AN ALL PURPOSE WOODMAN'S KNIFE.

Laminated Leather Handle, with colored hard fibre and brass washers. Has flush aluminum tip. Complete in leather sheath.

No. 49—4½ in. blade, w't per doz. 5 lbs., per dozen $40.80

HALF DOZEN IN A BOX

DALL DE WEESE PATTERN

Designed by Dall DeWeese, for use on expedition after big game, where every item of the outfit has to be figured down to the lightest and most compact form. It has a dull saw back on which the thumb is placed when skinning or cutting hard substances. When sticking the little finger should be doubled up, letting the end of handle rest against it. This takes the place of a hilt.

Stag Horn Handle, with groove to fit finger. Complete in leather sheath with point protector.

No. 62—4 in. blade, w't per doz. 4 lbs., per dozen $36.20

HALF DOZEN IN A BOX

EXPERT KNIVES

Particularly designed to meet the requirements of the professional hunter, trapper and guide, who requires a thin, keen-edge for dressing skins and furs.

The back of the blade is designed for scraping skins while on the forms.

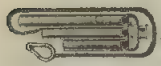
Laminated Leather Handle, with colored hard fibre and brass washers. Has flush aluminum tip. Complete in leather sheath with point protector.

No. 545—5 in. blade, w't per doz. 5 lbs., per dozen $45.30

HALF DOZEN IN A BOX

WHISTLES AND CALLS

TRIPLEX WHISTLE



Brass, heavy nickel plated, ring, three tube whistle, deep tone.

Per Gross

No. 32—Length 6 inches $150 00

Half dozen in a cardboard box; weight per dozen 22 ozs.

DUPLEX WHISTLE

With Chain

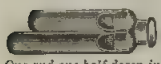
Nickel plated with nickel plated chain.

Per Gross

No. 31—Length of call 3¼ inches; chain 10 inches $85 50

One dozen in a cardboard box; weight per dozen 15 ozs.

DUPLEX WHISTLE



Per Gross

No. 30—Nickel plated; length 3½ inches $70 50

One and one half dozen in a cardboard box; wt. per doz. 11 ozs.

DUPLEX WHISTLE

Brass, nickel with plated chain.

Per Gross

No. 20—Length 2⅛ in; wt. per doz. 9 ozs. $42 75

No. 21—Length 2¾ in.; wt. per doz. 11 ozs. 76 20

One dozen in a cardboard box.

GENUINE ECHO CALL

Per Gross

No. 12—Nickel plated, with ring; length 2 inches $72 00

One doz. in a cardboard box, wt. per doz. 10 ozs.

ECHO PATTERN

Brass, nickel plated, with ring.

Per Gross

No. 10—Length 1¾ inches $45 00

One dozen on a card, six cards in a carton; weight per dozen 9 ozs.

BRITANNIA

Made of Britannia Metal.

Per Gross

No. 2—Length 1¾ inches; wt. per doz. 7 ozs. $45 00

No. 3—Length 2 inches; wt. per doz. 10 ozs. 48 60

No. 4—Length 2¼ inches; wt. per doz. 18 ozs. 66 00

One dozen in a cardboard box.

Assorted Colors.

Per Gross

No. 57—Length 2 inches ... $69 00

No. 58—Length 2⅜ inches .. 94 50

One dozen in a cardboard box.

HORN

Made of polished horn curved lip; light weight.

Per Dozen

No. 1H—Length 2½ inches $15 30

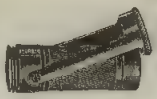
No. 2H—Length 2⅝ inches 16 80

No. 3H—Length 3 inches 18 90

One dozen in a cardboard box; weight per dozen about 6 ozs.

WATERPROOF MATCH BOXES

MARBLE'S



Per Dozen

No. 181—Made of seamless drawn brass, heavily nickel plated; about size of 10 gauge shell; absolutely water and moisture proof; sliding cover provided with rubber gasket $15 12

One dozen in a cardboard box; weight per dozen about ¾ lb.

HUNTING KNIVES

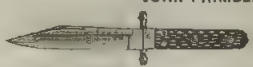
UNIVERSAL

Forged polished crucible steel clipped blade with guard; genuine stag handle; complete with genuine leather sheath.

Nos.	0020-5	0020-6	0020-7
Length, blade inches	5	6	7
Wt. per dozen, lbs.	3	4	6
Per dozen	$63 00	69 00	75 00

Half dozen in a cardboard box.

—JOHN PRIMBLE—



Hand forged from a high grade of crucible steel, scored ebony handles. Guard made of a fine grade of bronze. A genuine leather sheath furnished with each knife.

Per Dozen

No. 2JPH-6—6 inch blade $94 50

Half dozen in a cardboard box; weight per dozen 9 lbs.

—JOHN PRIMBLE—

Hand forged from a high grade crucible steel and mounted with a cast metal guard. Scales are genuine ebony. Handle scored to give a perfect grip.

Per Dozen

No. 3JPH-6—6 inch blade $28 50

Half dozen in a cardboard box; weight per dozen 4½ lbs.

MARBLE'S

Forged from razor steel; hand tempered and tested and fully guaranteed. The blade is oval ground at back of point for chopping bones, etc. Adapted for sticking and skinning.

MARBLE'S IDEAL

Handle constructed of leather washers with brass bolster at end. Tang entire length of handle and fitted with ½ in. countersunk brass nut. Furnished with tube sheath and aluminum sheath protector.

Each

No. 41-5—5 inch blade $6 27

No. 41-6—6 inch blade 6 84

Half dozen in a cardboard box; weight per doz. 5½ lbs.

HUNTING KNIVES

MARBLE'S IDEAL

Handle constructed of fibre washers with center composed of two grooved slabs of selected stag horn, securely riveted and driven on tang. Tang entire length of handle and fitted with ⅜-in. countersunk brass nut. Furnished with tube knife sheath made of good leather.

Each

No. 42-6—6 inch blade..... $8 55

Half dozen in a cardboard box; weight per dozen about 5¼ lbs.

MARBLE'S EXPERT

Cocobolo handle with aluminum tip. Tang entire length of handle and fitted with ⅜ inch countersunk brass nut. Furnished with tube sheath made of high grade leather.

Per Dozen

No. 545—5 inch blade $68 40

Half dozen in a cardboard box; weight per dozen 4 lbs.

SAFETY POCKET AXES

MARBLE'S

The handiest tool a sportsman ever carried. Large enough to fell a tree, yet small enough to carry in the pocket. Spring hinged guard is lined with lead, nickel plated and folds into the handle. Blades made of finest tool steel and fully warranted.

Guarded.

Each

No. 6—Solid steel blade and bit, 2⅞x4¾ inches; selected hickory handle 12 inches long; weight each 20 ozs ... $4 74

Sixth dozen in a cardboard box.

Guarded

Each

No. 2—Solid steel blade and bit, 2¾x4 in., polished steel handle, nickel plated, 11 in. long, fitted with black hard rubber engraved side plates; weight each 20 ozs $6 84

Sixth dozen in a cardboard box

Not Guarded

Each

No. 5 Solid steel blade and bit, 2½x4½ inches; selected hickory handle, 11 inches long; weight each 16 ozs ... $4 20

Sixth dozen in a cardboard box.

POCKET COMPASSES

BOY'S GUIDE

Polished aluminum case, with cover; fancy aluminum dial; beveled glass.

Per Dozen

No. 186—Diameter 1¾ in.; wt per dozen ½ lb. . . $10 05

One in a cardboard box.

POCKET COMPASSES

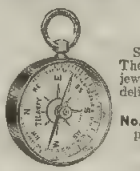
MANITOU

Polished aluminum case, with cover; aluminum dial, full graduation; beveled glass.

Per Dozen

No. 1M—Diameter 1¾ in.; wt. per dozen ½ lb.... . . . $13 50

One in a cardboard box.



TELAWAY

Steel case, dead black finish; white dial. The center bearing holding the needle is jeweled, ensuring perfect accuracy and delicacy of movement.

Per Dozen

No. 1—Diameter 1¼ inches; weight per dozen ¼ lb.... . . . $25 95

One in a cardboard box.

LEEDAWL

Brass case, highly nickel plated and polished; aluminum dial; full graduation; automatic stop. The center bearing holding the needle is jeweled, ensuring perfect accuracy and delicacy of movement.

Per Dozen

No. 2910—Diameter 1¾ inches; wt. per dozen ¾ lb . . . $31 50

One in a cardboard box.

MAGNAPOLE

Nickel plated white metal case; white enameled dial; beveled crystal glass; full graduation; automatic stop. The center of needle is jeweled and operates on a ground steel point, which insures the greatest degree of accuracy and permanency.

Per Dozen

No. 2911 Diameter of dial 1⅞ inches... . . . . $38 25

One in a cardboard box; weight per dozen about 1 lb.

GYDAWL

Nickel plated white metal hunting case, with beveled crystal glass; untarnishable silvered metal dial; flat-half-blued steel type needle, with jeweled center and stop which automatically lifts the needle of the special steel point on which it operates, directly the lid is closed.

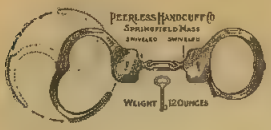
Per Dozen

No. 2914—Diameter of dial 1⅞ inches..... $75 60

One in a cardboard box; weight per dozen about 1¼ lbs.

POLICE GOODS

HANDCUFFS



Peerless

Weight, 12 ounces. Can not become locked in the pocket. Light, strong and quickest in operation of any cuff on the market.

NO.		PAIR
10		$10.00

Tower's Double Lock

NO.		Wt.	PAIR
11	Nickel plated	19 oz.	$9.00

LEG IRONS

NO.		PAIR
51	Nickel plated	$12.50

Bean's

NO.		Wt.	PAIR
16	Nickel plated	12 oz.	$8.00

CHAIN TWISTERS

Tower's

Perfect chain, interlocking.

NO.		Wt.	EACH
1	Nickel plated	3 oz.	$1.00

TWISTERS

Philip's

Philip's nippers, new spring.

NO.		Wt.	EACH
8	Nickel plated	5⅜ oz.	$2.00

SPIKE CLOG SHACKLES

These are for working prisoners on the road, etc.

NO.		EACH
100	With locks	$5.20
150	For riveting	4.20

SHACKLES

Leininger's

A substitute for ball and chain. Nickel plated. Complete with stirrups.

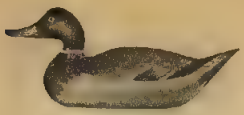
NO.	Wt. Each	EACH
200	11 lb.	$15.50
300	15 lb.	16.40

FLEXIBLE CLUBS

Made of sole leather over elastic steel spring wire, cemented, rivested and covered with same material. Wrist loop and swivel.

NO.	Length	Wt. Each	DOZEN
5	8	9 oz.	$25.20
15	10	12 oz.	29.40
20	12	14 oz.	33.60

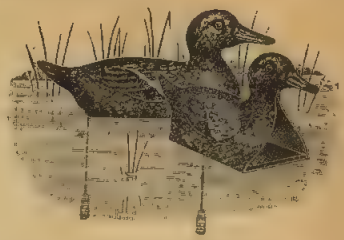
DUCK DECOYS



Mason's White Cedar

Mallard, canvas back, sprig, widgeon and teal. One dozen in a crate assorted, one-third females and two-thirds male. Made of the best seasoned white cedar from life photographs; glass eyes, flat bottomed, float evenly and are well balanced and nicely painted.

No.	DOZEN
1	$24 00



Johnson's Folding Paper

Made of waterproof paper complete with anchor. Guaranteed to float upright and ride rough water perfectly. Will fold readily for shipping. Weight per dozen 4 pounds. Mallard, canvas back, red head, blue bill, widgeon.

NO.	DOZEN
2	$6.60

McKENZIE & HOLLAND, LTD.,

Railway Signal Engineers and Contractors,

53, Victoria Street, Westminster, LONDON, S.W. 1.

Ingenieurs constructeurs de signaux de chemins de fer.
Ingenieros y constructores de aparatos para señales de ferrocarriles

AC
Mechanical Route Indicator

Signals at Newcastle Station, N.E.R., England.
Signaux à la gare de Newcastle, N.E.R., Angleterre.
Señales en la estación de Newcastle, N.E.R., Inglaterra.

EF
Interlocked Ground Levers.
Leviers de manœuvre encla[illegible]
Palancas de maniobra enclavad[illegible]

New and Improved Trailable Facing Point Locks and Bars.

"Simplex" Key Locks for Points and Signals. Economical Interlocking Installations for Wayside Stations.

"Simplex" clefs pour serrures d'aiguilles et signaux.
Appareils de manœuvre d'enclenchement [illegible] stations volées.
"Simplex," llaves de cierre para agujas y señales.
Instalaciones de aparatos de maniobra económicas de enclavamiento para estaciones secundarias.

JB
Enclosed Compensator for Double Wire Connections.
Compensateur renfermé pour connexions par double fil de fer
Compensador encerrado para conexiones de doble alambre

Points operated by Rod or Double Wire Connections
Signals operated by Single or Double Wire Connections.

Aiguilles actionnées par tiges de connexion ou par double fil de fer.
Signaux actionnés par connexion à fil de fer simple ou double.
Agujas accionadas por conexiones de varillas ó doble alambre.
Señales operadas por conexiones de alambre sencillo [illegible]

OD
Lattice Signal with Lamp Hoisting Gear
Sémaphore en treillis, avec appareil de levage de lanterne
Semáforo de celosía con ascensor para linternas

Economical Signalling for Light Railways

Système de signaux économique pour chemins de fer à voies étroites

Aparatos de señales económicos para ferrocarriles de vías estrechas

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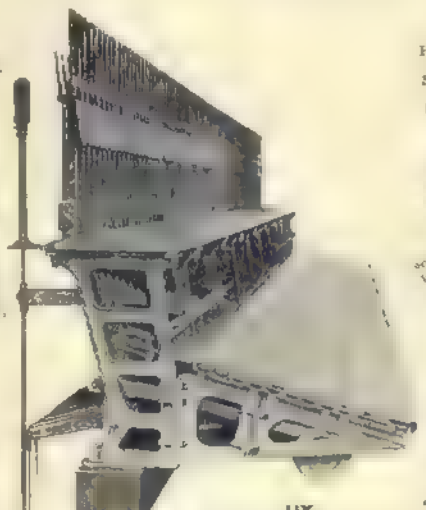
WORCESTER, England.



JUX
100 Lever Interlocking Apparatus.
Appareil de manœuvre à enclenchement de 100 leviers
Aparato de maniobra de enclavamiento de 100 palancas

Electrical and Mechanical Signalling of every Description.

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"RUSSELL" EARED DOGSPIKES.

QUALITY, DESIGN, TESTS, &c., to the Standard of Requirements of the Admiralty, Ministry of Munitions, &c.

PRICES. (Subject to alteration without notice.)

(Indents through Merchants.)

PLAIN: *BASIS* 4" × ½" and up, per cwt.
Delivered f.o.b. any British Port but London, in 2-ton lots and up.
Under 2 tons, 3d. per cwt. more.
Terms :—6¼% Cash in 7 days after delivery f.o.b.

JAGGED:—On application only and against definite specifications.

EXTRAS.

F.o.b. London, 1/9 per cwt.
BAGS not weighed in, 9d. each.
KEGS to hold 100 to 112 lbs., 2/6 each.

2"			2½"			2¾"			3"			3¼"			4"		
¼"	⅜"	½"	¼"	⅜"	½"	¼"	⅜"	½"	⅜"	½"	⅝"	½"	⅝"	¾"	½"	⅝"	
5/-	4/6		4/6	3/-	2/6	3/-	2/6	2/-	2/-	1/6		1/6	9d.	6d.	6d.		

6d. 3d. per cwt.

STOCK SIZES.

2"			2½"			2½"			2¾"		3"		
¼"	⅜"	½"	¼"	⅜"	½"	¼"	⅜"	½"	⅜"	½"	⅜"	½"	⅝"

3½"			4"			4½"			5"			5½"			6"		
½"	⅝"	¾"	½"	⅝"	¾"	½"	⅝"	¾"	⅝"	¾"	1"	⅝"	¾"	1"	¾"	1"	1¼"

En achetant par l'Entremise des Marchands en Gros exiger des Crampons de Rail, la Marque "RUSSELL"
Prix et Détails sur demande
Les prix sont sujets à modification sans avis préalable
Nous avons toujours en magasin un très grand Stock de ces Crampons, prêts pour l'Expédition immédiate dans tous Pays
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Los precios son sujetos á alteracion sin previo aviso.
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Fabricación, Calidad, Pruebas, etc., en conformidad con las condiciones impuestas por el Almirantazgo Británico, el Ministerio de Municiones, etc.

Prepare for the Boys who want

MECCANO

Toy Engineering for Boys

Meccano will be advertised in the leading boys' papers and science periodicals. Prepare for the demand this publicity will create—stock Meccano and reap the profits these eager boys will bring.

Any boy can build hundreds of toys with Meccano—he comes back to his dealer time and again for accessory outfits and extra parts. Each outfit complete with Instruction book and all necessary tools.

Main Outfits

Each

N2837—Contains 101 parts. Weight 1¼ lbs. Illustrated instruction book included, which shows how to make 78 different models, not including numerals or alphabet 2.86

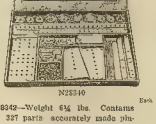
N2838—Weight 2 lbs. Contains 241 parts. A larger set than the No. N2837. Builds 105 models shown in the instruction book—trucks, aerial cable lines, aeroplanes, drop stamps, etc. 4.40

N2839

N2839—A big leader. Weight 4 lbs. Contains all the parts of the No. N2838 outfit plus a powerful Electric Motor which builds right into the models and makes them work like real machinery, complete with book of instructions showing how to build 105 models 7.34

N2840—Weight 4½ lbs. A fine outfit of 225 parts, enabling the boy to build a greater number of models, as windmills, cranes, swing bridges, airplanes, steam shovels, etc. The instruction book included shows how to build 151 models, and any boy can invest many more. ..... ■

N2841—Weight 5½ lbs. This is the same as the No. N2840 outfit but includes a reversing Electric Motor. A fine outfit for any boy The motor gives 1½ to the models 12.50



N2842

Each

N2842—Weight 6¼ lbs. Contains 327 parts accurately made pulleys and gears, worm wheels, plates, strips, angle girders, etc. The Manual shows how to build 166 models with this outfit. 13.22

N2843—Weight 7¼ lbs. A fine big outfit, which will please any boy Contains a reversing electric motor in addition to all the parts in the No. 2 outfit. 16.90

N2844—Weight 9½ lbs. Contains 503 parts—an extra number of the more advanced elements, for the boy who is well along in the art of building Complete with big manual showing how to build 242 models, and includes a reversing electric motor to make them run 22.04

N2844

Each

N2845—Weight 12 lbs. Contains 684 parts—a handsome gift outfit with which a boy can build many advanced models. Contains a Meccano Electric Motor and 136-page Manual, showing how to build 377 models 29.40

N2846—Weight 13 lbs. Contains 752 parts—everything in the No. N2845 outfit plus parts ordinarily included in Inventors' Outfits—braced girders, sprocket wheels, chain, contrate wheels and others. Also includes a reversing Electric Motor and a Transformer 36.74

N2847 Weight 19 lbs. Contains 940 parts. The most complete outfit made, gives the boy the widest possible scope in the field of practical engineering. The complete manual of instructions included shows how to build 328 models 58.80

Accessory Outfits

These contain all the necessary parts to convert an outfit into the next higher Accessory outfits should not be sold as starting outfits

Each

N2838 (Makes a No. N2837 into a No. N2838) 2.98

N2839 (Makes a No. N2838 into a No. N2839) 4.40

N2840 (Makes a No. N2839 into a No. N2840) 4.40

N2841 (Makes a No. N2840 into a No. N2841) 8.82

N2842 (Makes a No. N2841 into a No. N2842) 7.34

N2843 (Makes a No. N2842 into a No. N2843) 22.40

Inventors' Outfits

N2835

These accessory outfits contain new parts not included in other outfits. To be used in conjunction with regular outfits only.

Each

N2834—Inventor's Outfit 4.40

N2835—Inventor's Outfit 10.28

Meccano Electric Motors

Each

N2836—A sturdy, powerful motor for operating Meccano models. Designed to build into and form a rigid part of the model One way only, equipped with pulley and pinion 3.69

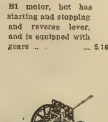
N2837

Each

N2838—The same as the 81 motor, but has starting and stopping and reverses lever, and is equipped with gears 5.18

N2836

N2839



Electrical Accessory Outfit

Each

N2835—Contains accessory parts only, to be used with regular Meccano parts to build models incorporating electricity, as Magnetic Crane, Electric Locomotive, Telegraph Set, Motor Starter, Electric Iron, etc 5.88

Meccano Transformer

Each

N2850—A safe reliable source of current for the Meccano Electric motor, where suitable house current is available No moving parts to get out of order. For 110 volts, 60 cycle A. C. only 3.66

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Wash Day Toys

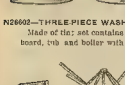
Wash Sets

Per doz.

N26046—**WASH SET** Vulco fibre tub, metal bottom, size 8½x5½ inches. Washboard with metal scrubber, size 8½ x 4½ inches. Each in carton. 4.26

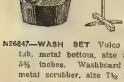
Per doz. sets

N26602—**THREE-PIECE WASH SET** Made of tin; set contains wash board, tub and boiler with cover 7.00



Per doz.

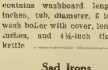
N26647—**WASH SET** Vulco fibre tub, metal bottom, size 8½ x 4½ inches. Washboard with metal scrubber, size 7½ x 5¼ inches. Folding clothes reel, size 15 inches, folded. Complete in carton 8.50



Per doz.

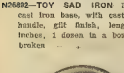
N25803—**FOUR-PIECE WASH SET** Made of blue enameled tin, set contains washboard, length, 6 inches, tub, diameter, 6 inches, wash boiler with cover, length, 6 inches, and 4¼-inch tin tea kettle 13.60

Sad Irons



Per doz.

N26892—**TOY SAD IRON** Heavy cast iron base, with cast iron handle, gilt finish, length 3 inches, 1 dozen in a box, not broken 1.50



Per doz.

N26893—**TOY SAD IRON**—Heavy cast iron base, polished; wood handle; length 5¾ inches; ½ dozen in a box, not broken .. 3.84

TOY ELECTRIC WASHER

We do not break packages.

A Real Washing Machine Electrically Operated

Not to Be Confused with the Flimsier Kind of Toy

Each

N28844—**THE JIFFY-JEFF ELECTRIC WASHER**—Constructed of galvanized iron and zinc. Rust-proof and fool-proof. Beautiful gray exterior finish. Actually washes handkerchiefs and dolly's dresses. Driven by an exclusive Jefferson motor that cannot burn out. REQUIRES NO TRANSFORMER. Reduces its own current. Size 12 x 8¾ x 7¾ inches, weight 6 lbs 13.72

WASH SETS

Each

N26697—**FOUR-PIECE LAUNDRY SET**—Including enamel tub, diameter 16 inches, wash board with crystal, length 11¼ inches, width 5¼ inches; revolving clothes line; diameter 18½ inches, height, 15 inches, and package of clothes pins 1.33

Per doz.

N26648—**WASH SET**—Vulco fibre tub, metal bottom, size 8½ x 3¾ inches. Washboard with metal scrubber, size 7½ x 5¼ inches. Folding clothes reel, height 15 inches. Folding ironing board size 14½ x 4 x 7¾ inches. Two Vulco fibre pails, size 6 x 6 and 4 x 4¼ inches, respectively. Also wooden wash bench, size 11 x 5 x 4½ inches. Complete in carton 17.00

SAD IRONS

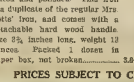
Per doz.

N26894—**TOY SAD IRON**—Heavy cast iron base, polished; with removable wood handle; length 3½ inches, ½ dozen in a box, not broken 4.00

N26895 Same as N26894, length 4⅜ inches, each in a box 7.56

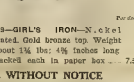
Per doz.

N26707 **-DOLLY IRON** Sliding lock. Solid iron core, painted and polished. Weight 12 ounces. One dozen in package, not broken 4.80



Per doz.

N26908—**TOY SAD IRON**—Nickel plated and polished. This iron is a duplicate of the regular Mrs Potts' iron, and comes with a detachable hard wood handle. Size 3¾ inches long, weight 12 ounces. Packed 1 dozen in paper box, not broken..... 5.84



Per doz.

N25909—**GIRL'S IRON**—Nickel plated. Gold bronze top. Weight about 3¾ lbs; 4⅜ inches long. Packed each in paper box .. 7.50

Wash Sets

Per doz

N26950—**SIX-PIECE LAUNDRY SET**—Contains enameled wash tub basket, wringer, wash board, revolving clothes line, and clothes pins 36.00

Per doz

N26555—**WASHBOARD** — Fluted glass rubbing surface with strong wood frame; size 9¼ x 11¼ inches 5.88

Wash Tub

Per doz.

N26594—**WASH TUB** — Blue enameled outside, white enameled inside; made of strong metal, height 8 inches, width 18 inches 6.72

Wringer

Per doz.

N26696—**TOY WRINGER**—All metal parts aluminum finish, rubber rollers, width 6 inches..... 16.80

Sad Irons

Per doz

N26708—**TOY SLEEVE IRON** \ Imitation Iron Nickeled hood, patent lock, solid iron core painted and polished. Weight 22 ounces. Packed 6 in carton, not broken 9.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

BEST SELLERS IN DOLLS AND TOYS

"WORLD'S FINEST" 16 IN. DRESSED DOLL

F6138—16 in., bisque turning head, teeth, glass eyes, curly mohair wig, jointed shoulders, wrists, elbows, hips and knees, real eyelashes and painted eyebrows, pink rose radium silk dress, white puffed crown hat, lace trim lawn underwear, white footwear. Each in box **$2.25**
trim box.
Each. **$3.25**

"POPULAR" IMPORTED DRESSED DOLL ASST.

F6620—5 styles, 10 in., turning bisque heads, glass eyes, mohair wigs, jointed shoulders and hips, flowered cotton crepe and solid color lawn dresses, French and "baby" styles, lace and braid trimmings, straw and fabric hats, underwear, painted shoes and stockings. Asstd. ½ doz. in pkg
Doz. **$2.25**

"WORLD'S FINEST" 21½ IN. DRESSED DOLL

F6143—21½ in. bisque turning head, teeth, glass eyes, curly mohair wig, jointed shoulders, wrists, elbows, hips and knees, real eyelashes and painted eyebrows, silkoline embroidered batiste, lace edged bolero, gauf crown roll brim hat to match, lace trim underwear, white footwear. Each in lace trim box.
Each, **$9.50**

IMPORTED KID BODY DOLLS

"Par Excellence," bisque head and forearms, first quality white kid body arms and legs, expressive painted features, moving eyes, extra quality, blonde tones or brunette curly mohair wigs, side part ribbon bun, jointed shoulder, elbow hip and knee, lace stockings, leatherette slippers in pink, blue and white. 1 in box
F6413—18 in. Each **$3.75**
F6414—20½ in. **5.00**

IMPORTED WOOLLY SHEEP

F6834—8x8½ in., woolly covered sheep and two lambs, painted features, color bands and collars, with artificial tree on green stained wood platforms, metal wheels. ½ doz. in box.
Doz. **$1.15**

DANCING BEAR MECHANICAL TOY

F6553—8 in., brown enameled, threading dancing motion. ½ doz. in box
Doz. **$7.00**

CLOWN MAGNET

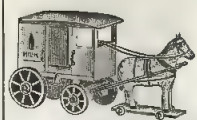
F2330—3 pcs., 2½ in red finish magnet, 2½ in. litho metal clown, 2½ in litho metal horse and rider, each set on card. 1 doz. cards in box
Doz. sets, **82c**

AUTO TRUCK FRICTION TOY

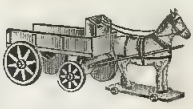
F3336—10½x3 in., red enameled body gilt wheels and stripings. ½ doz. in pkg
Doz. **$3.85**

WOOD HORSE AND WAGON ASSORTMENT

Extra heavy construction, finished in attractive colors.



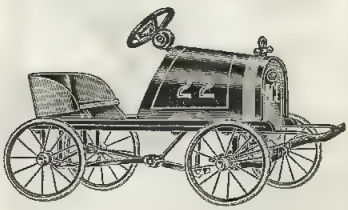
F2486—3 styles, contractor's, bakery and milk wagons, over 8x8½ in., yellow & black, brown & black and drab & black varnished finishes, each with two 2½ and two 3½ in disc wheels, pole or spokes, horses 7x8½ in., leatherette harness, each in box. 3 in pkg
(Total $3 30)
Each. **$1.10**



ALL STEEL ENGLISH DOLL PERAMBULATOR

F267—Ht. 27½ in., steel frame 13½x20½ in., 7 in. wire spoke wheels heavy rubber tires, 3 bow heavy leatherette hood, side curtains and footwell, flat steel pusher, polished wood cross handle. 1 in carton, 16 lbs.
Each, **$2.25**

"AMERICAN NATIONAL" JUVENILE AUTO

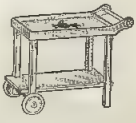


F449—"Ace," 30x12 red body, yellow and black stripings, underslung front axle, bumper, black enameled knuckle joint auto seat, gas and spark control, motor in hood with red & white markers, nickel plated radiator caps, 10 in. double spoke wheels, nickel plated hub caps, ¾ in rubber tires. 1 in crate, 35 lbs.
Each, **$4.50**

IMPORTED MECHANICAL TOY LIMOUSINE

F6505—8x4½ in. bright litho car, chauffeur, four 1¾ in. open spoke wheels, long action, runs straight or in circle. ½ doz. in box
Doz. **$8.25**

WHITE ENAMELED TEA WAGON



F743—16x9x12½ in., 2 shelves, beveled edges, wood handle, two 3 in. turned wood wheels, top shelf with litho bird and juvenile design, each in carton, 2 in pkg, 10 lbs. Each.
(Total $2 70)
$1.85

HOUSEKEEPER TOYS

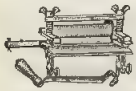
They closely resemble full size household goods and are just as important to the little girl as her dolly. There's a world of sales and profits in these goods if you display them prominently with your doll line.

LAUNDRY TOYS

Dolly's Clothes Line Set—20 ft. woven white cord, 2 pulleys 6 clothes pins, each set in box
F3667—5 ftg. sets in pkg (Total 5, 50) Doz. sets, **79c**

"X Y Z" Washboard—11½x6½ in. oak frame, blue enameled rubbing surface.
F3673—1 doz. in box . Doz. **89c**

Tub and Board—Tub 8¾x8¾ in. assrd green yellow, red and blue, board 4½x7½in
F2813—½ doz sets in box. Doz. sets, **$2.15**



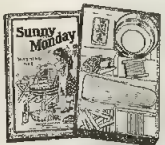
Toy Wringer—18x3½ in., hardwood varnished frame, rubber covered rollers, with spring adjustment crank grips for attaching to tub, all metal parts heavily galvanized, each in box
F3677—½ doz. in pkg. Doz. **$8.50**

"WOLVERINE" LAUNDRY SETS

F3675—16 pieces Tub 10 in. blue enameled outside White inside. Washboard 11 in. wood frame, glass rubbing surface Cradles Rack folding type, ht. 13 in. top spreads to 18½ in. Clothes Pins 12 in bag ½ doz. sets in box Doz. sets, **$8.40**

F3676—16 pieces, Tub 10 in., blue enameled outside, white inside Washboard 11 in., wood frame, glass rubbing surface Clothes rack folding type, ht. 13 in., top spreads to 18½ in. Wringer galvanized adjustable, 2 rubber rolls Clothes Basket 11¾x7½ in. two handles Clothes Pins 12 in bag 1 set in box . . . Set, **$1.65**

SUNNY MONDAY WASHING SET



STAR VALUE

F1630 — 16 pieces, 14 in bright metal wash tub, fancy handles, 12 in. wringer with stained handle 7½ in ironing board with folding copper wire supports 4½ in corrugated wash board 10 clothes pins, 24 in. iron with stand soap, clothesline on reel Each set in partitioned box with litho label ½ doz. sets in pkg
Doz. sets, **$8.75**

BISSELL'S CARPET SWEEPERS

These actually sweep. All numbers with spring action dirt trap. Carefully packed in cardboard boxes.

F2933—"Little Daisy," 7x4½ in. blue printed composition board body on wood frame red stained turned wood wheels, stiff bristle brush, 24 in bbo stained wood handle. ½ doz. in pkg Doz. **$2.00**

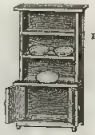
F2954—"Little Queen," 7½x4½ in. mahogany painted composition board body on wood frame, mahogany turned wood wheels, stiff bristle brush, 24 in. mahogany painted wood handle. ½ doz. in pkg . . . . . Doz. **$3.75**

TOY EGG BEATER

Egg Beater — "Junior," 5½ in., 1½ in. driving wheel wood handle double beaters. Exact miniature of the large size
F2815—3 doz. in box
Doz. **87c**

KITCHEN CABINETS

Extra heavy wood construction. All numbers with kitchen utensils.



F733 10x5x14 in., covered in finish open top, with 2 shelf top 2 doors, stained oak Substantials ½ doz. in carton
Doz. **$3.75**

F731—12x6¾x15¼ in. closet with 2 shelf top and short top extended main shelf solid panel lower doors wood cup and saucer rolling pin, masher and bowl utensils 1 doz. in carton
Doz. **$7.50**

F737 16½x11x18½ in., white enameled finish, 2 shelf top with two doors in wood frame glass doors, brassed catch, extended main shelf partitioned bottom with panel doors, given to clients, size 5 cook, wood rolling pin, cup & saucer, mixing bowl in utensil 2 in carton Total $4.50 Each. **$2.26**

WOOD HOUSEHOLD SET

F3664 5 piece baking set, 8x3¾x4 in pastry board, rolling pin, potato masher and bowl, baking pan, cup and saucer, 5½x4½ in. sifting top, box with legs for forming table, 3 doz sets in carton (Total 36 pc) Doz sets, **95c**

WOOD PASTRY SET

F3661—4 pieces, board 6x3 in., rolling pin 10 in., bowl center 2 in., masher 4 in. 1 doz. sets in pkg
Doz. sets **94c**

13 PIECE WOOD HOUSEHOLD SET

F3668—13 piece household set, tab, washboard, all wood wringer, iron, ironing board 3 large clothes pins, masher and bowl, rolling pin, cup and saucer sugar bowl 7½x6½ in. sliding top wood tub with legs for forming table. 1 doz sets in pkg
Doz. sets, **$2.00**

IMPORTED TOY SCALES

Each with indicator.

F8827—Two 2½ in. metal trays and balancer on 5½ in. black enameled metal base, each in box. 1 doz. in pkg . . . Doz **$40**

F8828 Two 2½ in metal trays and balancer on 5½ in natural finish Wood base with drawer, each in box 1 doz. in pkg Doz **$80**

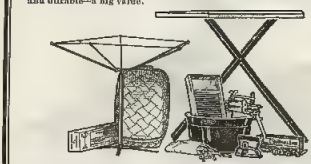
Toy Telephone

Improved throughout. extra strong construction.

F3284—Ht 9 in 3½ in nickel plated base, with green felt bottom, black enameled tube, receiver and adjustable mouthpiece, nickel plated bell bell rings by moving receiver arm up and down, green cellulon wire 6 doz in box Doz **$6.95**

"Wolverine" Laundry Set

One of the best kiddies' laundry sets on the market. Practical and durable—a big value.



F3674—38 pcs., Tub, 10 in., blue enameled outside, white inside, reinforced loop handles Washboard 11 in., wood frame, glass rubbing surface Cradles rack, folding type, ht 13 in top size 18½ in substantial size Wringer galvanized, adjustable 2 rubber rolls, wood grip handle Clothes basket 11¾x7½ in. steel type wire handles 12 clothes pins in strong string bag Clothes line consisting of 2 pulleys, 2 rollers, 9 ft white cotton rope and 6 clothes pins Ironing board, collapsible, 17 in., blue enameled round Sad iron 4 in., nickel plated detachable hood black wood handle 1 set in box
Set, **$2.25**

TOURING CARS—OPEN STYLE

Red painted bodies, neat black and yellow striping. Cast wheels with detachable rubber tires. Lithographed chauffeur. Strong spring with attached bar. Runs straight or in circle.

T6338 Length 6 in., width 2¼ in., ht. 2½ in. ½ doz. in pkg. Doz. $1.60

T6337 Length 8½ in., width 3 in., ht. 3 in. ½ doz. in box. Doz. $3.05

T6336—Length 9 in., width 3½ in., ht. 3¾ in. ½ doz. in box. Doz. $3.95

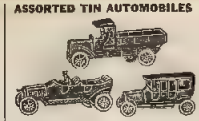
T6331 Length 10½ in., wid h 3 in., ht. 3½ in. Doz. $4.25

T6333—Length 11 in., width 3 in., ht. 4 in. Doz. $7.20

ASSORTED TIN TOYS

T7699—STAR VALUE. Length 3½ in. Six kinds assti., all metal, brightly lithographed, wagging tails. 2 doz. in box. (Gro., $3.00). Doz., 27c

ASSORTED TIN AUTOMOBILES



T7698—Length 5½ in. Auto assortment, all metal, brightly lithographed. 2 doz. in box. (Gro., $4.25). Doz., 37c

ORDER HOLIDAY GOODS TODAY. DON'T DELAY.

METAL DOLL CABS

White enameled, embossed wicker design body, folding cloth canopy.

T7651

T7652 Length 4½ in., ht. 4¼ in. 1 doz. in box. (Gro., $8.50). Doz., 75c

T7653 Length 5½ in., ht. 5½ in. ½ doz. in box. Doz., $1.95

T7654 Length 7 in., ht. 7 in. ½ doz. in pkg. Doz., $3.50

IMPORTED MECHANICAL TRAINS

Made extra heavy. Neatly and artistically lithographed. Engines equipped with strong spring, attached key and reversible levers. Steel pullman cars have open windows and sliding tops. Each set in strong display box. A very attractive and dependable line at popular prices.

T6350 Locomotive, tender and one car. Length of train 12 in. Four sections track forming circle. 4 doz. sets in box. Doz. Sets, $4.25

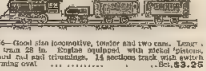
T6353 Good size locomotive, tender and two cars. Length of train 24 in. (Locomotive has nickel pistons and tunnel rail) 8 sections track forming circle Doz. sets, $16.50

T6355—Locomotive, tender and two cars. Length of train over 30 in. Extra large reversible locomotive, nickel trimmed, tender with imitation coal. Two automatic cars with pivot trucks and automatic couplers. 14 sections track with automatic stop Set, $6.50

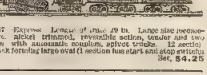
T6351 Locomotive, tender and two cars. Length of train 30 in. Four sections track forming circle Doz. Sets, $8.50

T6355—Length of train 30 in. Extra large reversible locomotive, nickel trimmed, tender with imitation coal. Two automatic cars with pivot trucks and automatic couplers. 14 sections track with automatic stop Set, $6.50

T6355—Good size reversible locomotive, tender and two cars with automatic couplers. Length of train 26 in. 10 sections track forming large oval. Set, $2.25



T6356—Good size locomotive, tender and two cars. Length of train 28 in. Engine equipped with nickel pistons, round end and trimmings. 14 sections track with switch forming oval Doz. Sets, $3.25



T6357 Express. Length of train 29 in. Large size locomotive, nickel trimmed, reversible action, tender and two cars with automatic couplers, apteot trucks. 12 section track forming large oval (1 section has station and stop switch) Set, $4.25

METAL WASH STANDS TOY BATH TUB SETS

Heavy white enameled metal, gilt trimmed. Complete with decorated china bowl and pitcher.

T7655—13½x13½x24½ in. 1 doz. in box. (Gro., $9.00). Doz., 77c

T7656 2 x4x6 in. ½ doz. in box. Doz., $1.95

T7659—8x13½x21½ in. ½ doz. in box. Doz., $2.25

Heavy metal, enameled inside and out, complete with hinged baby

T7660—Length 6¾ in. 1 doz. in box. (Gro., $9.00). Doz., 77c

T7661—Length 7½ in. ½ doz. in box. Doz., $1.65

T7662—Length 4 in., ht. 4 in. Complete with stand, tubing and bucket. 1 doz. in box. (Gro., $5.50). Doz., 50c

T7663—Length 5¾ in., ht. 6½ in. ½ doz. in box. Doz., $1.75

T7664 Length 7½ in., ht. 6½ in. ½ doz. in box. Doz., $2.25

DOLLS NURSING SETS

T7628—Box 13½x8½ in., white enamel table and teething ring, nursing bottle with rubber cover, 1 doz. sets in pkg. (Gro. Sets, $9.00). Doz. Sets, 72c

T7629—Box 17x13½x9 in., white enamel mirror combs, nipple, bottle and nursing bottle. 1 doz. sets in pkg Doz. Sets, $1.75

KNIFE, FORK AND SPOON SETS

T7647—6¼x7½ in. Ribo. display card, with silver finish knife, fork and spoon. Each 4 in. long. 1 doz. sets in box (Gro. Sets, $4.80) Doz. Sets, 42c

T7648—Same Set, 6x8 in. Ribo display card. Set of six nickel finish spoons. 1 doz. sets in pkg. (Gro. Sets, $3.70). Doz. Sets, 33c

ALUMINUM TEA SETS

T7623—Large size box 8x8½x3½ in. Seven pieces. ½ doz. sets in pkg Doz. Sets, $2.25

IMPORTED MARBLES

T7584—Bag ¾ in. smooth finish. Assrtd. colors. 500 in box. 1,000 in pkg Per M 40c

ALUMINUM KITCHEN SETS

Each piece sawed on card in lace edge display box. Good weight aluminum, attractively embossed.

T7645—Box 11½x8½x2 in. 4 pieces. 2 doz. sets in pkg. (Gro., $8.50) Doz., 75c

T7649—Box 14x9x2 in. 5 pieces. 3 doz. sets in pkg. Doz., $1.50

LITHOGRAPHED BANKS WITH LOCK AND KEY

T6823½ 6 styles assrtd., averaging 3x3½ in. 1 doz. assrtd in box. (Gro. Sets, $8.40). Doz. Sets, 72c

ENAMELED SAND SETS

Pieces heavy metal, enameled in beautiful bright colors. Set consists of shovel and sand, sand design imbedded.

T7644 Box 13x5½x9½ in. 5 pieces. 1 doz. sets in pkg. (Gro., $9.50). Doz., 82c

T7645—Box 22x11 in. 7 pieces. ½ doz. sets in pkg Doz., $1.75

T7647—Box 28½x11 in. 8 pieces. Includes sieve. ½ doz. sets in pkg Doz., $1.95

T7646—Box 28½x16 in. 11 pieces. ½ doz. sets in pkg Doz., $2.25

UNION HARDWARE CO.'S BALL BEARING SKATE

T7101—Sizes No. 5. Extends from 8½ to 10½ in. Half clamp iron, clamped toe, formed steel toe protector straps and grooved cutting and pulling nut, ventilating trucks with hood, rubber cushion. Doz., $1.85 ... in 12 pair lots, Pr., $1.60

SHAKING HEAD COW

#7099—STAR VALUE. Platform 21x28 in., stained, lithographed cow 8½ in., well modeled, covered with imitation of skin. Nodding head. ½ doz. in box.
Dozen **$1.95**

HORSE ON ROCKER

#7091—STAR VALUE. 21x28 in., painted wood rocker base 5½ in., pr. metal runs, dapped. artificial leather hair mane, tail and head. 1 doz. in box.
(Gro., **$9.00**) Doz., **77c**

#7075—STAR VALUE. Hi. 8½ in., length 6 in. pebble composition body painted in natural colors, glass eyes. Stands on four wheels. 1 doz. to box
(Gro. **$10.20**). Doz., **87c**

#7078—Hi. 7½ in., length 8 in. ½ doz. in box.
Doz., **$2.25**

CAROUSELS

Popular sellers. All metal, enameled in white with gold gilt striping, horses and riders painted in colors and varnished.

#6865H

#6869H

#6845H—Base 3¾ in., ht. 7 in.; 2 figures. ½ doz. in box.
Doz., **$1.50**

#6866H—Base 4 in., ht. 9 in.; 2 figures. ½ doz. in box.
Doz., **$2.25**

#6867H—Musical, base 4½ in., ht. 8½ in., 3 figures. Each in box.
Doz., **$3.50**

#6868H—Musical, base 5½ in., ht. 10 in.; 3 figures. Each in box.
Doz., **$6.50**

#6870H—Musical, base 6½ in., ht. 12½ in., 4 figures, two suspended lamps. Each in box.
Doz., **$8.50**

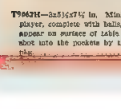
#6870H—Musical, base 7½ in., ht. 13½ in., 3 large figures, two suspended lamps. Each in box.
Each, **$1.00**

#6871H—Musical, base 8 in., ht. 16½ in., 4 figures, three suspended lamps. Each in box.
Each, **$1.50**

MECHANICAL SNAKE

#6841H Length 19½ in., jointed body, painted and varnished in many colors. Strong spring moves body in lifelike manner. A novel toy and a big seller. ½ doz. in box.
Doz., **$1.75**

POPULAR POOL PLAYER



#7063H—8x15x47½ in. Miniature pool table with player, complete with balls, which automatically aspire on surface of table and are immediately shot into the pockets by the player. 1 doz. in pkg.
Doz., **$2.25**

MECHANICAL TOYS

Wide range of assortments. All popular sellers. Heavy metal lithographed and painted in bright attractive colors. Strong springs with attached key.

T7388 Average length 5½ in. 4 kinds assrtd. 2 doz. in box
(Gro., **$2.60**) Doz., **75c**

T7387—Average length 4¾ in. 6 kinds assrtd. 2 doz. in box.
(Gro., **$3.00**) Doz., **77c**

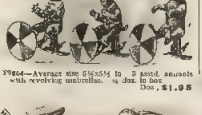
T7399—STAR VALUE. Average length 6½ in. 8 kinds assrtd. 2 doz in box.
(Gro. **$3.50**) Doz. **32c**

T7068—Average size 5x6 in. 3 kinds assrtd. ½ doz. in box.
(Gro., **$10.80**) Doz., **92c**

T7082—STAR VALUE. Average length 7½ in. 3 kinds assrtd. ½ doz. in box.
Doz., **$1.75**

T7056—Ht. 7 in., performing, clown, rabbit and bear. ½ doz. assrtd. in box.
Doz., **$1.85**

T7054—Average size 6½x5½ in. 3 assrtd. animals with revolving umbrellas. ½ doz. in box.
Doz., **$1.95**



T7079—Size 3½x3½ in. Assrtd. chirping birds. ½ doz. in box.
Doz., **$1.05**

T7051 Length 8 in. painted rolling duck, white and gray. ½ doz. in box.
Doz., **$2.15**

T6344—Negro Minstrel Couple dancer. Ht. 6½ in., fully in bright colors. ½ doz. in box.
Doz., **$2.25**

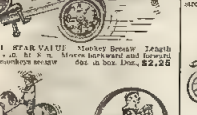
T6345—Performing bear, comic dancer. Ht. 4 in., natural color fitting. ½ doz. in box.
Doz., **$2.25**

T6349—Length 8 in., blue fitting, nickelled and red painted driver, imitation rubber tire wheels, strong spring with attached key. 1 doz. in pkg.
Doz., **$2.25**

T7080—Length 4x4 in. Assrtd. birds with vehicles. ½ doz. in box.
Doz., **$2.25**

T7082—Length 6½ in. St. Bernard. ½ doz. in box.
Doz., **$2.15**

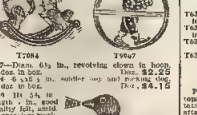
T7291 STAR VALUE. Monkey Scouts. Length 10 in., ht. 8 in. Moves backward and forward as monkeys scoot.
doz. in box. Doz., **$2.25**



T7084 **T7067**

T7067—Diam. 6½ in., revolving clown in hoop. ½ doz. in box.
Doz., **$2.25**

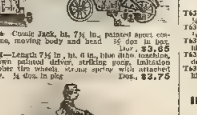
T7086—6 inch, 5 in. rubber toy and working dog. ½ doz. in box.
Doz., **$4.15**



T6449—Ht. 5½ in. length 7 in., good quality felt, assrtd. in electric-lighted eyes, with attached key. Runs in circle. Natural color. ½ doz. in box.
$5.80

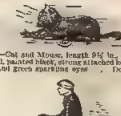
T6346—Comic Jack, ht. 7½ in., painted sport costume, moving body and head. ½ doz. in box.
Doz., **$2.65**

T6341—Length 7½ in., ht. 6 in., blue fitting machine, brown painted driver, striking pose, imitation rubber tire wheels, strong spring with attached key. ½ doz. in pkg.
Doz., **$3.75**



T6343 Length 8 in., ht. 5 in., width 3½ in., blue fitting, nickelled and bronze finish, imitation rubber tire wheels, 8 in. spring. ½ doz. in pkg.
Doz., **$3.75**

MECHANICAL TOYS—Cont'd.



T6348—Cat and Mouse, length 9½ in., extra heavy metal, painted black, strong attached key. Cat has red and green sparkling eyes.
Doz., **$6.50**

T6342—Length 7½ in. ht 8 in., blue fitting, nickelled chain drive, painted driver with movable hands, imitation rubber tire wheels.
Doz. **$6.75**

T6317 Coaching Brake with flapping wings, length 8 in., height 6 in., strong spring motor, heavy metal.
Doz., **$6 50**

MECHANICAL AUTOMOBILES SEDAN MODEL

Made of heavy metal, pain ed red with maroon with best black and yellow striping, black top. Open windows, imitation rubber tire wheels. Strong key spring and key attached. Lithographed driver. Runs straight or in circle. Each in strong box

T6319 Length 6 in., width 2¼ in., ht. 3 in. ½ doz. in pkg.
Doz. **$1.95**

T6318—Length 8 in., width 2½ in., ht. 4 in. ½ doz. in pkg.
Doz. **$2.95**

T6319—Length 9 in., width 4 in., ht. 5 in., lithographed doors.
Doz. **$6 85**

T6320 Length 10½ in., width 4½ in., ht. 5½ in., lithographed doors.
Doz. **$9 00**

T6321 Length 12½ in., width 4½ in., ht. 5½ in., lithographed doors.
Doz. **$10 50**

T6322—Length 13½ in., width 5½ in., ht. 6½ in., lithographed doors.
Doz. **$16.00**

AUTO TOURING CARS

Bodies painted dark blue with light blue striping, black tops, yellow wheels with imitation rubber tires. Lithographed chauffeur. Strong springs with attached key. Runs straight, or in circle. Each in strong box.

T6325—Length 5 in., width 2¼ in., ht. 3 in. doz. in pkg.
Doz. **$1 85**

T6326—Length 7 in., width 3 in., ht. 4 in. doz. in pkg.
Doz. **$3 75**

T6323—Length 8½ in., width 3½ in., ht. 4½ in.
Doz. **$6.50**

T6326—Length 9½ in., width 4 in., ht. 5 in.
Doz. **$9.00**

LIMOUSINE MODEL

Painted in attract ve colors, neatly striped, black tops. 12 in. total length. Open windows, imitation rubber tire wheels. Strong coil spring with attached key. Runs straight or in circle. Each in box.

T6336—Length 6½ in., width 2¾ in., ht. 3½ in. ½ doz. in pkg.
Doz. **$2.60**

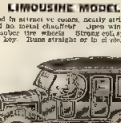
T6335—Length 7½ in., width 3 in., ht. 4 in. ½ doz. in pkg.
Doz. **$3 85**

T6336 Length 8½ in., width 4 in., ht. 4½ in., hinged doors.
Doz. **$6 50**

T6337—Length 9½ in., width 4 in., ht. 5 in. hinged doors.
Doz. **$8.50**

T6338—Length 10 in., width 4½ in., ht. 5½ in., hinged doors, nickel head lights and windshield.
Doz., **$13.50**

IMPORTED HORSE AND CART



T6210—9½ in. stable and cart, painted wood wagon, lithographed
Doz., **$10.80**

FAMOUS BRANDS

DEER HIDE

Men's Cotton Hose

Light weight, 200 needle, fine gauge combed yarn, 1-ply, 2 lsh, 2-1 seamless, rib top, high spliced heel and toe, double sole, elastic looping. Sizes 9½ to 13. SPECIFY SIZES. 1 doz. in box.

1D1017-1 BLACK
1D1017-2 WHITE
1D1017-3 CORDOVAN
1D1017-4 GRAY
1D1017-5 NAVY

Doz. **$2.25**

Children's Cotton Hose

Wt. 3 lbs. 1-1 rib, carded yarn, full seamless, 2 thread top and foot, 3 thread heel and toe, elastic looping. SPECIFY SIZES. 1 doz. in box.

1D1721-1—BLACK

Size	Doz.
6	$2.05
6½	2.10
7	2.15
7½	2.20
8	2.25
8½	2.35
9	2.45
9½	2.55
10	2.65
10½	2.75
11	2.85

SERVICE STOCKINGS

Men's Cotton Hose

Medium weight, 176 needle, super double carded yarn, lisle finish, full seamless, 2/60 and 2/40 elastic looping. Sizes 9½ to 13. SPECIFY SIZES. 1 doz. in box.

1D1435-1—BLACK
1D1435-3—CORDOVAN

Doz. **$1.65**

Women's Cotton Hose

Wt. 4 lb. 8 oz., 200 needle, super double carded yarn, lisle finish, full seamless, wide hem top, 2 thread heel and toe, specially reinforced with 2 rib mercerized yarn elastic looping. SPECIFY SIZES. 1 doz. in box.

1D1458-1—BLACK
1D1458-2 WHITE
1D1458-3—CORDOVAN

Doz. **$1.65**

Children's Cotton Hose

Wt. 17 oz., 1-1 rib, lisle finish full seamless, 2 thread hem top, toe & heel spliced. SPECIFY SIZES. 1 doz. in box.

1D1468-1—BLACK
1D1468-3—CORDOVAN

Size	Doz.
5	$1.45
5½	1.50
6	1.55
6½	1.60
7	1.65
7½	1.70
8	1.75
8½	1.85
9	1.95
9½	2.05
10	2.15

1D1468 1D1458

FOOT GARD

MERCERIZED HALF HOSE

Men's Mercerized Hose

Light weight, 220 needle, fine gauge, 2 ply mercerized lisle yarn, full seamless, spliced heel and extension toe, double sole, elastic looping. Sizes 9½ to 11. SPECIFY SIZES. ½ doz. in box.

1D1866-1—BLACK
1D1866-2—WHITE
1D1866-3—CORDOVAN
1D1866-4—GRAY
1D1866-5—NAVY

Doz. **$3.25**

DOE SKIN

MERCERIZED HOSIERY

Children's Mercerized Hose

Light wt. 140 needle, fine gauge, 2 ply mercerized yarn, full seamless, elastic looping. SPECIFY SIZES. ½ doz. in box.

1D1530-1—BLACK
1D1530-2—WHITE
1D1530-3—CORDOVAN

Size	Doz.	Size	Doz.
5	$3.85	7	$4.36
5½	3.96	7½	4.46
6	4.05	8½	4.56
6½	4.15	9	4.66
7	4.25	9½	4.76

AMERICAN GIRL

HOSIERY FOR GIRLS

Combed Cotton Yarn

Medium wt. 200 needle, 1-1 rib fine gauge combed yarn, full seamless elastic loop top, spliced heel and toe, double sole. SPECIFY SIZES. 1 doz. in box.

1D1535-1 BLACK
1D1535-2 WHITE
1D1535-3—CORDOVAN

Size	Doz.
5	$2.05
5½	2.10
6	2.15
6½	2.20
7	2.25
7½	2.30
8	2.45
8½	2.55
9	2.65
9½	2.75

LADY LISLE

MERCERIZED

Mercerized Lisle Yarn

Light wt. 200 needle, fine gauge, 2 ply mercerized lisle yarn, full seamless, spliced heel and toe, double sole, elastic looping, high spliced hem top, fashion marks, mercerized wide hem top, high spliced heel and extension toe, double sole, elastic looping. SPECIFY SIZES.

REGULAR SIZES
8½, 9, 9½, 10. SPECIFY SIZES.
½ doz. in box.

1D1940-1—BLACK
1D1940-2—WHITE
1D1940-3—CORDOVAN

Doz. **$4.25**

OUT SIZES
6 to 10½. SPECIFY SIZES.

1D1941-1—BLACK
1D1941-2—WHITE
1D1941-3—CORDOVAN

Doz. **$4.50**

2001

WOMENS SILK HOSIERY

Pure Thread Silk

200 spring needle fabric, 10 in. pure thread silk boot, seamed leg, fashion marks, mercerized wide hem top, high spliced heel and extension toe, double sole, elastic looping. Sizes 8½ to 10. SPECIFY SIZES. ½ doz. in box.

1D7001-1 BLACK
1D7001-2— WHITE
1D7001-3—CORDOVAN

Doz. **$12.00**

Minuet

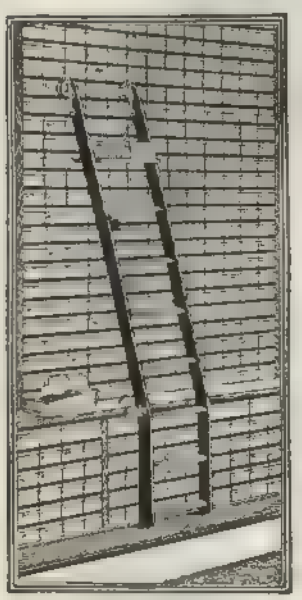
COTTON HOSIERY

Combed Cotton Yarn

Medium wt. 220 needle, combed yarn, lisle finish, seamed leg, wide hem, top high spliced heel and toe, double sole, elastic looping. Sizes 9½ to 11. SPECIFY SIZES. 1 doz. in box.

1D1193-1—BLACK
1D1193-2 WHITE
1D1193-3—CORDOVAN

MILBRADT ROLLING STORE LADDERS



Showing No. 1 bent ladder, which runs on a track fastened to shelving near the top and runs close to wide base shelf.

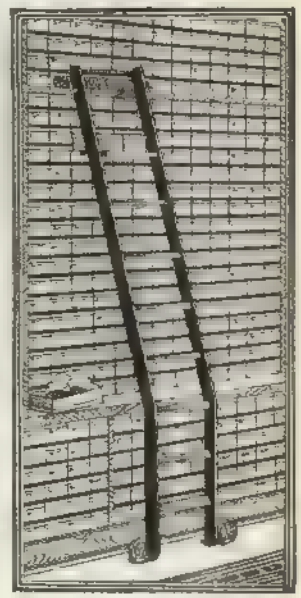
The Milbradt Rolling Stepladders are all made to order, and to fit each particular place, of good oak lumber, in the most artistic and neatest style, handsomely finished, are durable and perfectly safe, as they cannot jump the track. They take up the least possible space, run noiselessly and so easily, either empty or with operator upon them, that a slight push will propel a ladder the length of an ordinary store. These ladders have an extra wide shelf at the top, which affords great convenience in handling stock. All iron work on ladders, as well as the brackets to hold up steel track, is malleable, artistic and strong and aluminum finished.

No. F1—Suitable fixtures at the top to run on steel track and rubber covered rollers attached near the lower end to run against the edge of base shelf. Best for all around purposes where shelving is reasonably strong. With fixtures★ .....each $36.00

No. F2—For shelving that is not strongly built. Most of the weight of ladder and operator rests on the floor. Runs on a hardwood track at the top and has cushion tired wheels to run on the floor. No track required. Wit fixtures★ ....each $36.00

No. F10—Bent ladder that runs on a flat hard wood track screwed on top of original low shelving. When top of shelving is reasonably strong this is the most convenient way to apply a ladder to this style of shelving. Wit fixtures★ .....each $36.00

No. F15—Trolley or ceiling ladder that suspends from a track fastened to ceiling. Has at the top, suitable iron in which paper filled wheels run noiselessly on the steel track and also has cushion tired wheels that run on the floor. Very strongly built and specially adapted for hardware stores or any place of business where heavy goods are handled. With fixtures, each★ $36.00



Showing No. 2 bent ladder, which runs on floor.

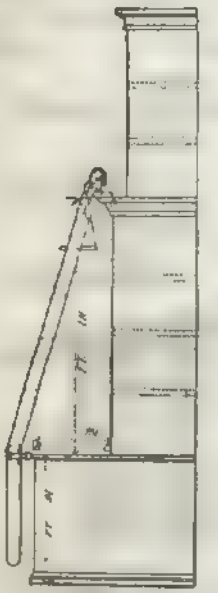
Approximate W't Ladder Crated 50 Lbs.

No, F11—Steel Track—For No. 1, regular strength★ per ft. $0.70
No, F150—Steel Track—For No. 15★ .....per ft. .70

Approximate W't Steel Track 1 lb. per Foot.

No, F20—Hardwood Track—For No. 2, complete★ per ft. $0.50
No, F200—Hardwood Track—For No. 10, complete★ per ft. .50

Approximate W't Steel Track 1 lb. Per Foot.



Showing No. 10 bent ladder, which runs on track screwed on top of original low shelving.

HOW TO ORDER

Ladders as Nos. 1 and 2 give the exact height from floor to top of base shelf; the exact width or projection of base shelf and then the exact height from top of base shelf to top of shelf to which track is to be fastened and the track shell be fastened to a shelf that is about 3 feet from the top.

Steel track for ladders No. 1, both regular and extra strong, is 1 inch in diameter and therefore does not block up any space when fastened up opposite the edge of shelf. When ordering steel track give the total length of each line of shelving; second, give distance from center to center of uprights and state how many brackets are required to hold up the steel track. For regular steel track the brackets cannot be more than 4 ft. apart. When the uprights to which bracketts are to be fastened are more than 4 ft. apart, it is necessaary to use extra strong steel track.

Ladder No. 10, give the exact height from floor to top of base; the width or projection of base and then the exact height from base to the top of shelving or cornice on top of which track is to be fastened. Also state how much the cornice or moulding on top of which track is to be fastened, projects out over lower part of shelving.

Trolley ladder No. 15, is only necessary to give the exact height from floor to ceiling and the exact length of each line of track wanted.

To order wood track for ladders Nos. 2 and 10, it is only necessary to state the number of feet required.

For further information write for special Rolling Ladder Catalogue.

Showing No. 15 trolley or ceiling ladder, which suspends from a track fastened to ceiling.

★ **Items Marked Thus ★ Are Shipped From Factory Only.**

REVONOC FIRE EXTINGUISHERS

REVONOC Fire Extinguishers are examined, approved and labeled under direction of National Board of Fire Underwriters.

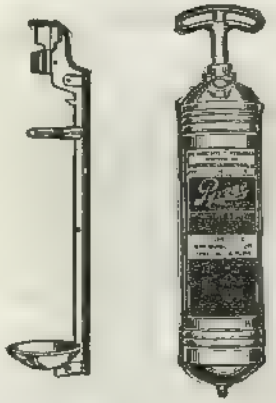
The chemical charge consists of 1½ lbs. bicarbonate of soda and 4 oz. of sulphuric acid, which can be obtained at any drug store. The soda is to be dissolved in about three gallons of water. The acid is retained in the bottle and held in the bottle holder from the top of the extinguisher. In use the extinguisher is turned bottom side up. This allows the acid to mix with the soda solution, creating a very powerful gas with a pressure sufficient to throw the chemical stream 50 feet.

This stream as a fire fighter is fifty times as effective as plain water.

Extinguishers of this type will freeze at 32 degrees Fahrenheit, and should not be kept in an unheated room in winter.

No. R3 REVONOC—Approved, 3 gal., made of special cold rolled Lake Superior copper, all seams hand riveted, solder sweated and lead filled, entire inside lead lined, top collar and cap of best steam brass carefully fitted by expert workmen, patent removable brass bottle holder, improved goose-neck, hose connection, extra heavy, chemically treated hose with solid lead nozzle, tested 350 lbs., hydrostatic pressure, packed complete in box with acid and soda for one charge, w't each 23 lbs.,
per dozen $324.00

PYRENE FIRE EXTINGUISHERS



Pyrene Liquid contains neither acid, alkali salts, no moisture, will not stain or injure anything with which it may come in contact. Will not freeze at a temperature of 50 degrees F. below zero. The device in which Pyrene is used is a double-acting pump easily operated by hand, capacity one quart, made of brass and white metal throughout.

When Pyrene liquid is subjected to a temperature of 200 degrees F or over, it is immediately transformed into a heaavy, dry, cohering, non-poisonous gas blanket, which surrounds the burning material, cutting off the air supply necessary for the life of the fire. Can easily be used by a woman or child. It is practical for home, factory, automobile or motor boat.

No. 101—Brass, with wall bracket, w't each 6 lbs.,
per dozen $120.00

No. 102—Nickel, with wall bracket, w't each 6 lbs.,
per dozen $201.50

Our reputation founded on over sixty-seven years' business stands back of the GUARANTEED brand.

All goods branded GUARANTEED are guaranteed to be of highest quality material and workmanship and free from imperfections.

METAL BOXE

These boxes prevent tampering with the fire extinguishers.

No. 1016—Light type, for interior use made of rust proof metal, finished red, w't each 2 lbs.,
per dozen $36.00

PYRENE LIQUID

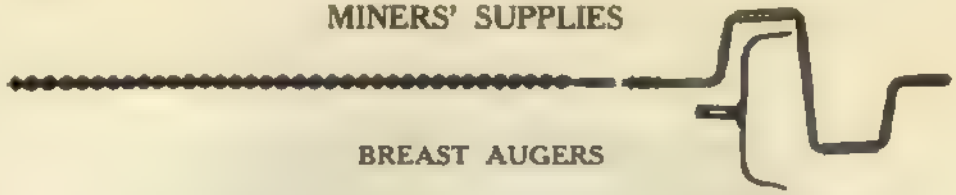
Quart Cans.
No. 103—Per dozen $18.00
Gallons Cans.
No. 104—Per dozen $72.00

HAND FIRE PUMPS

The Geyser uses plain water to which salt may be added in winter to keep from freezing.

No. R25D—Geyser, capacity 5 gal., made of No 26 gauge galvanized iron, double action pump throws a stream 40 to 50 feet, w't each 12½ lbs.,
per dozen $132.00

MINERS' SUPPLIES



BREAST AUGERS

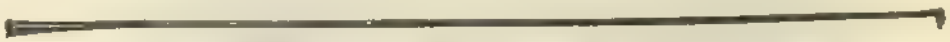
Double crank, detachable breast plate and socket, with feather edge bits

Length of bits, feet	4	5	6
Weight per dozen, lb	234	246	258
No. 1. Diameter of twist, 1½ inches, per dozen,	$60.00	62.50	65.00
Add for 1¾ inch twist, per dozen,	5.00	5.00	5.00

Extra double cranks, per dozen,	$12.50
Extra breast plates, per dozen,	10.00
Extra couplings, per dozen,	3.00

Extra Twists or Bits

Length, feet	4	5	6
Per dozen	$3.50	4.50	5.50



STEEL COMBINED TAMPERS AND SCRAPERS

Made of ½ inch round, with tamper on one end and scraper on other

Length 6 feet. Weight per dozen, 30 lb, per dozen, **$15.00**

COPPER TIPPED COMBINED TAMPERS AND SCRAPERS

Made of ½ inch round, with tamper on one end and scraper on other

Length 6 feet. Weight per dozen, 58 lb, per dozen, **$35.50**

MINERS' NEEDLES

Length 6 feet, drawn gradually to the point, uniform in size with exact taper

Steel, black, oil finished, per dozen,	$12.50
Steel, polished and oiled, per dozen,	14.00
Copper, per dozen,	21.50

COAL WEDGES

Cast steel, regular pattern

Weight, lb.	2 to 5
Per pound	$0.27

COAL PICKS

Solid steel. Short ear. Anchor back

Weight each, lb	2	2¼	2½	2¾	3
Per dozen	$12.50	12.50	12.50	12.50	12.50

COAL PICKS

Solid steel. Long ear. Straight back

Weight each lb	2	2¼	2½	2¾	3
Per dozen	$12.50	12.50	12.50	12.50	12.50

Western pattern cutting pick square in shape, for all ordinary hard cutting coals.

Weight each, lb	2	2¼	2½	2¾	3
No. 19. Per dozen	$14.00	14.00	14.00	14.00	14.00

MINERS' CARBIDE LAMPS

GUY'S DROPPER MINERS' CAP LAMPS

Made of heavy gauge sheet brass throughout. Equipped with Guy's patented water dropper, which is fitted with valve cleaner. If dropper becomes clogged, a few turns of the knurled thimble at end of dropper tube will open it. Has a 2½ inch deep brass polished reflector intended for miners working in wet places or where the roof is low. The reflector is deep enough to protect the burner from water. Round wire hoop and clasp. Carbide container has two knurled bands which enable miner to get a firm grip when unscrewing the container from the water tank. Self lighter attached to reflector. Weight each, about 5 ounces.

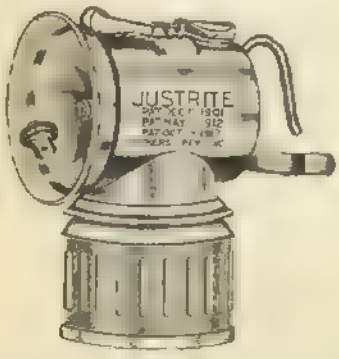
No. 28. Polished brass . . . . . each, **$1.00**
No. 280. Nickel plated . . . . . each, **1.50**

JUSTRITE MINERS' CAP LAMPS

Are made in two parts, water reservoir and carbide container, drawn from seamless brass. Attached parts are riveted and soldered inside. The reflector is polished and is part of the lamp and cannot get loose or break off. The water cap has water chamber to prevent leakage, fits snug and is easy to open and close. Hook fits all caps. Clasp is made of spring brass, holds lamp secure to cap and will fit all standard cap shields.

Equipped with lighter attachment, round hook and clasp, lever valve feed, No. 66 lava tip and 2¾ inch reflector. Height of lamp 4 inches; diameter of bottom 2 inches; water tank is 1¾ inches in diameter and 2¾ inches long; candlepower 16.7; capacity 2 ounces ¼ inch carbide; weight 5 ounces

No. 407. Polished brass lamp only. . . . . each, **$1.10**
No. 85. Polished brass, with No. 77 carbide can . each, **1.25**



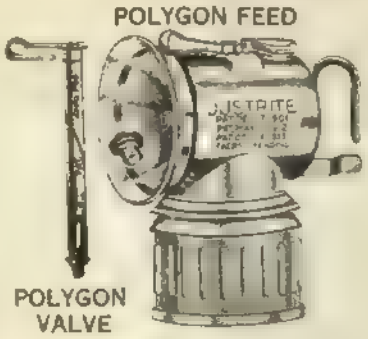
With Liberty Feed and New Reinforced Bottom

The Liberty valve is designed to give a liberal flow of water, because the water flows through the inside of the valve stem, instead of around a restricting wire or rod. No wire or rod is used in the Liberty valve water tube, to interfere with the flow of water to the carbide. Equipped with lighter attachment, round hook and clasp, No. 66 lava tip and 2¼ inch reflector. Height of lamp 4 inches, diameter at bottom 2 inches. Candlepower 16.7. Capacity 2 ounces, ¼ in. carbide. Weight 5 ounces.

No 907. Polished brass lamp only. . . . each **$1.25**
No. 989. Nickel plated lamp only . . . . each, **1.50**
No. 965. Bottom only, polished brass. . . . each, **.25**
No. 935. Bottom only, nickel plated . . . . each, **.30**

MINERS' CARBIDE LAMPS

JUSTRITE MINERS' CAP LAMPS



Polygon feed; lighter attachment; round hook. Standard Justrite shape with permanent reflector, new metal water door and reinforced bottom.

2¼ Inch Concave Reflector

No. 707, Polished brass . . . . . each, **$1.10**
No. 709. Nickel plated. . . . . each, **$1.25**

3 Inch Saucer Shape Reflector

No. 769. Nickel plated. . . . . each, **$1.30**

VICTOR CARBIDE MINERS' LAMPS

With regulating valve water feed, detachable reflector and brace with sparker. Round hook.

2⅝ Inch Reflector

No. 661. Polished brass . . . . . each, **$1.10**
No. 663. Nickel plated . . . . . each, **1.25**

JUSTRITE SUPERINTENDENTS' LAMPS

With Liberty Feed

Drawn from seamless brass. Attached parts are riveted. Deep, concaved reflector, equipped with lighter attachment, round hook, folding handles, pocket carbide can and No. 28 jewel tip. Full nickel plated.

Nos.	95	100
Height, in.	4¾	3¾
Reflector, in.	3	2⅝
Candle power	18	16.7
Capacity, oz.	3	2
Burns hours	4½	3
Weight, oz.	7	6
Each	**$2.00**	**1.50**

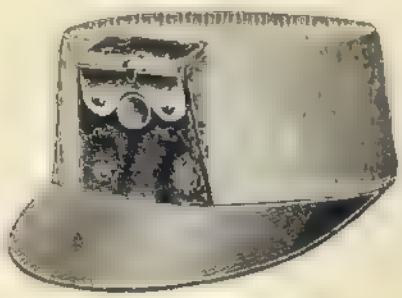
CARBIDE LANTERNS

JUSTRITE

Constructed of brass throughout and for operating purposes is composed of but two parts; the upper frame with handle and wire guards enclosing the glass globe, burner, gas feed and carbide container; and the lower bowl or water reservoir. Globe is of heavy clear glass held in place by spring device. Lamp is nickel plated and highly polished. Removable reflector. Automatic generator. Height 9 inches. Gives 20 candlepower light. Burns 5 to 6 hours with 3 ounces of carbide. Weight each 2½ pounds. Packed in metal case.

No. 10. Each **$6.00**

MINERS' CAPS



Made of heavy white duck, flannel lined. Long visor of solid sole leather, 2¾ inches wide. Lamp holder is solid leather, with a small metal top-piece for carrying lamp.

No. 180L. Assorted sizes.....per dozen, **$9.50**

Weight per dozen, about 3½ lbs

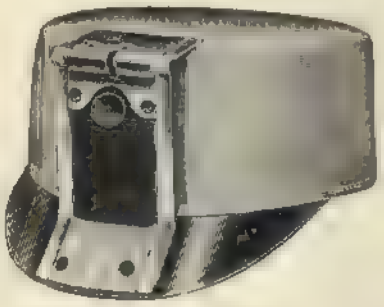
One dozen in a box. Twelve dozen in a case

Made of heavy weight, special shrunk duck, flannel lined. The visor is of heavy sole leather, 2½ inches wide. Sole leather lamp holder, with a metal top-piece for carrying lamp.

No. 211. White duck, assorted sizes .. . ..per dozen, **$9.00**

No. 214. Brown duck, assorted sizes... ....per dozen, **9.00**

One dozen in a box. Twelve dozen in a case



Made of heavy weight, special shrunk duck, flannel lined. Visor made of heavy material and covered with duck. Will not be affected by water or dampness. Lamp holder is constructed of XX tin and interlined with vulcanized fibre. Lamp holder is especially adapted for carrying acetylene lamps.

No. 200. White duck, assorted sizes..... . .per dozen, **$7.00**

No. 220. Brown duck, assorted sizes.. .. .per dozen, **6.50**

One dozen in a box. Twelve dozen in a case

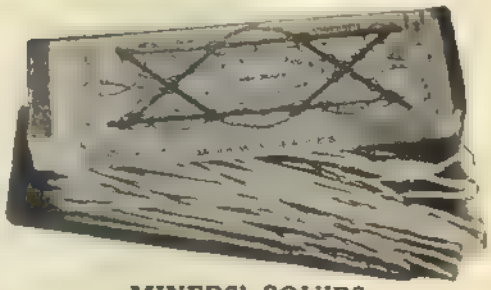
MINERS' SUPPLIES

POWDER CANS

1C Tin		
Capacity, lb.....	5	12½
Weight, per dozen lb.....	8	11
Per dozen.....	**$6.00**	**9.00**

SQUIB BOXES

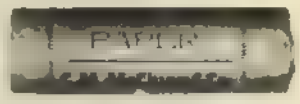
Oval pattern, heavy tin; holds 100 squibs; weight per dozen, about 1½ lb.....per dozen, **$1.20**



MINERS' SQUIBS

Daddow & Beadle. 6 inches long. Weight per case, 35 lb. .....per case, **$50.00**

One hundred in a carton. Ten thousand in a case



BLASTING PAPER

In rolls 9 inches wide, weight per roll, 1½ lb.

Cranberry. Best quality Waterproof .per case, $

Black Diamond. Medium quality. Waterproof.....

. . . . . per case, . . .

One hundred rolls in a case

BLASTING FUSE

May be used with blasting caps to detonate high explosives when it is not necesary to fire more than one charge at a time. It may also be used, without blasting caps, to explode blasting powder.

Single Tape For damp work.....per 1,000 ft. **$10.00**

Double Tape. For wet work.....per 1,000 ft., **12.35**

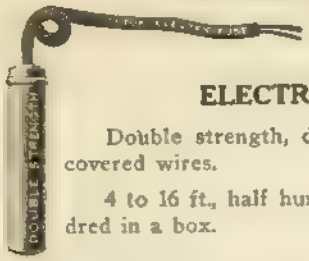
Charter Oak Brand. For wet work.....per 1,000 ft. **9.60**

In packages of two 50-foot rolls, one inside of the other

FUSE CUTTERS

Prince Fuse Cutter and Cap Crimper. Weight per dozen, about 2 lb.....each, **$3.00**

MINERS' SUPPLIES



ELECTRIC EXPLODERS

Double strength, double wound insulation, cotton covered wires.

4 to 16 ft., half hundred; larger sizes, quarter hundred in a box.

Length, ft.	4	6	8	10	12
Weight per 100, lb	3½	5	6¼	7½	9
Per 100	$9.00	10.25	11.50	12.80	14.00
Length, ft.	14	16	18	20	
Weight per 100, lb	10½	11	12	13½	
Per 100	$15.25	16.45	17.70	18.95	

BLASTING CAPS

Charged with quick and powerful explosive, which is very sensitive to shock, high temperature or a spark. Blasting caps must be handled carefully.

No. 6. Sextuple force, weight per box ½ lb..per 1000, **$21.70**

One hundred in a box

LEADING WIRE

Leading Wire

Used for connecting electric fuses to the blasting machine. Is a single copper wire thoroughly insulated with a triple weather proof cover

No. 14. Put up in 500 ft. coils, weight about 24 lb. per 1000 ft. .....per pound, $ .. .

CONNECTING WIRE

Connecting Wire

Is an insulated copper wire for connecting electric fuses when several charges are to be fired simultaneously.

No. 18. Put up on 1 lb. spools, weight about 6½ lb. per 1000 ft. .....per pound, $... .

BLASTING MACHINES

Are the latest approved push-down rack, bar type, generating their own electricity; are always ready for instant use; are very strongly made, but are light in weight and simple in construction.

Nos.	1	2	4
Blasting cap capacity	15	30	50
Weight each, lb	35	35	50
Each	$	.....	.....

MINERS' SUPPLIES

DYNAMITE

Atlas Low Freezing Nitroglycerin

Fast and shattering. Used for quarrying and excavating

Strength	40%	50%	60%
Per lb. (1¼x8 in. sticks)	$.....	.....	.....

Atlas Extra Low Freezing Ammonia

Moderately fast. Used for quarrying, excavating and agriculture.

Strength	33%	40%	50%	60%
Per lb. (1¼x8 in. sticks)	$.....	.....	.....	.....

Atlas Gelatin Low Freezing

Very fast with straight primer. Moderately fast with blasting cap. Used for underground work, tunneling, etc.

Strength	40%	50%	60%
Per lb. (1¼x8 in. sticks)	$.....	.....	.....

Atlas Coalite

Permissible for dry and wet coal mining

Per lb .....$.....

Atlas Miners' Friend

Permissible for dry and wet coal mining. Both high and low freezing

Per lb .....$.....

Atlas Farm Powder

Moderate strength, low freezing. Used for blasting stumps, tree planting, ditching, etc.

Per lb .....$. ...

All above, fifty pounds in a case

RAILROAD POWDER (JUDSON)

Has about four times the strength of black blasting powder. Used by railroad contractors for removing dirt and rocks and for blowing stumps.

In 12½ pound bags, four bags in a case....per pound, $.....

Rules for Shipping Dynamite and Dynamite Caps

Dynamite must be shipped separately, and not with dynamite caps

Dynamite caps can be packed with fuse up to 500 caps.

Dynamite caps can be packed alone up to 1000 in a box.

Blasting fuse can be shipped with high explosives in same car

Electric fuse cannot be shipped in same car with dynamite

No. F No. FF No. FFF

BLACK BLASTING POWDER

For use in coal mines, building stone quarries and for blasting in soft materials where high explosives are too quick in their action to utilize their entire strength. This powder exerts a strong push upon the material to be moved, and not a blow similar to that exerted by high explosives.

Nos.	F	FF	FFF
Per keg	$.....	.....	.....

Twenty-five pounds in a keg

SAVAGE RIFLES

SINGLE SHOT

Model 1904, Take Down

18 inch round barrel chambered for 22 short, long or long rifle rim fire cartridges; metal bead front and peep rear sights, automatic ejector; blue frame and mountings, nicely finished American walnut stock, shotgun butt.

NO.	Wt. Each	EACH
SMO422	3 lb.	$8.50

N. R. A.—22 Caliber

Shoots long rifle cartridges only. Bolt action, 5 shot. Loads with clip magazine. 25 inch round barrel, full military stock, pistol grip, sling swivels, marine corps front and wind gauge aperture, rear sights.

NO.	Wt. Each	EACH
S-1910-22	7½ lb.	$19 50

Extra Magazines

NO.	Wt. Each	EACH
S-1910-EM	2 oz	.65

HAMMERLESS

Model 1914, Take Down, 20-17-15 Shot

Beauty of outline, typical of all savage arms is increased in this model by introduction of a trombone action slide handle, shaped as a regular forearm. This overcomes the strained cramped position of the left arm and wrist unavoidable with other .22 caliber arms of the trombone type and permits the shooter to grasp the rifle with the left hand easily and as far forward as he desires. Solid breech hammerless, 24 inch octagon barrel, American walnut shotgun full pistol grip stock with steel butt plate, head front sight and adjustable wind gauge rear sight. Magazine holds twenty .22 short, seventeen .22 long, or fifteen .22 long rifle cartridges. Length taken down 27½ inches.

NO.	Wt. Each	EACH
SM1422	5¾ lb.	$21 00

REPEATING SADDLE GUNS

Model 1899, Solid Frame, 6 Shots

High pressure steel barrel, blued frame, case hardened lever and butt plate; sporting front and adjustable rear sights. An automatic indicator always shows the number of cartridges in the magazine. This carbine has a solid wall of steel between the barrel and the operator, and a safety device that locks the mechanism and prevents accidental discharge.

NO.	Caliber	Barrel	Wt. Each	EACH
99300	30-30	22 in. Round	7 lb. 10 oz.	$39 00
99303C	303	22 in. Round	7 lb. 10 oz.	39 00
99300C	300	24 in. Round	7 lb. 10 oz.	39.00

Shotguns, rifles and revolvers are guaranteed by the factories which make them—to be free from imperfections in material and workmanship.

RIFLES

STEVENS

LITTLE SCOUT—Take Down

18 inch round blued steel barrel, case hardened frame, positive extractor, shoots BB and CB caps, 22 short, long and long rifle rim fire cartridges; blued trimmings, knife blade front and open rear sights; American walnut stock, steel butt plate.

NO.	Caliber	Length	Wt. Each	EACH
1422	22	33 in.	2½ lb.	$5.40

CRACK SHOT—Take Down

Specially Designed for Smokeless Powder Ammunition.

18 inch round barrel, blued frame; lever action, oval stock; carbine butt plate; knife blade front and open rear sights. Adapted for CB caps. 22 shorts, 22 long or 22 long rifle cartridges.

NO.	Caliber	Wt. Each	EACH
2022	22	3½ lb.	$6 85

22 Caliber smooth bore. Chambered for 22 long shot shell.

NO.		EACH
SB2622	22	6 85

MARKSMAN—Take Down

Specially Designed for Smokeless Powder Ammunition.

20 inch round tip-up barrel; blued frame; plain lever; plain extractor; full oval stock; shot gun butt with rubber butt plate; bead front and open rear sights. Adapted for CB caps, short, 22 long, or 22 long rifle cartridges.

NO.	Caliber	Wt. Each	EACH
1222	22	4 lb.	$8.65

FAVORITE—Take Down, Lever Action

22 inch half octagon blued steel barrel; case hardened frame and mountings; solid breech block, knife blade front and open rear sights; oil finished walnut stock and forearm. Chambered for 22 short, long and long rifle rim fire cartridges.

NO.	Caliber	Wt. Each	EACH
1722	22	4½ lb.	$9 85

SMOOTH BORE—Shotgun

22 Caliber, chambered for 22 long shot cartridges.

NO.	EACH
2022	$9.85

STEVENS

Repeating

Visible Loading, Take-Down, 16 Shots

22 caliber, rim fire, shoots 22 short cartridges and will also handle C. B. caps; 20 inch round blued steel barrel, fitted with bead front and sporting rear sights; varnished walnut stock and slide handle, case hardened frame, blued trigger guard, rubber butt plate. The magazine holds 15 short cartridges; the visible loading feature is entirely new, the cartridge is always in sight while being fed into the chamber. Strong double extractors make extraction of the empty shell absolutely positive. The breech block and hammer have positive locks. Carefully bored and rifled and finely finished. Full length of rifle 35 inches.

NO.	Wt. Each	EACH
7022	5 lb.	$15.00

HAMILTON

Single Shot

Model No. 27, Take-Down, 22 Caliber

Chambered for short or long rim fire cartridges; 16-inch tapered round bronze blued steel barrel; hammer action, automatic ejector, solid breech block; front knife and open rear adjustable sights; blued finish, walnut stock and fore-end, steel butt plate.

NO.		Wt. Each	EACH
27	Flat	3 lb.	$3.50
027	Oval	3 lb.	4.00

ONE IN A BOX, WITH CLEANING ROD—TEN IN A CASE

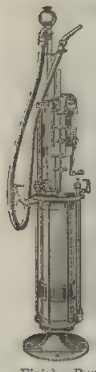
Repeating

Model No. 39, 22 Caliber

Every detail of this hammerless, take-down, pump-action rifle has been carefully worked out and perfected. Its construction is simple, yet includes every feature essential to safety and perfect operation. Symmetrical in design and nicely finished, handsome in appearance, of convenient length (35 inches) and light weight (4 pounds); magazine holds 15 cartridges, 22 short.

NO.	EACH
3922	$12.50

GASOLINE OUTFITS



MOGUL GASOLINE STORAGE OUTFIT

Pump measuring 1, 2, 3, 4 or 5 Gallons.

Long distant type, adjusted to measure, 1, 2, 3, 4 or 5 gallons at a stroke; 9 inch seamless brass cylinder; ¾ inch brass pistin rod; heavy brass valves and stuffing box; cut steel gears, bronzed, bushed and protected by gear guard; case hardened bearings and spindles; normal capacity 25 gallons per minute. Automatic Gear Shift For quick return of rack bar, which can be reversed in a ratio of one reverse motion of the handle to five forward turns.

Indicator—an aluminum etched dial is attached to front of rack bar and is calibrated for every pint from one pint to five gallons, showing at a glance the amount pumped in pints if stopped between gallon buttons.

Discharge Register—Automatically tallies every 5 gallons pumped from 0 to 50 gallons and is reversible from any point.

Removeable Pump Handle—Handle may be slipped off, making pump fool and meddler proof.

Quality Stops—For 1, 2, 3, 4 and 5 gallons are located in front on pump standard. To change measurements it is but necessary to push in the nickeled disc stamped with the quantity desired.

Finish—Pump and Cabinet are highly finished in vermilion enamel, with nickel trimings.

Tanks—Are built in any capacity and any gauge of galvanized steel; riveted and soldered throughout. Both pumps and tanks are tested inspected and labeled by the National Board of Fire Underwriters.

STANDARD EQUIPMENT

Outfits with 12 Gauge Tank.

Nos.	Capacity Barrels	Capacity Gallons	Weight Lbs.	Each
A-5212-2	2	120	610	✤$607 50
A-5212-3	3	170	630	✤ 648 00
A-5212-4	4	220	750	✤ 688 50
A-5212-5	5	280	820	✤ 729 00
A-5212-7	7	390	950	✤ 810 00
A-5212-9	9	500	1100	✤ 891 00
A-5212-10	10	550	1170	✤ 931 50

Outfits with 14 Gauge Tank.

Nos.	Capacity Barrels	Capacity Gallons	Weight Lbs.	Each
A-5214-2	2	120	570	✤$578 40
A-5214-3	3	170	630	✤ 610 20
A-5214-4	4	220	690	✤ 642 60
A-5214-5	5	280	750	✤ 675 00
A-5214-7	7	390	870	✤ 740 80
A-5214-9	9	500	990	✤ 804 60
A-5214-10	10	550	1050	✤ 837 00

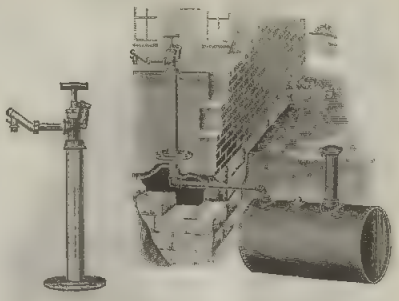
	Each
No. A-77—100,000 gallon meter	✤$67 50
No. A-78 Gravity filter	✤ 67 50
No. A-52FN-0—1¼ inch filling nozzle open type	✤ 8 10
No. A-52FN-S—1¼ inch filling nozzle shut-off type	✤ 16 20
No. A-52HDU—Hose draining valve	✤ 27 00
No. A-75—Roadway box	✤ 27 00
	Per Foot
No. A-52GH—1¼ inch steel lined hose	✤$3 36
No. A-52GIP—2 inch galvanized pipe	✤ 1 35

Crated.

✤F. O. B. Missouri Factory Only.

GASOLINE OUTFITS

WESTERN LITTLE GEM OUTFIT



For Private Garage Use.

Tested, labeled and approved by the National Board of Fire Underwriters.

The pump has a seamless brass cylinder, safety automatic shut-off cock and brass plunger and valves; fitted with locking device, brass lock and duplicate keys; operates by a direct pull over the cylinder.

Tank built of galvanized steel, all seams perfectly welded, not riveted; fitted with fill pipes having double strainers and lock cap.

Height to top of pump 25 inches; height to top of handle raised 40 inches; extreme width 13 inches.

Furnished with measuring rod for tank, brass locks, pipe unions, bolts for fastening to floor and with complete instructions for installing.

Outfit with 14 Gauge Tank.

Nos.	Capacity Barrels	Capacity Gallons	Weight Lbs.	Each
A-3714-1	1	65	190	✤$ 94 50
A-3714-2	2	120	250	✤ 126 90
A-3714-3	3	170	310	✤ 159 30

Outfit with 16 Gauge Tank.

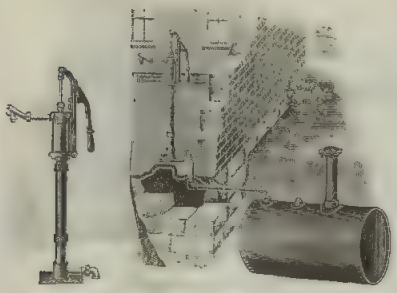
Nos.	Capacity Barrels	Capacity Gallons	Weight Lbs.	Each
A-3716-1	1	65	165	✤$ 81 00
A-3716-2	2	120	205	✤ 103 00
A-3716-3	3	170	245	✤ 135 00

One in a crate.

A good gasoline Outfit not only is a profitable thing to have, but also brings many customers into your store to buy other Accessories, who otherwise would drive by.

GASOLINE OUTFITS

WESTERN PERFECTION OUTFIT



For Private Garage.

Tested, labeled and approved by the National Board of Fire Underwriters.

Pump is built along the same lines as the long distance styles with lever instead of rotary motion of the handle. It discharges an approximate quart at a stroke and is fitted with locking device and automatic shut-off cock.

Tank is made of heavy galvanized steel, coated with three coats of asphaltum, evaporation and rust proof. Equipped with heavy brass foot valve at bottom of suction pipe, insuring the discharge of gasoline at the first stroke of the handle.

The filler pipe is of heavy galvanized iron, fitted with lock cap and galvanized iron inner tube that extends to bottom of tank and is fitted with double strainers made of fine mesh brass wire cloth.

Outfit with 14 Gauge Tank.

Nos.	Capacity Barrels	Capacity Gallons	Weight Lbs.	Each
A-4714-1	1	65	225	✤$140 40
A-4714-2	2	120	275	✤ 172 80
A-4714-3	3	170	325	✤ 205 20

Outfit with 16 Gauge Tank.

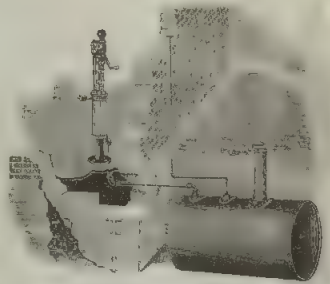
Nos.	Capacity Barrels	Capacity Gallons	Weight Lbs.	Each
A-4716-1	1	65	200	✤$126 90
A-4716-2	2	120	240	✤ 153 90
A-4716-3	3	170	280	✤ 180 90

One in a crate.

✤F. O. B. Missouri Factory Only.

GASOLINE OUTFITS

WESTERN—LONG DISTANCE SELF-MEASURING OUTFIT



(Complete outfit.)

(Shows pump fully equipped.)

Tested, labeled and approved by the National Board of Fire Underwriters.

Guaranteed by the manufacturers against any defect in material or workmanship for a period of three years.

This equipment designed especially for inside discharge. The pump is located inside the building at most suitable location, while tank is buried and filled outside

The pump is adjusted to measure gallons, half gallons, quarts or pints at a stroke; is built of cast and wrought iron with cylinders, valves, stuffing box and piston rod of brass; cut steel gears; equipped with discharge register that automatically tallies every gallon pumped from 0 to 10 gallons; with safety automatic shut-off cock and locking device; requires but 2⅕ turns of the handle to discharge a gallon, giving an actual capacity of 10 gallons per minute. Finished in vermilion enamel with nickel trimmings.

Tank made of galvanized steel, riveted and soldered throughout and coated with three coats rust-resisting paint. Fitted with heavy brass double foot valves, double fill pipes with strainers and cap.

Furnished with each outfit—locks and keys, bolts for fastening pump, measuring stick for tank, two 1½ inch pipe unions and complete instructions for installing. No pipe furnished. Illustration shows pump with meter, filter and two-way nozzle. These extras are not included in price of outfit. Height to top of pump 47 inches.

Outfit with 12 Gauge Tank.

Nos.	Capacity Barrels	Capacity Gallons	Weight Lbs.	Each
A-17512-2	2	120	400	✤$337 50
A-17512-3	3	170	460	✤ 378 00
A-17512-4	4	220	520	✤ 418 50
A-17512-5	5	280	580	✤ 459 00

Outfit with 14 Gauge Tank.

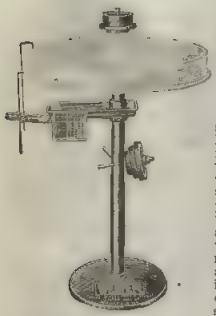
Nos.	Capacity Barrels	Capacity Gallons	Weight Lbs.	Each
A-17514-2	2	120	350	✤$307 80
A-17514-3	3	170	400	✤ 340 20
A-17514-4	4	220	450	✤ 372 60
A-17514-5	5	280	500	✤ 405 00

One in a crate

✤F. O. B. Missouri Factory Only.

GARAGE EQUIPMENT

WEAVER WIRE WHEEL REPAIR STANDS



Heavy iron base; standard is of heavy steel tubing equipped with tool tray conveniently arranged.

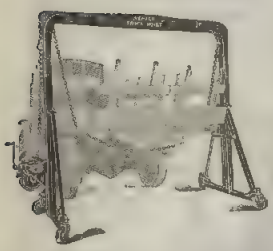
So designed as to permit the wheel to be held securely in position by a cone bearing contact with the machined surface of the interior of the hub. Three accurately machined cones are supplied the proper combinations of which to fit the hubs of all types of wire wheels are supplied by the metal chart attached to tool tray. Two adjustable indicators are provided for the purpose of revealing the slightest variation in the rim. When it is necessary to replace a considerable number of spokes, the proper aligning or trueing of the rim is quite essential and this simple indicator facilitates this work very materially.

Each

No. A-3WW$—Weight each 75 lbs. $90 00

Packed loose.

WEAVER'S HOISTS



Constructed of heavy channel steel, with the arch reinforced on either side by heavy steel plates.

The hoisting mechanism is of the well known worm drive type which not only supplies an enormous leverage for raising the load, but also makes it absolutely impossible for the load to be accidentally released and allowed to fall. There are no ratchets or dogs to break or slip and the load is held securely elevated in any desired position. In addition to the safety feature, this construction has the advantage of allowing the burden to be raised or lowered the minutest fraction of an inch and held firmly in that position as long as desired.

Has a compound leverage giving a lifting leverage of 400 to 1. An auxiliary lever operated directly onto the drum enables the chain to be adjusted to the load very rapidly.

Each

No. A-8TH—Lifting capacity 6000 pounds for double suspension and 4000 pounds for single suspension; width between frame 8 feet 4 inches; minimum height, 8 feet 4 inches; maximum height 10 feet.. ✣$600 00

Shipping weight 900 lbs.

✣F. O. B. Iowa Factory Only.

GARAGE EQUIPMENT

WEAVER'S HOISTS

Constructed of heavy channel steel, with the arch reinforced on either side by heavy steel plates. The hoisting mechanism is operated by worm drive which is absolutely safe and positive. No gears or ratchets to slip or break and allow the load to fall. Can be run into position over a car in a crowded shop without requiring more than 12 to 14 inches space on either side of the car.

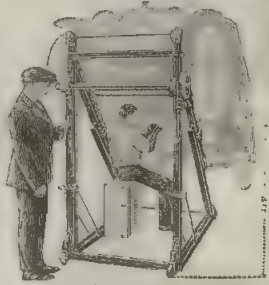
The frame is designed so as to permit the height of the arch to be increased approximately 24 inches; this enables the hoisting of the rear end of a car with the top up, for removing the rear system.

Each

No. A-7AH—Lifting capacity 4000 lbs. for double suspension and 3000 lbs. for single suspension; distance between uprights 6½ feet; minimum height 7½ feet; maximum height 9 ft. 2 in. $360 00

Shipping weight 555 lbs.

KLEMME, PORTABLE HOIST AND CRANE



Constructed of heavy channel steel, and well braced.

With this hoist a motor may be overhauled without taking the motor out of the frame, main and connecting rod bearings can be adjusted just as well with the use of this hoist as by taking the motor out, thus making a saving in time and labor. Tested to a strain of 13,000 lbs., and is guaranteed to lift any size or weight of motor car. Provided with a safety locking device which locks a car at any desired height by simply inserting a stop pin in a hole in the web of the standards.

The crane attachment is included in the outfit, and may be attached or detached in a few seconds, and is a very practical and useful equipment in itself for lifting out motors, transmissions, etc.

Each

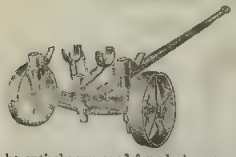
No. A-30KAH—Lifting capacity of hoist, any size automobile to 3 ton trucks; crane 3000 lbs.; width between frame 44 inches; length over all 76 inches; lifting height 48 to 53 inches; extreme height with crane attachment 8 feet ..... ✣$525 00

Shipping weight complete 600 lbs.

✣F. O. B. Illinois Factory Only.

WRECKING TRUCKS

MOSHER



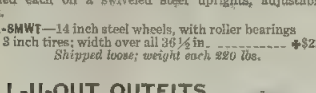
Constructed of high grade steel throughout. The design of the rear support blocks is such that they will fit any axle. The towing pole is of telescopic construction and can be adjusted for use under the longest cars. It can also be entirely removed for placing car on elevator, or other conditions making such removal convenient. The axle shaft is cold rolled steel on long roller bearings. The wheels are free to rotate in the axle, permitting short turns. The front end support a swivel offset yoke, is provided with two heavy chains which may be secured to the springs, to prevent the possibility of side slipping. For rear end breakdowns, two V blocks are provided each on a swiveled steel uprights, adjustable for height.

Each

No. A-8MWT—14 inch steel wheels, with roller bearings and 3 inch tires; width over all 36½ in. ..... ✣$225 00

Shipped loose; weight each 220 lbs.

PULL-U-OUT OUTFITS



(This cut shows Pull-U-Out in operation)

This new mechanical device makes heavy lifting and pulling simple, quick and easy. With it a person, unaided can pull a big touring car out of ditch or hub deep mud, or right the car if overturned. Operates in any position. The stakes form a hitching post that cannot be moved, no matter how great the strain pulling against them, and yet can be jerked out of the ground without effort from other direction.

Each

No. A-1—Equipped with 40 feet of cable, two 7 foot chains and three stakes; lifting capacity 1 ton dead weight; will easily pull heaviest touring car out of trouble; reach, 10 ft. lift or 17½ ft. of pull; weight 28 lbs. ..... ✣$56 25

No. A-2—Equipped with 50 feet of cable, two extra heavy 7 foot chains and three stakes, lifting capacity 3000 pounds dead weight; reach, 12½ ft. lift or 19 ft. pull; for trucks and extra heavy hoisting and pulling, weight each 60 lbs ..... ✣123 75

No. A-2-X—Equipped with 80 feet of cable, two extra heavy 7 foot chains and three stakes; lifting capacity 3000 pounds dead weight; reach, 20 ft. lift or 27 ft. pull; for truck and extra heavy hoisting and pulling; weight each 90 lbs ..... ✣135 00

No. A-2-X8—Equipped same as No. A-2 X, with additional of internal brake for controlling device when lowering extra heavy weight for long distance; weight each 95 lbs ..... ✣146 25

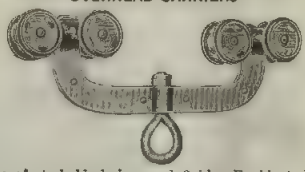
One outfit in a box.

✣Trucks—F. O. B. Illinois Factory Only.

✣Pull-U-Out Outfits F. O. B. Missouri Factory Only.

GARAGE EQUIPMENT

WAGNER OVERHEAD CARRIERS



Made of steel, black japanned finish. Double trolley or eight-wheel carrier especially adapted for heavy articles weighing up to 2000 lbs. Wheels are 3 inches in diameter and equipped with roller bearings. Simple and easy to install; should be in every shop.

Each

No. A-1200—Length over all 21 inches $25 50

Packed loose; weight each 17 lbs

HAWKEYE TRACK

Made of 12 gauge high carbon steel. Can be fastened to ceiling or side walls. Furnished in 4, 6, 8 and 10 foot lengths.

Nos.	A-25-4	A-25-6	A-25-8	A-25-10
Length, ft	4	6	8	10
Weight each, lbs	15	22	30	37½
Per Foot	$2 40			

Packed loose.

BRACKETS

Each

No. A-1H—Wrought steel $2 28

Packed loose; wt. each about 2 lbs.

HOISTS

Wrought steel, painted red. Center pull triple sheave hoists. To be used in connection with above carrier. By using the safety lock or self operating clamp, one man can handle a load weighing up to 700 lbs.

Price does not include trolley or rope.

Each

No. A-60—Capacity 4000 lbs. $17 40

Packed loose; weight each 13 lbs.

WEAVER UNIVERSAL AXLE STANDS

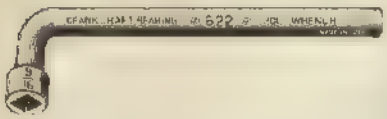
Built to handle any rear axle. Simple and durable. Truss rods do not interfere. Axle may be clamped securely, has clamp for drawing tortion tube. Stand has large tool tray and removable oil pan. Crotches are offset to side and back and are interchangeable. Equipment is portable. Carries a wide, heavy base amply broad to prevent tipping even when supporting the largest axle and makes it unnecessary to anchor the stand to the floor. Two men can easily move stand from one part of the shop to the other.

Each

No. A-2WAS Weight each 180 lbs. $102 00

Crated.

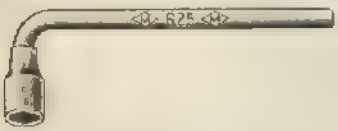
MOSSBERG SPECIAL FORD WRENCHES



No. 622

For crank shaft bearing bolts; heavy forged steel construction; length 10¼ inches; burnished nickel finish

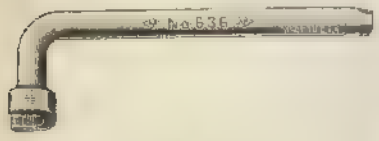
No. 622—Main Bearing Bolt Wrench; wgt. 1½ lbs Each $0 90



No. 625

Fits all ⅜-inch cap screws; indispensable for Ford repair shops; length 7¼ inches; burnished nickel finish.

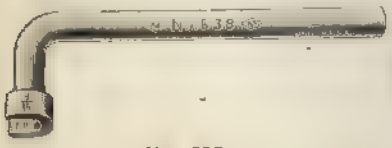
No. 625 — Mossberg Socket Wrench; wgt. ½ lb... Each $0 40



No. 636

For fly wheel cap screw; length over all 11½ inches; burnished nickel finish.

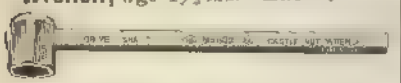
No. 636 — Mossberg Socket Wrench; wgt. 1 lb... .Each $1 10



No. 638

Designed for use on Ford wrist pin and wherever a wrench of this size can be used; length 9¼ inches; burnished nickel finish.

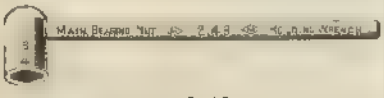
No. 638 – Mossberg Socket Wrench; wgt 1½ lbs. Each $1.10



No. 632

Drive shaft or differential pinion gear castle nut wrench; length 10¾ inches; burnished nickel finish

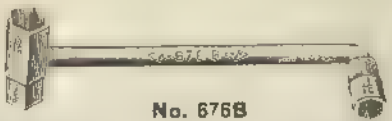
No. 632 — Mossberg Socket Wrench; wgt. 1¼ lbs Each $0 80



No. 2149

Designed for use to hold nuts when making adjustments of main bearing bolts; length 10 inches; burnished nickel finish

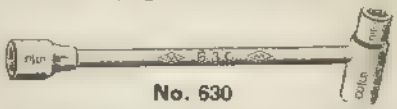
No. 2149 Mossberg Socket Wrench; wgt. 1 lb... Each $0 48



No. 676B

Triple socket wrench; socket sizes ⅜, ⅞ and 15/16-inch; length 10¾ inches; burnished nickel finish.

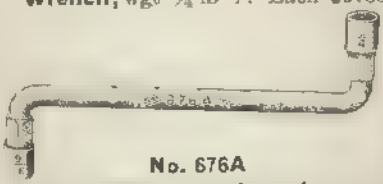
No. 676B – Mossberg Socket Wrench; wgt. 1½ lbs Each $1 3



No. 630

Especially designed for all cylinder head cap screws and rear axle housing bolts; socket sizes ½ and 5/8-inch openings; length 9¾ inches; burnished nickel finish.

No. 630 — Mossberg Socket Wrench; wgt ¾ lb .. Each $0.65

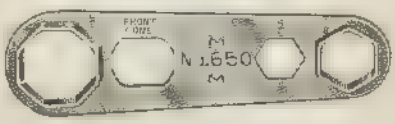


No. 676A

Double socket wrench; socket sizes ½ and ¾-inch. Length 9¾ inches. Burnished nickel finish

No. 676A — Mossberg Socket Wrench; wgt 1¼ lbs...Each $0 75

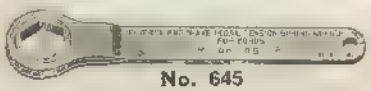
HUB CAPWRENCH



No. 650

Heavy steel construction; length 8½ inches; burnished nickel finish.

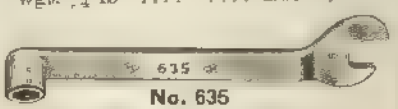
No. 650 Hub Cap Wrench; wgt ½ lb..... Each $0 18



No. 645

Ratchet tension spring wrench for reverse and brake pedal; heavy steel with properly hardened ratchet and spring; length 6⅛ inches; burnished nickel finish.

No. 645—Reverse and Brake Pedal Tension Spring Wrench; wgt. ¼ lb ..... Each $0 50



No. 635

Cylinder head screw and spark plug wrench; ⅝ and ¾-inch openings; Heavy steel construction, burnished nickel finish, length 10 inches

No. 635 Mossberg Socket Wrench; wgt. ⅞ lb Each $0 85

CONNECTING ROD WRENCH

No. 623

Fits fourth connecting rod bolts and units without dismounting motor; length 10¼ inches; burnished nickel finish.

No. 623 — Connecting Rod Wrench; wgt. 1 lb... Each $0.45

FORD SPECIAL SPEED WRENCHES

Of standard size, length, sweep and clearance for use on Ford cars.

No. 611 Ford Special Speed Wrenches; socket size ⅜-inch; length 19¼ inches; burnished nickel finish; wgt 2 lbs .Each $0 80

No. 612—Ford Special Speed Wrenches; socket size ⅝-inch; length 19¼ inches; burnished nickel finish; wgt. 2 lbs. Each .80

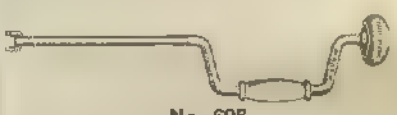
No. 613—Ford Special Speed Wrenches; socket size ½-inch; length 14¼ inches; burnished nickel finish; wgt. 1½ lbs. Each 75

VALVE GRINDERS

No. 607

Short type; fits all valves; wood swivel top and grip; rocker points; length 4¾ inches; burnished nickel finish; weight ¼ lb.

No. 607—Valve Grinder .Each $0 50



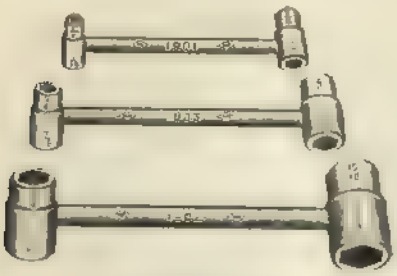
No. 608

Long shank brace type; top and center swivel grip handles; rocker points; length 21 inches; burnished nickel finish; weight 1½ lbs.

No. 608 -Valve Grinders Each $0 80

MOSSBERG WRENCH SETS

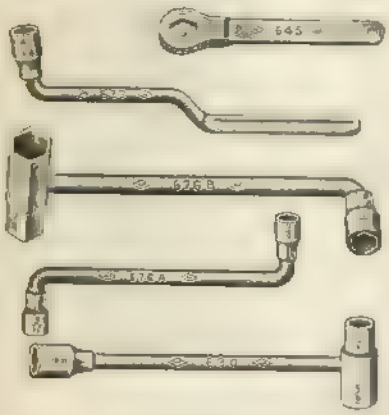
SOCKET WRENCH SETS



No. 1900

Consists of three wrenches with 12 socket sizes; special steel bar with drawn cold steel sockets; burnished nickel finish
No. 1901 wrench has 4 hexagon sockets, sizes ⅛, ½, [illegible]
No. 1902 wrench has 4 hexagon sockets, sizes [illegible], 1,
No. 1903 wrench has 4 square sockets, sizes [illegible]
No. 1900—Socket Wrench Sets; wgt. 4½ lbs. Each $3 75

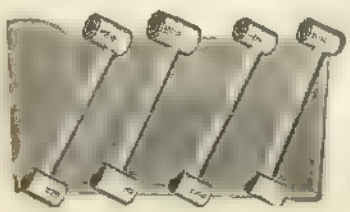
WRENCH SET FOR FORD



No. 676

Consists of 5 wrenches made up of individual wrenches described in detail on previous page; have total of 10 socket openings
No. 676—Wrench Set for Ford; wgt. 4¾ lbs Each $3 60

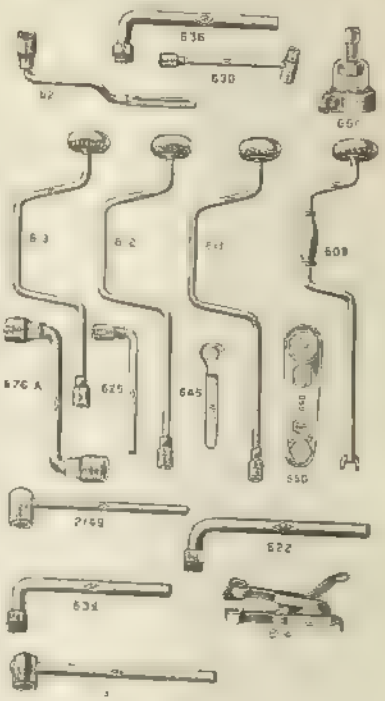
HEAVY DUTY REPAIR SET



No 17

Consists of 4 wrenches and 8 socket sizes; made of special heavy steel; burnished nickel finish.
No. 17—Heavy Duty Repair Set; length each wrench 9½ inches; packed in canvas kit; weight 4⅛ lbs. Each $3 75

GARAGE WRENCH SET FOR FORD



No. 670

A complete set of tools necessary in every Ford garage contains one each of the following:

No. 611 Speeder, 9/16 inch opening.
No. 612 Speeder, ⅝ inch opening.
No. 613 Short speeder.
No. 2149 Offset socket wrench, ¾ inch opening.
No. 608 Long valve grinder
No. 636 Fly wheel cap screw wrench.
No. 638 Wrist pin wrench
No 632 Differential pinion gear wrench
No. 630 Triple end cylinder head screw and rear axle housing nut wrench.
No 623 Connecting rod wrench.
No. 645 Reverse and brake pedal wrench.
No. 625 Offset socket wrench, 9/16 inch opening.
No. 660 Wheel puller.
No. 622 Crank shaft bearing bolt wrench.
No 650 Hub cap wrench.
No. 654 Valve lifter.
No. 676A Double end socket wrench, 9/16 and ¾ inch openings.

No. 670—Garage Wrench Set for Ford; burnished nickel finish; weight 30 pounds.. ....Each $13.00

MOSSBERG SOCKET WRENCHES

INTERCHANGEABLE SOCKETS

Drawn by pressure from cold rolled steel mottled and lacquered finish; height 1¾ inches, each socket marked to exact opening of sockets

HEXAGON

Nos	Socket Opening Inches	U S Standard Nuts and Bolts	S A E Standard Screws	Hex. Head Cap Screws
110				
111				
112				
113				
114				
116				
116				
117				
118				
119				
120				
121				
122				
123				
124				
125				
126				
127				
128				
129				
130				
131				
132				
133				
135				
137				
141				

SQUARE

Nos	Socket Opening Inches	U S Standard Nuts and Bolts	Sq Head Set Screws	Sq Head Cap Screws
163				
165				
167				
169				
171				
173				
175				
179				
183				
187				
191				

Interchangeable Sockets (Sq. or Hex.). Each $0 17

UNIVERSAL JOINT

Enables adjustments to be made otherwise impossible to reach; burnished nickel finish.

No. 336—Universal Joint . . . . . Each $0 65

EXTENSION BAR

Steel tube construction; essential to reach out of way places and to employ universal joints; length 9½ inches; burnished nickel finish

No. 351 Extension Bar . . . . . Each $0 55

BRACE RIM WRENCHES

Special steel sockets; solid steel handle; length overall 14 inches; 5¼-inch sweep; burnished nickel finish; weight each 1¾ pounds.

Nos.	361	362	363	364	365
Size, Ins.	⅝	11/16	¾	13/16	⅞
Each	$1 10	1.10	1.10	1.10	1.10

REVERSIBLE RATCHET HANDLES

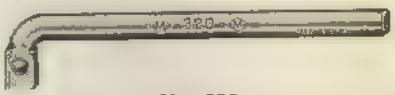
No. 350

For use with interchangeable sockets; heavy steel construction; length overall 10 inches; buffed nickel finish

No. 350—Reversible Ratchet Handles; weight 1 pound . . . . . Each $2 75

No. 355—Ratchet Handles; does not have reverse feature; weight ¾ pound . . . . . Each $1 35

OFFSET SOCKET WRENCH HANDLES



No. 320

Solid steel bar; length overall 10 inches; burnished nickel finish; weight each ¾ pound

No. 320—Offset Socket Wrench Handle . . . . . Each $0 33

SPEED HANDLE FOR INTERCHANGEABLE SOCKETS

No. 359

Solid steel bar construction; length overall 18¾ inches, burnished nickel finish; weight each 1½ pounds.

No. 359—Speed Handle for Interchangeable Sockets . . . . . Each $0.78

TEE HANDLE FOR INTERCHANGEABLE SOCKETS

Solid steel bar construction; length overall 11 inches; 7½-handle; burnished nickel finish.

No. 331—Tee Handle for Interchangeable Sockets; wgt. 1½ lbs. . Each $0 56

MOSSBERG WRENCH SETS

MOSSBERG WRENCH BOARDS

Contains 4 styles of wrenches, viz.

Long Tee Handle
Offset Handle
Short Tee Handle
Speeder Type Handle

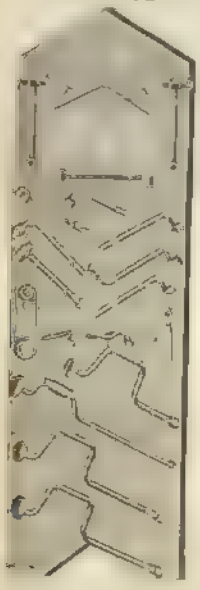
Six wrenches of each size and style, in sizes of ½, 9/16 and ⅝ inch socket sizes.

Board is an attractive selling medium, is 20x30 inches in size, made of 1 inch selected chestnut highly finished.

No. 2500—Mossberg Wrench Board; size of board 20x30 inches; complete with 72 wrenches as illustrated and described above; wgt. 113 lbs ..... Each $44 00

MOSSBERG WRENCH BOARDS

Contains 78 wrenches of 17 different types; all bar type wrenches of ½-inch steel, crowfoot type are forged from solid steel; burnished nickel finish. Board is 20 inches wide by 60 inches long, made of 1 inch selected chestnut highly finished



Quantity	No.	Contains Openings
8	645	Special
5	625	⅝
6	623	
6	630	
1	676A	
4	622	
3	676B	
4	635	
1	632	
4	636	
5	638	
6	650	
1	624	
4	613	
4	608	Valve Grinder
6	612	
3	612	

No. 600B—Mossberg Wrench Boards; complete with board and 78 wrenches as illustrated and described above; wgt. 120 lbs... Each $62 00

No. 14 SOCKET WRENCH SETS

Recommended for all cases where quick work is desired, every tool is included that is required for work by machinists, automobile repair men and marine engineers; contains the following:

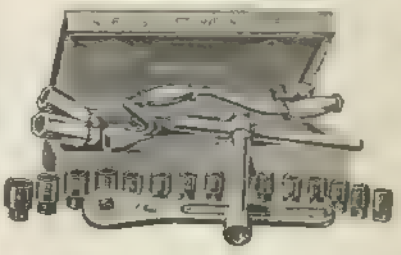
1 No. 350 Ratchet Handle
1—No. 330 Tee Handle
1—No. 351 Extension Bar
1—No. 77 Pliers
1—Set (5) Open End Wrenches
1—No. 336 Universal Joint
1—No. 101 Offset Screw Driver
1—No. 3 Pin Puller

Twenty-three sizes hexagon sockets: 5/16, ⅜, 7/16, ½, 9/16, ⅝, 11/16, ¾, 13/16, ⅞, 15/16, 1, 1 1/32, 1 1/16, 1 1/32 and 1 1/8-inch

Eleven sizes, square sockets: 15/32, 17/32, 19/32, 21/32, 23/32, 25/32, 29/32, 1 1/32, 1 5/32, 1 3/32-inch.

No. 14—Socket Wrench Set; complete; packed in wooden box; weight 17½ pounds ..... Each $16 00

No. 60 SOCKET WRENCH SETS



Contains the following

1 No. 356 Ratchet Handle
1—No. 351 Tee Handle
1 No. 354 Brace Handle
1—No 339 Universal Joint

Two Spark Plug Sockets; 29/32, 1 5/32 inch.

Ten sizes hexagon sockets; 7/16, ½, 9/16, 19/32, ⅝, 11/16, ¾, 25/32, 13/16, ⅞ inches.

Five sizes square sockets; 9/16, 7/16, ½, 9/16, ⅝ inch.

No. 60—Socket Wrench Sets; complete; packed in wooden box; wgt. 13¼ lbs. ..... Each $14 50

NO. 30 SOCKET WRENCH SETS

Contains the following:

1 No. 355 Ratchet Handle
1 —No. 351 Extension
1 —No. 336 Universal Joint
1 —No. 101 Offset Screw Driver.

Eight sizes hexagon sockets: 7/16, ½, 9/16, ⅝, 11/16, ¾, ⅞, 15/16 inch.

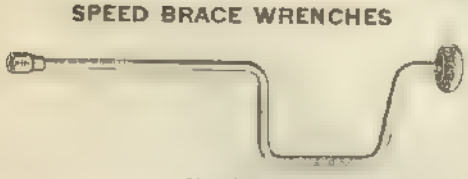
One size square sockets, ⅝ inch

One size spark plug socket, 31/32 inch

No. 30—Socket Wrench Sets; complete; packed in wooden box; wgt. 13 lbs. ..... Each $5 50

MOSSBERG SOCKET WRENCHES

SPEED BRACE WRENCHES



No. 2400

Long shank brace socket wrenches; for spinning off nuts when assembling and dismantling cars; length overall 19¼ inches; burnished nickel finish; weight each 2 pounds.

Nos.	2429	2433	2437	2439	2441
Size, Ins	7/16	1/2	9/16	19/32	5/8
Each	$0 80	.80	80	.80	.80
Nos.	2445	2449	2451	2453	2457
Size, Ins	11/16	3/4	25/32	13/16	7/8
Each	$0 80	.80	80	.80	.80

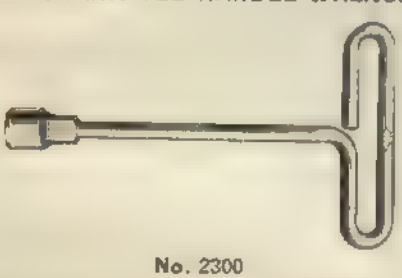
SHORT SHANK TEE HANDLE WRENCHES

No. 2200

Special steel sockets; wire handles of proper size and very strong; length overall 7½ inches; burnished nickel finish; weight each 1½ pounds.

Nos.	2229	2233	2237	2239	2241
Size, Ins	7/16	1/2	9/16	19/32	5/8
Each	$0 56	.56	.56	.56	.56
Nos.	2245	2249	2251	2253	2257
Size, Ins	11/16	3/4	25/32	13/16	7/8
Each	$0 56	.56	.56	.56	.56

LONG SHANK TEE HANDLE WRENCHES



No. 2300

Special steel sockets; wire handle construction sockets so fastened they will not turn or loosen.

Nos.	2329	2333	2337	2339	2341
Size, Ins	7/16	1/2	9/16	19/32	5/8
Each	$0.60	.60	.60	.60	.60
Nos.	2345	2349	2351	2353	2357
Size, Ins	11/16	3/4	25/32	13/16	7/8
Each	$0.60	.60	.60	.60	.60

OFFSET SOCKET WRENCHES

No. 2100

Solid steel handles; special steel sockets; length overall 10 inches; burnished nickel finish; weight each 1 pound

Nos.	2129	2133	2137	2139	2141
Size, Ins	7/16	1/2	9/16	19/32	5/8
Each	$0 48	.48	.48	48	.48
Nos.	2145	2149	2151	2153	2157
Size, Ins	11/16	3/4	25/32	13/16	7/8
Each	$0 48	.48	.48	.48	.48

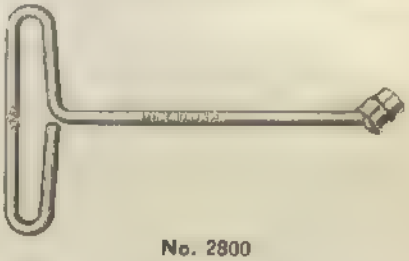
SWIVEL JOINT SPEED WRENCHES

No. 2900

Swivel joint permits reaching nuts otherwise inaccessible; solid steel handle; special steel sockets; burnished nickel finish; length overall 19¼ inches; weight each 2 pounds.

Nos.	2920	2933	2937	2939	2941
Size, Ins	7/16	1/2	9/16	19/32	5/8
Each	$2.00	2 00	2.00	2.00	2 00
Nos.	2945	2949	2951	2953	2957
Size, Ins	11/16	3/4	25/32	13/16	7/8
Each	$2 00	2.00	2 00	2.00	2 00

SWIVEL JOINT TEE HANDLE WRENCHES



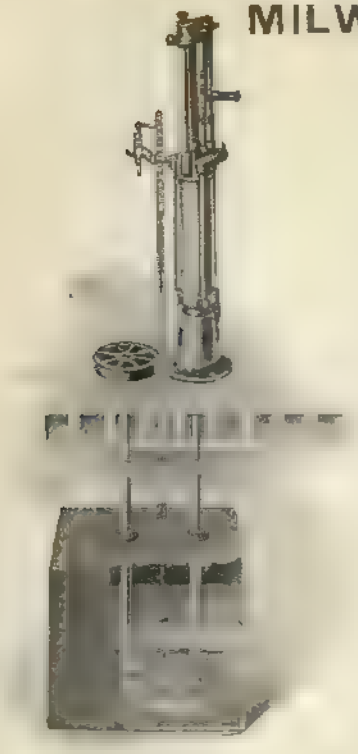
No. 2800

Swivel joint permits reaching nuts otherwise inaccessible; solid steel handle; special steel sockets; burnished nickel finish; length overall 12 inches; weight each 1¾ pounds.

Nos.	2829	2833	2873	2839	2841
Size, Ins	7/16	1/2	9/16	19/32	5/8
Each	$1.50	1.50	1.50	1 50	1.50
Nos.	2845	2849	2851	2853	2857
Size, Ins	11/16	3/4	25/32	13/16	7/8
Each	$1.50	1.50	1.50	1.50	1.50

Open stock. First class freight

MILWAUKEE PUMPS



TYPE 23

Self-Measuring Cellar Outfit

Provides an efficient method for the storage and handling of kerosene and lubricating oil for stores and other retailers. It is especially commendable because the liquid can be stored in the basement while the pump is placed on the floor where the liquid is sold, thus economizing floor space.

The pump having adjustable stops for gallons, half-gallons and quarts, and being fitted with non-drip faucet, discharge register counting to 10, drip pan, grate and lock and key, the outfit works remarkably easy, measures with extreme accuracy, and is as essential to those retailing kerosene and lubricating oil, as a scale is for weighing solid merchandise.

Type 23 is not sold without tank. If a pump only is desired, see Type 33

60 gals.	Each	$106 00
120 gals.	Each	123 00
180 gals.	Each	139 00
280 gals.	Each	173 00
550 gals.	Each	270 00

TYPES 18 and 19

Battery Storage Systems

This battery of separate tanks forms an L. P. system for the storage and handling of number of different kinds of non-explosive liquids. All the dimensions of the tanks are the same, with the exception of the width, which varies according to the capacity.

Pumps are especially adapted to the liquids they are ordered for. Are of the Milwaukee standard self-measuring design Type 18 has gallon pump with adjustable stops for half-gallons and quarts. Type 19 pumps quarts, pints and half-pints.

Tanks are constructed of heavy steel, closely riveted, hard soldered, and finished on the inside by the well-known Milwaukee "Kant-Leek" process. An 18-inch manhole (on all tanks over 60 gallons capacity) affords easy access for cleaning or inspection. Are also equipped with an 8-inch fill opening with quick opening cover and drip basin, with grate, plug and removable strainer. Barrel tracks are included without extra charge.

TYPE 18

60 gals.	Each	$ 96 00
120 gals.	Each	113 00
180 gals.	Each	127 00
280 gals.	Each	173 00
Gallon Recording Meter, extra	Each	22.00

Accessories Same as Type 19

TYPE 19

60 gals.	Each	$ 79.00
120 gals.	Each	96 00
180 gals.	Each	111 00
280 gals.	Each	145 00
Pat. Bung Stop	Each	5 00
Chain Hoist	Each	38 00
Barrel Cradle	Each	8 00
Quart Recording Meter, extra	Each	18 00

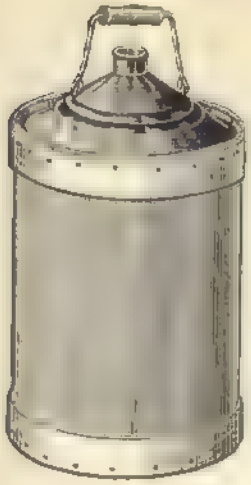
"KANT-LEEK" UNDERGROUND STORAGE TANKS

Each has the Underwriters' Label. Built of heavy galvanized steel, and nationally known for durability and service; each has a measuring gauge, a fill pipe fitted with inner tube and strainer, lock, brass cap with vent valve, also interior suction pipe.

If pumps are ordered without tanks, a foot valve is required in the tank to hold the liquid up in the pipe line. Where tanks are ordered complete with pumps, this set of double foot valves is included without extra charge.

Bbls.	Gallons	Each	Dimensions
2	120	$ 59 00	30x42
5	289	100 00	42x48
10	500	160 00	42x96
15	820	220 00	42x142
20	1000	280 00	56x96
1½-inch Foot Valves		12 00	
2-inch Foot Valves (for 5-Gal. Pumps)		14 00	
Sidewalk Fill Box		7 00	

WOOD JACKET OIL CANS



Tin, with Wood Jacket and Red Hoops

Heavy tin body with cone top, wire bail and wood grip.

Can is thoroughly protected for shipping by substantial wood jacket strongly banded.

Gallons	1	2	3	5	10
Diam., inches	7	8	11	11	13
Height, inches	11	12	13	19	23
Pounds each	2	3	4	5	9
In crate	12	12	12	6	6
Each	$0.40	.55	.70	.85	1.50

OIL SUPPLY CANS

For Carrying Oil

Made of heavy sheet steel brazed with hard brass spelter solder so that oil and grease contents can be melted over a hot fire without danger of injuring the can or causing a leak. Equipped with a screw top, bail and side handle.

Nos.	61	62	64
Gal.	2	3	5
Pounds, each	3	4	6
Each	$3.25	3.75	5.00

OILY WASTE CANS

Walters

Made according to specifications of the National Board of Fire Underwriters

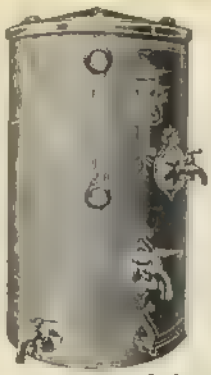
Sheet steel construction with seams brazed with hard brass spelter solder which will not melt at a welding heat.

Waste can burn in this can without melting solder or opening seams

Thoroughly fireproof and a reliable floor protection.

Nos.	1	2
Diameter, inches	12	16
Height, inches	13½	18
Capacity, gallons	7½	15½
Weight each, pounds	10	14
Each	$5.25	7.00

CROSS OIL FILTERS



The Cross is designed for filtering engine and common machinery oils.

Very little steam (exhaust) is required and if the filter is kept in a warm place it will not be necessary to make steam connections.

The only object of using heat is to increase the speed and capacity of the filter

The Cross Style A is recommended for use where lubricating oil is used in very large quantities, and in the interest of economy it is desirable to make pipe connections by means of gate valves so that the filtered oil can be pumped to any part of the plant desired. It is also adapted for use with oiling systems. Both styles are made in various sizes to meet all requirements

Cross Filters

Nos.	1	2	3	4
Filtering capacity per 24 hours, gallons	20 to 30	5 to 10	40 to 50	60 to 70
Weight each, pounds	36	22	72	163
Each	$37.00	25.00	75.00	90.00
Nos.	**5**	**6**	**7**	**8**
Filtering capacity per 24 hours, gallons	70 to 90	100 to 120	120 to 150	150 to 200
Weight each, pounds	196	220	250	350
Each	$110.00	130.00	160.00	190.00

Style A Cross Filters

Adapted for use with oiling systems

Nos.	1A	3A	4A	5A
Filtering capacity per 24 hours, gallons	20 to 30	40 to 50	60 to 70	70 to 90
Weight each, pounds	63	100	163	196
Each	$45.00	80.00	100.00	120.00
Nos.	**6A**	**7A**	**8A**	
Filtering capacity per 24 hours, gallons	100 to 120	120 to 150	150 to 200	
Weight each, pounds	220	250	350	
Each	$135.00	165.00	200.00	

NOTE. The capacity of a filter depends upon the heaviness of the oil to be filtered

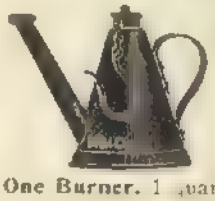
TALLOW POTS OR OIL FILLERS

Walters

Heavy sheet steel brazed with hard brass spelter solder so that tallow or oil can be melted safely.

Nos.	47	49
Quarts	2	4
Lb., each	1½	2
Per dozen	$22.50	27.00

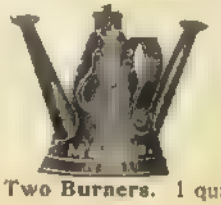
TORCH LAMPS



One Burner

Pyramid shape with screw top. Heavy sheet steel brazed with hard brass spelter solder which will not melt at a welding heat.

One Burner. 1 quart, weight per dozen 15 pounds . . . . . per dozen, **$10.50**



Two Burners

Pyramid shape with screw top. Heavy sheet steel brazed with hard brass spelter solder which will not melt at a welding heat.

Two Burners. 1 quart, weight per dozen 16 pounds . . . . . per dozen, **$11.50**

OILERS

MAMMOTH RAILROAD

Made of best quality heavy sheet steel, brazed with hard brass spelter solder and cannot be broken, bruised or melted

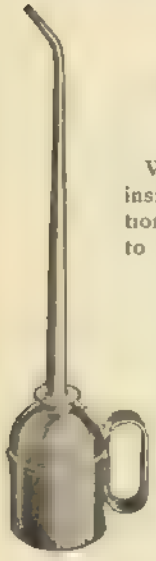
The filler opening is 1¼ inches in diameter, allowing quick filling, and the spout is ¼ inch in diameter, allowing ample discharge

These oilers are especially suitable for oiling pit cars.

No.	39
Capacity, quarts	4
Weight per dozen, pounds	32
Per dozen	$36.00

STEEL RAILROAD

Seamless Steel Drawn Body



Wide mouth, bent spout, heavily copper plated inside and outside. Spouts have a union connection where spout joins body of oiler, enabling it to be placed in any position for delivering oil.

Nos.	10	11
Capacity	1 pint	1 quart
Diameter of body, inches	3⅜	4⅛
Height of body, inches	5	6
Length of spout, inches	12	18
Weight per dozen, pounds	9½	13½
Dozen in a box	1	½
Per dozen	$14.00	18.00

CHACE PATTERN

Zinc plated steel body, made seamless, with screw formed to receive the spout.

The bottom is double seamed to the body.

Straight spouts only are furnished for all sizes

Nos.	0	1	2	3	4	5
Capacity, ounces	1¼	2	4	6½	8½	11
Diameter of body, inches	2⅜	2⅝	3⅛	3¼	4⅛	4½
Height of body, inches	1⅝	2⅛	2¾	2⅞	3¾	3⅝
Length of spout, inches	1½	3	4	4	5	5
Weight per dozen, pounds	⅜	1	1¼	1½	2¼	3
Dozen in a box	1	½	½	½	½	½
Per dozen	$1.25	1.50	2.00	2.25	2.75	3.50

OILERS

SEWING MACHINE

For any kind of small machines or other mechanical appliances in the household.

Cup spout prevents oil soiling the outside of can

No.	1370
Bottom	1⅛
Spout	1½
Weight per dozen pounds	1½
Per dozen	$1.25

One dozen in a box

FLEXO STEEL

Cold rolled steel body, with clock spring steel bottom and flexible steel tubing spout

The spout is built upon a base of asbestos, no rubber being used at all.

A patent spout cleaning device is operated by simply pressing down on the spout.

The filler opening is large for ready filling.

The flexible spout, 7 inches long, permits its use in many awkward places

No.	13F	14F	15F
Capacity, pints	⅓	½	1
Bottom diameter, inches	3⅛	3¾	4¼
Weight per dozen, pounds	3½	4½	5¾
Per dozen	$9.80	10.80	13.40

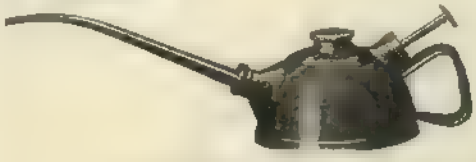
One dozen in a box

COPPER PLATED STEEL

Twenty gauge cold rolled steel bodies, copper plated inside and out, with clock spring steel bottoms. Large filler openings and interchangeable spouts

Nos.	13	13A	14A	14AA	15A	16
Capacity, pts.	⅓	⅓	½	½	1	1
Bottom, in.	3⅛	3⅛	3¾	3¾	4¼	4¼
Spout inches	3	5	3	5	5	9
Weight per dozen, lb.	3½	3¾	4½	4¾	5⅝	6
Per dozen	$5.50	6.00	7.50	8.00	9.75	10.50

One dozen in a box



AUTOMOBILE PUMP OILERS

Twenty gauge cold rolled steel bodies, heavily electro copper plated. Absolutely positive acting, powerful pump having two valves working automatically, delivering oil to the bearings, one drop or a spoonful at one stroke of the plunger, depending upon the distance of the stroke.

Nos.	800	801	804
Capacity, pints	½	½	1
Bottom, inches	3¾	3¾	4¼
Spout, inches	3	5	9
Weight per dozen, pounds	7¾	8	9½
Per dozen	$23.00	23.50	25.75

One dozen in a box

STIMULATORS

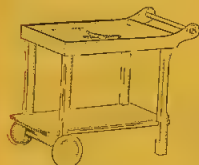
3 PIECE TAK-A PART TABLE AND CHAIR SET

This toy set has been making fine sales this season

F714 Mahogany finish table 19 in. top, 17 in. high. Chairs 23 in. high, seat 10x9½ in. Held together with nuts and bolts. 3 sets in carton. Each set 5½ lbs. **$3.25**

JUVENILE WHITE ENAMELED TEA WAGON

A prominent display of this wagon will attract much attention from your Holiday shoppers.



F743 18½x12½ in. 3 shelves, beaded edges, wood handle 19½ in. long, steel wheels, tea shelf with 3 in. iron and juvenile design each corner. Wt. 6 lbs. 2 in pkg. Total 8½ lbs. Each. **$1.85**

GENUINE REED DOLL CARRIAGE

Manufactured at one of America's best factories and note that it has all the features of practical baby carriages.

F343—Ht. 28 in. body 20x7 in., round hair reed natural finish, imitation corduroy tufted seat, sides and back, adjustable lined hood, 8 in. double spoke rubber tire wheels, reclining back, hub caps. 1 in carton 38 lbs. Each. **$8.50**

White Enameled Doll Chairs

If you display these prominently with your doll line you'll have mighty satisfactory sales

F709 3 styles, chair, rocker and high chair spindle back, seats 6½x6½ in., height of chair and rocker 22 in. High chair 36 in. 3 doz. in crate. 38 lbs. (Total $4.30) Doz. **$1.60**

"Popular" 10 In. Imported Dressed Doll Assortment

Imported dolls are getting mighty scarce but here is an assortment that we are able to offer as a big Holiday special.

F6033—3 styles, 10 in., turning bisque heads, painted features, moving glass eyes, blonde tresses and brunette curly mohair wigs, jointed shoulders and hips, assd. color taffeta dresses, Russian model with bolero, underwear, socks, hats, white footwear. 1 doz. in box. Assd. 5½ lbs. in pkg. Doz. **$2.65**

CHRISTMAS PRICE TICKETS GIVE HOLIDAY TOUCH TO STAPLE MERCHANDISE

Put the Christmas atmosphere in your windows and throughout your store by using these attractive suggestion cards. Space on each card for item and price.

These cards are printed in red and green, size 5½x7 in. Two designs. Per doz. 25c

Y5013—Santa Claus design

Y5014—Candle design . . . **30c**

SHEEP HEAD METAL BODY DRUMS

Here's the toy that the boys are looking for, and at a money-saving price.

F776—2 sizes, 6 and 8½ in., imitation nsh, metal body, fiber head and bottom, gilt striped, black wood hoops, leather ears, red white, blue cloth bell and stars. ½ doz. in crate. 15 lbs. Doz. **$7.75**

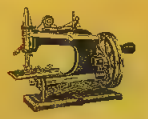
"POPULAR" 8 IN. IMPORTED DRESSED DOLL ASSORTMENT

Imported dolls are becoming mighty scarce and here's a special you'll not want to miss.

F6036—3 styles, 8 in. turning bisque heads, painted features, glass eyes, blonde tresses and brunette curly mohair wigs, jointed shoulders and hips, assd. color taffeta dresses, underwear, socks and shoes, assd. pink and blue check and tan brown dresses, and white linene aadership pink silk net dresses, underwear, socks, shoes and stockings, each in box. 1 doz. in box. Assd. 4 lbs. in pkg. Doz. **$3.60**

BABY GRAND SEWING MACHINE

A toy sewing machine that really sews



F4602 Size 5½x5½x3 in., black enameled base and frame, polished nickel wheel and stitch plate, spring actuated lever for lifting foot, steel gears, hole stationary to stitch clamp to table. Complete with instructions. 1 in box. Each. **$2.75**

Advertise Christmas merchandise with Christmas Block System Circulars. Send for our 1922 Christmas Block System Supplement.

STIMULATORS

IMPORTED TOY SCALES

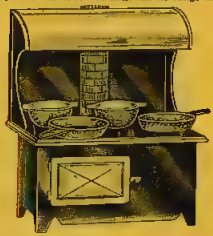
Each with indicator. They're mighty fine values at 10 and 15 cents

F8827—Two 2¾ in. metal trays and balance on 4½ in. black enameled metal base, each in box. 1 doz. in pkg.
Doz. **40c** Gro. **$4.50**

F8828—Two 2½ in. metal trays and balance on 6½ in. polish finish wood base with drawer each in box. 1 doz. in pkg.
Doz. **80c** Gro. **$9.00**

Toy Steel Range

The price you can name on this large size toy range will get you the business



F2839—8x9x14 in., nickel plated hood and oven door, sauce pot, large fry pan, 2 kettles with covers. ¼ doz. in box.
Doz. **$3.78**

COMPOSITION BODY IMPORTED SANTA CLAUS FIGURES

The prices you can name will attract many sales.

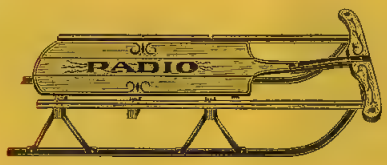
Composition body painted features, bright snow covered robe, frost covered black base, each carrying miniature Xmas tree. 1 doz. in box.

F8960—7 in. nested colors. Doz. **$0.72**

F8961—9 in. red coat. " **1.50**

36 IN. "RADIO" STEERING SLED

Another special sled to convince you that we are the country's largest distributors of this merchandise. Spring steel runners and selected ash tops, steering lever and side rails.



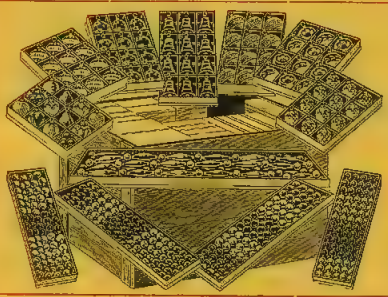
F477—36x12x6. 2 red painted steel knees and spring steel runners, selected ash tops, varnished natural finish, black stenciling "RADIO" with red electric flashes. ½ doz. in bd. 17 lbs.
Doz. **$12.00**

IMPROVED SWINGING HORSES

Well painted, curved legs, long hair manes and tails, swing on iron rods, red painted and striped stands.

F416—Ht. 25 in., 5 in. black, leatherette bridle. 1 in crate, 15 lbs.
Each **$4.25**

F421—Ht. 28 in., 5½ in. black, leather bridle and martingale, cordoned saddle. 1 in crate, 18 lbs.
Each **4.75**



Blown Glass Tree Ornament Assortment

Direct importation in original package from abroad. Our expert selection of the best sellers in our ornament line. Many of the sizes in each price range can be sold for more than our suggested selling prices, average cost 22½c doz. A knockout assortment for syndicate store competition.

F5800—Asstd. colors, shapes and sizes, each box marked showing price range. Case contains,
45 doz. (sizes 1⅝ to 2 in.) to retail at 30c doz. or 3 for 5c.
25 doz. (sizes 2⅛ to 2¾ in.) to retail at 60c doz. or 3c each.
10 doz. (sizes aver. 3½ in.) to retail at $1.20 doz. or 10c each.

$18.00

Total 80 doz. in asst. ASST. (80 doz.)

Total retail value, $40.50 Your profit, $22.50

USE CHRISTMAS PRICE TICKETS

Put the Christmas atmosphere in your windows and throughout your store by using these attractive suggestion cards. Space on each card for item and price.

These cards are printed in red and green, size 5½x7 in. Two designs.

V5013—Santa Claus design.
V5014—Candle design.

Pkg. of 25 **30c**

OAR LOCKS

Socket, malleable iron.

PLAIN

Nos.	11	11½
Opening, in.	2	2½
Center, in.	2½	3
W't per doz. prs., lbs.	17	19
Per dozen pairs	$6.90	7.70

GALVANIZED

Nos.	0	1	1½
Opening, in.	1½	2	2½
Center, in.	2½	2½	3
W't, doz. prs., lbs.	12	17	19
Per dozen pairs	$5.80	8.20	9.10

No. 7.

No. 8.

Galvanized, malleable iron.

No. 7—North River, with plate and pin, 2 in. opening, w't per doz. prs. 17 lbs. .....per dozen pairs $8.20

No. 8—Round socket, with plate, 2½ in. hole, w't per doz. prs. 17 lbs., per dozen pairs $8.20

No. 21.

Nos. 40 and 41.

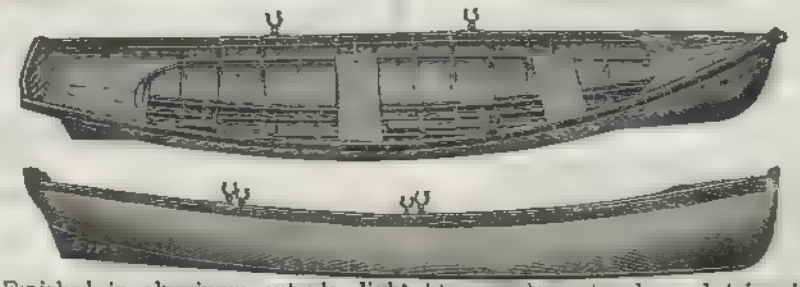
Malleable Iron.

No. 21—Moline, plain, with side plate, 1½ in. opening, 2½ in. center, w't per doz. prs. 30 lbs., per dozen pairs $12.20

H.S.B. & CO.
REV-O-NOC

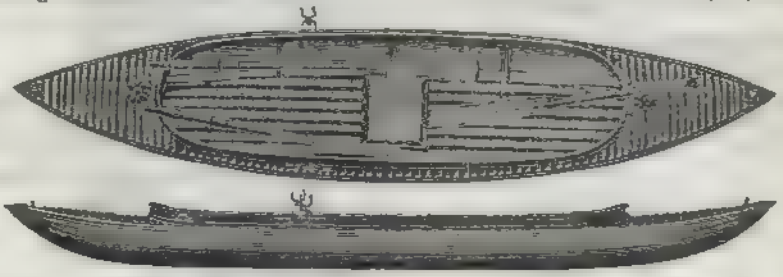
We Stand Behind the Brand.

MULLIN'S STEEL BOATS



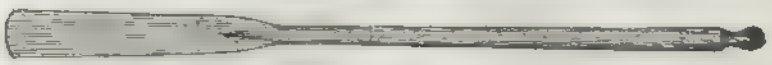
Finished in aluminum outside, light blue inside, natural wood trimmings, large air chambers under decks like a life boat.

No. F316—"Sultan," length 16 ft., beam 50 in., height bow 25 in., stern 23½ in., amidships 15 in., w't about 225 lbs., crated 260 lbs., with one pair 7½ ft. straight feathered ash oars★ .....each $202.00



No. F27—"Get There" length 14 ft., beam 46 in., 12 in. high to top of coaming at ends, 10 in. high amidships, cock pit 9 ft. long, 30 in. wide regular fittings and air chambers on sides, w't each 120 lbs., packed for shipment 140 lbs. each★ $165.00

PLAIN OARS



White ash, selected straight grain, reinforced blade.

TT55—Full bundle five pairs.

Length, ft.	6	6½	7	7½	8
Per pair	$3.60	3.90	4.20	4.50	4.80

No. T55—Less than bundle.

Length, ft.	6	6½	7	7½	8
Per pair	$3.60	3.90	4.20	4.50	4.80

COPPER TIPPED OARS

WHITE ASH, SELECTED STRAIGHT GRAIN, REINFORCED BLADE

No. TT75—Full bundle five pairs.

Length, ft.	6	6½	7	7½	8
Per pair	$4 20	4 55	4 90	5 25	5.60

No. T75—Less than bundle,

Length, ft.	6	6½	7	7½	8
Per pair	$4 20	4 55	4 90	5 25	5.60

SPRUCE, SELECTED STOCK, STRAIGHT BLADE

No. TT89—Full bundle five pairs.

Length, ft.	6½	7	7½
Per pair	$7.50	8.10	8.70

No. T89—Less than bundle,

Length, ft.	6½	7	7½
Per pair	$7.50	8.10	8.70

AVERAGE WEIGHT PER PAIR 6 LBS.

CANOE PADDLES

Spruce, plain tip, selected material, finished in oil.

No. T80—Length, ft.	5	5½
Per dozen	$43.20	43.20

AVERAGE WEIGHT PER DOZEN 18 LBS.

★ **Items Marked Thus ★ Are Shipped From Factory Only.**

WATER WINGS

Easily adjusted; a good pocket life preserver, great sport in the water. Can be brought instantly into use, with them any one can swim or float. Supports from 50 to 250 pounds. Weighs three ounces and takes no more than a pocket handkerchief. A great help for those who wish to learn to swim, and fun for all competent swimmers. 15,000,000 people have learned how to swim with these wings.

No. 1—Ayvad's plain, per dozen $7.00

No. 2—Ayvad's, varigated colors, better quality and finish than No. 1 .....per dozen $9.00

BATHING CAPS

SEAMLESS

For men, moulded of pure gum rubber, in full size and high grade in every particular.

No. 8—W't per doz. 1¼ lbs., per dozen $14.40

TEN IN A BOX

AVIATOR

For men or women, made of the best quality heavy pure gum rubber.

No. 9—W't per doz. 2¼ lbs., per dozen $13 00

ONE DOZEN IN A BOX

STEEL ROW BOATS

FLAT BOTTOM FISHING BOAT

Rides light, yet steady. Made of 20 gauge galvanized sheet steel with all seams double locked and soldered. Each rivet capped and soldered, can't leak.

Each boat is fitted with two large air chambers, one in each end of boat. The air chambers are riveted and soldered fast so as to be air tight and will more than support the boat full of water. Wood seats covering the air chambers. They give extra seating capacity. The frame and ribs are of 1 in. angle steel and make a boat that is very rigid. A pulley is in the front angle for anchor rope.

Fitted for an out-board motor. A wide two-inch board is fastened securely to the rear end of the boat to which motor can be attached. The cut of the boat makes the use of a motor very satisfactory. These boats are fitted with either one or two seats as desired. The seats are of wood and so fastened that they do not warp or split.

Painted Battleship Gray, unless otherwise specified, which is a very attractive color.

A pair of copper-tipped oars furnished with each boat.

Each boat has a false bottom of light cedar, painted.

These bottoms are not necessary but are more comfortable than the bare steel bottom.

Nos.	F13	F14	F16	F17
Length, ft.	13	14	16	17
Beam, in.	45	46	47	48
Stern, in.	25	25	27	28
No. of seats	1	1	2	2
W't, lbs.	220	240	280	300
Each	$90.00★	97.20★	103.50★	110.00★

★ Items Marked Thus ★ Are Shipped from Factory Only.

CANOE GLUE

Its particular properties are those of flexiblity and durability, clean and insoluble in water.

Invaluable for quick repairs on either canvas or cedar canoes.

Any puncture or leak in boat or canoe can be repaired in five minutes.

No. 16—Jeffery's, special marine canoe, guaranteed to be waterproof, in friction top cans, w't per doz. cans 3 lbs. 15 oz. .....per dozen cans $8.50

OAR LOCKS

Socket, malleable iron.

PLAIN

Nos.	11	11½
Opening, in.	2	2½
Center, in.	2½	3
W't per doz. prs., lbs.	17	19
Per dozen pairs	$6.90	7.70

GALVANIZED

Nos.	0	1	1½
Opening, in.	1½	2	2½
Center, in.	2½	2½	3
W't, doz. prs., lbs.	12	17	19
Per dozen pairs	$5.80	8.20	9.10

No. 7.

No. 8.

Galvanized, malleable iron.

No. 7—North River, with plate and pin, 2 in. opening, w't per doz. prs. 17 lbs. .....per dozen pairs $8.20

No. 8—Round socket, with plate, 2½ in. hole, w't per doz. prs. 17 lbs., per dozen pairs $8.20

No. 21.

Nos. 40 and 41.

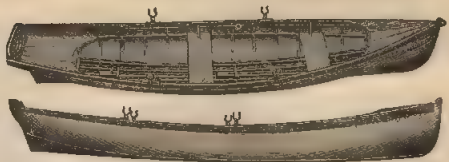
Malleable Iron.

No. 21—Moline, plain, with side plate, 1¼ in. opening, 2½ in. center, w't per doz. prs. 30 lbs., per dozen pairs $12.20

H.S.B. & CO.
REV-O-NOC

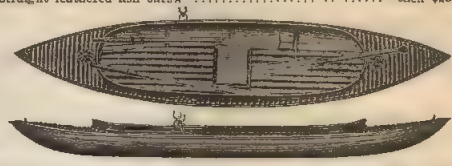
We Stand Behind the Brand.

MULLIN'S STEEL BOATS



Finished in aluminum outside, light blue inside, natural wood trimmings, large air chambers under decks like a life boat.

No. F316—"Sultan," length 16 ft., beam 50 in., height bow 25 in., stern 23½ in., amidships 15 in., w't about 225 lbs., crated 260 lbs., with one pair 7½ ft. straight leathered ash oars★ ..... each $202.00



No. F27—"Get There" length 14 ft., beam 46 in., 12 in. high to top of coaming at ends, 10 in. high amidships, cock pit 9 ft. long, 30 in. wide regular fittings and air chambers on sides, w't each 120 lbs., packed for shipment 140 lbs. each★ $165.00

PLAIN OARS

White ash, selected straight grain, reinforced blade.

TT55—Full bundle five pairs.

Length, ft.	6	6½	7	7½	8
Per pair	$3.60	3.90	4.20	4.50	4.80

No. T55—Less than bundle.

Length, ft.	6	6½	7	7½	8
Per pair	$3.60	3.90	4.20	4.50	4.80

COPPER TIPPED OARS

WHITE ASH, SELECTED STRAIGHT GRAIN, REINFORCED BLADE

No. TT75—Full bundle five pairs.

Length, ft.	6	6½	7	7½	8
Per pair	$4.20	4.55	4.90	5.25	5.60

No. T75—Less than bundle,

Length, ft.	6	6½	7	7½	8
Per pair	$4.20	4.55	4.90	5.25	5.60

SPRUCE, SELECTED STOCK, STRAIGHT BLADE

No. TT89—Full bundle five pairs.

Length, ft.	6½	7	7½
Per pair	$7.50	8.10	8.70

No. T89—Less than bundle,

Length, ft.	6½	7	7½
Per pair	$7.50	8.10	8.70

AVERAGE WEIGHT PER PAIR 6 LBS.

CANOE PADDLES

Spruce, plain tip, selected material, finished in oil.

No. T80—Length, ft. ... 5 5½

Per dozen $43.20 43.20

AVERAGE WEIGHT PER DOZEN 18 LBS.

★ Items Marked Thus ★ Are Shipped From Factory Only.

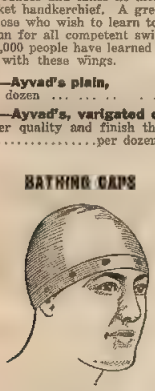
WATER WINGS

Easily adjusted; a good pocket life preserver, great sport in the water. Can be brought instantly into use, with them any one can swim or float. Supports from 60 to 250 pounds. Weighs three ounces and takes no more than a pocket handkerchief. A great help for those who wish to learn to swim, and fun for all competent swimmers. 15,000,000 people have learned how to swim with these wings.

No. 1—Ayvad's plain,
per dozen $7 00

No. 2—Ayvad's, variegated colors,
better quality and finish than No. 1 .....per dozen $9.00

BATHING CAPS



SEAMLESS

For men, moulded of pure gum rubber, in full size and high grade in every particular.
No. 3—W't per doz. 1¼ lbs.,
per dozen $14.40

TEN IN A BOX

AVIATOR

For men or women, made of the best quality heavy pure gum rubber.
No. 9—W't per doz. 2½ lbs.,
per dozen $13.00

ONE DOZEN IN A BOX

STEEL ROW BOATS

FLAT BOTTOM FISHING BOAT

Rides light, yet steady. Made of 20 gauge galvanized sheet steel with all seams double locked and soldered. Each rivet capped and soldered, can't leak.

Each boat is fitted with two large air chambers, one in each end of boat. The air chambers are riveted and soldered fast so as to be air tight and will more than support the boat full of water. Wood seats covering the air chambers. They give extra seating capacity. The frame and ribs are of 1 in. angle steel and make a boat that is very rigid. A pulley is in the front angle for anchor rope.

Fitted for an out-board motor. A wide two-inch board is fastened securely to the rear end of the boat to which motor can be attached. The cut of the boat makes the use of a motor very satisfactory. These boats are fitted with either one or two seats as desired. The seats are of wood and so fastened that they do not warp or split.

Painted Battleship Gray, unless otherwise specified, which is a very attractive color.

A pair of copper-tipped oars furnished with each boat.

Each boat has a false bottom of light cedar, painted.

These bottoms are not necessary but are more comfortable than the bare steel bottom.

Nos.	F13	F14	F16	F17
Length, ft.	13	14	16	17
Beam, in.	45	46	47	48
Stern, in.	25	25	27	28
No. of seats	1	1	2	2
W't, lbs.	220	240	280	300
Each	$90.00★	97.20★	103.50★	110.00★

★ Items Marked Thus ★ Are Shipped from Factory Only.

CANOE GLUE

Its particular properties are those of flexiblity and durability, clean and insoluble in water.

Invaluable for quick repairs on either canvas or cedar canoes.
Any puncture or leak in boat or canoe can be repaired in five minutes.

No. 1G—Jeffery's, special marine canoe, guaranteed to be waterproof, in friction top cans, w't per doz. cans 3 lbs. 15 oz. .....per dozen cans $8.50

D 9

CANOES

MULLINS

The Standard Grade canoes are perfect in design, of best selected materials. Planking and ribs are of cedar, gunwales of spruce, stems of ash, and seat frames of ash or maple, all air dried. Brass bang plates; all planking brass fastened. Best canvas is used.

The I. X. L. Grade is made of the best materials used in canoe construction. Every piece of lumber used is hand selected and matched to secure uniformity of color.

YALE

This beautiful model is the embodiment of graceful, speedy lines in a safe, steady and stable canoe. Open gunwale construction; pressed brass bang plates; protecting stems are noteworthy features. The handsome appearance, the bright glossy lustre is one of the distinctive features.

Can be furnished in three colors, Yale blue, Harvard green or coach green. Length 16 ft.; width at rails amidship 32½ inches; width at bilge amidship 33½ in.; depth amidship 13 inches.

	Each
No. 16Y—Standard Grade	✚$240 00
No. 16IXL—I. X. L. Grade	✚ 255 00

Approximate weight packed, 95 lbs.

PRINCETON

The Princeton represents the height of perfection in canoe design, construction and finish. One stroke of the paddle in this graceful model will cause a thrill of satisfaction to the most experienced of canoe men, as it is a marvel of speed, lightness and stability. Beautiful finish, brass bound stems of polished brass and open gunwales.

Can be furnished in three colors, coach green, Yale blue or Harvard red.

Length 17 ft.; width at rails amidship 33½ in.; width at bilge amidship 34½ in.; depth amidship 13½ inches.

	Each
No. 17P—Standard Grade	✚$255 00
No. 17IXL—I. X. L. Grade	✚ 270 00

Approximate weight packed, 110 lbs.

HARVARD

Stems are securely bound with polished brass bang plates.

Can be furnished in three colors, Harvard red, Yale blue or coach green.

Length 18 ft.; width at rails amidship 35 inches; width at bilge 35½ inches; depth amidship 13¾ inches.

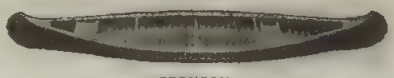
	Each
No. 18H—Standard Grade	✚$270 00
No. 18IXL—I. X. L. Grade	✚ 285 00

Approximate weight packed, 130 lbs.

✚F. O. B. Ohio Factory Only.

CANOES

MULLINS



SPONSON

Recommended for ladies' and children's use, as it is practically impossible to capsize it. Also desirable for fly-fishing and casting. Far safer than an ordinary canoe with air tanks in the ends, for the Sponsons not only possess as much buoyancy as air tanks but prevent the canoe from tipping over.

Open gunwales, brass bound stems.

Can be furnished in three colors, coach green, Yale blue or Harvard red.

Length 17 ft.; width at rails amidship 33½ inches; width at bilge amidship 40½ inches; depth amidship 13½ inches.

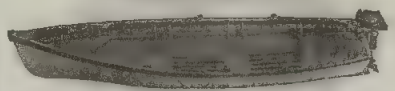
	Each
No. 17S—Standard Grade	✚$336 00
No. 17IXL—I. X. L. Grade	✚ 345 00

Approximate weight packed, 130 lbs.

STEEL ROW BOATS

MULLINS

OUTWARD SPECIAL



Designed and especially constructed for the application of detachable row boat motors. Equipped with bottom boards, rowing braces, one pair oarlocks, tying rings at bow and stern, air-tight compartments, especially constructed and reinforced transom for attaching outboard motors and one pair 7½ ft. straight ash oars. (When ordering, specify whether loose or pin type oarlocks are wanted).

	Each
No. 140S Length 14 ft.; beam 48 in.; draft 6 in.; height at bow 27 in.; at stern 25 in.; amidship 20 in.; seating capacity, 7; width at stern 33 in.; height of seat above floor boards 18 in.; 1⅛ inch transom with special corner braces. Finished in aluminum outside, light blue inside, natural wood trimmings; air chambers under decks like a life boat	✚$300 00

Crated, weight 315 lbs.

SULTAN

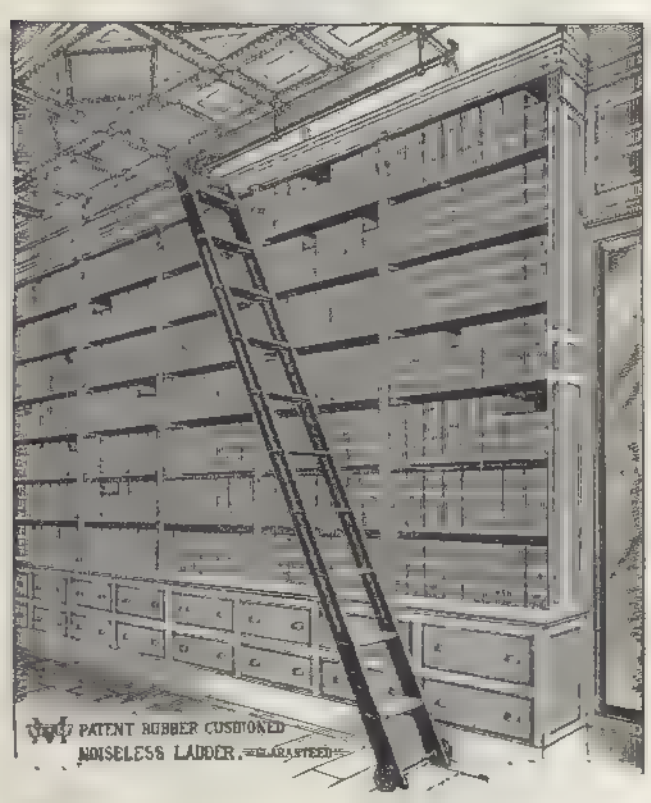
Modeled on perfect lines and will make an admirable boat for family use where a good capacity is required. Equipped with bottom boards, rowing braces, one pair oarlocks, tying rings at bow and stern, air-tight compartments and one pair 7½ foot straight ash oars. (When ordering specify whether loose or pin type oarlocks are wanted).

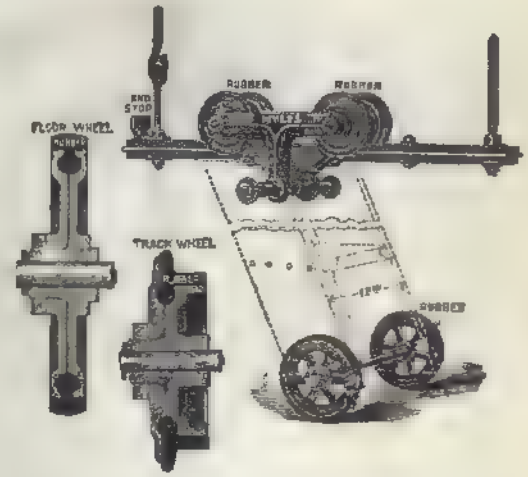
	Each
No. 16S Length 16 ft.; beam 50 in.; height at bow 25 in.; at stern 25 in.; amidship 15 in. Finished in aluminum outside, light blue inside, natural wood trimmings; large air chambers under decks like a life boat	✚$294 00

Crated; weight 275 lbs.

✚F. O. B. Ohio Factory Only.

MYERS CUSHION TIRE STORE LADDERS





No. F20—Ladder and Trolley complete, average w't 60 lbs.★ .....each $36.00

No. F30—Track, complete with hangers, w't per ft. 2¼ lbs.★ .....each $0.51

Do not forget to give height of ceiling. If height of ceiling varies give the height at each end and center of each run of track. Give length of each run of track.

DESCRIPTION

The track is the well known double angle steel rail, which is very neat and strong, and is suspended from ceiling by means of lag screws, either jointed or rigid or by flanged plates and wood screws. By this means the track is placed close to the ceiling and can be leveled on an uneven ceiling without the least trouble, and without any blocking or bridging, as is the case in many other tracks.

The ladder is constructed of the best clear Georgia pine, nicely finished, filled and varnished, has open panel sides 5 in. wide, steps 5 in. wide. Each step is supported at each end with a special malleable dowel tee, which makes the strongest construction possible. The width of the ladder is 12 in.

The trolley is self-adjusting and made of malleable iron, fitted with turned steel bearings and 3 in. anti-rattler wheels turned and bored on lathe and fitted with special rubber tires.

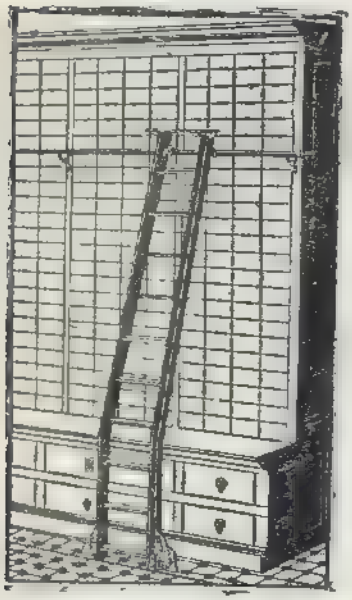
The floor travelers are 5 in. in diameter, composed of metal sides with rubber cushion tires clamped in such a position as to be impossible to get off or come loose. These wheels are placed on a steel axle which revolves with one of the wheels, the other running loose. In this manner the ladder will adjust itself to the floor. With this style trolley, which is noiseless, a great objection in other ladders is overcome.

When the ladder is too long for ceiling, cut off at the bottom and replace the lower traveler shaft by boring new holes at the proper point so as to have the steps of the ladder level.

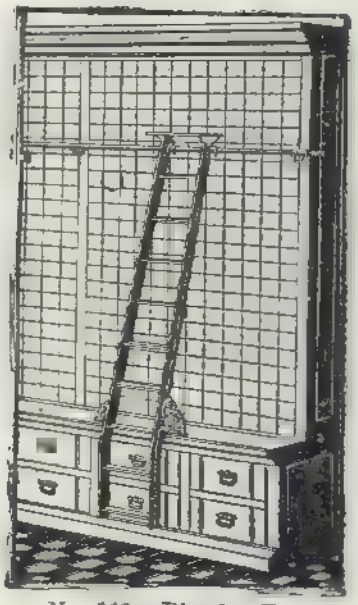
★ **Items Marked Thus ★ Are Shipped From Factory Only.**

BICYCLE AND AUTO STEPLADDERS

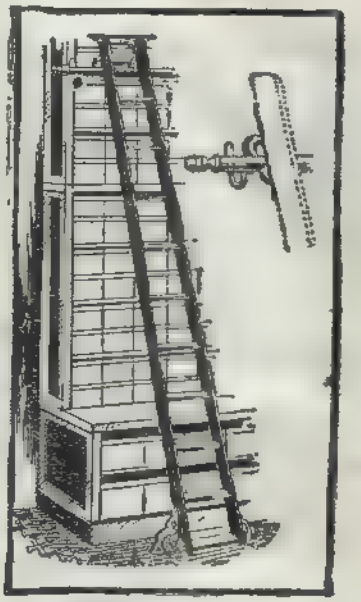
MADE OF SELECTED OAK OR GEORGIA PINE, WITH EXTRA WIDE SHELF AT TOP



No. 100. Bicycle—Bent.



No. 110. Bicycle—Bent.



No. 120. Auto—Straight.

Bicycle, for Floor Track.

Oak Japanned Mountings.

Nos.	F100JS	F100JB
Kind	Straight	Bent
W't each, lbs.	40	40
Each	$36.00★	38.00★

Oak, Nickel Plated Mountings.

Nos.	F100NS	F100NB
Kind	Straight	Bent
W't each, lbs.	40	40
Each	$40.00★	42.00★

Bicycle, For Base Track.

Oak, Japanned Mountings.

Nos.	F110JS	F110JB
Kind	Straight	Bent
W't each, lbs.	40	40
Each	$36.00★	38.00★

Oak, Nickel Plated Mountings.

Nos.	F110NS	F110NB
Kind	Straight	Bent
W't each, lbs.	40	40
Each	$40.00★	42.00★

Auto, No Lower Track.

Oak, Japanned Mountings.

Nos.	F120JS	F120JB
Kind	Straight	Bent
W't each, lbs.	40	40
Each	$36 00★	38.00★

Oak, Nickel Plated Mountings.

Nos.	F120NS	F120NB
Kind	Straight	Bent
W't each, lbs.	40	40
Each	$40.00★	42.00★

Above Prices Do not Include Track. See Track Descriptions and Prices Below.

Figure 3.

Bicycle ladders have but two wheels, the track is at the bottom, either on the base shelf or on the floor, so that the entire weight of the ladder and operator is supported from below on a solid foundation and not suspended, holding operator and ladder in perfect balance and eliminating all liability of the ladder sagging the shelving.

A light turned pole guides the upper end of the ladder in moving it. Stout hooks fit over this pole to prevent the ladder from tipping backwards, but not a pound of weight rests on the pole.

Operator stands directly over the wheels, there is no side friction at all and ladder travels as easily as any other bicycle.

The noiseless rail is yielding and resilient, absorbing all vibration due to operation of ladder.

The auto ladder requires no track but runs on flat wheels.

It can be set at any angle or pushed close to the shelving when not in use. It is particularly adapted to short runs, cramped spaces or sloping, uneven floors The adjusting feature allows guide rail to be placed opposite a shelf regardless of being parallel with the floor.

Track.

No. F22—Steel bronze rail, japanned brackets special pole★ ..... per foot $0.50
No. F24—Noiseless Fibre rail, japanned brackets, special pole★ ..... per foot .60
No. F26—Noiseless or nickeled rail, nickel brackets★ ..... per foot .70
No. F28—For auto ladders, japanned brackets, special pole★ ..... per foot .40

Approximate weight ½ lb. per foot.

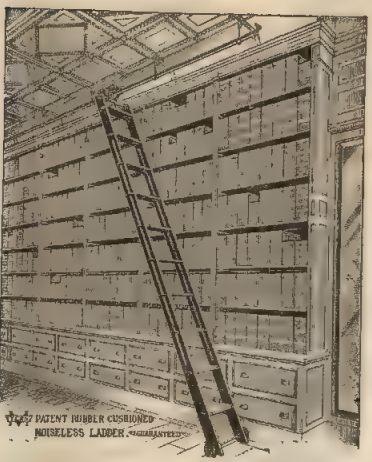
Any combination of track will fit any of the above ladders, except No. 120 Auto.

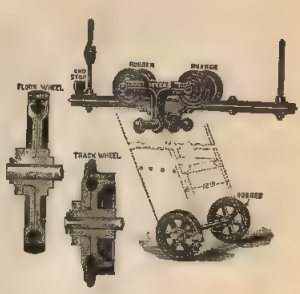
No. 22 Track is always sent for Floor Track Ladders, and No. 24 for Base Track Ladders unless otherwise specified.

How to Order Bicycle Ladders: Refer to Figure 3 on this page and give the following measurements: floor to C; floor to A; A to B; and B to S. State whether ladders are to be straight or bent. State length of track wanted and the number of uprights of all kinds in the shelving, and say whether solid uprights, partition boards, turned spindles or iron brackets are used to support the shelving.

★ Items Marked Thus ★ Are Shipped From Factory Only.

MYERS CUSHION TIRE STORE LADDERS





No. F20—Ladder and Trolley complete, average w't 60 lbs.★ .....each $36.00

No. F30—Track, complete with hangers, w't per ft. 2¼ lbs.★ .....each $0.51

Do not forget to give height of ceiling. If height of ceiling varies give the height at each end and center of each run of track. Give length of each run of track.

DESCRIPTION

The track is the well known double angle steel rail, which is very neat and strong, and is suspended from ceiling by means of lag screws, either jointed or rigid or by flanged plates and wood screws. By this means the track is placed close to the ceiling and can be leveled on an uneven ceiling without the least trouble, and without any blocking or bridging, as is the case in many other tracks.

The ladder is constructed of the best clear Georgia pine, nicely finished, filled and varnished, has open panel sides 5 in. wide, steps 5 in. wide. Each step is supported at each end with a special malleable dowel tee, which makes the strongest construction possible. The width of the ladder is 12 in.

The trolley is self-adjusting and made of malleable iron, fitted with turned steel bearings and 3 in. anti-rattler wheels turned and bored on lathe and fitted with special rubber tires.

The floor travelers are 5 in. in diameter, composed of metal sides with rubber cushion tires clamped in such a position as to be impossible to get off or come loose. These wheels are placed on a steel axle which revolves with one of the wheels, the other running loose. In this manner the ladder will adjust itself to the floor. With this style trolley, which is noiseless, a great objection in other ladders is overcome.

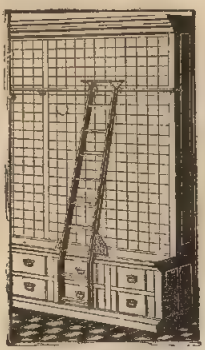
When the ladder is too long for ceiling, cut off at the bottom and replace the lower traveler shaft by boring new holes at the proper point so as to have the steps of the ladder level.

★ **Items Marked Thus ★ Are Shipped From Factory Only.)**

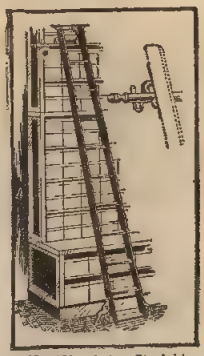
BICYCLE AND AUTO STEPLADDERS

MADE OF SELECTED OAK OR GEORGIA PINE, WITH EXTRA WIDE SHELF AT TOP

No. 100. Bicycle—Bent.



No. 110. Bicycle—Bent.



No. 120. Auto—Straight.

Bicycle, for Floor Track.

Oak Japanned Mountings.

Nos.	F100JS	F100JB
Kind	Straight	Bent
W't each, lbs.	40	40
Each	$36.00★	38.00★

Oak, Nickel Plated Mountings.

Nos.	F100NS	F100NB
Kind	Straight	Bent
W't each, lbs.	40	40
Each	$40.00★	42.00★

Bicycle, For Base Track.

Oak, Japanned Mountings.

Nos.	F110JS	F110JB
Kind	Straight	Bent
W't each, lbs.	40	40
Each	$36.00★	38.00★

Oak, Nickel Plated Mountings.

Nos.	F110NS	F110NB
Kind	Straight	Bent
W't each, lbs.	40	40
Each	$40.00★	42.00★

Auto, No Lower Track.

Oak, Japanned Mountings.

Nos.	F120JS	F120JB
Kind	Straight	Bent
W't each, lbs.	40	40
Each	$36.00★	38.00★

Oak, Nickel Plated Mountings.

Nos.	F120NS	F120NB
Kind	Straight	Bent
W't each, lbs.	40	40
Each	$40.00★	42.00★

Above Prices Do not Include Track. See Track Descriptions and Prices Below.

Figure 3.

Bicycle ladders have but two wheels, the track is at the bottom, either on the base shelf or on the floor, so that the entire weight of the ladder and operator is supported from below on a solid foundation and not suspended, holding operator and ladder in perfect balance and eliminating all liability of the ladder sagging the shelving.

A light turned pole guides the upper end of the ladder in moving it. Stout hooks fit over this pole to prevent the ladder from tipping backwards, but not a pound of weight rests on the pole.

Operator stands directly over the wheels, there is no side friction at all and ladder travels as easily as any other bicycle.

The noiseless rail is yielding and resilient, absorbing all vibration due to operation of ladder.

The auto ladder requires no track but runs on flat wheels.

It can be set at any angle or pushed close to the shelving when not in use. It is particularly adapted to short runs, cramped spaces or sloping, uneven floors. The adjusting feature allows guide rail to be placed opposite a shelf regardless of being parallel with the floor.

Track.

No. F22—Steel bronze rail, japanned brackets special pole★	per foot	$0.50
No. F24—Noiseless Fibre rail, japanned brackets, special pole★	per foot	.60
No. F26—Noiseless or nickeled rail, nickel brackets★	per foot	.70
No. F28—For auto ladders, japanned brackets, special pole★	per foot	.40

Approximate weight ¾ lb. per foot.

Any combination of track will fit any of the above ladders, except No. 120 Auto.

No. 22 Track is always sent for Floor Track Ladders, and No. 24 for Base Track Ladders unless otherwise specified.

How to Order Bicycle Ladders: Refer to Figure 3 on this page and give the following measurements: floor to C; floor to A; A to B; and B to S. State whether ladders are to be straight or bent. State length of track wanted and the number of uprights of all kinds in the shelving, and say whether solid uprights, partition boards, turned spindles or iron brackets are used to support the shelving.

★ **Items Marked Thus ★ Are Shipped From Factory Only.**

WHEEL GOODS

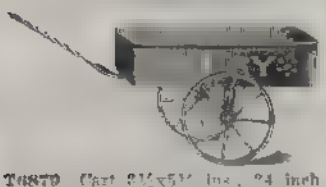
All extra high grade and a matchless line of popular priced wagons, autos, tricycles, velocipedes, etc.; built for strength, durability and easy running; the best goods on the market barring none, and priced so as to enable you to get the business and yield you a nice profit; these are the goods that sell.

WOOD HAY CARTS

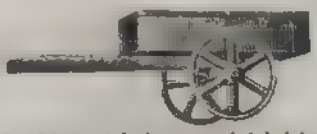
T6872—Cart 4x6 ins.; 24 in. twist wire handle; set up; 1 dozen assorted colors in box. Dozen..1.86

T6874—Strongly made and beautifully finished; the bodies come assorted in bright red, green and yellow; size 6x10 ins.; 24 inch twist wire handle; set up; ⅓ dozen in carton. Dozen 4.00

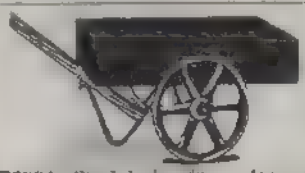
STEEL CARTS



T6879—Cart 8½x5½ ins., 24 inch twist wire handle, set up, 1 dozen in box. Dozen 1.13



T6882—Steel body, enameled bright red, green wheels; size 9 in. long, 5¼ in. wide; 4½ in. wheels; 2 dozen in case. Dozen..... 2.25



T6884—Steel body, 12 in. long, 6 in. wide, enameled bright red, with 6 in. green enameled wheels; 1 dozen in case. Dozen.....4.85

T6885—Same, larger; body 15½ in. long; 7½ in. wide, 35 in. long over all; 7 in. wheels; 1 dozen in case. Dozen 6.75

STEEL WAGONS

T6881—Stamped steel body with 2¾ inch metal wheels; twisted wire handles enameled red; size of bed, 5½x3½ inches, ½ dozen in a box. Dozen..... 4.00

AMERICAN BOY EXPRESS WAGONS

Steel wagons that give long and satisfactory service, embodying every improved and up-to-date feature; neatly finished.

Heavy steel sides; corrugated band; extra heavy steel braces and bolsters, [illegible] painted bright red, gold stenciling, inside green; varnished inside and on gears and wheels black enamel; wheels same size, front and rear.

T6905—Packed 1/3 dozen, all other numbers 1/6 dozen in crate.

No.	Size	Wheels Size	Wgt Doz.	Doz.
T6905—	8x18	5	70	..10.50
T6907	10x22	8	98	..13.00
T6909—12x26		10	175	.. 1.55
T6911—14x30		11	210	.. 1.88

No.	Size	Wheels Size	Wgt Doz.	Each
T6912—15x32		11	250	2.10

With ½ in. rubber tire wheels.

T6914—Same as T6909, rub. tires. Each 2.25

T6915—Same as T6911, rub. tires. Each 2.75

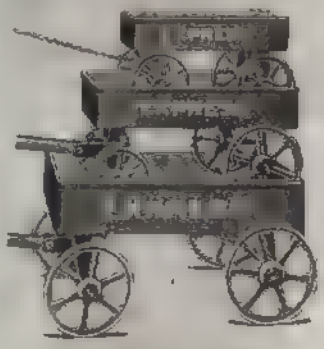
Note—We do not break crates.

"PIONEER" EXPRESS WAGONS

Extra heavy sheet steel sides; corrugated band; heavy hubs and spokes, extra strong gear; braces and bolsters attached to body with bolts; bottom board with 4 cleats; best hardwood handle; outside painted blue; gold stenciling; inside green, gears and wheels black enamel; wheels same size front and rear.

Packed 1-6 Dozen in Crate.

	Body Size	Wheels Size	Wgt. Doz.	
T6921	16x36	12 in.	330	Each 3.75



STEEL EXPRESS WAGONS

All steel body, enameled bright red, green wheels.

T6901—8 in. long, 5 in. wide, 2 in wheels; twist wire handle; 2 dozen in case. Dozen.....2.15

T6902—12 in. long, 6 in. wide, 4½ in. wheels; twist wire handle; 1 dozen in case. Dozen.....4.25

T6903—15 in. long 7½ in. wide, 4½ in. front, 6 in. rear wheels, wood tongue, ½ dozen in case. Dozen 8.00

AMERICAN NATIONAL COASTER WAGONS

WITH BRAKE

Body made of select hardwood glued and reinforced with two hook steels, hardwood bolsters steel braced; finished in natural grain wood, lettered and decorated; auto type wheels, roller bearings, nickel-plated hub caps.

RUBBER TIRES

No.	Body	Wheels	Each
T6944—Body 14x32 ins., 10 inch wheels; 2 in. crate. Each.....6.25			
Less than crate lots. Each..6.50			
T6945—Body 14x34 ins., 10 inch wheels; 2 in crate. Each.....6.50			
Less than crate lots. Each..6.75			
T6946—Body 16x38 ins., 10 inch wheels; 2 in crate. Each.....7.25			
Less than crate lots. Each...7.50			

HAND PROPELLED

Body made of seasoned ash; finished in natural grain and varnished; removable top; roller bearing, auto type wheels, hardwood spokes, furnished in red with yellow striping; nickel plated hub caps; driving rod of hand propeller is easily detached from wheel adapting the wagon for hauling as well as coasting, the handle folding forward and out of the way

RUBBER TIRES

⅝ Inch Corrugated Rubber

No.	Body	Wheels	Each
T6958—14x32	in.	10	in...6.65
T6959—14x34	in.	10	in... 7.50
T6960—16x38	in.	10	in...8.25

COASTER WAGONS

ROLLER BEARING

Extra high grade, built for strength, easy running; wagon bed, natural varnished white ash, hard maple bolsters, steel braced, wheels, edge of bed and top rim painted red all metal parts black enameled; oval seasoned ash spokes, mitered and machine riveted in hub; ½x⅝ in. felloes; ⅛ in. flat steel tire; steel roller bearings; removable body

T6934—Body 12x28 [illegible] wheels; 2 in crate. Each 4.00
Less than crate lots. Each 4.25

T6935—Body 14x32 inch, 8 inch wheels; 2 in crate. Each.....5.00
Less than crate lots. Each. ..5.25

T6936—Body 14x34 inch, 10 inch wheels; 1 carton. Each 5.50

T6937—Body 16x38 inch, 10 inch wheels; 1 in carton. Each... 6.25

COASTER WAGONS

RUBBER TIRE, DOUBLE DISC

Disc steel wheels, automobile type, with roller bearings and nickeled hub caps; box made of hard wood, with hardwood bolsters well braced to bed with steel braces; finished natural artistically lettered and decorated

T6961—Body 14x32 ins., 8 inch wheels, ⅝ in. rubber tires, 2 in crate. Each 5.95
Less than crate lots. Each...6.20

T6962—Body 14x34 in., 11 inch wheels, ⅝ in. rubber tires; 1 in crate. Each 6.50

T6963—Body 16x32 in., 11 inch wheels, ⅝ in. rubber tires; 1 in crate. Each 7.95

Note—The extra large size wheels on these wagons.

BEACON FARM WAGON

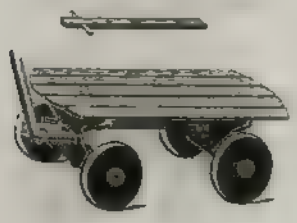
Absolutely the best farm wagon made; heavy body gears and wheels.

T6951—Miniature farm wagon, built like the full size wagon, with 14 and 20 inch wheels; welded tires; shaved spokes, with hub and cap; size of bed 18x36 in.; the sides and end can be taken off, leaving the bed with stakes; all parts strongly ironed and braced; round steel axles, heavy handle; body painted green, wheels and gear red; handsomely ornamented and striped; without shafts; each in crate, 55 lbs. Each.....8.50

T6952—Same, with shaft. Each 9.25

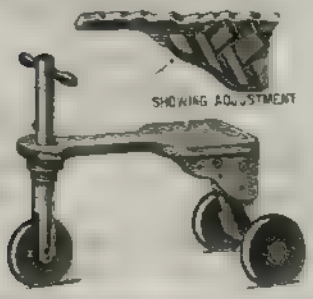
T6953—Shafts, extra, length 42 ins., width 17 in., painted red, blue stripes. Each.....75

COAST-A-WAY WAGONS

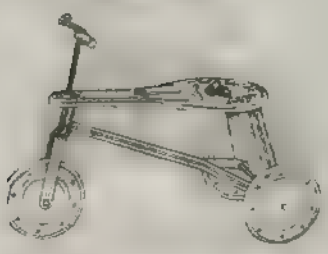


Solid hardwood wagon, top natural finish, varnished; running gear, handles and wheels bright red, metal bearings; 1/3 doz. in carton

T6922—Same, larger; height 8 ins., length 26 ins.; width 13 ins.; handle 26 ins., 5½ in. wheels. Dozen . . 6.25



WALK AWAY CAR



T7063—All steel, seat and chassis enameled bright red; cream colored 6 in. disc wheels nicely striped; ½ in. corrugated rubber tires; handle bar equipped with red rubber grips; 16½ in. high, 23½ in. long; 10¼ in from floor to seat; 2 in crate. Each 2.40

AUTO KIDDIE KAR

T7072—Kidder Kar, automobile model; wood frame, metal hood and seat; iron steering wheel and braces, black enameled; body enameled green, black trim, white striped; with wood headlight and radiator cap; 5 in. front, 6 in. rear natural finished wood wheels, length 28 ins., width 14 in., 19 in high to top of steering wheel, one in crate. Each.. .. . 2.25

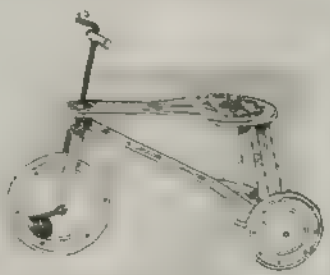
THE A B C ADJUSTABLE CAR

For children 2 to 7 yrs.; adjustable to three sizes.

T7061—Hardwood throughout; finished in yellow, with bright red wheels, and collars and varnished; well built and practically indestructible; simply and quickly adjusted; seat board 7x19 ins.; 5½ in. wheels. Each 1.42

T7062—Same as T7061, but with horse head steering post. Each 1.65

RIDE AWAY CAR



T7064—All steel; seat and chassis enameled bright red, cream colored wheels, nicely striped; length 33¾ ins.; wheel base 16⅜ ins.; height seat to floor 10¼ in., handle bar to floor 16½ ins.; 6 in. steel disc rear wheels, 8 in. front wheel; equipped with crank hangers and rat trap pedals; ½ in. rubber tires, handle bars are ram's horn shape, with red rubber grips; 2 in carton. Each 2.75

HAND CARS

⅜-IN. RUBBER TIRE WHEELS

T7030—Junior; wheels 6 and 10 ins.; ⅜ in. rubber tires; black enameled steel frame; steel gear, heavy axles, cog drive, black enameled, nickel plated hub caps, seat 14x7 ins. red enameled gold bronze decorated length 27 ins. 1 in crate. Each 3.00

T7041—Traveler, wheels 8 and 12 ins.; ⅝ in rubber tires; red enameled steel frame, steel gear, heavy axles, cog drive, black enameled; nickel-plated hub caps; seat 16x7¾ ins., red enameled, gold bronze decorated; length 31 ins.; 1 in crate Each.....4.10

½-IN RUBBER TIRE WHEELS

T7042—Scout; wheels 10 and 14 ins., ½ in. rubber-tires, roller-bearing, yellow enameled; steel frame, steel gear, cog drive, black enameled; large nickel plated hub caps, seat 8x30 ins., yellow enameled red striped; length 36 ins.; 1 in crate. Each.....6.75

PEDAL SKIPS

T7066—Red enameled seat 16 in. long, steel braced; red enameled wood cross handle with bell; flat gear, finished black; 8 in. red wheels with ⅜ in. rubber tires; 2 in crate. Each 2.00

T7067—Same, seat 20 in. long, 10 in. wheels, ½ in. rubber tires; tubing handle bars leather grips, with bell; 2 in carton. Each.....3.00

TEETER GO ROUND

T7045—Made of 11 gauge band steel; enameled light blue, and striped; length over all 6 ft.; center jointed for storage; handles are finished in black enamel, nickel plated seats; height of stand 16 ins.; each in carton. Each...6.25

SPEED SCOOTERS

RUBBER TIRE DISC WHEELS

T7047—Body and steering bar band ⅛ in. steel, braced and riveted; 8 in. steel disc wheels; body and steering bar red enameled, cream wheels red stripe; length 33 ins., 28 ins. high. Each.....1.65

RUBBER TIRE WHEELS

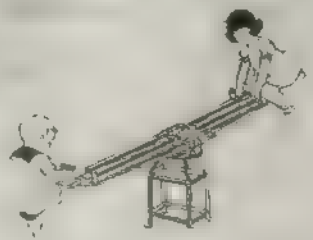
T7048—Length over all 36 in., 31 in. high; foot board 5½x13½ ins. redenameled with transfer; frame black, cross handle red; 10 in. red enameled wheels with ⅝ in. rubber tires; 2 in carton. Each..2.00 Less than carton lots. Each..2.25

RUBBER TIRE DISC WHEELS

T7049—Same as T7048, but with red enameled 10 in. disc wheels yellow striped; ⅝ in. rubber tires; 2 in carton. Each.....3.25 Less than carton lots. Each..3.50

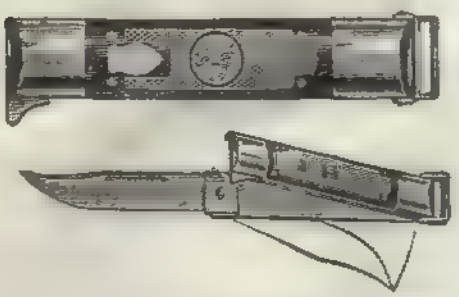
BICYCLE SPOKE WHEELS

T7050—Same as T7048, but with 12 in. tangent wire, nickel plated spoke wheels and 1 in rubber tires; nickel plated bicycle bars each in carton. Each 4.25



We catalogue only selected merchandise, the market's best and fastest sellers, satisfactory in quality, moderate in price and with a nice profit; you can't do better than buying from this catalogue.

HUNTING KNIVES



A slight pressure on the shield opens the knife, swings blade out into cutting position, closes case or handle and you have a rigid knife that is ready for business.

No torn thumb nails or sore fingers, no projections to catch or tear clothing.

Adaptable for every outdoor use. For hunting, fishing, camping, etc., it has no superior. Blades can be easily changed. Unconditionally warranted.

No. 961—Neft safety knife, made of the highest grade crucible steel, scientifically tempered and ground to a keen and lasting edge, length of blade 4½ in., length of knife when closed 5¾ in., scored hard rubber handle, large nickel silver bolsters with guard and toggle to attach to rope or key chain, small metal wrench for interchanging blades .....per dozen **$60.00**

HALF DOZEN IN A BOX

MARBLE TROUT KNIVES

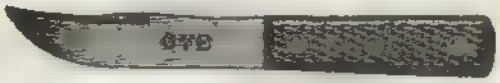
Latest addition to Marble Line. Designed expressly for dressing speckled trout and other fish.

Always open, entirely sanitary, quickly cleaned. While designed expressly for dressing speckled trout, may be used for a variety of purposes for which any small pocket knife could be used. The little finger is inserted about one-half its length in ring while the three remaining fingers and thumb are placed just back of blade against curve of shank.

No. 79—Forged from one piece of finest cutlery steel, handle terminates in a ring 1 in. in diam., full length 5⅞ in., blade 2 in., w't each 1 oz., complete with metal bound leather sheath .....per dozen **$12.60**

ONE DOZEN IN A BOX

HUNTING KNIVES



Made from a special grade steel similar to that of the very best razor steel. Not the regular butcher knife steel. Hand forged, swaged and polished. Ground to a very sharp razor edge. Second ebony handle. Fastened to blade with three large head brass rivets. The blade extends through the entire length of the handle.

No. 745—5 in. blade, full length 9¼ in., **without sheath** w't per doz. 3 lbs. .....per dozen **$13.50**
For Leather Sheath for No 745 hunting knife, see No. 955 sheath illustrated on this page.

HALF DOZEN IN A BOX

No. 7803—Extra finish, finest quality, scored ebony handle, metal bolster, 6 in. polished and swaged blade, **without sheath** .....per dozen **$12.00**
For Leather Sheath for No. 7803 hunting knife, see No. 955 sheath illustrated on this page.

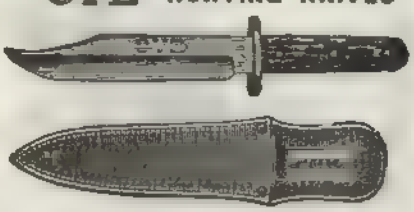
HALF DOZEN IN A BOX

LEATHER SHEATHES FOR HUNTING KNIVES

Made of heavy Russet Leather, embossed front, strongly sewed., fitted with two copper rivets at the top thus affording the greatest strength where it is most required fitted with loops through which a belt may be slipped.

Nos.	**955**	**956**
For blades, in.	5 and 6	7 and 8
Full length, in.	9¾	11
Per dozen	**$6.00**	**6.00**

HUNTING KNIVES



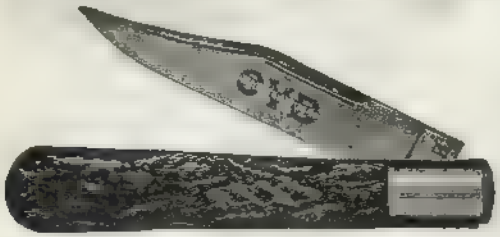
Stag handles, nickeled silver guard, hand forged crucible steel blade, clip point, crocus polished, **leather sheath.**

Nos.	**7374**	**7375**	**7376**	**7377**	**7378**
Blades, in.	4	5	6	7	8
Per dozen	**$44.00**	**49.50**	**54.50**	**60.00**	**66.00**

HALF DOZEN IN A BOX

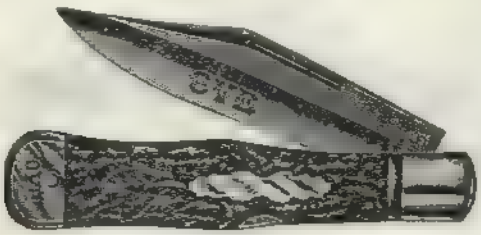
HUNTING KNIVES

"OUR VERY BEST", FOLDING KNIVES



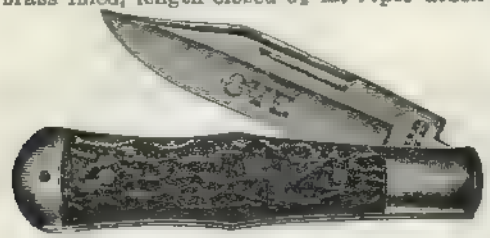
LOCK BACK

No. 143 —1 blade, full polished, 3⅝ in., stag handle, brass lined, length closed 4¼ in....per dozen **$26.00**



LOCK BACK

No 156 —1 blade, half polished, 4¼ in., stag handle, brass lined, length closed 5¼ in. ..per dozen **$45.00**



No. 144 —1 Blade, glazed, 4¼ in., cocobola handle, length when closed 5¼ in.....per dozen **$23.00**

HALF DOZEN IN A BOX

POCKET KNIFE KITS

Especially adapted for household mechanic and outing purposes.

No. 2762P —Consisting of 1 blade pocket knife, 1 screw driver, 1 chisel, 1 file, 1 reamer, 1 gimlet, 1 leather punch, which fit securely in special blank end of cocobola handle, iron lined, length of pocket knife 3⅞ in., tools packed in neat tan leather case, size closed 4¼×3¾×¾ in., w't per doz. 5 lbs. .....per dozen **$24.00**

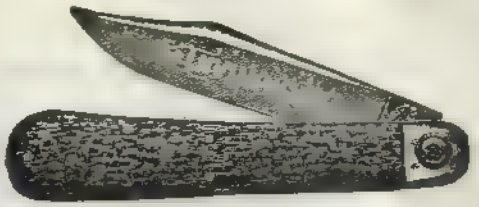
ONE DOZEN IN A BOX

HUNTING KNIVES

PRESS BUTTON, FOLDING

No. 943—1 blade, polished, 3 in., stag handle, iron lined, length closed 4 in. .....per dozen **$21.60**

HALF DOZEN IN A BOX



No. 944—1 blade, polished, 3⅞ in., stag handle, iron lined, length closed 4¾ in. .....per dozen **$24.00**

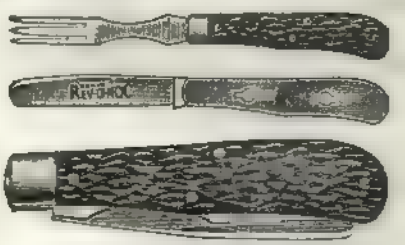
HALF DOZEN IN A BOX

By pressing the button shown in bolster, the blade will fly open and become firmly locked in place. To close the blade it is necessary first to press the button.

No. 953—1 blade, polished, 3⅞ in., stag handle, iron lined, patented, self-adjusting, nickeled silver guard, length closed 4⅞ in. .....per dozen **$32.40**

HALF DOZEN IN A BOX

CAMPING KNIFE, FORK AND SPOON



The above knives are ideal knives for campers and picnicers. Through an ingenious placing of slots in the linings the user can instantly take the knives apart in sections. Each section joins and opens like an ordinary pocket knife.

No. 2733P —2 pieces, finest quality English crucible steel knife and fork, stag handle, brass lined, length 4 in. closed .....per dozen **$24.00**

QUARTER DOZEN IN A BOX

SEMI-PORCELAIN DINNERWARE ASSTS.

E245—"Universal," White Cable Asst., light wt. semi-porcelain, scheme selection, standard sizes and shapes. Asst. comprises

4 doz. cups & saucers.	1 doz. bakers, 7 in., ast. 8 styles.	2 doz. coupe soup.	½ doz. salads, 7 in.
4 " plates, 6 in.	1 " bowls, 5¾ in., ast. 4 styles.	2 " plates, 7 in.	1 " oatmeals.
4 " plates, 7 in.	1 " platters, 7 in., ast. 3 styles.	1 " platter, 9 in.	1 " bowls, 5½ in.
4 " plates, 8 in.	1 " platters, 9 in., ast. 3 styles.	½ " platters, 11 in.	
2 " deep plates, 7 in., ast. 3 styles.	1 " salads, 6 in., ast. 4 styles.	½ " platters, 13 in.	
	1 " oatmeals, 5½ in., ast. 4 styles.		

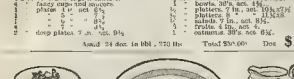
Asstd. 24 doz. in bbl., 970 lbs. Total $30.00 Doz. **$1.25**

E288—Good quality, light wt. semi-porcelain, plain shapes, ⅛ in. gold band. Asst. comprises

8 doz. cups and saucers.	2 doz. coupe soup.	½ doz. salads, 7 in.	
4 " plates, 6 in.	2 " plates, 7 in.	1 " oatmeals.	
4 " plates, 7 in.	½ " platters, 9 in.	1 " bowls, 5½ in.	
4 " plates, 8 in.	½ " platters, 11 in.		

Asstd. 24 doz. in pkg., 230 lbs. (Total $40.32) Doz. **$1.68**

"PLAYTIME" JUVENILE SEMI-PORCELAIN DINNERWARE ASST.



2834—"A. Y. & K.," trademarked. Light wt. American semi porcelain plain shape large variety of juvenile items in assd. characteristic piece. Asst. comprises

2 doz. low cups and saucers	½ doz. oatmeal bowls, 6 in.		
2 " luncheon plates, set 8 in.	1 " sandwich trays, 9½ x 7		
½ " tea plates, set 7½	2½ " footed 4 in. bowls, set 5 in.		
1 " child's plates, set 6¾	2 mug (2½ qts. pieces), bread and milk set, consisting of plate, cereal and creamer		
½ " plates, set 9½ in.	2 sets (36 doz. pieces) tea sets, consisting of creamer, sugar and tea pot.		
1 " child's mugs, sets, 2½x2¾.			

Asstd. 12 doz. in pkg., about 140 lbs. (Total $17.28) Doz. **$1.44**

KITCHEN WARE SPECIALS

NESTED BROWN BAKERS AND MIXING BOWLS

Extra hard, well baked, highly glazed brown bodies. Sold in any quantity

BAKERS	Doz.
E29—4 in., nest 5 in	$1.05
E29—5 " " 6 "	1.25
E91 6 " " 7 "	1.60
E92 7 " " 8 "	2.10
E93 8 " " 9 "	2.75
E94—9 " " 10½ "	3.25

E95—Asstd. 1 each of above sizes: 6 nested sizes. Doz. $2.10

NEST of 6, **$1.05**

MIXING BOWLS	Doz.
E96 4 in., nest 5 in	$1.05
E97—5 " " 6½ "	1.45
E98 6 " " 8½ "	1.95
E99—7 " " 9 "	2.50
E100—8 " " 10½ "	3.25
E102—10 " " 12½ "	6.50

E101—Asstd. 1 each of above sizes: 6 nested in each. Doz. $2.10

NEST of 6, **$1.40**

BLUE BANDED MIXING BOWL ASSORTMENT

E288—6 sizes, fine selection extra hard stoneware body, white glaze, wide blue bands and lines around outer rim. Assortment comprised of the following

One	5 in. nest	5¼ in.
One	6 " "	6¾ "
One	7 " "	7¾ "
One	8 " "	8¾ "
One	9 " "	9¾ "
One	10 " "	10¾ "

Asstd. 6 in nest. 1 nest in box. NEST of 6, **$1.10**

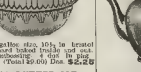
WHITE BRISTOL MILK CROCK ASSORTMENT

E739—2 sizes, hard baked white bristol body plain embossing. One 1 gal. and 2 qts. Asstd. 1 each in box. Doz. $2.10 (Total $12.60)

BROWN GLAZED BRISTOL MILK CROCK

E745 1 gallon size, 10¼ in. bristol body hard baked inside and out, plain embossing. 4 qts. in pkg., 300 lbs. (Total 19.00) Doz. **$2.25**

BRISTOL BUTTER JAR ASSORTMENT



E926—2 sizes, bristol body, heavy blue glaze inside and out, flat cover with sunken knob and overhanging edge. 2 doz. 2 lb. and 2 doz. 4 lb. jars. Asstd. 4 doz. in pkg., 240 lbs. (Total $10.00) Doz. **$2.50**

BROWN AND WHITE CUSTARDS

Light wt., extra hard baked, strictly first selection rich brown glaze outside, clear white glaze inside all piece fired to high temperature, guaranteed against crazing. 1 doz. in pkg.

	Doz.
E33—3x3¼, cup 3½ oz.	$0.78
E24—3½x3¾, cup 7 oz.	.89

MONARCH GLOBE TEA POTS

Extra hard baked body, best American clay, highly glazed, ivy black, handcolored. Sold in any quantity

			Doz.
E352—6½ in.	2 cups,	18 oz.	$4.75
E353—6½ "	3 "	24 "	6.25
E354—6½ "	4 "	32 "	6.50
E355—10 in.	6 "	36 "	7.95

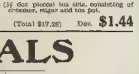
ROCKINGHAM TEA POTS

Extra hard baked, highly glazed dark brown bodies. Sold in any quantity

		Doz.
E402—4½ in.	3½ cups,	$2.25
E404—5½ "	4½ "	2.75
	Doz.	$4.50
E405—5½ "	5½ cups,	3.25
	Doz.	$6.25

HALL'S VITRIFIED FIREPROOF TEA OR COFFEE POTS

Hard well baked pure white china body, cobalt and green plain nonporous non-absorbent, positively will not craze, scratch, chip, warp or absorb odors whatsoever. All with full-length spouts, handle and knob



Gold Floral Band—6 and 8 in. body, gold stripes, gold floral band and color. 2 in pkg.

	Each
E387 6 cups,	$1.00
(Total $1.00)	
E388 8 cups,	$1.50
(Total $1.50)	

Allover Floral—Assorted green body, highly glazed allover gold stamped floral clusters with gold band. 2 in pkg.

	Each
E389—20 x, 8 cups	$1.50
(T. 25 $37.50)	

Plain Gold Band—Assorted green body, ivory glazed, wide and narrow gold color bands and stripes. 2 in pkg.

	Each
E393—20 x, 8 cups	$1.50
(Total $1.50)	

Allover Pansies—Cobalt blue body highly glazed, allover gold stamped pansies, wide gold color. 2 in pkg.

	Each
E396—20 x, 8 cups	$1.50
(Total $1.50)	

Yellow Ware Mixing Bowls

Extra hard standard yellow ware body, embossed and plain stripe decorations, fine glaze inside and out, non-absorbent and guaranteed against crazing. Sold in any quantity

	Doz. in pkg.	Doz.
E276—4½ in.	7½	$1.40
E276—6½ "	6	2.10
E277—12 "	9	3.10
E278—9½ "	9½	3.95
E479—6 "	11½	5.50
E280—9 "	12½	6.75

BRISTOL STONEWARE ASSORTMENT

E936 Extra hard baked, blue glazed bristol bodies, R. K. selection. Asst. comprises

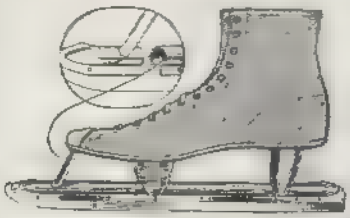
1 doz. cups, 2½ in. high, butterfly border and center medallions.	
1 doz. cupped soup dishes, blue molding border, 6 in.	
1 doz. individual butterpats, 3 in. diameter, embossed butterflies and blue lettered "SALT," base for hanging.	

Asstd. 2 doz. in pkg., 150 lbs. (Total $7.50) Doz. **$2.50**

NESTOR JOHNSON NORTH STAR SKATES

Scientific principles of construction make Nestor Johnson skates the peer among tubular skates. Not only does the patent rib, on each side of the runner housing tube, add a feature of strength, but adds to the rigidity of the skate as well. A very superior feature is the one-piece drawn steel heel cup, which is an exclusive feature of all our skates. Nestor Johnson blades are to well known to need any added praise. Shoes for all outfits are made with correctly molded counters and only with inside counter pockets, same as all high grade shoes. All Nestor Johnson skates are made to place the foot in correct scientific position and cups are heel compensating. Reliability and long wear are built into every pair of our skates and shoes.

NORTH STAR RACER



Reinforced Corrugated Rib

For Shoe Sizes 5, 6, 7, 8, 9, 10.

No. 300—Men's, aluminum finish,
per outfit $18.00

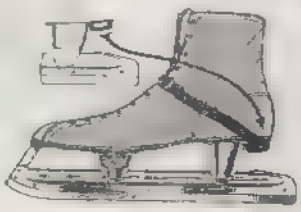
No. 301 Men's, full nickel plated,
per outfit $20.50

NORTH STAR HOCKEY

For Shoe Sizes 4, 5, 6, 7, 8, 9, 10, 11.

No. 200N—Men's, aluminum finish,
per outfit $18.00

No. 201—Men's, full nickel plated,
per outfit $20.50



Ritter Strap Carrier permits the use of a strap of good weight and the use of the long instep re-enforcing counter used on racing shoes, for hockey outfits, a great advantage to the skater in permitting an adjustment heretofore impossible.

For Shoe Sizes 1, 2, 3, 4, 5, 6, 7, 8.

No. 302—Women's, aluminum finish,
per outfit $18.00

No. 303—Women's, full nickel plated,
per outfit $20.50

For Shoe Sizes 1, 2, 3, 4, 5, 6, 7, 8.

No. 202—Women's, aluminum finish,
per outfit $18.00

No. 203—Women's, full nickel plated,
per outfit $20.50

UNION HARDWARE ICE SKATES

KEY CLAMP—ROCKER
FOR MEN AND BOYS

BEST STEEL RUNNERS. Top plates and clamps of best quality cold rolled steel. Polished.

No. 1624—Bright finish .....per pair $1.70
No. 1624½—Nickel plated .....per pair 2.20

Size, in	8	8½	9	9½	10	10½	11	11½	12
W't pr., oz.	34	35	36	36	39	40	41	42	43

KEY CLAMP—ROCKER
FOR MEN AND WOMEN

Top plates of best quality cold rolled homogeneous steel, with beveled edges, narrow foot plates.

No. 1724½—Polished cast steel runners, all parts nickel plated .....per pair $3.00

Sizes	8	8½	9	9½	10	10½	11	11½	12
W't per pair, oz.	34	35	36	36	39	40	41	42	43

KEY CLAMP—HOCKEY
FOR MEN AND BOYS

Top plates and clamps of best quality cold rolled homogeneous steel.

No. 524½—Polished cast steel runners, all parts nickel plated .....per pair $2.30
No. 424½—High percentage of **carbon** runners, hardened and polished, all parts nickel plated ....per pair $2.10

Size, in.	9½	10	10½	11	11½
W't per pair, oz.	20	21	22	23	25

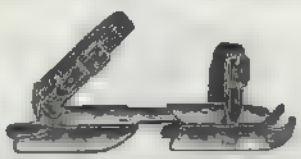
KEY CLAMP—HOCKEY
FOR MEN AND WOMEN

Top plates and clamps of best quality cold rolled homogeneous steel.

No. 924½—Flanged runners made of union steel, tempered, top plates with beveled edges, all parts full polished and nickel plated .....per pair $5.50

Size, in.	9	9½	10	10½	11	11½
W't per pair, oz.	24	25	26	27	29	32

CHILDREN'S EXTENSION BOB



No. 1—Cold rolled steel, polished, adjustable, from 6½ to 8 in., russet leather straps, w't per pair 24 oz., per pair $1.10
Extension allows it to be fitted to the foot of any small child.

HALF KEY CLAMP—ROCKER
FOR WOMEN AND GIRLS

Plates and clamps of best quality cold rolled homogeneous steel, russet leather backs and straps.

No. 5624—Cast steel polished runners, per pair $2.20

Sizes, in.	8½	9	9½	10	10½
W't per pair, oz.	31	31	32	34	36

Top plates and clamps of best quality cold rolled steel.

No. 5124—Cast steel polished runners ....per pair $2.10

Sizes, in.	8½	9	9½	10	10½
W't per pair, oz.	30	31	31	32	34

Plates and clamps of best quality cold rolled homogeneous steel, russet leather backs and straps.

No. 5624½—Polished cast steel runners, all parts nickel plated .....per pair $2.70
No. 5724½—High percentage of **carbon** runners, hardened and polished, all parts nickel plated ....per pair $3 20

Sizes, in.	8½	9	9½	10	10½
W't per pair, oz.	31	31	32	34	36

Plates and clamps of best quality cold rolled homogeneous steel, russet leather backs and straps.

No. 424½L—High percentage of **carbon** runners, hardened polished, all parts nickel plated, polished edges, per pair $3.90

Sizes, in.	8½	9	9½	10	10½
W't per pair, oz.	31	31	32	34	36

HALF KEY CLAMP—HOCKEY
FOR WOMEN AND GIRLS

Nickel plated, top plates and clamps of best quality cold rolled homogeneous steel, russet leather backs and strips.

No. 524½L—Best steel runners .....per pair $3.00

Sizes, in.	8½	9	9½	10	10½	11
W't per pair, oz.	34	35	36	37	38	39

"NEVER DULL" HIGH GRADE POCKET KNIVES

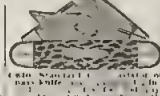
These knives have got to be good because we claim they are as good as the best that anyone else offers, and we guarantee them against all imperfections. There is many a bargain price, too.

"NEVER DULL" CATTLE KNIVES—3 and 4 Blades

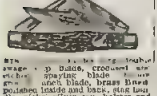
G.583—3½ in., 3 blades, large spear ground on side, swaged and nickel, sheep foot and spaying brass lined polished inside and back, stag handle, nickel silver cap, bolster and shield. ½ doz. in box
Doz. **$10.75**

G.584—3½ in., 3 blades, large spear and pen swaged, crocused, swage and etched, brass lined, stag handle, nickel silver cap, bolster and shield. ½ doz. in box
Doz. **$14.50**

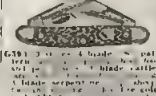
G.547—Premium stock knife, 4 in. 3 blades, large clip, cattle and spay ing, crocused swage and etched brass lined, stag handle, nickel silver cap, bolster and shield. ½ doz. in box
Doz. **$11.00**



G.585—3½ in., 3 blades, large spear and pen swaged, crocused, swage and etched, brass lined, polished inside and back, stag handle, nickel silver cap, bolster and shield. ½ doz. in box
Doz. **$16.00**



G.586—3½ in., 3 blades, large spear, swage, crocused and etched, spaying blade, brass lined, polished inside and back, stag handle, nickel silver cap, bolster and shield. ½ doz. in box
Doz. **$11.75**

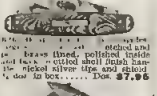


G.191—3½ in., 4 blades, large spear, swage, crocused and etched, pen and file blades, cattle spaying blade, brass lined, polished inside and back, stag handle, nickel silver cap, bolster and shield. Assrtd ½ doz. in pkg.
Doz. **$18.00**

"NEVER DULL" VEST POCKET AND PEN KNIVES 2, 3 and 4 Blades

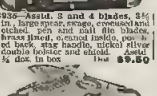
G827—Flat pen pattern, 2¼ in., 2 blades, spear and pen swage, crocused, brass lined, polished inside and back, ivory, celluloid and stag handles, nickel silver tips and shield. Assrtd ½ doz. in box
Doz. **$7.25**

G844—Flat pattern, 2¼ in., 2 blades, spear and pen swage, crocused, brass lined, polished inside and back, stag handle, nickel silver tips and shield, assrtd, each in leather case. ¼ doz. in box
Doz. **$10.50**

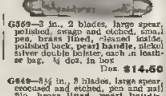


G.587—3½ in., 3 blades, large spear and pen swaged, crocused and etched, brass lined, polished inside and back, stag handle, nickel silver cap and shield. ½ doz. in box
Doz. **$7.95**

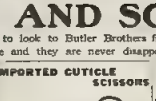
G905 — "Anglo-Saxon" pattern, 3½ in., 3 blades, large spear crocused, swage and etched, small pen and nail file, brass lined, polished inside and back, stag handle, nickel, silver cap and bolster. ½ doz. in box
Doz. **$11.75**



G936—Assrtd. 3 and 4 blades, 3½ in., large spear, swage, crocused and etched, pen and nail file blades, brass lined, stained inside, pearl inlaid back, stag handle, nickel silver double bolster and shield. Assrtd ½ doz. in box
Doz. **$9.50**

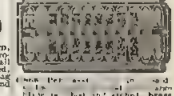


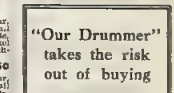
G569—3 in., 2 blades, large spear, polished, swage and etched, small pen, brass lined, stained inside, polished back, pearl handle, nickel silver double bolster, each in leather bag. ½ doz. in box
Doz. **$14.50**



G648—3½ in., 3 blades, large spear, polished and etched, pen and nail file, brass lined, pearl handle, nickel silver cap, bolster and shield. ¼ doz. in box
Doz. **$17.50**

"NEVER DULL" POCKET KNIFE ASSORTMENTS





"Our Drummer" takes the risk out of buying

SHEARS AND SCISSORS

Merchants everywhere have learned to look to Butler Brothers from month to month for the cream sellers of the shears and scissors line and they are never disappointed in the goods or the prices.

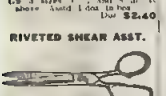
NUT AND BOLT SHEARS

Straight trimmer, full nickeled brass nut and bolt. 1 doz. in box.

4 in.	Doz. **$2.10**
6 "	" **2.25**
6½-8 "	" **2.40**

6 & 3 sizes (7 and 8 in. sizes above) Assrtd 1 doz. in box
Doz. **$2.40**

RIVETED SHEAR ASST.

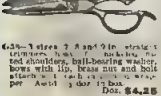


G35—3 sizes, 7, 8 and 9 in., straight trimmers, polished blades, assrtd. nam finish handles, steel rivets, each in env. Assrtd. 1 doz. in box
Doz. **$1.95**

ADJUSTABLE TENSION NUT AND BOLT SHEARS

G39—3 sizes, 6, 7 and 8 in. straight trimmers, full nickeled, brass nut and bolt, steel spring, adjustable and screw, each in env. Assrtd. 1 doz. in box
Doz. **$2.90**

"EXCELSIOR" PATENT SCREW SHEAR ASST.

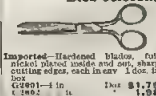


G54—3 sizes 7, 8 and 9 in. straight trimmers, brass finished, nickeled shoulders, ball-bearing washer, bows with lip, brass nut and bolt attached to each, assrtd. wrapper. Assrtd. 3 doz. in box
Doz. **$4.25**

RIVETED SCISSORS

G1 6 in. polished blades, silvered bows, steel riveted. 1 doz. in box
Doz. **$1.15**

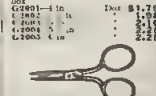
EMBROIDERY OR LACE SCISSORS



Imported—Hardened blades, full nickel plated inside and out, sharp cutting edges, each in env. 1 doz. in box

G2691—4 in.	Doz. **$1.70**
G2692—4½ in.	" **1.95**
G2693—5 in.	" **2.10**
G2694—5½ in.	" **2.25**
G2695—6 in.	" **2.25**

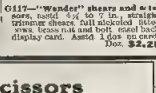
RIVETED SHEAR ASST.



G3800—Imported, 3½ in. hardened polished blades, full nickel plated, each in env. 1 doz. in box
Doz. **$1.95**

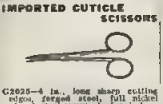
BARBERS' SHEARS

G32—8½ in., full nickeled, convex ed steel blades, steel screw, fitted bows, finger rest, each in env ½ doz. in box
Doz. **$3.95**



G 6 Barbers 8 in. full nickeled, convex ed steel blades, fitted bows, finger rest each in env ½ doz. in box
Doz. **$11.95**

IMPORTED CUTICLE SCISSORS

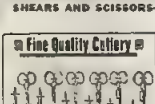


G2025—4 in., long sharp cutting edges, forged steel, full nickel plated, steel screw. ½ doz. in box
Doz. Out

AMERICAN MADE NAIL CLIPPER

G 2026—4 in., convertible full nickel plated blades, full nickel plated, sharp cutting edges, tempored spring. 1 doz. on display card
Doz. **$2.10**

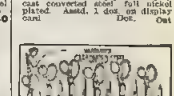
SHEARS AND SCISSORS—Assorted on Display Cards



G2021—Imported scissors, embroidery, nail, pocket and ladies' scissors, assrtd. 4½ to 5½ in., nickel plated. Assrtd. 1 doz. on display card
Doz. **$1.80**

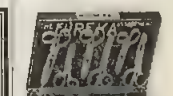
G3000—Imported shears, 3 sizes, 6, 7 and 8 in. Heavy patterns gray cast converted steel, full nickel plated. Assrtd. 1 doz. on display card
Doz. Out

G117—"Wonder" shears and scissors, assrtd. 4½ to 7 in., straight trimmer shears, full nickeled fitted bows brass rink and bolt, mixed back display card. Assrtd. 1 doz. on card
Doz. **$2.25**



G116—Shears, assrtd. 6 to 9 in., straight or bent trimmers, full nickeled, 36 etched carbonized blades, steel handles, steel screws. Assrtd. 1 doz. on easel card
Doz. **$3.95**

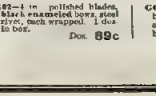
"EUREKA" SHEAR ASST.



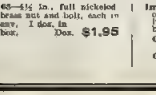
G112—3 sizes, 6, 7 and 8 in., straight trimmer, full nickeled brass nut and bolt. Assrtd 1 doz. in folding display box
Doz. **$2.10**

Big Value Pocket Scissors

Big values that will help you get the business



G62—4 in. polished blades, black enameled bows, steel rivet, each wrapped. 1 doz. in box.
Doz. **89c**



G65—4½ in., full nickeled brass nut and bolt, each in env. 1 doz. in box.
Doz. **$1.95**

Imported. Full nickel plated forged steel, sharp cutting edges, steel screw, fitted bows. ½ doz. in box.

G3023—4 in.	Doz. **$4.00**
G3024—4½ in.	Doz. **$4.50**

SAFETY RAZORS AND BLADES

The pick of the best known brands—not only of razors but of razor blades, too Push the razor blades, they sell big

AMERICAN MADE SAFETY RAZOR

G5051—Brass frame, nickeled and silver finish, guaranteed, leatherette case, 1 doz. in box.
Doz. Out

"GILLETTE" SAFETY RAZOR SETS

Old Type

This old type "Gillette" razor made to meet the competition of similar styles.

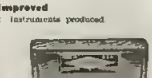
G5024—"Brownie," nickel plated holder, dull finish, 3 double edged blades in sealed pkg., imitation leather covered metal case, 1 set in carton.
Set, $0.75
Lots of 36 sets, " .67½

"ENDERS" DOLLAR SAFETY RAZOR SET

G1037—Nickel plated holder, easily adjusted frame and 6 "Enders" blades, plush lined leatherette box. Set, 87c

New Improved

The finest shaving instruments produced.

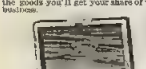


G5070—"New Standard," triple silver plated extra heavy holder, 12 double edged blades in metal box, purple velvet and satin lined genuine leather covered case, 1 set in carton.
Set, $3.75
Lots of 12 sets, " 3.37½

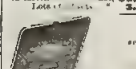
G5021—"Big Fellow," triple silver plated extra heavy holder, 12 double edged blades in metal box, selected natural finish rosewood case, 1 set in carton.
Set, $3.75
Lots of 12 sets, " 3.37

"EVER READY" SAFETY RAZOR SET

Backed by an advertising campaign that will boost sales. If you have the goods you'll get your share of the business.



G5031—"De Luxe," triple nickel plated holder, Lennox handle of the latest design, in the mahogany case with velvet lined, which has the appearance of a leather bag, etc.
Doz. Set, $6.00 70c



"Tuckaway"—Pocket size, 12 double edged blades in metal box, purple velvet and satin lined case, 1 set in carton.

G5023—Triple silver plated holder case and blade box.
Set, $3.75
Lots of 12 sets, " 3.37

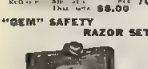
G5073—Gold plated holder, case and blade box.
Set, $4.50
Lots of 12 sets, " 4.08

"AUTOSTROP" SAFETY RAZOR SETS

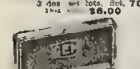
G5016—Nickel plated self-strop gang razor, "3 Valet "Auto-strop blades, 1 horsehide strop, black finished metal case, velvet lined strop in extra carton, 1 set in box.
Set, 76c

G1010—Silver plated self-stropping razor, 12 high grade blades and strop, satin lined black leather case, 1 set in carton.
Per Set, $3.75
Lots of 12 sets, " 3.37½

"GEM" SAFETY RAZOR SETS



G1117—"Standard," nickel plated holder, 6 extra blades in metal box, plush lined leatherette case, 1 set in box.
3 doz. set lots, Set, 70c
Doz. " $8.00



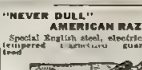
G5038—"Invincible," triple nickel plated holder and fancy rigid handle, 5 "Gem" damaskeene blades, triple nickel plated blade box, plush lined nickeled case.
Doz. sets, Set, 70c $8.00

"DURHAM DUPLEX" DOMINO RAZOR SET

G1019—Nickel plated stropper attachment and blade holder with American and hand, 1 pkg. of Gillette style wafer blades in box, 1 set in pkg.
Doz. sets, Set, 60c $7.20

"NEVER DULL" AMERICAN RAZOR

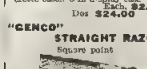
Special English steel, electrically tempered diamond ground



G378—"Master Shaver," ⅝ in. finely double hollow ground, solid gold arched tang, ridge pointer opposite, edge gold etched, black rubber handle each in leatherette case, 6 in display case.
Each, $2.25
Doz. $24.00

"GENCO" STRAIGHT RAZOR

Square point



G1015—Genco "A" thin ground, hollow ground, square point, fine temper, fine edge, black rubber handle, each in leatherette case, 6 in display case.
Each, $1.40
Doz. $14.40

KANNER'S "DOUBLEDGE" STROPPER

G9001—For "Durham" Duplex, blades, highly nickel plated, practically indestructible, 2 sides equipped with genuine horsehide. Each in highly nickel plated metal box.
Each, $2.00
Doz. $27.00

TWINPLEX "DE LUXE" ROTARY STROPPER For Gillette Blades

G1815—Heavy nickel plated case, waterproof, disappearing handle, heavy nickel plated hinged box, padded satteen lining, sharpens both edges without removing or changing the blade, 1 in pkg.
Each, $2.75
Doz. 3.50

"GEM" AUTOMATIC STROPPER

G1116—Complete with genuine leather strop. Automatically stropps every time you shave. Ever Ready, Steel, "Gem," guaranteed, 1 in box.
Each $1.35

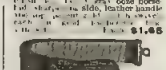
POPULAR PRICED HAZER STROPS

G1043—"Auto Strop," Finest grade shell horsehide proposition, worked into leather contains no emery or other harmful substances, 1 in box.
Each 37½c

G1802—2½x2, black horsehide finish side, filled brown canvas sharpening side, stitched flat handles, japanned swivel and loop.
Doz. $3.75

"NEVER DULL" RAZOR STROPS

G1800—Darbell "Deluxe," 2½ x 2½ inch, hollow ground, horsehide finish both sides, one corner fold sharpening side, leather handle, sharpening paste in each case, 1 in box.
Each $1.85

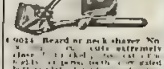


G1812—"Ready-For-Use," 2½x2½ inch, heavy double leather, fine horsehide finish side, longskin sharpening side, nickel plated clutch swivel, stitched fashioned flat leather handles, silver embossed, 1 in box.
Each, $1.75

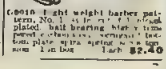
AMERICAN MADE HAIR CLIPPERS

Fancy Top—Full nickel plated, plain bottom plate, fancy oval top pattern, tempered steel teeth, coil spring, 1 in box.
Each
G9005—No. 1, ½-in. cut. $1.00
G9008—" 0, ⅝ " " .80

G9013—Beard or neck shaver, No. 00, ⅜ in. cut, full nickel plated, highly tempered cutting teeth, serrated bottom plate, coil spring, 1 in box.
Each $1.25

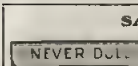


G9014—Beard or neck shaver, No. 00, ⅜ in. cut, nickel plated, highly tempered cutting teeth, serrated bottom plate, coil spring, A QUALITY clipper, 1 in box.
Each, $2.40

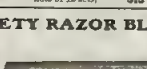


G9010—Light weight barber pattern, No. 1, ½ in. cut, full nickel plated ball bearing, high grade pivoted cutting teeth, serrated bottom plate with spring to tension, 1 in box.
Each $2.40

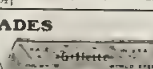
SAFETY RAZOR BLADES



G1035—"Never Dull" stitched blades for Ever Ready, Jr. and other similar razors, 5 blades in envelope, 1 to a box.
Box Out $2.00



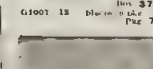
G1038—"Enders," standard quality, 5 blades in pkg.
Pkg 26c



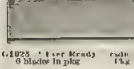
Gillette — Wafer thin, double strop, extremely hard, require no stropping.
G1908—6 blades in box.
Box 37½c
G1907—12 blades in pkg.
Pkg 75c

G5039—Imported, wafer thin, double edge blades, 1 doz. in box.
Box Out

G1115—"Gem" triple silver plated Damaskeene steel, 7 blades in waterproof pkg.
1 pkgs. in box.
Pkg $0.35
14 pkgs. in box.
" .33
33 pkgs. in box.
" .31



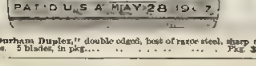
"Auto Strop"—Finest steel, each blade in moisture proof wrapper
G1941—5 blades in pkg.
Box 37½c



G1925—"Ever Ready" triple steel, 6 blades in pkg.
Pkg 29c

G1902—"Ever Ready," as above, 24 pkgs. on metal display card.
CARD (24 pkgs.) $6.72

Lots of 6 cards.
CARD (24 pkgs.) $6.24

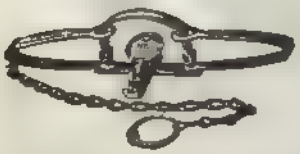


G1017—"Durham Duplex," double edged, best of razor steel, sharp cutting edges, 5 blades, in pkg.
Pkg 37c

Prices on Application

NEWHOUSE GAME TRAPS

STEEL WITH CHAIN



SINGLE SPRING

No. 0N—Rat, 3½ in., w't per doz. 7¾ lbs. .....per dozen $9.50

No. 1N—Muskrat, 4 in., w't per doz. 10 lbs. .....per dozen $11.25

No. 1½N—Mink, 4⅝ in., w't per doz. 15 lbs. .....per dozen $17.00

DOUBLE SPRING

No. 2N—Fox, 4⅝ in., w't per doz. 18 lbs. .....per dozen $25.10

No. 3N—Otter, 5⅜ in., w't per doz. 28 lbs. .....per dozen $33.50

No. 4N—Beaver, 6¾ in., w't per doz. 38 lbs. .....per dozen $39.50

DOUBLE SPRING WITH TEETH

These traps are most carefully made in every detail, of the finest materials and are all thoroughly tested and guaranteed in every way.

No. F5N—Bear, 11¾ in., w't per doz. 234 lbs.★ .....per dozen $313.25

No. F6N—Grizzly Bear, 16 in., w't per doz. 525 lbs.★ per dozen $705.00

NOS. 0-N AND 1-N, TWENTY DOZEN IN A CASE; NO. 1½-N, TWENTY-FIVE; NO. 2-N, FIFTEEN; NO. 3-N, TEN, AND NO. 4-N, SEVEN DOZEN IN A BARREL

ONEIDA JUMP TRAPS

STEEL WITH CHAIN

DOUBLE JAW WITH CHAINS

No. 91J—Muskrat or skunk, 4⅝ in., single spring, w't per doz. 8 lbs., per dozen $5.60

TWELVE DOZEN IN A CASE

SINGLE SPRING WITH CHAIN

Light compact, quality guaranteed.

No. 0J—Rat or Gopher, 4 in., w't per doz. 5½ lbs. ....per dozen $4.15
No. 1J—Muskrat, 4⅝ in., w't per doz. 8 lbs. .....per dozen $5.50
No. 1½J—Mink, 5¼ in., w't per doz. 10 lbs. .....per dozen $8.25
No. 2J—Fox, 5½ in., w't per doz. 15 lbs. .....per dozen $13.00
No. 3J—Coyote or Badger, 6½ in., w't per doz. 22 lbs., per doz. $17.75

NOS. 0-J, 1-J AND 1½-J, TWELVE DOZEN IN A CASE; NO. 2-J, TWENTY; NO. 3-J TWELVE IN A BARREL

VICTOR GAME TRAPS

STEEL WITH CHAIN

SINGLE SPRING

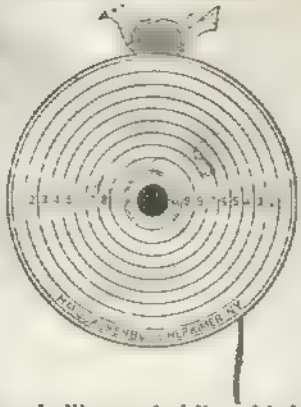
No. 0V—Rat, 3½ in., w't per doz. 5 lb. ... .per dozen $3.40
No. 1V—Muskrat, 4 in., w't per doz. 7½ lbs. .....per dozen $4.00
No. 1½V—Mink, 4⅝ in., w't per doz. 11 lbs. .....per dozen $6.10

DOUBLE SPRING

No. 2V—Fox, 4⅝ in., w't per doz. 14 lbs. .....per dozen $8.40
No. 3V—Otter, 5½ in., w't per doz. 2 2lbs. .....per dozen $14.30
No. 4V—Beaver, 5⅞ in., w't per doz. 24 lbs. .....per dozen $.....

PACKED IN BARRELS, NO. 0V, FIFTY-FIVE DOZEN, NO. 1V, FORTY, NO. 1½V, TWENTY-FIVE; NO. 2V, FIFTEEN; NO. 3V, TEN; NO. 4V, SEVEN DOZEN.

GALLERY TARGETS



When bull's-eye is hit, a bird rises and the bell, similar in sound to an electric ball, rings a few seconds.

While designed for the use of 22 caliber cartridges, the spring may be quickly adjusted for service as an air rifle target.

We can furnish No. 3 Targets with ⅜ in., ⅝ in. and 1 in. bull's eyes at same price for shipment from factory.

No. 3—Round, diam. 12 in., ¼ in. thick, with bell and image, made of a grade of metal particularly adapted to stand cartridges with ⅝ in. diam. bull's eye, w't 12 lbs. ..each $7.50

Plain round, diam. 12 in., ringing gong when bull's eye is hit, self-setting.

The construction of the target's surface brings out each numbered circle clearly, thus aiding the marksman in locating his shot.

No. 19—¾ in. iron, ½, ⅝, ¾ and 1 in. open bull's eye, for 22 caliber cartridges, w't 20 lbs. .....each $4.50

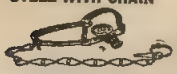
Heavy iron, made for outdoor shooting, for 22 caliber cartridges, birds and stars falling back when hit, re-set by rope from stand.

These targets are substantially made, and will stand extreme wear, and tear. The heavy metal objects have their weights so evenly distributed that the entire target is reset with a slight tug at the rope.

No. 0116—6 objects to shoot at, w't 13½ lbs. .....each $4.00
No. 0118—8 objects to shoot at, w't 23 lbs. .....each $5.00

★ Items Marked Thus ★ Are Shipped from Factory Only.

VICTOR GAME TRAPS
STEEL WITH CHAIN



SINGLE SPRING

No. 0V—Rat, 3½ in., w't per doz. 5 lbs., per dozen $3.40

No. 1V—Muskrat, 4 in., w't per doz. 7½ lbs. .....per dozen $4.00

No. 1½V—Mink, 4½ in., w't per doz. 11½ lbs. .....per dozen $6.10

DOUBLE SPRING

No. 2V—Fox, 4½ in., w't per doz. 13½ lbs. .....per dozen $8.40

No. 3V—Otter, 5½ in., w't per doz. 21½ lbs. .....per dozen $14.30

No. 4V—Beaver, 5½ in., w't per doz. 24½ lbs. .....per dozen $17.20

PACKED IN BARRELS, NO. 0V, FIFTY-FIVE DOZEN; NO. 1V, FORTY; NO. 1½V, TWENTY-FIVE; NO. 2V, SIXTEEN; NO. 3V, TEN, NO 4V, SIXTEEN

VICTOR GIANT TRAPS

WITH CHAIN

The height of jaw is such that it catches high on animals' leg, jaws have great holding power.

No. 1VG—Muskrat, Skunk and Mink, spread of jaws 4½ in., w't per doz. 8½ lbs. .....per dozen $5.10

THIRTY-THREE DOZEN IN A BARREL

VICTOR DOUBLE GRIP TRAPS

WITH CHAIN

The double jaw has a double grip, thus making it practically impossible for the animal to twist or gnaw out.

No. 91V—Skunk, Muskrat and **Mink,** spread of jaws 4½ in., w't per doz. 8½ lbs. ....per dozen $6.34

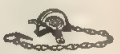
THIRTY-FOUR DOZEN IN A BARREL

ONEIDA JUMP TRAPS

Double Jaw with Chains.

No. 91J—Muskrat or skunk, 4½ in., single spring, w't per doz 8½ lbs., per dozen $7.50

Take an easy, firm grip so high up cannot twist or gnaw out. Rarely break leg bones because of double surfaces.



Single Spring with Chain.

No. 0J—Rat or Gopher, 4 in., **single spring,** w't per doz. 5½ lbs., per dozen $4.75

No. 1J—Muskrat, 4½ in., **single spring,** w't per doz. 8 lbs., per dozen $5.50

No. 1½J—Mink, 5½ in., **single spring,** w't per doz. 9½ lbs., per dozen $8.25

No. 2J—Fox, 5½ in., **single spring,** w't per doz. 14 lbs., per dozen $13.00

No. 3J—Coyote or Badger, 6½ in., **single spring,** w't per doz. 22 lbs., per dozen $17.75

Light, compact, quality guaranteed.
NOS. 0J, 1J AND 1½J, TWELVE DOZEN IN A CASE; NO. 2J, TWENTY; NO. 3J, TWELVE IN A BARREL

NEWHOUSE TRAPS

No. 2N.

No. 0N—Rat, 3½ in., **single spring,** w't per doz. 7½ lbs., per dozen $9.50

No. 1N—Muskrat, 4 in., **single spring,** w't per doz. 10 lbs., per dozen $11.25

No. 1½N—Mink, 4½ in., **single spring,** w't per doz. 14 lbs., per dozen $17.00

No. 2N—Fox, 4½ in., **double spring,** w't per doz. 18 lbs., per doz. $25.10

No. 3N—Otter, 5½ in., **double spring,** w't per doz. 28½ lbs., per dozen★ $33.50

No. 4N—Beaver, 6½ in., **double spring,** w't per doz. 38 lbs., per dozen $39.50

No. F5N—Bear, 11½ in., double spring with teeth, w't per doz. 234 lbs., per dozen★ $313.25

No. F6N—Grizzly Bear, 16 in., double spring with teeth, w't per dozen 522 lbs.★ .....per dozen $705.00

These traps are most carefully made in every detail, of the finest materials and are all thoroughly tested, guaranteed in every way.

NOS. ON AND 1N, TWELVE DOZEN IN A CASE; NO. 1½N, TWENTY FIVE, NO. 2N, FIFTEEN, NO. 3N, TEN DOZEN IN A BARREL; NO. 4N, SEVEN DOZEN IN A BARREL

Our Very Best is the Very Best.

★ **Items Marked Thus ★ are Shipped from Factory Only.**

Prices on Application

NEW HAVEN CLOCKS

WOOD LEVER, 8 day, time only, solid oak or mahogany finish case.

No. P1334— 8 in. dial, w't 9 lbs., each $10.15

No. P1335—8 in. dial, w't 12 lbs., each $11.90

No. P1336—10 in. dial, w't 14 lbs., each $13.10

No. P1337—12 in. dial, w't 18 lbs., each $14.50

ONE IN A CASE

GALLERY, diameter of case 21⅛ in., dial 14 in., solid oak or walnut case.

No. P1341—8 day time, each $32.00

No. P1342—30 day time, each $36.35

ONE IN A CASE, W'T 35 LBS.

BALCONY, 12 in. dial, height 15 in., width 15 in., 8 day time, oak or mahogany finish, w't 16 lbs.

No. P1396—Each $16.00

BALCONY, 14 in. dial, height 19 in., width 19 in., 14 in. dial, 8 day time, oak or mahogany finish, w't 31 lbs.

No. P1397—Each $18.85

ONE IN A CASE

DROP OCTAGON, height 21⅛ in., width 13⅞ in., 10 in. dial, solid oak case.

No. P1348—8 day timepiece, each $12.60

No. P1349—8 day strike, each $14.10

Fitted with calendar, extra, each $0.60

ONE IN A CASE. W'T 18 LBS.

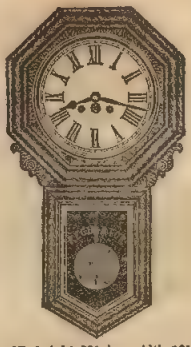
DROP OCTAGON, height 23⅝ in., width 16¼ in., 12 in. dial, solid oak case.

No. P1351—8 day timepiece, each $13.75

No. P1352—8 day strike, each $15.25

Fitted with calendar, extra, each $0.60

ONE IN A CASE. W'T 21 LBS.



ERIE, height 33½ in., width 18½ in., 12 in. dial, solid oak case, antique finish.

No. P1354—8 day timepiece, each $15.25

No. P1355—8 day strike, cathedral each $17.45

Fitted with calendar, extra, each $0.60

ONE IN A CASE. W'T 34 LBS.

GALLERY, 12 in., height 16 in., width 16 in., 12 in. dial, 8 day time, oak mahogany finish, w't 16 lbs.,

No. P1393—Each $16.00

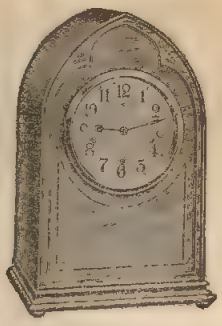
ONE IN A CASE

Prices on Application

CHIME MANTEL CLOCKS

No. P1405—Ingomar chime, height 10 in., width 20½ in., 7 in. silver dial, cast sash, beveled glass, solid mahogany case, chimes the hour, quarter, half and three-quarter hour on rod chimes, w't 35 lbs. .....each *$20.00*

ONE IN A CASE



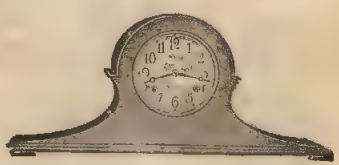
No. P1406—Inglewood chime, height 12½ in., width 9½ in., 7 in. silver dial, cast sash, beveled glass, solid mahogany case, chimes the hour, quarter, half and three-quarter hour on rod chimes, w't 35 lbs., each *$72.00*

ONE IN A CASE

NEW HAVEN SOLID MAHOGANY MANTEL CLOCKS

No. P20—Tambour, height 9½ in., width 20½ in., 6 in. silver dial, beveled glass cast sash, solid mahogany case, 8 day, hour and half hour cathedral gong strike, w't 27 lbs. .....each *$39.15*

ONE IN A CASE



No. P19—Tambour, height 8¾ in., width 19¾ in., 6 in. silver dial, beveled glass cast sash, solid mahogany case, 8 day, hour and half hour cathedral gong strike, w't 27 lbs. .....each *$39.15*

ONE IN A CASE

HALL OR OFFICE HANGING CLOCKS

NEW HAVEN

MARNE

Fancy Pattern, Fumed Oak Case, Heavy Glass Front Trimmed with Fancy Wood Lattice; Silver Finish Dial; High Grade Movement with Polished Brass Pendulum; Black Arabic Numerals.

Each

No. W3055A4—30 Day Time, No Strike; 10 in. Dial; Height 37 in.; Width 16 in. $33.40

Weight 40 Lbs. Each

MIRADA

Dull Mahogany Finish Case, Artistically Carved; Leaded Glass Front, Silver Finish Dial; Highest Grade Movement with Silver Plated Pendulum; Black Arabic Etched Numerals. Each

No. W3055B4—8 Day, Half Hour Strike; Cathedral Gong; 8 in Dial; Height 28¾ in.; Width 12 in.....$29.00

Weight 30 Lbs. Each

RIVERTON

Plain Pattern, Solid Oak Case, Heavy Glass Front; Enameled Dial; High Grade Movement with Polished Brass Pendulum; Black Arabic Numerals. Each

No. W3055C4—8 Day Time, No Strike; 12 in Dial; Height 34½ in.; Width 16 in.....$31.00

Weight 40 Lbs. Each

Golden Oak Case, Brass Sash; Enameled Dial; Decorated Glass Lower Door; Pendulum Movement; Roman Numerals.

Each

No. W3055D—Drop Octagon; 8 Day Time; No Strike; 12 in. Dial; Height 24 in.; Width 16½ in.....$13.80

Weight 23 Lbs. Each

Solid Oak Case, Polished Finish; Ornamental Top and Base; Heavy Glass Front Door; Pendulum Movement; Arabic Numerals. Each

No. W3055E—Referee; 8 Day Time; No Strike; 12 in. Dial; Height 35⅛ in.; Width 16 in.....$16.00

No. W3055E2—Referee; 8 Day Time with the Calendar Attachment on Dial showing the date of month which automatically changes each day; Otherwise same as above..... 16.60

Weight 38 Lbs. Each

Highly Polished Oak Case; Polished Brass Sash; Pendulum Movement; Black Roman Numerals.

Each

No. W3055F—Erie; 8 Day Time; No Strike; 12 in. Dial; Height 33½ in.; Width 18½ in.....$15.30

Weight 33 Lbs Each

KITCHEN CLOCK ASSORTMENTS

Polished Mahogany Finish; Polished Brass Sach; Enameled Dial; Pendulum Movement; Arabic Numerals; Assorted Three Designs.

Per Assortment

No. W3055P—8 Day Time; Hour and Half Hour Strike; Cathedral Gong; 5 in. Dial; Height 9¼ in.; Width 11 in. $24.40

Weight 9 Lbs. Each

ENGINE ROOM OR WALL CLOCKS

WOOD LEVER

8 Day Time; No Strike; Octagon Pattern, Enameled Dial, Lever Movement; For Kitchen, Stores, Offices or where Pendulum Clocks are not practical, Lever Clock will run in any position.

Each

No. W3055H—Solid Mahogany Case; Size of Dial 8 in.$11.90

No. W3055J—Solid Oak Case, Size of Dial 10 in..... 13.10

Weight 13 Lbs. Each

WHITE ENAMEL

8 Day Time; No Strike; Octagon Pattern, Enameled Dial, Lever Movement; For Kitchen, Offices, Stores or where Pendulum Clocks are not practical, Lever Clocks will run in any position.

Each

No. W3055K—White Enameled Case; Size of Dial 8 in..$14.10

Weight 13 Lbs. Each

CANTON METAL

Heavily Nickel Plated Brass Case; White Enameled Dial; Lever Time Movement; Roman Numerals; For use in Boiler Rooms, or where the heat is intense.

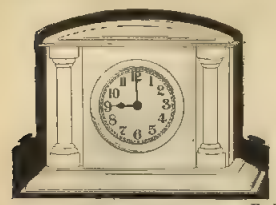
Each

No. W3055M—8 Day Time; No Strike, 8 in Dial.....$11.90

Weight 11 Lbs. Each

WHITE IVORY NOVELTY CLOCKS

There is nothing in better keeping in the Boudoir, than a dainty and attractive White Ivory Clock. Those illustrated on this page are all of the very Latest and most Desirable Designs. The Movements are American Made and Accurate Timekeepers



Each

No. 3058A—1 Day Time Movement; Heavy Stock Ivory Case; Grecian Architectural Pattern; Large Arabic Numerals; Width 9½ in., Height 6¾ in., 3 in Dial.....$15.00

Weight 2½ Lbs. Each

Each

No. 3058B—1 Day Intermittent Alarm Movement; Heavy Stock Ivory Case; Grecian Architectural Pattern; Arabic Numerals; Width 8 in., Height 4¾ in., 1⅞ in. Dial.....$15.00

Weight 1¾ Lbs. Each

Each

No. 3058C—1 Day Time Movement; Heavy Stock Ivory Case; Large Dial, with Large Plainly Visible Arabic Numerals; Width 9¾ in., Height 6¾ in., 2 in. Dial.....$12.00

Weight 2 Lbs. Each

Eacl.

No. 3059D—1 Day Alarm Movement; Silver Finish Dial with Radium Treated Hands and Numerals; Seamless Shell Ivory Case with Heavy Stock Base; Width 6¾ in., Height 5½ in., 3½ in. Dial.....$13.00

Weight 1½ Lbs. Each

Each

No. 3058E—8 Day Intermittent Alarm Movement; Heavy Stock Ivory Case; Tambour Shape; Arabic Numerals; Width 7½ in., Height 4¼ in., 1⅞ in. Dial..... $14.50

Weight 1 Lb. Each

Each

No. 3058F—1 Day Time Movement; Heavy Stock Ivory Case; Plain Pattern; Arabic Numerals; Width 6½ in., Height 5⅛ in., Dial 2¼ in....$8.50

Weight 1⅛ Lbs. Each

Each

No. 3058H—1 Day Intermittent Alarm Movement; Plain Dial; Heavy Stock Ivory Case; Arabic Numerals; Width 4½ in.; Height 4½ in.; 1⅝ in. $12.00

No. 3058H2—Radium Dial; 1 Day Time Movement; Otherwise same as above 7.50

Weight ½ Lb. Each

Each

No. 3058J—1 Day Time Movement; Heavy Stock Ivory Case; Arabic Numerals; Width 7¼ in., Height 4 in., 1¾ in. Dial.....$9.50

Weight ½ Lb. Each

Each

No. 3058K—Radium Dial; 1 Day Time Movement; Heavy Stock Ivory Case; Arabic Numerals; Width 4½ in., Height 4½ in., 1⅞ in. Dial...$9 00

No. 3058K2—1 Day Intermittent Alarm Movement; Plain Dial; Otherwise same as above. 12.00

Weight ½ Lb. Each

Each

No. 3058L—1 Day Time Movement; Heavy Stock Ivory Case; Grecian Architectural Pattern; Arabic Numerals; Width 6 in., Height 4¾ in., 1⅞ in. Dial..... .....$9.00

Weight ¾ Lb. Each

Each

No. 3058M—1 Day Time Movement; Silver Finish Dial; Radium Treated Hands and Numerals; Tambour Shape; Heavy Stock Ivory Case; Width 7¼ in., Height 3½ in., 1¾ in. Dial $9.00

No. 3058M2—Plain Dial; Otherwise same as above 9.00

Weight ½ Lb. Each

Each

No. 3058P—1 Day Time Movement; Heavy Stock Ivory Case; Du Barry Pattern; Footed Extension Base; Arabic Numerals; Width 4¼ in., Height 4 in., 1¾ in. Dial.....$8.50

Weight ⅝ Lb. Each

All Above, One in Box

Prices on Application

NEW HAVEN REGULATOR CLOCKS

REGULATOR, height 32¾ in., width 17¾ in., dial 12 in., oak or mahogany case.

No. P1360—8 day timepiece, each $18.85

No. P1361—8 day strike, each $21.00

ONE IN A CASE. WT 35 LBS.

No. P1389—Stanton, height 64 in., width 21 in., dial 12 in., solid oak or mahogany case, 8 day time piece, weight movement with retaining power, w't 100 lbs., each $110.00

ONE IN A CASE

No. P1407—Welton, height 23½ in., width 7¾ in., 5 in. porcelain dial, solid mahogany case, 8-day time pendulum movement ..each $34.80

ONE IN A CASE. WT 25 LBS

WILLIS, height 17⅞ in., width 5 in., solid mahogany case with cast metal side ornaments and decorated glass panels, dial 3½ in., porcelain with beveled glass.

No. P1367—8 day lever timepiece, each $20.30

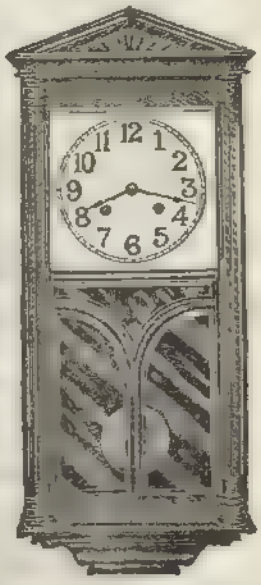
ONE IN A CASE. WT 15 LBS.

SATURN, height 34¾ in., width 15¼ in., dial 12 in., solid antique oak or mahogany case.

No. P1368—30 day time, each $32.60

No. P1369—8 day time weight, each $41.25

ONE IN A CASE. WT 40 LBS.



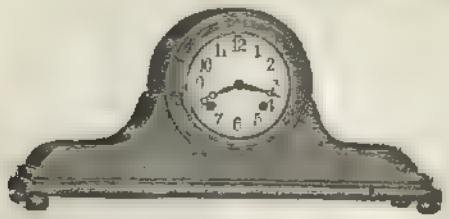
MIRADA, height 28¼ in., width 12 in., silver finish, 8 in. dial, mahogany finish or oak case.

No. P1370—8 day strike, cathedral gong .....each $29.00

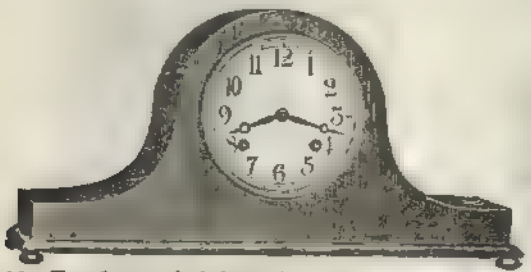
ONE IN A CASE. WT 20 LBS.

Prices on Application

NEW HAVEN CLOCKS

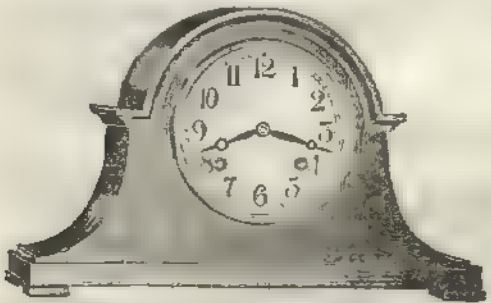


No. P52—Tambour, height 9½ in., width 21¼ in., 6 in. white metal dial, brass sash, convex glass, 8 day, hour, and half hour cathedral gong strike, mahogany finished case, w't 24 lbs. .....each *$20.30*



No. 16—Tambour, height 9 in, width 18 in , 6 in. metal dial, bowed glass, 8 day half hour cathedral gong strike, mahogany finished case, w't 25 lbs. .....each *$20.30*

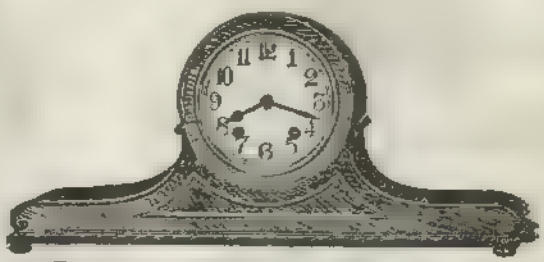
No. 1377—Auston, height 10½ in., width 8¾ in., 6 in. bowed glass dial, mahogany finish case, 8 day, half hour gong strike, w't 15 lbs. .....each *$16.00*



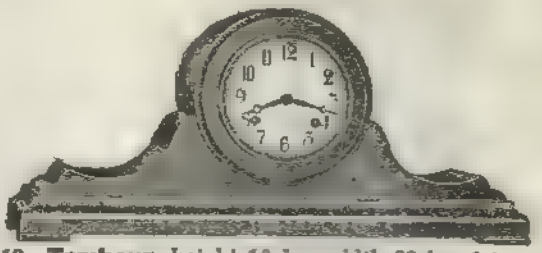
No. 1379—Author, height 9 in., width 14½ in., 6 in. bowed glass dial, mahogany finish case, 8 day, half hour gong strike, w't 20 lbs. .....each *$20.30*

ONE IN A CASE

No. P50—Tambour, height 9½ in., width 18 in., 6 in. white metal dial, brass sash, convex glass, 8 day, hour, and half hour cathedral gong strike, mahogany finished case, w't 24 lbs. .....each *$17.40*



No. 18—Tambour, height 9 in., width 19 in., 6 in. porcelain dial, beveled bowed glass, cast sash, solid mahogany case, 8 day, half hour cathedral gong strike, w't each 24 lbs. .....each *$50.75*



No. 13—Tambour, height 10 in., width 22 in., 6 in. metal dial, bowed glass, mahogany finish, 8 day, half hour strike, cathedral gong, w't each 13 lbs., each *$23.90*

No. P1408—Corning, height 9¾ in., width 9¾ in., 6 in. white metal dial, brass sash, 8 day, hour, and half hour cathedral gong strike, mahogany finished case, w't 18 lbs. .....each *$10.90*

ONE IN A CASE

Prices on Application

NEW HAVEN REGULATOR CLOCKS

REGULATOR, height 32¼ in., width 17⅞ in., dial 12 in., oak or mahogany case.

No. P1360—8 day timepiece, each *$18.85*

No. P1361—8 day strike, each *$21.00*

ONE IN A CASE. WT 35 LBS.

No. P1389—Stanton, height 64 in., width 21 in., dial 12 in., solid oak or mahogany case, 8 day time piece, weight movement with retaining power, w't 100 lbs., each *$110.00*

ONE IN A CASE

No. P1407—Welton, height 28⅛ in., width 7⅜ in., 5 in. porcelain dial, solid mahogany case, 8-day time pendulum movement ..each *$34.80*

ONE IN A CASE. WT 25 LBS.

WILLIS, height 17⅞ in., width 5 in., solid mahogany case with cast metal side ornaments and decorated glass panels, dial 3⅜ in., porcelain with beveled glass.

No. P1367—8 day lever timepiece, each *$20.30*

ONE IN A CASE. WT 15 LBS.

SATURN, height 34¼ in., width 15½ in., dial 12 in., solid antique oak or mahogany case.

No. P1368—30 day time, each *$32.60*

No. P1369—8 day time weight, each *$41.25*

ONE IN A CASE. WT 40 LBS.

MIRADA, height 28¼ in., width 12 in., silver finish, 8 in. dial, mahogany finish or oak case.

No. P1370—8 day strike, cathedral gong .....each *$29.00*

ONE IN A CASE. WT 29 LBS.

Prices on Application

NEW HAVEN CLOCKS

No. P52—Tambour, height 9¼ in., width 21¼ in., 6 in. white metal dial, brass sash, convex glass, 8 day, hour, and half hour cathedral gong strike, mahogany finished case, w't 24 lbs. .....each *$20.30*

No. 16—Tambour, height 9 in, width 18 in., 6 in. metal dial, bowed glass, 8 day half hour cathedral gong strike, mahogany finished case, w't 25 lbs. .....each *$20.30*

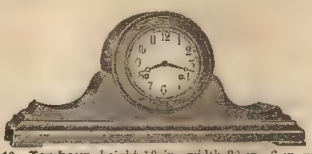
No. 1377—Auston, height 10¾ in., width 8¾ in., 6 in. bowed glass dial, mahogany finish case, 8 day, half hour gong strike, w't 15 lbs. .....each *$16.00*

No. 1379—Author, height 9 in., width 14½ in., 6 in. bowed glass dial, mahogany finish case, 8 day, half hour gong strike, w't 20 lbs. .....each *$20.30*

ONE IN A CASE

No. P50—Tambour, height 9¼ in., width 18 in., 6 in. white meta. dial, brass sash, convex glass, 8 day, hour, and half hour cathedral gong strike, mahogany finished case, w't 24 lbs. .....each *$17.40*

No. 18—Tambour, height 9 in , width 19 in., 6 in. porcelain dial, beveled bowed glass, cast sash, solid mahogany case, 8 day, half hour cathedral gong strike, w't each 24 lbs. .....each *$50.75*



No. 13—Tambour, height 10 in., width 22 in., 6 in. metal dial, bowed glass, mahogany finish, 8 day, half hour strike, cathedral gong, w't each 13 lbs., each *$23.90*

No. P1408—Corning, height 9⅜ in., width 9⅜ in., 6 in. white metal dial, brass sash, 8 day, hour, and half hour cathedral gong strike, mahogany finished case, w't 18 lbs. .....each *$10.90*

ONE IN A CASE

NEW HAVEN CLOCKS

Prices on Application

No. P1402—Julian, height 21 in., width 7½ in., 6 in. silver dial, 8-day hour and half hour cathedral gong strike, mahogany finished case, w't 25 lbs. .....each *$26.10*

ONE IN A CASE

No. P1403—Marino, height 26 in., width 11 in., 8 in. silver dial, beveled plate glass, 8 day hour and half hour cathedral gong strike, mahogany finished case, w't 29 lbs., each *$26 85*

ONE IN A CASE

No. P1404—Juneau, height 20¾ in., width 8 in., 6 in. silver dial, 8-day hour and half hour cathedral gong strike, mahogany finished case, w't 25 lbs. .....each *$21.00*

ONE IN A CASE

WARING, height 38 in., width 11¼ in., 8 in. silver finish dial, decorated glass panels, mahogany finished case, w't 26 lbs.

No. P1390—8 day time, each *$37.50*

No. P1391—8 day gong strike, each *$29.70*

ONE IN A CASE

REFEREE, height 35¾ in., width 16 in., 12 in. dial, solid oak case.

No. P1357—8 day **timepiece,** each *$16.00*

No. P1358—8 day **strike, gong,** each *$18.20*

Fitted with calendar, extra, each *$0.60*

ONE IN A CASE. WT 45 LBS.

Height 42 in., width 16¾ in., 12 in. dial, mahogany finish or oak case, w't 44 lbs.

No. P3043—8 day time, each *$21.00*

No. P3043½—8 day, gong strike, each *$23.20*

ONE IN A CASE

CLOCKS

Western Clock Co.'s.

America—Height 6½ in., 4 in. dial with alarm indicator, nickel plated tin case, knurled front, hard steel pinion and pivots, fine hard steel lever escapement, 1 day movement, continuous alarm, rings loud and clear, nickel plated bell, brass shut-off switch, w't per doz. 12 lbs., per dozen $23.55

ONE IN A BOX; FORTY-EIGHT IN A CASE, W'T 75 LBS.

Western Clock Co.'s.

Lookout—Height 6 in., solid seamless brass case, tapering from a 4 in. polished back into a 2½ in. ivory white dial, fitted with 1 day movement, loud and clear continuous alarm with shut-off switch, w't 17 oz. nickel plated or polished brass finish, w't per doz. 13½ lbs. . .per dozen $27.35

Every clock is put up in an individual cardboard box.

12 clocks in a carton assorted 6 each, nickel plated and polished brass, shipping w't 13½ lbs.; 48 clocks, four cartons, assorted in a case, shipping w't 80 lbs.

Western Clock Co.'s.

Sleepmeter—Height 5½ inches, width 4 in., dial 3½ in., seamless brass case, nickel plated, 3½ in. bell metal gong on back, 1 day movement, continuous alarm with shut-off switch, w't per doz. 18 lbs., per dozen $31.20

ONE IN A BOX; FORTY EIGHT IN A CASE. SHIPPING WT 32 LBS.

Bunkie—Intermittent. height 6 in., width 4½ in., seamless brass case, nickel plated, one day movement, metal gong on back rings intermittently every 25 seconds for 3½ minutes, shut-off attachment directly above the bell, w't per doz. 18 lbs., per dozen $42.95

ONE IN A BOX, FORTY-EIGHT IN A CASE. SHIPPING W'T 72 LBS.

Western Clock Co.'s.

Has ten minute intermittent alarm, pleasing and effective in tone, large easy turning winding keys, put up in an attractive pasteboard box. The Bingo Alarm Clock is made by "Westclox," the makers of the well known "Big Ben."

Bingo—Height 6½ in., 4½ in. dial, seamless brass case, beautifully nickel plated, 4½ in. alarm gong at back, w't each 1½ lbs., per doz. $50 65

ONE IN A BOX, FORTY EIGHT IN A CASE. W'T 84 LBS.

WESTCLOX JACK O'LANTERN

Tells the time in the dark and in the daylight. Distinctive brass case heavily nickel plated. Height 5 in., 4 in. black dial with luminous numerals. 1 day movement, loud steady alarm with shut-off switch. Keeps good time.

Jack O'Lantern—W't per doz. 19 lbs. .....per dozen $46 80

ONE IN AN ATTRACTIVE BOX FORTY-EIGHT IN A CASE.

Western Clock Co.'s.

The whole works are enclosed in the cast iron armor. Proof against dust and hard knocks. No projecting bell to be broken or bent.

Ironclad—Height 5 in., 2½ in. dial, with knurled brass bezel, heavy bronze plated cast iron case with fancy front and copper color base, hard steel pinion and pivots, fine hard steel lever escapement, 1 day movement, continuous alarm, loud and clear, with shut-off switch, w't per doz 33 lbs. .per dozen $36.05

ONE IN AN ATTRACTIVE PASTEBOARD BOX; FORTY-EIGHT IN A CASE. W'T 150 LBS.

"Westclox Alarm" Clocks.

On all orders for "WESTCLOX" either all one kind or assorted when shipped direct from the factory at LaSalle, Ill., FULL FREIGHT WILL BE ALLOWED WHEN WEIGHT IS 100 LBS. OR MORE.

NO FREIGHT ALLOWANCE on shipments weighing less than 100 lbs when shipped direct from factory.

NO FREIGHT ALLOWANCE on clocks shipped from our stock. All clocks shipped from our stock are F. O. B Chicago.

It is permissible to assort SLEEPMETER and JACK-O'LANTERN CLOCKS TO OBTAIN QUANTITY PRICE; BALANCE OF CLOCKS CANNOT BE ASSORTED SO AS TO OBTAIN QUANTITY PRICE.

SCROLL SAWS

NEW ROGERS, japanned iron frame, striped in red and gold, japanned tilting-table, selected ash arms and Pitman, steel arbors, carefully fitted to bearings, 4½ in. iron balance wheel, with drilling attachment, improved saw clamps, height of table 32 in. The swing around the table under the arms is 84 in., complete with 1 dozen 5-in. bracket saw blades, wrench, sheet of designs and drill points, w't 25 lbs., boxed for shipment 42 lbs.

No. T2—With Emery flywheel, each $20.00

ONE IN A BOX, SHIPPED KNOCKED DOWN

For carpenters and builders, cabinet makers and other wood workers. Will saw pine 2 in. thick, 1 ft. per minute; 1 in. thick, 4 ft. per minute.

The swing around the blade under the arm is 24 in.

No. F7—Cast iron frame, hard maple table and arms, balance wheel runs on steel arbor, 7 in. blade, complete with 1 dozen saw blades, w't 55 lbs., boxed for shipment 80 lbs., each★ $68.50

ONE IN A BOX, SHIPPED KNOCKED DOWN

VELOCIPEDE SCROLL SAWS

Cast iron frame, hard maple table and arms, balance and drive wheels run on steel arbors, 7 in. blade, with one dozen blades, w't 90 lbs., boxed for shipment 130 lbs.

No. F2—Without boring attachment, each★ $76 00

No. F2B—With boring attachment, including one 5/16 in. bit, each★ $85.50

Swing around blade under arm is 24 in. Boring attachment can be furnished at any time. We furnish extra bits at following prices, each: 1/16, 15c.; 3/32, 15c.; 1/8, 20c.; 5/32, 20c.; 3/16, 25c.; 7/32, 30c.; 1/4, 35c.

ONE IN A BOX, SHIPPED KNOCKED DOWN

COMBINED CIRCULAR AND SCROLL SAWS

Showing Circular Saw Only.

Neither circular nor scroll saw interferes with successful operation of the other. Capacity of scroll saw is same as that of No. 7. Table can be adjusted up or down by a cam, to allow any desired depth of cut being made by saws or cutter tools. Circular saws are 6 in. in diam. and reach 1¾ in. above the table. W't boxed for shipment 350 lbs.

No. F25—Circular saw only—with two 6 in. saws—without attachments, each★ $161.50

No. F26—Scroll saw attachment—1 dozen saws, extra★ ....each $19.00

No. F27—Boring attachment, with drill chuck, extra★ .....each $28.50

No. F28—Combined machine, complete with attachments, each★ $190 00

ONE IN A BOX, SHIPPED KNOCKED DOWN

CIRCULAR SAWS

Iron and steel frame, 30x30 in. iron table, complete with self-feed, two 10 in. circular saws—1 each rip and cross-cut, w't 400 lbs., crated 480 lbs.

Hand and foot power for hard or soft, thick or thin lumber. Can be used as a cross-cut saw. Self-feed mechanism can be instantly thrown back to rear of machine, also rip gauge, leaving table perfectly clear for cut-off work. Can be used for rabbeting and grooving. The self-feed can be used for grooving and rabbeting as well as when the machine is used for ripping. Cutter heads are also used for graining and dadoing and with knives of suitable width for joining. Can be provided with boring attachment which is the same as used on the combined machine.

No. F4—For Foot Power, each★ $285.00

No. F5—With countershafts, for steam instead of foot power, each★ $285.00

BORING ATTACHMENTS

No. F6—each★ $28.50

COUNTERSHAFTS

No. F7C—Countershaft and belt pulleys★ $28.50

ONE IN A BOX, SHIPPED KNOCKED DOWN

★ Items Marked Thus ★ Are Shipped From Factory Only.

LATHES

Cut showing portion of No. 9 Screw Cutting Engine Lathe.

Barnes all iron and steel, velocipede foot power.

Swings 11 in. on the face plate, 6½ in. over the tool carriage, and is 34 in. between centers. Back-gearing and cone pulleys give great range of speed. Head stock has a steel spindle with 1 9/32 in. hole through its entire length. Tail stock can be readily set at any desired point, and can be taken off altogether, leaving it free for face plate or chuck work. It can also be set over for turning tapers. Spindles of both head and tail stocks are of steel, with positively true taper holes for the reception of the centers. Tail stock center is self-discharging. Tool carriage is gibbed to the bed. The tool can be set to the work at any position or angle desired; also to bore a taper hole. All the works are securely protected from chips and dirt. As a right or left screw cutting lathe it is simply perfect. All the gearing is cut from solid metal in the best machinery known for gear cutting, and is as true and noiseless as it is possible for metal gearing to be. Weight 385 lbs., boxed ready for shipment, 500 lbs.

No. F5—Lathe, complete, each★ $362.00

ONE IN A CRATE

H.S.B. & Co. REV-O-NOC

We Stand Behind the Brand.

FOOT POWER MORTISERS

Has great range for work, power on the chisel, accuracy in its action, and has all the required adjustments, which are easily and quickly made. Has abundant strength, is durable, and occupies but little space. Except for the supplementary table and treadle, the machine is made entirely of iron and steel.

No. F9—Foot power mortisers, without chisels, w't 135 lbs.; boxed 170 lbs.★ .....each $95.00

No. F10—Self-cleaning mortising chisel, sizes ¼, 5/16, ⅜, 7/16, ½, 9/16, ⅝, ¾, ⅞ and 1 in.★ .....each $4.50

ONE IN A CRATE

EMERY WHEEL DRESSERS

No. 15—Huntington, for truing, shaping and removing glaze from solid emery wheels while running at full speed, w't per doz. 22 lbs., per dozen $9.80

No. 25—Extra Cutters, w't per doz sets 1 lb. .....per set $0.09

ONE IN A BOX

REVONOC GRAIN EMERY

Fine. Medium. Coarse.

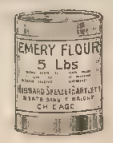
Made from the highest quality ores, throughly washed and evenly graded. Sizes 36, 46, 60, 80, 90, 100, 120 and 160.

Per Lb.

5 lb. Cans .....per pound $0.10

WE DO NOT BREAK PACKAGES

REVONOC EMERY FLOUR



Highest quality, smooth and long-lived.

5 lb. Cans .....per pound $0.10

WE DO NOT BREAK PACKAGES

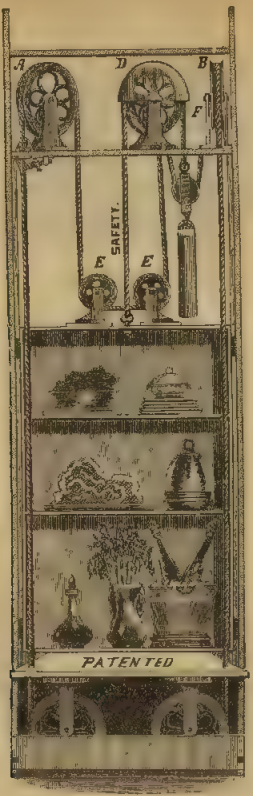
Carry a line of goods upon which you can rely.

The dealer who carries H. S. B. & Co. Brands marks his store as a place where the better goods are sold.

A house with over sixty-seven years' experience stands back of our brands.

★ Items Marked Thus ★ Are Shipped From Factory Only.

DUMB WAITER FIXTURES



NEW YORK SAFETY

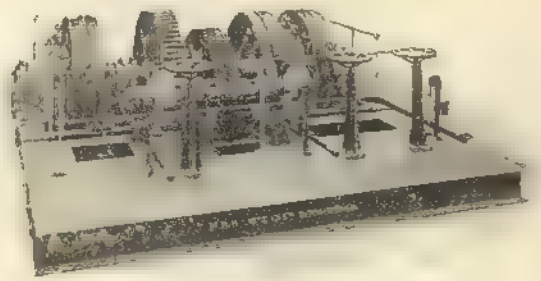
With these fixtures a durable and effective dumb waiter may be installed to operate in any opening approximately 24 inches square. The safety rope prevents serious accidents in case the hoisting rope breaks. It will operate with perfect ease, is absolutely noiseless and has no complicated parts which might be easily broken. The manner in which the counter poise is attached allows for stretch or shrinkage in the ropes, keeping them tight at all times. A diagram with full instructions for mounting, is packed with each set.

Fixtures Only

Six 8-inch wheels, two 4-inch wheels, one pulley for weight and safety rope; five 1¼-inch thimbles, one ¾-inch thimble; one ring for safety rope, one brake grip and ring for cord, one hooded pulley for grip and one patent plate

NO	Wt. Set		SET
21	68 lb.	ONE SET IN A BOX	...$35.00

NOBEL-GLASGOW
EXPLOSIVES
Alfred Nobel
GLASGOW
MANUFACTURERS OF
EXPLOSIVES
DYNAMITE, GELIGNITE, GELATINE DYNAMITE, BLASTING GELATINE
"PERMITTED" OR SAFETY EXPLOSIVES
FOR USE IN FIERY COAL MINES
DETONATORS, ELECTRIC DETONATORS, SAFETY FUSE
AND ALL
BLASTING ACCESSORIES
FOR SAFETY FUSE & ELECTRIC BLASTING
CORDITE
NAVAL, MILITARY AND SPORTING
POWDERS & AMMUNITION
NITRATE OF LEAD
NITRE CAKE
NOBEL'S EXPLOSIVES Co LTD
195 WEST GEORGE ST GLASGOW.



Three-wheel Endless Rope Haulage Gear.

Mecanisme de halage à trois roues à câble sans fin. Máquina á cable sin fin, para extracción, triple rueda

MINING MACHINERY AC.

Winding Gears. Haulage Gears. Pumps.

Electrically, Steam, or Air Driven; also

Coke Ram Compressors and Stampers.

Outillage pour mines Machines d'extraction Machines de halage Pompes. Marchant à l'électricité, à la vapeur, ou à l'air comprimé; aussi compresseurs à bélier de coke et estampeurs.

Maquinaria para minas. Máquinas de extracción. Máquinas de arrastre. Bombas. Accionadas eléctricamente á vapor ó por aire. Compresores é ariete de cok y prensadores.

STEEL WORKS MACHINERY EF.

Rolling Mills. Live Roller Gear.
Skid Gears. Furnace Charging Machines.

Machines pour acieries. Laminoirs. Transporteur à rouleaux d'amènement. Transporteur à halage. Machines pour chargement de fourneaux.

Maquinaria para fábricas de acero Laminadores. Rodillos conductores. Resbaladores. Cargadóres de hornos.

GAS WORKS PLANT IBJ

Coke Washing Plants. Briquetting Plants.
Elevators. Conveyors. Shaker Screens.

Outillage pour usines à gaz Machines pour laver le coke. Fabrication de briquettes. Elévateurs. Transporteurs Tamis de va et vient.

Instalación para fábricas de gas Instalaciones lavadoras de cok. Instalaciones para fabricar briquettes. Elevadores. Transportadores. Cribas de vaivén

M. B. WILD & Co., Ltd.,

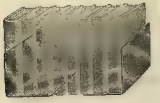
Telephone / *Telephone* / Telefono East 208.

NECHELLS, BIRMINGHAM, ENGLAND.

Telegrams / *Adresse telegraphique* / Telegramas "Hauling, Birmingham."

Book Ends

Cast Metal



Per pair

N20575—BOOK END SETS—Severely plain metal book ends, saltmon measurements, 5¼x3⅞ inches high guaranteed Pompeian finish and well lacquered. Packed in neat box **3.70**

Per pair

N20583—BOOK END—Heavy cast metal. Roman beside Lion, Verdi antique finish Width, 6 inches, height, 5½ inches..... **6.00**

Per pair

N20585—BOOK END—Heavy cast metal. Lincoln bust in relief, green bronze and Verdi antique finish. **6.00**

Per pair

N20584—BOOK END—Bust of Washington in relief, on background with plain frame effect Bronze finish Width, 4 inches, height, 5½ inches **6.80**

Per pair

N20576—CAST BOOK END Subject Indian Head in Deep Relief, 4½ inches high, finished in imperial bronze **7.80**

Per pair

N20577—CAST BOOK END—Subject Whistling Boy, 7⅛ inches high, finished in imperial bronze..... **9.00**

Per pair

N20578—CAST BOOK END—Subject Parrot on Book, 4 inches high finished in imperial bronze.. **9.50**

Per pair

N20579—CAST BOOK END—Subject "On the Trail," 5⅝ inches high, finished in Imperial bronze **9.00**

Per pair

N20580—CAST BOOK END—Subject Student Monk, 7¼ inches high, finished in Venetian bronze... **9.50**

Per pair

N20581—CAST BOOK END—Subject The Cleaners and The Angelus. 5 inches high finished in Venetian bronze **11.00**

Cast Metal

Per pair

N20582—CAST BOOK END—Subject The Thinker, 15 inches high, finished in imperial bronze..... **18.00**

Per pair

N20588—CAST METAL BOOK END—Rays, blue finish; height 5¾ inches **9.00**

Metallic Finish

Per pair

N20570—ELEPHANT BOOK END—Metallic finish. Length, 6½ inches, height, 5⅝ inches... **4.80**

Per pair

N20572—BOOK END—Reproduction of Rodin's "Thinker" in metallic finish Height, 8 inches..... **8.50**

Per pair

N20571—BOOK END—"Dante and Beatrice." Heavy composition Bronze Metallic finish Height, 6¾ inches, width, 5⅛ inches..... **8.50**

Polychrome

Per pair

N20573—BOOK END—"Higher Learning." Finished in dull gold polychrome in antique colors. **8.50**

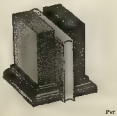
Per pair

N20574—BOOK END—"The Scholar." Metallic finish. Height, 7 inches, width of base, 6⅛ inches..... **7.00**

Solid Mahogany

Per pair

N20586—BOOK END—Dull finish Weighted to hold a heavy pack of books. Felt bottom. Height, 4¼ inches, diameter of base, 5⅝ inches **4.00**



Per pair

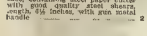
N20587 SOLID MAHOGANY BOOK END—Dull finish Weighted to hold a heavy pack of books. Felt bottom. Height, 5⅝ inches; base, 6⅛x2⅜ inches.. ..... **5.80**

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

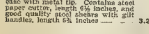
Library and Desk Sets—Book Racks

Library Sets

N25391—**LIBRARY SET** Leather case, containing steel paper cutter and pair nickeled steel shears, length 8¾ inches, with gun metal handle ..... Each 2.90



N25252—**LIBRARY SET** Leather case with metal tip. Contains steel paper cutter, length 6¼ inches, and good quality steel shears with gilt handles, length 6¼ inches ..... Each 3.20

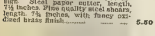


N25253—**LIBRARY SET**—Fine leather case with metal tip. Contains steel paper cutter, length 7¾ inches, and good quality steel shears, length, 8¼ inches, with gilt handles ..... Each 3.60

N25254—**LIBRARY SET**—Good quality leather case with metal tip. Contains steel paper cutter, length 7¾ inches. Fine quality steel shears, length, 8¼ inches, fancy corrugated shape handles, nickeled on gilt and colored enamel ..... Each 4.80

N25255—**LIBRARY SET**—Brass case, dull finish, with fancy stamped design. Steel paper cutter, length, 7¾ inches, good quality steel shears, length, 7¾ inches, with fancy corrugated brass finish ..... Each 5.50

N25256—**LIBRARY SET**—Oxidized brass case, containing steel paper cutter, length, 8½ inches with oxidized, blued pointed steel paper shears with oxidized copper finished handles ..... Each 6.00



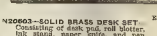
N25257—**LIBRARY SET**—Brass case. Contains steel paper knife, length, 8½ inches, fine quality steel, length, 8½ inches, short ends, length, 6½ inches, heavy cast brass finished handles ..... Each 6.00

These lines represent excellent values in desk and library sets which are becoming more popular every year. Order now while our stock is complete.

DESK SETS

Solid Brass—Brushed Finish

N20603—**SOLID BRASS DESK SET**—Consisting of desk pad, roll blotter, ink stand, paper knife, and pen tray, with leather, brushed brass. Size of blotter, 12x18 inches ..... Each 9.50



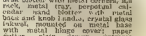
N20600—**DESK SET**—Consisting of desk blotter with metal corners, perpetual calendar, crystal glass inkwell with metal cover, paper clip, memorandum, pen and pencil tray with metal back, plain design, extreme ornamentation of desk blotter, 12x18 inches; of calendar, 4⅝x3⅝ inches, of inkwell, 2¾x2¾ inches high, of tray, 2x7⅜ inches, of hand blotter, 2x6¾, of paper cutter, 9⅞ inches. Polished brass finish ..... Each 6.80

N20601—**DESK SET**—Consisting of desk blotter with metal corners, 4½ inch square base, with rubber and leather hand blotter, gilt metal base and knob handle, crystal glass inkwell, mounted on metal base with metal hinge cover; paper cutter, pen tray, extreme ornamentations of desk blotter 17x12 inches, of calendar 4⅝x3⅝ inches, of tray 3⅜x7¾ inches, of calendar 4⅝x3⅝ inches, of hand blotter 2¾x6 inches high, of paper cutter 12 inches. Polished brass finish ..... Each 12.50

Shell Sets

N20606—**7 PIECE DESK SET**—Heavy solid sheet-shell material. Desk pad, stationery rack, stamp and pin box, blotter, inkwell, letter opener and perpetual calendar ..... Each 12.00

Ivory Desk Sets



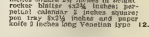
N20608—**DESK SET**—With white grained ivory celluloid fittings 5 pieces, including desk pad, ink stand paper cutter, roll blotter, and perpetual calendar, with pen tray also of desk pad 17x13½ inches ..... Each 6.00

N20610—**DESK SET**—Seven piece oak set, grained white ivory material: desk pad, stationery rack, stamp and pin box, blotter, inkwell, letter opener, and perpetual calendar ..... Each 11.00

Solid Brass—Bronze Finish

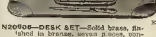
N20604—**DESK SET**—Solid brass, finished in bronze, six pieces. Consisting of desk pad 12x18, metal corner, marbled blotter, mounted 5 inches square 3½ inches in height, rocker blotter 4⅝x4 inches; perpetual calendar 3 inches square; pen tray 2x7½ inches and paper knife 9 inches long Venetian type ..... Each 12.00

N20605—**DESK SET**—Solid brass, finished in bronze, six pieces. Consisting of desk pad 12x18, metal corner, marbled blotter, mounted 5 inches square 3½ inches in height, rocker blotter 4⅝x4 inches; perpetual calendar 3 inches square; pen tray 2x7½ inches and paper knife 9 inches long Venetian type ..... Each 12.00



N20608—**DESK SET**—Solid brass, finished in bronze, six pieces. Consisting of desk pad 12x18, metal corners, marbled blotter mounted 5 inches square 3½ inches high, letter-rack 4½x2¾ inches, rocker letter 4x2¾ inches, perpetual calendar 4⅝x3 inches, pen tray 8⅛x3¾ inches and paper knife 9 inches long Venetian design ..... Each 17 50

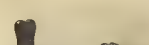
Gun Metal Finish



N20602—**DESK SET** Consisting of desk blotter with metal corners, 5½ inch square base, with rubber and leather hand blotter with metal back and knob handle, crystal glass inkwell, mounted on metal base with metal hinge cover; pen tray and paper cutter, extreme ornamentations of desk blotter 17x12 inches, of calendar 4⅝x3⅝ inches, of tray 3⅜x7¾ inches, of hand blotter 2¾x6 inches high, of paper cutter 12 inches. Polished brass finish ..... Each 12.50

N20607—**DESK SET**—Genuine leather six pieces, consisting of desk pad 12x18 inches with leather ends, marbled blotter, transparent celluloid covering; combination tokened calendar and memorandum of glass mounted rack, memorandum book, leather cover to match, letter-rack 6x4¾ inches, perpetual calendar 4x3¾ inches, rocker blotter with sliding top, 4x2 inches and paper knife 7 inches long with nickeled blade and leather handle; rose colored ..... Each 8.50

Book Racks

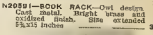


N20598—**BOOK RACK**—Solid mahogany, dull finish folding ends, size 8½x13 inches ..... Each 3.00

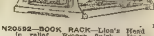
N20599—**BOOK RACK**—Art design Cast metal. With extension base Size extended 5x13 inches ..... Each 3.40

N20591—**BOOK RACK**—Owl design Cast metal. Bright brass and oxidized finish. Size extended 8¾x15 inches ..... Each 9.40

N20592—**BOOK RACK**—Lion's Head in relief. Bronze finish. Wide fold. Size extended 6¼x23½ inches ..... Each 9.00



N20593—**BOOK RACK**—Camel design, with empire bronze finish, folding ends. Extends from 12 to 22 inches. Height 6 inches ..... Each 9.00



N20594—**BOOK RACK**—Golden bronze finish. Extends to 12 inches by means of three telescope rods on bottom ..... Each 8.00

N20595—**BOOK RACK**—Solid mahogany dull finish, with extension base and folding ends. Size extended 5½x20 inches ..... Each 6.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

COLLAR AND CUFF BOXES

Made of strong wood, covered with black leatherette of fancy designs, embossed gilt metal ornaments and clasp, lined silk and ribbed sateen lined.

T5298—Size 4¼x8x8 in. Doz., $6.35

T5299—Size 5½x9½x5 in. Doz., $8.25

T5108—Size 4½x8½x5 in. Doz., $11.50

T5303—Size 5½x9½x6 in. Each, $1.45

EBONY-FINISH BRUSH RACK

T5325—Size 8x10½ in. overall; mirror 4½x6¼ in. rack, 6 in. hat brush 5½ in. cloth brush. All with gilt metal ornaments. Each, $1.45

SMOKERS' SETS

T5286—Mission base; china 3 in., glass ash receptacle, brass match box holder Doz., $10.25

T5307—Mission base; 7x11 in., 2 lined receptacles, gilt decorations Set $1.25

T5309—9½x11½ in. flemish oak tray, glass ash, brass candles, 3 lined receptacles. Each, $2.25

NOVELTY SMOKERS' STANDS

Humorous characters of newspaper comic supplements. Made of 4-ply wood, painted and varnished. Base 6½x6½ in. Brass finish ash receiver and match box holder.

T1191—"Maggie." Ht. 30½ in. Each, $1.50

T1482—"Jiggs." Ht. 30½ in. Each, $1.50

NOVELTY SMOKER STANDS

TO4023—Colored Boxer, ht. 35 in., made entirely of heavy resin. Durable practical and novel. Finish enameled, red coat. Has ash, cigar, cigarette and match receiver. Each in carton. . . . Each, $5.75

WORKBOXES OR SEWING SETS

Oftentimes more or less popular favor. Made of wood, covered with art paper of useful designs. Work flutings conveniently displayed.

T5283—Size of box 2¾x8½ in. 1/6 doz. in pkg. Doz., $5.75

T5284—Fancy Rhine case, size 3x8½x6½ in., has 4 useful fittings. Doz. $10.25

T5285—Case 4½x8x7 in., mirror under lid drawer in base, has 5 useful fittings. Each $1.45

MUSICAL ALBUMS

Each play two sets. Size 9½x11¼ in., ht. 3 in. 10 gilt edge leaves. Metal spring clasp.

T5310—Covered with oak design of art paper. Gold plate picture top. Each, $3.85

T5311—Parlotte design, floral paper sides, gold plate picture top. Each, $4.00

T5312—Plush covered throughout. Gilt metal corner ornaments, Art Nouveau design under transparent celluloid set in gilt frame. Each, $4.25

COLONIAL DOLL BOUDOIR LAMP

T5370—Ht. 16 in. Strong wire frame complete with silk cord and connection plug. Old fashion dress, trimmed with old gold braid. Composition head, tinted features, white wig. Each, $2.75

VARIETY BRASSWARE ASSORTMENT

TO4025—Asst. consists of 12 pieces, BRUSH BRASS FINISH. One 6-in. jardiniere, one 8-in. jardiniere, two 10-in. jardinieres, two piece crumb set, one 7-in. flower stand, one fruit basket, one 10-in. rose vase, two 9-in. candle sticks, one four-cube gong set, one two flower basket. 1 doz. sold in carton. No less sold . . . . . Asst., $13.80

BRASS SMOKERS' ARTICLES ASSORTMENT

TO4827—Six asstd. pieces, combination sets and stand, brass finish brush. Individual ash trays. Six asstd. in carton. No less sold . . . . . Asst., $7.25

SMOKERS' NICKEL PLATED SETS

TO4826—Heavy nickel plated, asstd. enameled lineup under glass. Asst. contains six blends ash trays, individual receivers and combination tar. Six asstd. in carton. No less sold. . . . Asst., $6.00

Novelty Assts.

Chock whole clever metal miniatures, increasing in popular demand for favors, party prize, etc. They add to the gayety and pleasure of any social occasion. Each set in appropriately labeled box. Asstd. 6 kinds. 3 doz. in carton.

T2463—Asstd. as above (Gro., $4.00), Doz., 35c

T2464—Asstd. as above (Gro., $4.00), Doz., 35c

Don't wait until the eleventh hour to send in your order for Holiday Goods.

You MAY then get what you want and all you want.

But in DELAYING you are taking unnecessary chances. Order NOW.

COLLAR AND CUFF BOXES

Made of strong wood, covered with black leatherette of fancy designs, embossed gilt metal ornaments and clasp, lined silk and ribbed sateen lined.

T5298—Size 4¼x8x8 in. Doz., $6.35

T5299—Size 5½x9½x5 in. Doz., $8.25

T5108—Size 4½x8½x5 in. Doz., $11.50

T5303—Size 5½x9½x6 in. Each, $1.45

EBONY-FINISH BRUSH RACK

T5325—Size 8x10½ in. overall; mirror 4½x6¼ in. rack, 6 in. hat brush 5½ in. cloth brush. All with gilt metal ornaments. Each, $1.45

SMOKERS' SETS

T5286—Mission base; china 3 in., glass ash receptacle, brass match box holder Doz., $10.25

T5307—Mission base; 7x11 in., 2 lined receptacles, gilt decorations Set $1.25

T5309—9½x11½ in. flemish oak tray, glass ash, brass candles, 3 lined receptacles. Each, $2.25

NOVELTY SMOKERS' STANDS

Humorous characters of newspaper comic supplements. Made of 4-ply wood, painted and varnished. Base 6½x6½ in. Brass finish ash receiver and match box holder.

T1191—"Maggie." Ht. 30½ in. Each, $1.50

T1482—"Jiggs." Ht. 30½ in. Each, $1.50

NOVELTY SMOKER STANDS

TO4023—Colored Boxer, ht. 35 in., made entirely of heavy resin. Durable practical and novel. Finish enameled, red coat. Has ash, cigar, cigarette and match receiver. Each in carton. . . . Each, $5.75

WORKBOXES OR SEWING SETS

Oftentimes more or less popular favor. Made of wood, covered with art paper of useful designs. Work flutings conveniently displayed.

T5283—Size of box 2¾x8½ in. 1/6 doz. in pkg. Doz., $5.75

T5284—Fancy Rhine case, size 3x8½x6½ in., has 4 useful fittings. Doz. $10.25

T5285—Case 4½x8x7 in., mirror under lid drawer in base, has 5 useful fittings. Each $1.45

MUSICAL ALBUMS

Each play two sets. Size 9½x11¼ in., ht. 3 in. 10 gilt edge leaves. Metal spring clasp.

T5310—Covered with oak design of art paper. Gold plate picture top. Each, $3.85

T5311—Parlotte design, floral paper sides, gold plate picture top. Each, $4.00

T5312—Plush covered throughout. Gilt metal corner ornaments, Art Nouveau design under transparent celluloid set in gilt frame. Each, $4.25

COLONIAL DOLL BOUDOIR LAMP

T5370—Ht. 16 in. Strong wire frame complete with silk cord and connection plug. Old fashion dress, trimmed with old gold braid. Composition head, tinted features, white wig. Each, $2.75

VARIETY BRASSWARE ASSORTMENT

TO4025—Asst. consists of 12 pieces, BRUSH BRASS FINISH. One 6-in. jardiniere, one 8-in. jardiniere, two 10-in. jardinieres, two piece crumb set, one 7-in. flower stand, one fruit basket, one 10-in. rose vase, two 9-in. candle sticks, one four-cube gong set, one two flower basket. 1 doz. sold in carton. No less sold . . . . . Asst., $13.80

BRASS SMOKERS' ARTICLES ASSORTMENT

TO4827—Six asstd. pieces, combination sets and stand, brass finish brush. Individual ash trays. Six asstd. in carton. No less sold . . . . . Asst., $7.25

SMOKERS' NICKEL PLATED SETS

TO4826—Heavy nickel plated, asstd. enameled lineup under glass. Asst. contains six blends ash trays, individual receivers and combination tar. Six asstd. in carton. No less sold. . . . Asst., $6.00

Novelty Assts.

Chock whole clever metal miniatures, increasing in popular demand for favors, party prize, etc. They add to the gayety and pleasure of any social occasion. Each set in appropriately labeled box. Asstd. 6 kinds. 3 doz. in carton.

T2463—Asstd. as above (Gro., $4.00), Doz., 35c

T2464—Asstd. as above (Gro., $4.00), Doz., 35c

Don't wait until the eleventh hour to send in your order for Holiday Goods.

You MAY then get what you want and all you want.

But in DELAYING you are taking unnecessary chances. Order NOW.

Writing Accessories and Metal Novelties

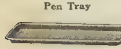
Roll Blotter

N20836—ROCKER BLOTTER—Solid brass with knob handle, 4 inches long and 2¼ inches wide; finished in ivorine ..... Per doz. 21.00

Pen Brush

N20541—BRUSH PEN WIPER AND DOG PAPER WEIGHT Combination, finished in bronze and well lacquered ..... Per doz. 18.00

Pen Tray



N20540—PEN TRAY—Solid brass, 7½ inches long and 3½ wide, finished in bronze ..... Per doz. 18.00

Swing Pencil Pad

N20839—MEMO PAD—4½ inches long and 3 inches wide with swing pencil attachment, finished in bronze ..... Per doz. 24.00

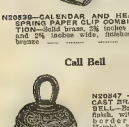
Fountain Pen and Pencil Holder

N20542—PENCIL AND FOUNTAIN PEN HOLDER—Solid brass, with places for six pencils and one fountain pen, 5¾ inches long, 3¾ inches high and 1¾ inches wide, finished in bronze ..... Each 3.00

Calendar Clip

N20838—CALENDAR AND HEAVY SPRING PAPER CLIP COMBINATION—Solid brass, 3¾ inches long and 2¾ inches wide, finished in bronze ..... Each 19.00

Call Bell



N20847 — HEAVY CAST BRASS CALL BELL—Bright brass finish, with Grecian border design, height 3¾ inches, diameter 2½ inches. Each..... 3.00

Paper Clip

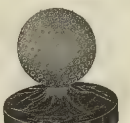
N20537 HEAVY SPRING PAPER CLIP—Solid brass, 2 inches long and 2½ inches wide, finished in oxidized ..... Per doz. 12.00

N20544—DUCK'S HEAD DESIGN—In natural colors, length 5 inches ..... Per doz. 16.00

Paper Weights

N20504—METAL "SHEPHERD DOG" PAPER WEIGHT—Ebony finish. Length 5½ inches. Height 3½ inches ..... Per doz. 8.50

N20500—METAL PAPER WEIGHT—Figure of greyhound in bronze finish. Length 6¼ inches, height 3½ inches ..... Per doz. 16.00



N20503—METAL GOLF BALL PAPER WEIGHT—Ball is finished in white enamel; base oxidized green. Height 3½ inches ..... Per doz. 9.00

N20501—METAL PAPER WEIGHT—Figure of German Police Dog, bronze finish. 7 inches long, 3¼ inches high ..... Per doz. 22.40

Door Knockers

N20803—DOOR KNOCKER—Cast metal reproduction of Dranmore Church, with bust relief of William Wordsworth, antique gold finish..... Each 2.00

N20804—DOOR KNOCKER—Cast metal reproduction of Shakespeare's House, Stratford." Finished in antique gold..... Each 3.30

Pin Cushions

N20428—PIN CUSHION ASSORTMENT—Cast metal figures, gilt finish, including automobile, rabbit, bird, cat, dog, and elephant. With glass, jewel and paper cushions. Average length 2¾ inches. 1 dozen in package ..... Per doz. 3.50

Pin Tray

N20426—PIN TRAY—With cut mirror glass lining, mahogany finish frame. Size 4½x8¾ inches ..... Per doz. 8.00

Bud Vases

N20899 N20902

N20900—BUD VASE—Cast metal, with wide top and tapering base, bright silver finish. Height 4¼ inches ..... Each 13.00

N20901—Same as N20900. Height 5½ inches ..... Each 2.00

N20902—BUD VASE—Cast metal, bright silver finish. Height 4¾ inches ..... Per doz. 7.80

Card Trays

N20427—CARD TRAY—Mahogany finish frame, with a variegated fiber and felt bottom. Brass bottom with floral design center, felt back. Size 10¼x7¼ inches ..... Per doz. 18.00

Fern Dish

N20951—FERN DISH—Verdi green finished fern dish, 3 claw feet. Removable liner, diameter of top 7¼ inches, total height 4 inches..... Each 3.00

N20952—CAST METAL CARD TRAY —With handles. Finished in antique gold. Diameter 6 inches..... Each 4.38

Brushed Brass Dinner Gong

N20950—DINNER GONG—Consisting of 4 brush brass tubes, each tube varying in length from 4 to 11 inches, wooden handle hanging on adjustable bracket ..... Each 2.40

Jardiniere

N28907—JARDINIERE ASSORTMENT—Solid brass jardinieres with three ball feet. Verdi green finish, with polished rim around the top. Assortment contains 3 jardinieres, one 7¼ inches diameter, one 8½ inches diameter, and one 9½ inches in diameter ..... Per set of 3 13.50

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Inkstands and Writing Accessories

INK STANDS

N20550—INKSTAND. Consisting of 4½ inch crystal glass well mounted with silvered plate hinge cover, extreme measurements 5¼x3¾ inches high. Enameled brushed brass finish and well lacquered. Packed in neat box 2.50

N20560—INKSTAND—Heavy cast metal, in shape of four-leaf clover with sliding top, "Girl's Head with Bonnet." Removable glass well, size 4x3 inches 2.60

N20554—INKSTAND—Consisting of two 3¼ inch crystal glass inkwells, mounted with silvered plate hinge covers, silvered plate metal base, pen rest, extreme measurements 4¾x4¾ inches high, guaranteed brushed brass finish and well lacquered. Packed in neat box 4.50

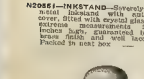
N20555—CAST SINGLE INKWELL—With pen groove, 3½ inches long, 1¾ inches high and 4 inches wide, finished in bronze 5.00

N20551—INKSTAND—Heavily plain metal inkstand with automatic cover, fitted with crystal glass well, extreme measurements 5¼x3¾, inches high, guaranteed brushed brass finish and well lacquered. Packed in neat box 20.40

N20561—INKSTAND—Heavy cast metal in shape of Kneeling Camel, finished in brown enamel and colors. Removable glass well with metal cover. Size 5¾x3 inches 3.40

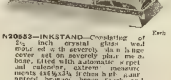
N20552—INKSTAND—Consisting of 3½ inch crystal glass well and ink cover on silvered plate base, fitted with automatic eraser and calendar, extreme measurements 4¾x3¾ inches high, guaranteed brushed brass finish and well lacquered. Packed in neat box 4.80

N20552—CAMEL DESIGN INKSTAND—Finished in natural colors. Pack saddle arranged hinge cover for inkwell. Length 6¾ inches, height 4 inches 5.00



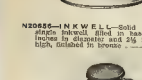
N20558—INKWELL—Solid brass plain inkwell fitted in base, 3¾ inches in diameter and 2½ inches high, finished in bronze 24.00

N20556—INKSTAND—Fitted with two crystal glass wells, automatic covers, stamping pad, calendar and rest; six very plain panels, extreme measurements 5¾x3¾x3¾ inches high; guaranteed brushed brass finish and well lacquered. Packed in neat box 4.80



N20557—INKWELL—Cast single, with pen groove, 3½ inches long, 1¾ inches high and 3½ inches wide, finished in bronze 4.00

N20563—INKWELL—Composition base, double inkwell with shotwell for ink, hand burnished, nickel plated, colored with antique blue, furnished with quill pen 6.75



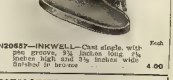
N20562—INKSTAND—Consisting of 3½ inch crystal glass well, mounted with severely plain hinge cover and severely plain metal base pen rest, extreme measurements 5¼x3¾x3¾ inches high, guaranteed brushed brass finish and well lacquered. Packed in neat box 2.40

WRITING ACCESSORIES

Calendars

N20525

N20525—CALENDAR—Consisting of perpetual calendar with neat metal frame in Fancy Exotic Turned Design and guaranteed brushed brass finish and well lacquered. Packed in neat box 2.00



N20530

N20530—PERPETUAL CALENDAR—3¾ inches long and 3¼ inches wide; finished in bronze 12.00

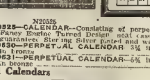
N20531—PERPETUAL CALENDAR—4½ inches long and 4¾ inches wide; finished in bronze 2.00

N20531

N20529—INKWELL—Cast double, with pen groove, 11½ inches long, 3 inches high and 4½ inches wide, finished in bronze 9.00

Automatic Perpetual Calendars

N20526—AUTOMATIC PERPETUAL CALENDAR—Severely plain metal calendar, can be set at any date automatically, leaves extreme measurements 5¼x3¾x2¾ inches high, guaranteed brushed brass finish and well lacquered. Packed in neat box 2.40



N20527

N20527—AUTOMATIC PERPETUAL CALENDAR—Severely plain metal calendar, can be set at any date automatically forever, has suitable for paper clips, pins, pen points, etc., extreme measurements 5¼x3¾x2¾ inches brass finish, polished and lacquered. Packed in neat box 2.84

N20528—CALENDAR AND INDEX—Severely plain metal holder and base fitted with index cards in alphabetical order; perpetual calendar, receptacle in base for holding paper clips, pins, pen points etc., rack, extreme measurements 5¼x3¾x2¾ inches, guaranteed brushed brass finish, highly polished and well lacquered. Packed in neat box 2.70

N20529

N20529—CALENDAR AND PAD—Severely plain automatic perpetual calendar with pad holder, it can be set at any date; neat metal base fitted with regulation size removable pad, extreme measurements 5¾x3¾x2¾ inches high, guaranteed brushed brass finish and well lacquered. Packed in neat box 3.40

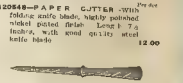
Paper Cutters

N20532—CAST HANDLED PAPER KNIFE—With solid brass blade, 7¼ inches long, blade 2 in bronze 8.00

N20533—CAST HANDLED PAPER KNIFE—With solid brass blade, 7½ inches long, finished in bronze 11.00

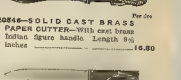
N20534—SOLID BRASS PAPER KNIFE—7½ inches long, finished in bronze 12.00

N20545—SOLID BRASS PAPER CUTTER—Length, 7½ inches, finished in brush brass with medallion of Shakespeare on handle 12.00

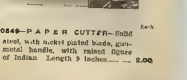


N20548—PAPER CUTTER—With folding safety blade, highly polished nickel plated finish. Length 7½ inches, with good quality steel knife blade 12.00

N20539—SOLID BRASS PAPER KNIFE—9 inches long, finished in bronze 16.40



N20546—SOLID CAST BRASS PAPER CUTTER—With cast brass Indian figure handle. Length 9½ inches 16.80



N20549—PAPER CUTTER—Solid steel, with nickel plated blade, gunmetal handle, with raised figure of Indian. Length 9 inches 2.00

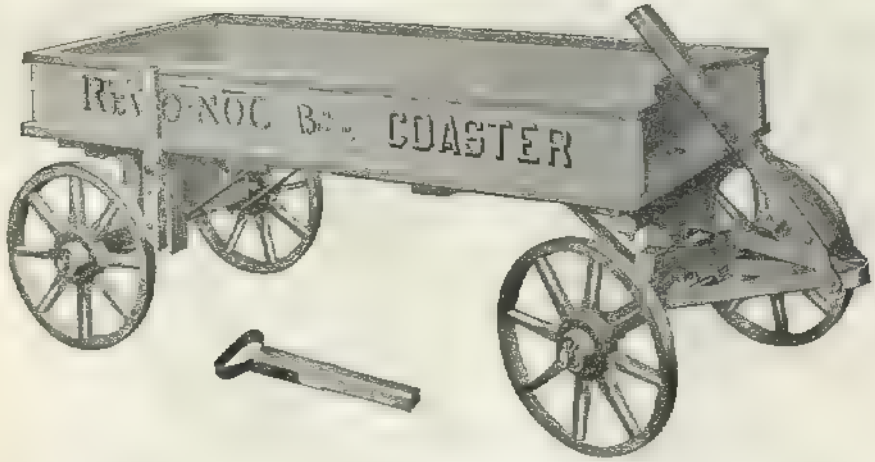
PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. N332—Body 14x32 in., wheels 8 in., w't each 25 lbs. .....per dozen $119.00

Speedy and Durable —Removable Body

No. N334—Body 14x34 in., wheels 10 in., w't each 30 lbs. ....per dozen $129.60
No. N338—Body 16x38 in., wheels 10 in., w't each 35 lbs. .....per dozen 143.00
No. N340—Body 18x40 in., wheels 12 in., w't each 40 lbs. .....per dozen .....

REVONOC BALL BEARING COASTER WAGONS



Removable body. Body and handle of well seasoned hardwood, varnished, body decorated in red and black. Extra heavy wood wheels painted red and fitted with serviceable brakes, iron hubs and frame, rims of bent rock elm, wrought steel tires welded and shrunk on, gear of selected stock securely braced to body, steel loop grip on handle.

1⅛ in. Square Handle.

Nos. REVONOC	N90	N91	N92
Height of body, in.	4½	4½	4½
Size body, in.	14×32	16×36	18×40
Wheels, in.	10	10	10
Shipping w't, lbs.	348	396	460
Per dozen	$103.50	112.50	121.50

EXTRA WHEELS FOR NOS. N90, N91, N92

No. N090—Per dozen $14 40

ONE IN A CARTON

BADGER COASTER WAGONS

Body, handle and brace of well seasoned hardwood, varnished, extra heavy metal bearing wheels with round spokes, ¾ x ¼ in. bent rock elm rims, ¾×⅛ in. wrought steel tires welded and shrunk on A1 selected stock gears, securely braced to body with ⅞×¾ in. round edge iron and ⅞ in. round steel axles. Extra heavy malleable iron and hardwood steering gears.

STATIONARY BOX, 3 INCHES HIGH

No. N32—Body 13×28 in., wheels 8 in., w't per doz. crated 204 lbs. ..... per dozen $63 00

REMOVABLE BOX

Nos.	N33	N34	N35
Height of body, in.	4½	4½	4½
Body, in.	14×32	16×36	18×40
Wheels, in.	10	10	10
Shipping w't, lbs.	324	366	450
Per dozen	$90.00	99 00	108 00

EXTRA WHEELS

Nos.	N032	N033	N034	N035
Size, in.	8	10	10	10
Per dozen	$9 60	10.80	10 80	10 80

NO. N35, ONE IN A CRATE; OTHERS SIXTH DOZEN IN A CRATE. WE DO NOT BREAK CRATES.

REVONOC EXPRESS WAGONS

Solid body of 24 ga. steel, outside painted vermilion, ornamented with gold stripes, inside green. Solid substantial wood wheel and handle, painted vermilion. Steel loop grip.

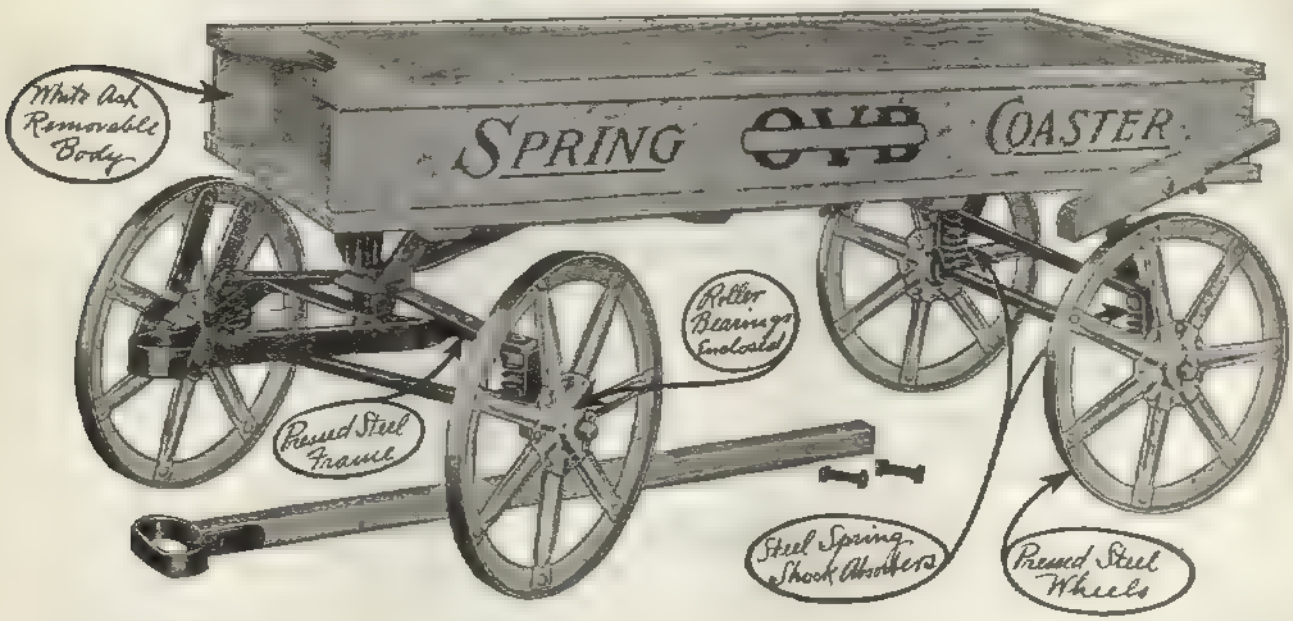
IRON HUB WHEELS, ⅞ IN. SQUARE HANDLE

Nos.	N70	N71
Height of body, in.	4½	4½
Body in.	12×24	13 26
Wheels in.	8 & 12	9 & 13
W't doz crated lbs.	264	282
Per dozer	$56 00	63 00

Nos.	N72	N73
Height of body, in.	5	5
Body, in.	14×28	15×30
Wheels, in.	11& 14	12& 15
W't doz., crated, lbs.	300	336
Per dozen	$70 00	76 00

No. N071 Extra Handles ..... per dozen $2 90

WAGONS SIXTH DOZEN IN A CRATE. WE DO NOT BREAK CRATES.



OYB SPRING COASTER

THE WORLD'S BEST COASTER WAGON

OYB SPRING COASTERS are recognized by the Jobbers and Dealers to be the leader for sales and profits.

WHY? Because OYB was built for SERVICE, STRENGTH and DURABILITY. For easy riding the OYB is in a class by itself.

Follow the black arrows and read the reasons why OYB excels.

For Five Years the boys' most famous coaster.

Order now!

Increased manufacturing facilities enable us to make early and prompt shipments.

Sizes and List Prices

Stamped Steel Wheels

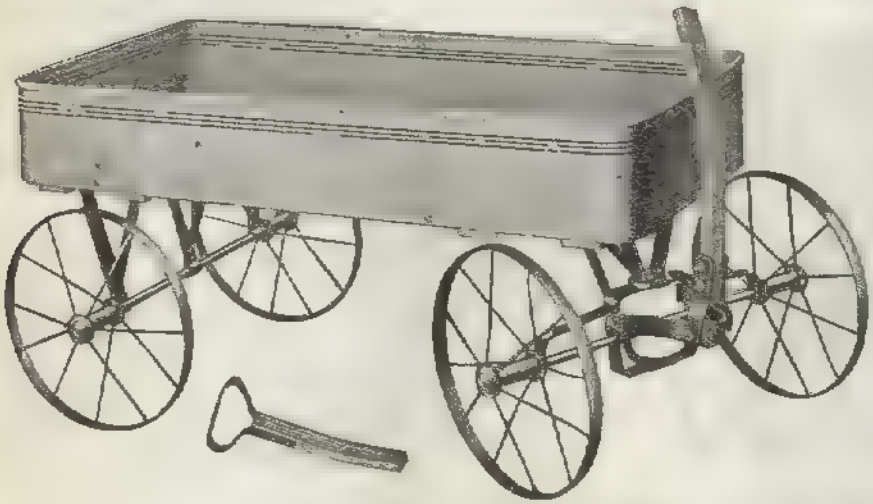
No. N232—Body 14x32 in., wheel 8 in., w't each 31 lbs. ..... per dozen **$133.00**

No. N234—Body 14x34 in., wheel 10 in., w't each 34 lbs. ..... per dozen **142.80**

No. N238—Body 16x38 in., wheel 10 in., w't each 38 lbs. ..... per dozen **160.70**

No. N240—Body 18x40 in., wheel 10 in., w't each 43 lbs. ..... per dozen **183.60**

CRUSO EXPRESS WAGONS



Solid body of 25 ga. steel, painted red, stenciled in gold. Extra heavy steel wheels painted black, nickel hub caps, heavy wrought gear with extra brace on rear axle, finished in black coke enamel, ⅞ in. round steel axles, bent handle, loop grip, painted red, four cleats across bottom.

Handle ⅞ in. Square

Nos.	N81
Height of body, in.	5⅛
Body, in.	12x26
Wheels, in	10
W't doz. crated, lbs	204
Per dozen	$44 00

Nos.	N83
Height of body, in.	5⅞
Body, in.	14x30
Wheels, in	11
W't doz. crated, lbs.	252
Per dozen	$52 50

STEEL EXPRESS WAGONS

Steel body and wheels, body painted bright vermilion, striped and varnished, wheels painted black, inside painted green. Top of body bent over wrought iron rod, making it very firm, rounded corners, steel gears. Wood handle with cross bar grip.

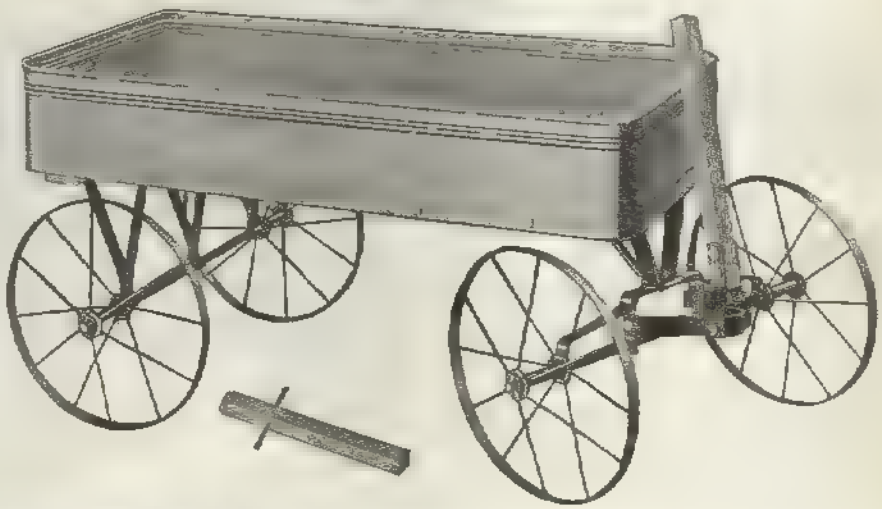
STEEL BODY AND WHEELS

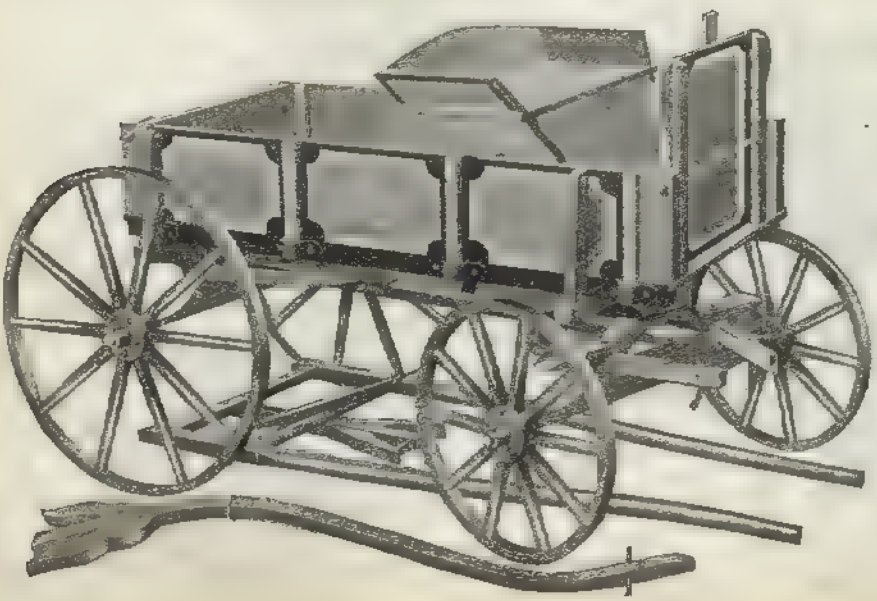
Handle ¾x½ in.

Nos.	N04	N02
Height of body, in.	2¾	3¼
Body, in.	8x18	10x22
Wheels, in.	6	8
W't doz. crated, lbs	70	90
Per dozen	$22 20	22 60

Handle ⅞ in. Square

Nos.	N1	N3
Height of body, in.	5¼	5⅝
Body, in.	12x26	14x30
Wheels, in.	10	11
W't doz., crated, lbs.	160	214
Per dozen	$36 30	44 00





FARM WAGONS

This resembles a farm wagon in every respect. The sides and ends can be taken off, leaving bed with stakes.

Seasoned Hardwood Frame and Wheels

Body 18x36x7 in., bent hounds, adjustable reach, all parts strongly ironed and braced, 14 and 20 in. wheels, shaved spokes, heavy welded tires, plate wrought iron hub boxes and hub caps ⅞ in. round steel axles, complete with seat and tongue

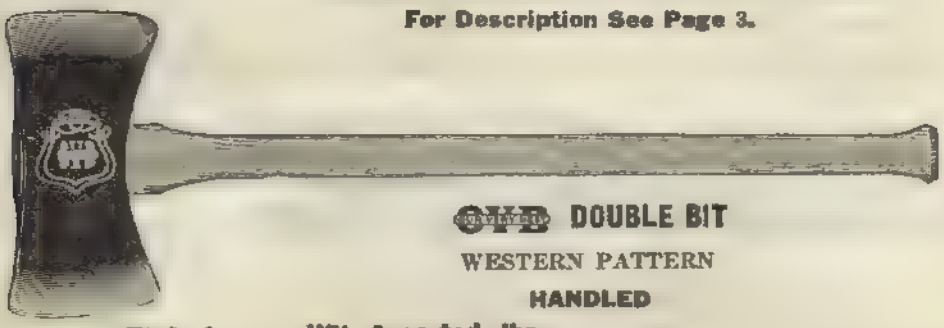
No. N3550—Without shafts, w't per doz. 660 lbs., per dozen $171 50

No. N355—With hardwood shafts for dog or goats, w't per doz. 720 lbs. .....per dozen $187 70

ALL ABOVE TWO IN A CRATE. WE DO NOT BREAK CRATES.

GVB IVORY BLACK AXES

For Description See Page 3.



GVB DOUBLE BIT

WESTERN PATTERN

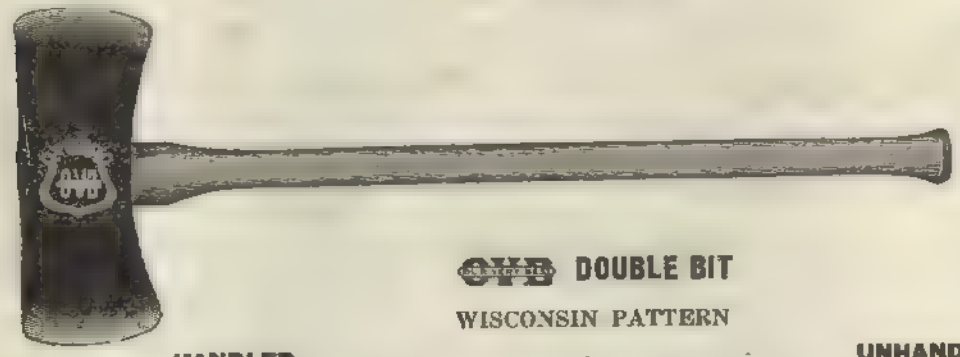
HANDLED

Kind of Handle	W't, Assorted, lbs.		3½to4½	4to5	4½to5½
	W't per doz., lbs.		74	79	84
No. T0120L—GVB hickory, regular, oval 36 in.		per dozen	$49 00	50 00	51.00
No. T0120P—**Hibbard** hickory, regular, oval 36 in.		per dozen	46.00	47.00	48.00

UNHANDLED

W't, Assorted, lbs.	3½to4½	4to5	4½to5½
W't per doz., lbs.	54	59	64
No. T0120—Full dozen case	per dozen	$35.00	36.00	37.00
No. 0120—Less than case	per dozen	37.00	38.00	39.00

ONE DOZEN IN A CASE



GVB DOUBLE BIT

WISCONSIN PATTERN

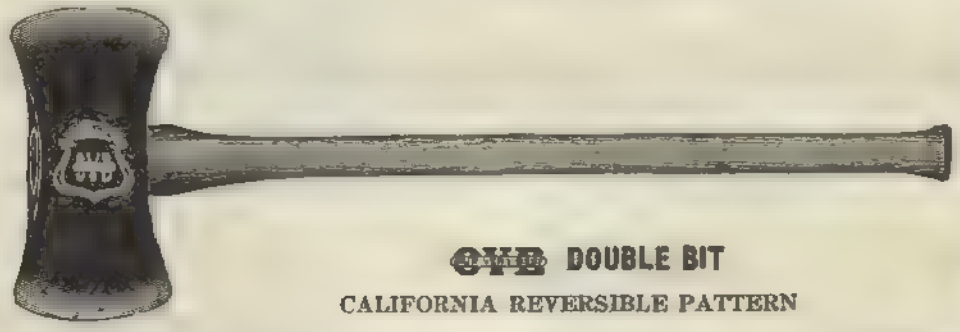
HANDLED

Kind of Handle	W't, Assorted, lbs. 3½to3¾
	W't per doz. lbs. 69
	doz.
No. T0130L—GVB hickory, regular, oval 36 in.	$48 00
No. T0130T—**Hibbard** hickory, slim, oval 36 in.	45.00

UNHANDLED

W't, Assorted, lbs.	3½to3¾
W't per doz., lbs.	49
No. T0130—Full dozen case	per dozen	$34.00
No. 0130—Less than case	per dozen	36 00

ONE DOZEN IN A CASE



GVB DOUBLE BIT

CALIFORNIA REVERSIBLE PATTERN

HANDLED

Kind of Handle	W't, Assorted, lbs. 3½to4½
	W't per doz., lbs. 74
	doz.
No. T0140L—GVB hickory, regular, oval 36 in.	$49 00
No. T0140P—**Hibbard** hickory, regular, oval 36 in.	46.00

UNHANDLED

W't, Assorted, lbs.	3½to4½
W't per doz., lbs.	54
No. T0140—Full dozen case	per dozen	$35.00
No. 0140—Less than case	per dozen	37.00

ONE DOZEN IN A CASE

BLUE BEVELED AXES

AXES—Highest Quality Forged Crucible Steel, With Full Polished Finish, Except Blue Lacquered "Perfect" Bevels, Labeled, Carefully Hand Tempered, Warranted Against Defects in Material and Workmanship.
HANDLES—Our Handles are Specially Graded and Gauged for the Purpose and We Guarantee Correct "Hang" and Secure Wedging.

SINGLE BIT
MICHIGAN PATTERN

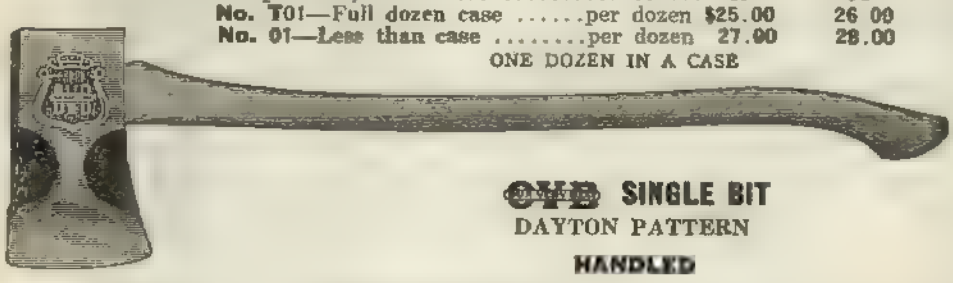
HANDLED

Kind of Handle	W't, Assorted, lbs.	3to4	3½to4½	4to5
	W't per doz., lbs.	69	74	79
No. T01C— hickory, regular, oval 36 in.	per dozen	$39 00	40.00	41.00
No. T01E—Hibbard hickory, regular, oval 36 in.	per dozen	36.00	37.00	38 00
No. T01F—Hibbard hickory, regular, octagon 36 in.	per dozen	36.00	37.00	38 00
No. T01G—Hibbard hickory, slim, oval 36 in.	per dozen	36.00	37.00	38 00
No. T01H—Hibbard hickory, slim, oval 33 in.	per dozen	36.00	37.00	38 00
No. T01K—Hibbard oak, regular, oval 36 in.	per dozen	35.00	36.00	37 00

UNHANDLED

W't, Assorted, lbs.	3to4	3½to4½	4to5
W't per doz., lbs.	49	54	59
No. T01—Full dozen case per dozen	$25.00	26 00	27.00
No. 01—Less than case per dozen	27.00	28.00	29.00

ONE DOZEN IN A CASE



SINGLE BIT
DAYTON PATTERN

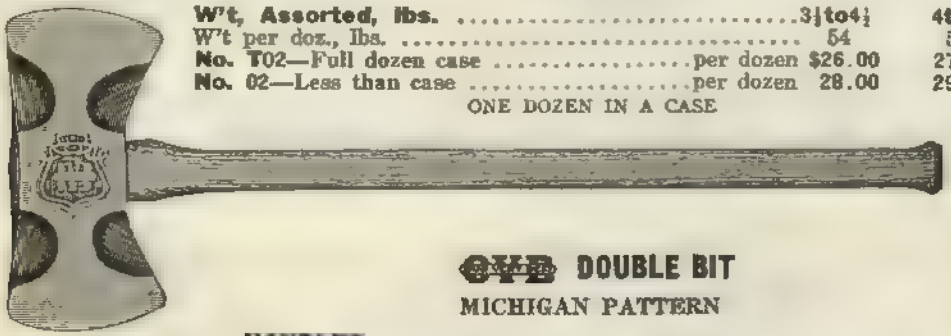
HANDLED

Kind of Handle	W't, Assorted, lbs.	3½to4½	4to5
	W't per doz., lbs.	74	79
No. T02C— hickory, regular, oval 36 in.	per dozen	$40 00	41.00
No. T02E—Hibbard hickory, regular, oval 36 in.	per dozen	37.00	38.00
No. T02F—Hibbard hickory, regular, octagon 36 in.	per dozen	37 00	38.00
No. T02G—Hibbard hickory, slim, oval 36 in.	per dozen	37 00	38.00
No. T02K—Hibbard oak, regular, oval 36 in.	per dozen	36.00	37.00

UNHANDLED

W't, Assorted, lbs.	3½to4½	4to5
W't per doz., lbs.	54	59
No. T02—Full dozen case per dozen	$26.00	27.00
No. 02—Less than case per dozen	28.00	29.00

ONE DOZEN IN A CASE



DOUBLE BIT
MICHIGAN PATTERN

HANDLED

Kind of Handle	W't, Assorted, lbs.	3½to4½	4to5
	W't per doz., lbs.	74 doz.	79 doz.
No. T010L— hickory, regular, oval 36 in.		$47.00	48 00
No. T010P—Hibbard hickory, regular, oval 36 in'		44.00	45 00
No. T010T—Hibbard hickory, slim, oval 36 in.		44.00	45 00

UNHANDLED

W't, Assorted, lbs.	3½to4½	4to5
W't per doz., lbs.	54 doz.	59 doz.
No. T010—Full doz. case	$34.00	35 00
No. 010—Less than case	36.00	37.00

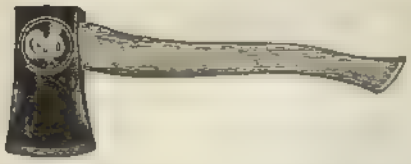
ONE DOZEN IN A CASE

HOUSE AXES

Extra quality forged crucible steel, smooth ivory black finish, fitted with extra quality 19 in. hickory handle.

Nos.		
W't less handle, lbs.	2½	2¾
W't per dozen, lbs.	30	39
Per dozen	$21.00	26.00

HALF DOZEN IN A BOX



No. 17—Cruso, good quality forged steel, black finish, w't less handle 2½ lbs., fitted with medium quality 19 in. hickory handle, w't per dozen 30 lbs. .....per dozen $18.50

HALF DOZEN IN A BOX
WE DO NOT BREAK BOXES

SHEATHS AND BELTS

SHEATHS ONLY

Select brown leather sheaths, with belt loops and nickeled snap catch, but without belt, w't per doz. about 1¾ lbs.

No. 1½—Will fit any of our Scout or Camp axes .....per dozen $6.00

BELTS ONLY

Select black leather belts, 1 in. wide, nickeled steel buckle, for use with above sheaths.

No. 10—Length 30 in., w't per doz. 1¾ lbs. .....per dozen $4.50

BOY SCOUT AXES

One of the handiest tools in our line. While originally designed for the youthful scout, these axes have a far larger field of service. No camping or touring equipment is complete without one. They are just right for many uses around the house or yard, and will stand severe service.

Forged from one piece of highest grade crucible steel, with nail-slot. Smooth gun metal black finish. Keen tough-tempered bit. Handle is finest second growth hickory, stained an attractive forest green. Each tool is fully warranted.

AXES ONLY

No. 28—W't with handle 27 oz., width of cut 3½ in., length of handle over all 14½ in., without sheath or belt, w't per dozen 16 lbs., per dozen $24.00

HALF DOZEN IN A BOX

AXE WITH SHEATH

No. 28S—Axe, as above, with No. 1½ sheath, without belt, per dozen $30 00

AXE WITH BELT AND SHEATH

No. 28BS—With No. 1½ sheath and No. 10 belt, per dozen $34.00

HALF DOZEN IN A BOX

CAMP OR HUNTERS' AXES

Hand forged, black gun-metal finish, one-piece highest grade crucible steel, with select white hickory handles.

No. 21½—W't with handle 27 oz., 3½ **in. cut** with 14½ in. handle, w't per dozen 16 lbs., per dozen $24.00

No. 23—W't with handle 35 oz., 3½ **in. cut,** 14½ in. handle, w't per dozen 25 lbs. .....per dozen $24.50

HALF DOZEN IN A BOX

No. 23½—Cruso, black finish, solid forged steel, w't with handle 31 oz., 3¾ in. cut, with 14½ in. hickory handle, w't per doz. 20 lbs., per dozen $23.00

HALF DOZEN IN A BOX

Converted cast steel heat treated and tempered, black finish, good hickory handle. Not warranted.

AXES ONLY

No. 20—Calumet, w't ¾ lb., 3½ in. with 14 in. Forest-Green stained hickory handle, w't per doz. 20 lbs., per dozen $12.00

HALF DOZEN IN A BOX
WE DO NOT BREAK BOXES

AXE, WITH SHEATH

No. 20S—Calumet, axe as above, with No. 1½ sheath, without belt, per dozen $18.00

AXE, WITH BELT AND SHEATH

No. 20BS—Calumet, axes as above, with No. 1½ sheath and No. 10 belt, per dozen $22.00

HALF DOZEN IN A BOX

FIREMEN'S HANDLED AXES

H&S extra quality forged crucible tool steel body and pick point, painted red, polished bit, carefully hand tempered. Fitted with 36 in. select hickory handle, painted red.

W't, without handle, lbs.	4	5
W't per doz., handled, lbs.	80	90
No. T7—Full dozen case .....per dozen	$37.00	39.00
No. 7—Less than case .....per dozen	39.00	41.00

ONE DOZEN IN A CASE

MEN'S HANDLED AXES

CAMP FIRE, Michigan pattern, forged steel, body painted red and labeled, polished bit, with pressed blue bevels. Fitted with 36 in. good grade oval hickory handle. One of our best sellers.

W't, Asst., lbs.	3to4	3½to4½	4to5
W't per doz., handled, lbs.	65	70	75
No. T101J—Full half dozen case, per dozen	$30.00	31.00	32.00
No. 101J—Less than case, per dozen	$32.00	33.00	34.00

ONE DOZEN IN A CASE

CRUSO, Michigan pattern, forged steel, black finish. Fitted with good 36 in. oval hickory handle. Medium quality, not warranted, but a surprising value at the price.

W't, Asst., lbs.	3to4	3½to4½	4to5
W't per doz., handled, lbs.	65	70	75
No. T91S—Full one dozen case, per dozen	$26.00	27.00	28.00
No. 91S—Less than case, per dozen	$28.00	29.00	30.00

ONE DOZEN IN A CASE

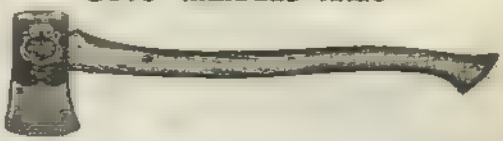
MINERS' HANDLED AXES

CRUSO. Yankee pattern, forged steel black finish, fitted with good 26 in. oval hickory straight miners' handle.

W't, Asst., lbs.	3to4	3½to4½
W't per doz., handled, lbs.	63	68
No. T92W—Full dozen case ....per dozen	$26.00	27.00
No. 92W—Less than case .....per dozen	28.00	29.00

ONE DOZEN IN A CASE

BOYS' HANDLED AXES



H&S, bronzed with polished bit, Yankee pattern, solid crucible steel, with 28 in. oval hickory handles.

No. T24—Full half dozen crate .....per dozen $21.00
No. 24—Less than crate .....per dozen 23.00

W'T PER DOZEN 35 LBS.

HALF DOZEN IN A CRATE

HIBBARD, black finish. Yankee pattern, solid forged steel, with 28 in. oval hickory handles.

No. T25—Full half dozen crate .....per dozen 20.00
No. 25—Less than crate .....per dozen 22.00

W'T PER DOZEN 35 LBS.

HALF DOZEN IN A CRATE

CAMP FIRE, good quality forged steel, body painted red, polished bit, pressed blue bevels, with 28 in. white hickory handle.

No. T2—Full half dozen crate .....per dozen $20.00
No. 2—Less than crate .....per dozen 22.00

W'T PER DOZEN 35 LBS.

HALF DOZEN IN A CRATE

CRUSO, good quality forged steel, black finish, with 28 in. medium hickory handle.

No. T13—Full half dozen crate .....per dozen $18.00
No. 13—Less than crate .....per dozen 20.00

W'T PER DOZEN 35 LBS.

HALF DOZEN IN A CRATE

BROAD AXES

Extra quality forged tool steel, ivory black rust-proof polished finish, polished face and bevel.

Large, full eye, built to take a stout, husky handle.

Eye very broad, giving a better hold and leverage on the handle. Eye set close to the blade, gives user perfect control of the cutting edge.

Long, narrow blade, carried full to end of cutting edge, the weight evenly distributed. Makes a perfect balance for a true stroke.

A straight edge, laid from top of head to cutting edge, touches the bottom of the eye and cutting edge only. The head set forward slightly, axe cannot bind in the wood.

Ground accurately, with a perfectly straight edge, except that the corners are set forward slightly giving timber spring. Corners cannot catch or gouge.

Improved Canada Pattern, Round Edge, Ridge Bit.

Nos.	67	78
W't, assorted, lbs.	6to7	7to8
Width of cut, in.	10to11	11to12
Per dozen	$90.00	96.00

BARTON'S, Canada pattern, round edge, extra quality forged steel, black finish, polished face and bevel.

Nos.	75A67	75A78
W't, assorted, lbs.	6to7	7to8
Width of cut, in.	10to11	11to12
Per dozen	$120.00	130.00

HALF DOZEN IN A CASE

Pennsylvania Pattern, Curved Edge.

Forged steel, black finish, curved edge, polished face and bevel.

No. 670—Assorted 6 to 7 lbs., width of cut 9½ to 10½ in., per dozen $80 00

HALF DOZEN IN A CASE

CARPENTERS' ADZES

No. 10—Half head, extra quality forged tool steel, ivory black rust-proof polished finish, **assorted 3½ to 4½ in.** cut, w't per doz. 48 lbs., per dozen $32.00

WHITE'S

No. 11½—Half head, extra quality forged steel, black finish, polished bit, **assorted 3½ to 4½ in.** cut, w't per doz. 48 lbs., per dozen $60.00

HALF DOZEN IN A CASE

SHIP ADZES

No. 30—Spur head, extra quality forged tool steel, plain bit, ivory black rust-proof polished finish, **assorted 4 to 4½ in.** cut, w't per doz. 36 lbs., per dozen $40.00

WHITE'S

No. 31½—Spur head, extra quality forged steel, black finish, polished bit, **assorted 4 to 4½ in.** cut, w't per doz. 36 lbs. per dozen $72.00

HALF DOZEN IN A CASE

RAILROAD ADZES

No. 52—Cruso, Pick eye, special quality forged steel, black hand-forged finish, width of cut 5 in., w't per doz. 66 lbs., per dozen $20.00

No. 50—Cruso, regular eye, full head, special quality forged steel, black hand forged finish, width of cut 5 in., w't per doz. 51 lbs., per dozen $24 00

HALF DOZEN IN A CASE

OVB BRONZED HATCHETS

A line of Hatchets expressly made for the carpenter and builder, whose requirements are most exacting. We would not know where to look for better quality, pattern and construction in any hatchet than we have attained in OVB. Each tool is forged from highest quality tool steel, scientifically heat-treated, and tempered to give a cutting edge which is hard, yet tough. So seldom is resharpening required that the OVB Hatchets will be found remarkably long-lived

Each hatchet is fitted with a well-shaped handle of selected white second growth hickory, waxed, with flared end to prevent slipping. The balance or "hang" is correct for easy, fast and accurate work. Heads are beautifully shaped, with smooth, gold-bronzed finish, and highly polished bit and face. A display of these tools in the dealer's window or show case is a joy to behold. EACH OVB HATCHET IS FULLY WARRANTED.

SHINGLING

Nos.	401	402
Size	1	2
Cut, in.	3½	4
W't less handle, oz.	17	23
W't per doz., lbs.	20	26
Per dozen	$23.00	24.00

HALF DOZEN IN A BOX

CLAW

Nos.	411	412
Size	1	2
Cut, in.	3½	4
W't less handle, oz.	19	25
W't per doz., lbs.	22	27
Per dozen	$25.00	26.00

HALF DOZEN IN A BOX

HALF

Nos.	421	422
Size	1	2
Cut, in.	3½	3½
W't less handle, oz.	15	21
W't per doz., lbs.	20	24
Per dozen	$24.00	25.00

HALF DOZEN IN A BOX

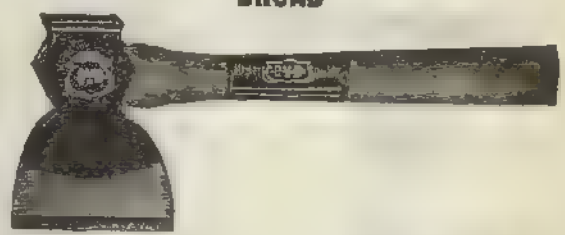
LATH

Scored Face.

Nos.	431	432
Size	1	2
Cut, in.	2½	2½
W't less handle, oz.	14	17
W't per doz., lbs.	18	26
Per dozen	$23.00	24.00

HALF DOZEN IN A BOX

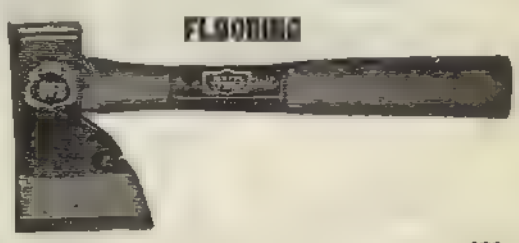
BROAD



Nos.	441	442	443	444
Size	1	2	3	4
Cut, in.	4	4½	5	5½
W't less handle, lbs.	1½	1¾	2¼	2½
W't per doz., lbs.	25	30	35	40
Per dozen	$28.00	33.00	36.00	39.00

HALF DOZEN IN A BOX

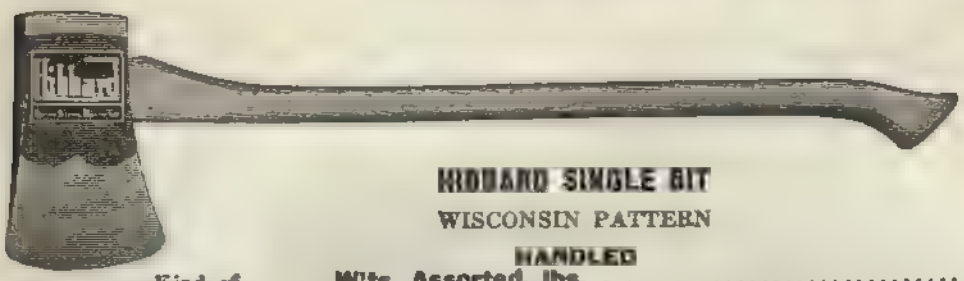
FLOORING



Nos.	451	452
Size	1	2
Cut, in.	3½	4½
W't less handle, lbs.	22	27
W't per doz., lbs.	25	27
Per dozen	$31.00	34.00

HALF DOZEN IN A BOX

HIBBARD BRONZED AXES



HIBBARD SINGLE BIT

WISCONSIN PATTERN

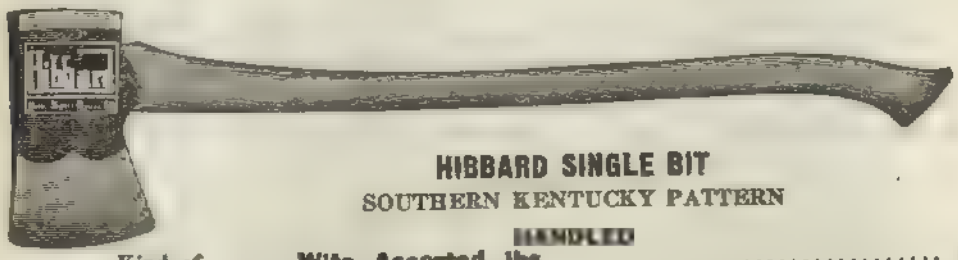
HANDLED

Kind of Handle — W't per doz., lbs.	3½to3¾
	69
No. T33C—CVB hickory, regular, oval 36 in.	per dozen $38.00
No. T33G—Hibbard hickory, slim, oval 36 in.	per dozen 35.00
No. T33H—Hibbard hickory, slim, oval 33 in.	per dozen 35.00
No. T33K—Hibbard oak, regular, oval, 36 in.	per dozen 34.00

UNHANDLED

W'ts, Assorted, lbs.	3½to3¾
W't per doz., lbs.	49
No. T33—Full dozen case	per dozen $24 00
No. 33—Less than case	per dozen 26.00

ONE DOZEN IN A CASE



HIBBARD SINGLE BIT

SOUTHERN KENTUCKY PATTERN

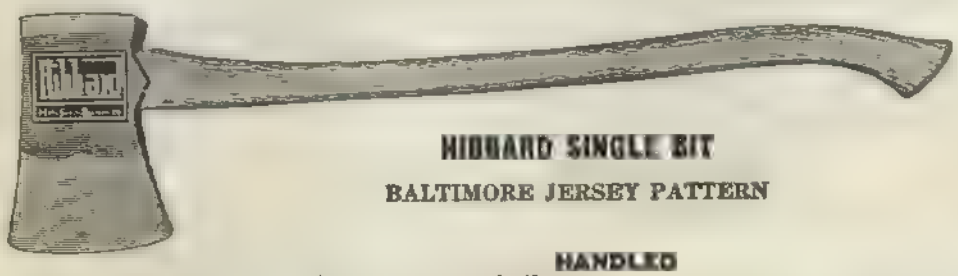
HANDLED

Kind of Handle — **W'ts, Assorted, lbs.**	3½to4½	4to5	4½to5½
W't per doz., lbs.	74	79	84
No. T34E—Hibbard hickory, regular, oval 36 in. — per dozen	$36.00	37.00	38.00
No. T34F—Hibbard hickory, regular, octagon 36 in. — per dozen	36.00	37.00	38.00
No. T34J—Ill-a-noy hickory, regular, oval 36 in. — per dozen	33.00	34.00	35.00

UNHANDLED

W'ts, Assorted, lbs.	3½to4½	4to5	4½to5½
W't per doz., lbs.	54	59	64
No. T34—Full dozen case — per dozen	$25.00	26.00	27 00
No. 34—Less than case — per dozen	27.00	28.00	29.00

ONE DOZEN IN A CASE



HIBBARD SINGLE BIT

BALTIMORE JERSEY PATTERN

HANDLED

Kind of Handle — **W'ts, Assorted, lbs.**	3½to4½	4to5	4½to5½
W't per doz., lbs.	74	79	84
No. T36E—Hibbard hickory, regular, oval 36 in. — per dozen	$36.00	37.00	38.00
No. T36F—Hibbard hickory, regular, octagon 36 in. — per dozen	36.00	37.00	38 00
No. T36J—Il-a-noy hickory, regular, oval 36 in. — per dozen	33.00	34.00	35.00

UNHANDLED

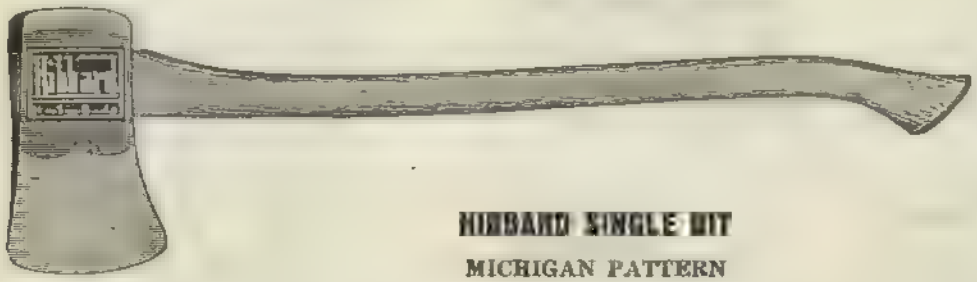
W'ts, Assorted, lbs.	3½to4½	4to5	4½to5½
W't per doz., lbs.	54	59	64
No. T36—Full dozen case — per dozen	$25.00	26.00	27 00
No. 36—Less than case — per dozen	27.00	28.00	29.00

ONE DOZEN IN A CASE

HIBBARD BRONZED AXES

AXES—Highest Quality Forged Crucible Steel, Gold Bronzed Body, Polished Bits, Carefully Hand tempered. Warranted Against Defects in Material and Workmanship.

HANDLES—Our Handles are Specially Graded and Gauged for the Purpose and We Guarantee Correct "Hang" and Secure Wedging.



HIBBARD SINGLE BIT

MICHIGAN PATTERN

HANDLED

Kind of Handle	W't, Assorted, lbs. / W't per doz., lbs.		3to4 / 69	3½to3¾ / 69	3¾to4 / 72	3¾to4½ / 74	4to5 / 79
No. T31C—Civil hickory, regular, oval 36 in.		per dozen	$38 00	38.00	39 00	39.00	40 00
No. T31E—Hibbard hickory, regular, oval 36 in.		per dozen	35 00	35.00	36.00	36.00	37.00
No. T31F—Hibbard hickory, regular, octagon 36 in.		per dozen	35.00	35.00	36.00	36.00	37.00
No. T31G—Hibbard hickory, slim, oval 36 in.		per dozen	35.00	35.00	36.00	36.00	37.00
No. T31H—Hibbard hickory, slim, oval 33 in.		per dozen	35.00	35.00	36.00	36 00	37 00
No. T31K—Hibbard oak, regular, oval 36 in.		per dozen	34.00	34.00	35 00	35.00	36.00
No. T31J—II-a-noy hickory, regular, oval 36 in.		per dozen	32.00	32.00	33.00	33.00	34 00

UNHANDLED

W'ts, Assorted, lbs. / W't per doz., lbs.		3to4 / 49	3½to3¾ / 49	3¾to4 / 52	3¾to4½ / 54	4to5 / 59
No. T31—Full dozen case	per dozen	$24.00	24.00	25.00	25.00	26.00
No. 31—Less than case	per dozen	26.00	26.00	27.00	27.00	28.00

ONE DOZEN IN A CASE

HIBBARD SINGLE BIT

DAYTON PATTERN

HANDLED

Kind of Handle	W't, Assorted, lbs. / W't per doz., lbs.		3½to4½ / 74	4to5 / 79	4½to5½ / 84
No. T32C—Civil hickory, regular, oval 36 in.		per dozen	$39.00	40 00	41 00
No. T32E—Hibbard hickory, regular, oval 36 in.		per dozen	36.00	37.00	38 00
No. T32F—Hibbard hickory, regular, octagon 36 in.		per dozen	36 00	37 00	38 00
No. T32J—II-a-noy hickory, regular, oval 36 in.		per dozen	33.00	34.00	35.00

UNHANDLED

W'ts, Assorted, lbs. / W't per doz., lbs.		3½to4½ / 64	4to5 / 59	4½to5½ / 64
No. T32—Full dozen case	per dozen	$25.00	26 00	27.00
No. 32—Less than case	per dozen	27.00	28 00	29.00

ONE DOZEN IN A CASE

VALLEY FORGE AXES

AXES—Good Quality Forged Steel, Black Forge Finish, Well Tempered and Sharpened. A Good Reliable Axe—Will Stand Hard Service, but Because of its Price Cannot be sold with a Warranty.

HANDLES—Our handles are Specially Graded and Gauged for the Purpose and We Guarantee Correct "Hang" and Secure Wedging.

VALLEY FORGE SINGLE BIT

MICHIGAN PATTERN

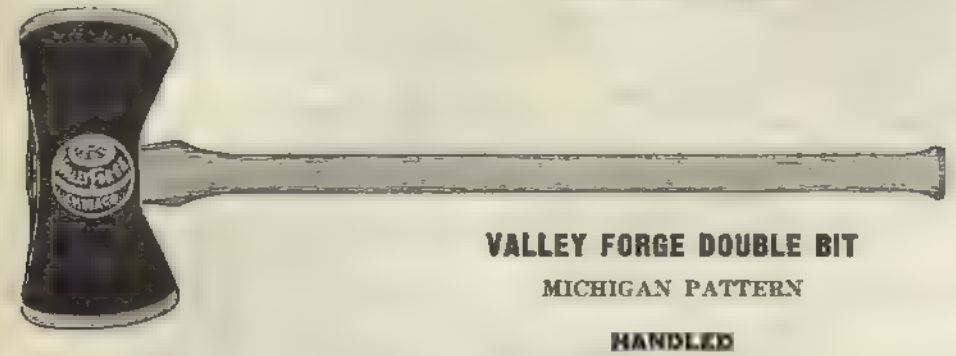
HANDLED

Kind of Handle	W't, Assorted, lbs. / W't per doz., lbs.		3to4 / 69	3½to4½ / 74	4to5 / 79
No. T61C—[illegible] hickory, regular, oval 36 in.		per dozen	$36.00	37.00	38.00
No. T61E—Hibbard hickory, regular, oval 36 in.		per dozen	33.00	34.00	35.00
No. T61F—Hibbard hickory, regular, octagon 36 in.		per dozen	33.00	34.00	35.00
No. T61G—Hibbard hickory, slim, oval 36 in.		per dozen	33.00	34.00	35.00
No. T61K—Hibbard, oak, regular, oval 36 in.		per dozen	32.00	33.00	34.00
No. T61J—Il-a-noy hickory, regular, oval 36 in.		per dozen	30.00	31.00	32.00

UNHANDLED

		3to4	3½to4½	4to5
W't, Assorted, lbs.				
W't per doz., lbs.		49	54	59
No. T61—Full dozen case	per dozen	$22.00	23.00	24.00
No. 61—Less than case	per dozen	24.00	25.00	26.00

ONE DOZEN IN A CASE



VALLEY FORGE DOUBLE BIT

MICHIGAN PATTERN

HANDLED

Handle Kind of	W't per doz., lbs. / W't, Assorted, lbs.		3to4 / 69	3½to4½ / 74	4to5 / 79
No. T610L—[illegible] hickory, regular, oval 36 in.		per dozen	$38.00	39.00	40.00
No. T610P—Hibbard hickory, regular, oval 36 in.		per dozen	35.00	36.00	37.00
No. T610T—Hibbard hickory, slim, oval 36 in.		per dozen	35.00	36.00	37.00

UNHANDLED

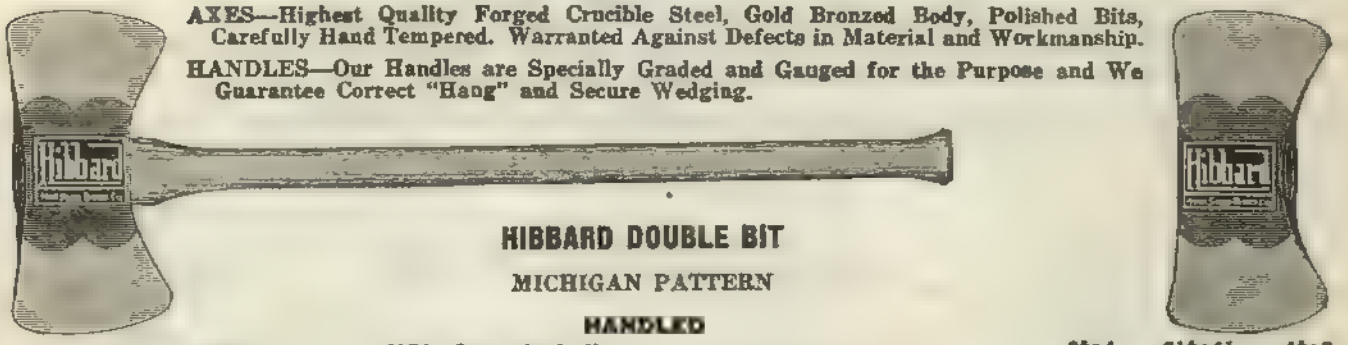
		3to4	3½to4½	4to5
W't, Assorted, lbs.				
W't per doz., lbs.		49	54	59
No. T610—Full dozen case	per dozen	$24.00	25.00	26.00
No. 610—Less than case	per dozen	26.00	27.00	28.00

ONE DOZEN IN A CASE

HIBBARD BRONZED AXES

AXES—Highest Quality Forged Crucible Steel, Gold Bronzed Body, Polished Bits, Carefully Hand Tempered. Warranted Against Defects in Material and Workmanship.

HANDLES—Our Handles are Specially Graded and Gauged for the Purpose and We Guarantee Correct "Hang" and Secure Wedging.



HIBBARD DOUBLE BIT

MICHIGAN PATTERN

HANDLED

Kind of Handle	W't, Assorted, lbs. / W't per doz., lbs.	3to4	3½to4½	4to5
		69	74	79
No. T310L—G.V.B. hickory, regular, oval 36 in.	per dozen	$46.00	47.00	48.00
No. T310P—**Hibbard** hickory, regular, oval 36 in.	per dozen	43.00	44.00	45.00
No. T310T—**Hibbard** hickory, slim, oval 36 in.	per dozen	43.00	44.00	45.00

UNHANDLED

W't, Assorted, lbs.		3½to4½	4to5
W't per dozen, lbs.		54	59
No. T310—Full dozen case	per dozen $32.00	33.00	34.00
No. 310—Less than case	per dozen 34.00	35.00	36.00

ONE DOZEN IN A CASE

HIBBARD DOUBLE BIT

WESTERN PATTERN

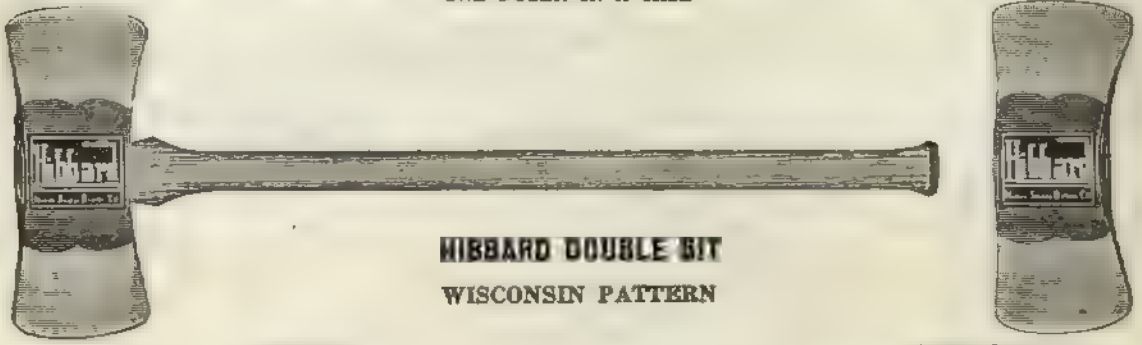
HANDLED

Kind of Handle	W't, Assorted, lbs. / W't per doz., lbs.	3½to4½	4to5
		74	79
No. T320L—G.V.B. hickory, regular, oval 36 in.	per dozen	47 00	48.00
No. T320P—**Hibbard** hickory, regular, oval 36 in.	per dozen	44.00	45 00
No. T320T—**Hibbard** hickory, slim, oval 36 in.	per dozen	44.00	45.00

UNHANDLED

W't, Assorted, lbs.		3½to4½	4to5
W't per doz., lbs.		54	59
No. T320—Full dozen case	per dozen $33.00	34.00	
No. 320—Less than case	per dozen 35.00	36.00	

ONE DOZEN IN A CASE



HIBBARD DOUBLE BIT

WISCONSIN PATTERN

HANDLED

Kind of Handle	W't, Assorted, lbs. / W't per dozen, lbs.	3½to3¾
		69
No. T330L—G.V.B. hickory, regular, oval 36 in.	per dozen	$46.00
No. T330T—**Hibbard** hickory, slim, oval 36 in.	per dozen	43.00

UNHANDLED

W'ts, Assorted, lbs.	3½to3¾
W't per dozen, lbs.	49
No. T330—Full doz. case, per dozen	$32 00
No. 330—Less than case, per dozen	34.00

ONE DOZEN IN A CASE

IVORY BLACK AXES

AXES—Highest Quality Forged Crucible Steel, Smooth Ivory Black Finish with Trade Mark Deep Etched in Gold. Carefully Hand Tempered, Keen, Thin-Ground Bits, with Edges Polished and Hand-Honed. Warranted Against Defects in Material and Workmanship. Our Most Practical and Beautiful Finish.

HANDLES—Our Handles are Specially Graded and Gauged for the Purpose and We Guarantee Correct "Hang" and Secure Wedging.

SINGLE BIT

MICHIGAN PATTERN

HANDLED

Kind of Handle / W't per doz., lbs.		3to4 69	3½to3¾ 69	3½to4 72	3½to4½ 74	4to5 79
No. T011C— hickory, regular, oval 36 in.	per dozen	$40.00	40.00	41.00	41.00	42.00
No. T011E—Hibbard hickory, regular, oval 36 in.	per dozen	37.00	37.00	38.00	38.00	39.00
No. T011F—Hibbard hickory, regular, octagon 36 in.	per dozen	37.00	37.00	38.00	38.00	39.00
No. T011G—Hibbard hickory, slim, oval 36 in.	per dozen	37.00	37.00	38.00	38.00	39.00
No. T011H—Hibbard slim, oval 33 in.	per dozen	37.00	37.00	38.00	38.00	39.00
No. T011K—Hibbard oak, regular, oval 36 in.	per dozen	36.00	36.00	37.00	37.00	38.00

UNHANDLED

W'ts, Assorted, lbs. / W't per doz., lbs.		3to4 49	3½to3¾ 49	3½to4 54	3½to4½ 54	4to5 59
No. T011—Full dozen case	per dozen	$26.00	26.00	27.00	27.00	28.00
No. 011—Less than case	per dozen	28.00	28.00	29.00	29.00	30.00

ONE DOZEN IN A CASE

SINGLE BIT

DAYTON PATTERN

HANDLED

Kind of Handle / W't per doz., lbs.		3½to4½ 74	4to5 79	4½to5½ 84
No. T012C— hickory, regular, oval 36 in.	per dozen	$41.00	42.00	43.00
No. T012E—Hibbard hickory, regular, oval 36 in.	per dozen	38.00	39 00	40.00
No. T012F—Hibbard hickory, regular, octagon 36 in.	per dozen	38.00	39.00	40.00

UNHANDLED

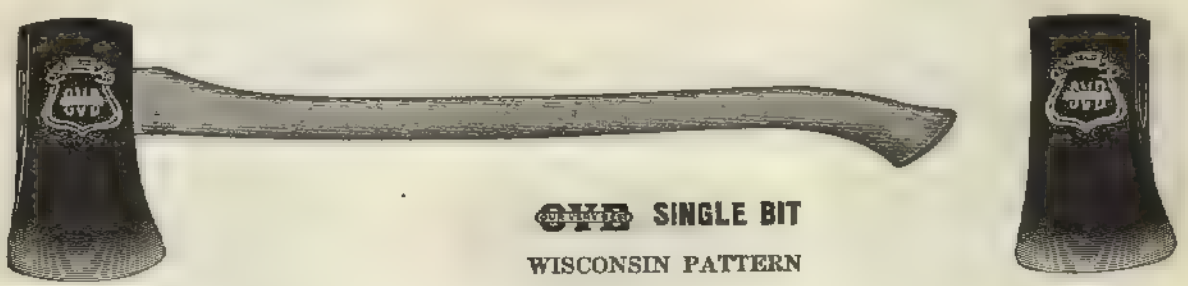
Kind of Handle / W't per doz., lbs.		3½to4½ 54	4to5 59	4½to5½ 64
No. T012—Full dozen case	per dozen	$27.00	28.00	29.00
No. 012—Less than case	per dozen	29.00	30.00	31.00

ONE DOZEN IN A CASE

OVD IVORY BLACK AXES

AXES—Highest Quality Forged Crucible Steel, Smooth Ivory Black Finish with OVD Trade Mark Deep Etched in Gold. Carefully Hand Tempered, Keen, Thin-Ground Bits, with Edges Polished and Hand-Honed. Warranted Against Defects in Material and Workmanship. Our most Practical and Beautiful Finish.

HANDLES—Our Handles are Specially Graded and Gauged for the Purpose and We Guarantee Correct "Hang" and secure Wedging.



OVD SINGLE BIT

WISCONSIN PATTERN

HANDLED

Kind of Handle / W't per doz., lbs.			
W't, Assorted, lbs.			**3½to3¾**
No. T013C—OVD hickory, regular, oval 36 in.	per dozen		$40.00
No. T013G—Hibbard hickory, slim, oval 36 in.	per dozen		37.00
No. T013H—Hibbard slim, oval 33 in.	per dozen		37.00
No. T013K—Hibbard oak, regular, oval 36 in.	per dozen		36.00

UNHANDLED

W'ts, Assorted, lbs.		**3½to3¾**
W't per doz., lbs.		49
No. T013—Full dozen case	per dozen	$26.00
No. 013—Less than case	per dozen	28.00

ONE DOZEN IN A CASE

OVD DOUBLE BIT

MICHIGAN PATTERN

HANDLED

Kind of Handle / W't per doz., lbs.				
W't, Assorted, lbs.		**3to4**	**3½to4½**	**4to5**
		69	74	79
No. T0110L—OVD hickory, regular, oval 36 in.	per dozen	$48.00	49.00	50.00
No. T0110P—Hibbard hickory, regular, oval 36 in.	per dozen	45 00	46.00	47.00
No. T0110T—Hibbard hickory, slim, oval 36 in.	per dozen	45.00	46.00	47.00

UNHANDLED

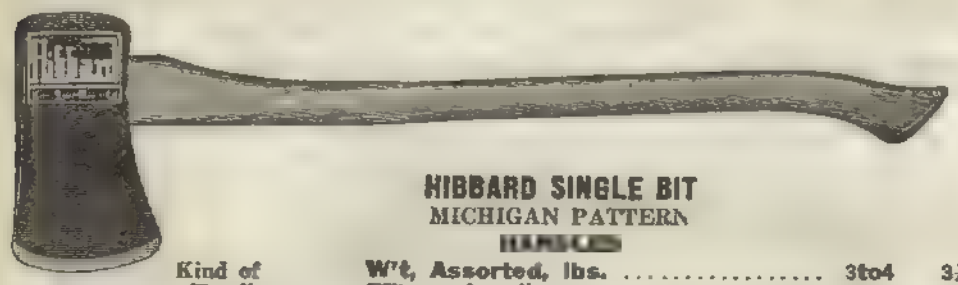
W t, Assorted, lbs.		**3to4**	**3½to4½**	**4to5**
W't per doz., lbs.		49	54	59
No. T0110—Full dozen case	per dozen	$34.00	35.00	36.00
No. 0110—Less than case	per dozen	36.00	37.00	38.00

ONE DOZEN IN A CASE

HIBBARD HAND MADE AXES

AXES—Highest Quality Forged Crucible Steel, With Natural Forged Finish. Carefully Hand Tempered. Warranted Against Defects in Material and Workmanship.

HANDLES—Our Handles are Specially Graded and Ganged for the Purpose and We Guarantee Correct "Hang" and Secure Wedging.



HIBBARD SINGLE BIT
MICHIGAN PATTERN

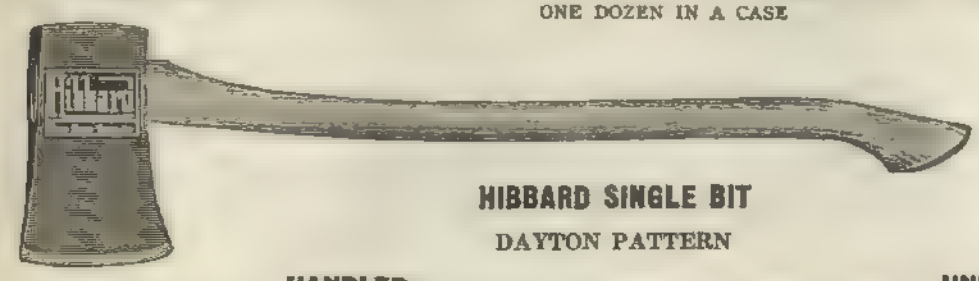
HANDLED

Kind of Handle	W't, Assorted, lbs. / W't per doz., lbs.		3to4	3½to3¾	3¾to4 72	3¾to4½ 74	4to5 79
No. T11C—GVB	hickory, regular, oval 36 in.	per dozen	$38.00	38.00	39 00	39 00	40 00
No. T11E—Hibbard	hickory, regular, oval 36 in.	per dozen	35.00	35 00	36 00	36 00	37.00
No. T11F—Hibbard	hickory, regular, octagon 36 in.	per dozen	35.00	35 00	36 00	36 00	37.00
No. T11G—Hibbard	hickory, slim, oval 36 in.	per dozen	35.00	35.00	36 00	36.00	37.00
No. T11H—Hibbard	hickory, slim, oval 33 in.	per dozen	35.00	35 00	36 00	36 00	37 00
No. T11K—Hibbard	oak, regular, oval 36 in.	per dozen	34.00	34.00	35.00	35.00	36 00
No. T11J—II-a-noy	hickory, regular, oval 36 in.	per dozen	32.00	32.00	33.00	33.00	34.00

UNHANDLED

W't, Assorted, lbs. / W't per doz., lbs.		3to4 49	3½to3¾ 49	3¾to4 52	3¾to4½ 54	4to5 59
No. T11—Full dozen case	per dozen	$24.00	24.00	25.00	25.00	26.00
No. 11—Less than case	per dozen	26.00	26 00	27.00	27 00	28.00

ONE DOZEN IN A CASE



HIBBARD SINGLE BIT
DAYTON PATTERN

HANDLED

Kind of Handle	W't Assorted, lbs., / W't per doz., lbs	3½to4½ 74	4to5 79
No. T12C—GVB	hickory, regular, oval 36 in.	$39.00	40.00
No. T12E—Hibbard	hickory, regular, oval 36 in.	36.00	37.00
No. T12F—Hibbard	hickory, regular, octagon 36 in.	36 00	37.00
No. T12J—II-a-noy	hickory, regular, oval 36 in.	33.00	34.00

UNHANDLED

W't, Assorted, lbs. / W't per doz., lbs.	3½to4½ 54	4to5 59
No. T12—Full dozen case	$25.00	26.00
No. 12—Less than case	27.00	28.00

HIBBARD DOUBLE BIT
MICHIGAN PATTERN

HANDLED

Kind of Handle	W't, Assorted, lbs. / W't per doz., lbs.		3to4 69	3½to4½ 74	4to5 79
No. T110L—GVB	hickory, regular, oval 36 in.	per dozen	$46 00	47.00	48 00
No. T110P—Hibbard	hickory, regular, oval 36 in.	per dozen	43.00	44.00	45.00
No. T110T—Hibbard	hickory, slim, oval 36 in.	per dozen	43.00	44.00	45.00

UNHANDLED

W't, Assorted, lbs. / W't per doz., lbs.		3to4 49	3½to4½ 54	4to5 59
No. T110—Full dozen case	per dozen	$32.00	33 00	34 00
No. 110—Less than case	per dozen	34.00	35.00	36.00

ONE DOZEN IN A CASE

U. S. A. AXES

AXES—Forged Steel Body, Extra Quality Crucible Tool Steel Bits, Full Polished, Blued and Etched, Carefully Hand Tempered, and Sharpened Ready for Use. An Axe of exceptional Quality and Handsome Appearance. Packed in Individual Wood Cartons, with Sliding Cover. Warranted against Defects in Material and Workmanship.

HANDLES—Our Handles are Specially Graded and Ganged for the Purpose and We Guarantee Correct "Hang" and Secure Wedging.

U. S. A. SINGLE BIT

MICHIGAN PATTERN

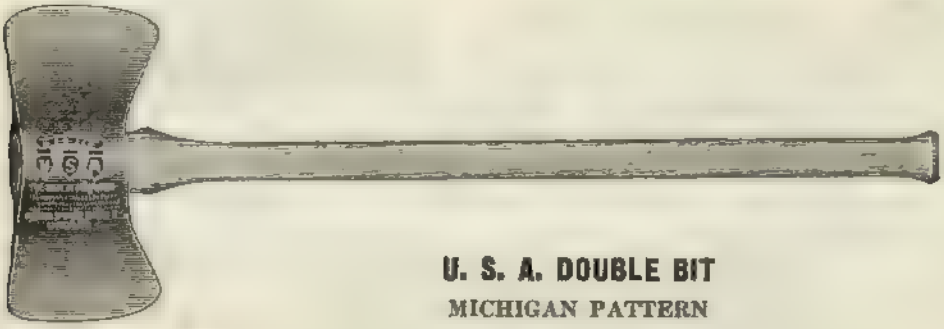
HANDLED

	Kind of Handle	W't, Assorted, lbs. ... W't per doz., lbs. ...	3to4 69	3½to3¾ 69	3¾to4 72	4to4½ 74	4½to5 79
No. T41C—U.S.A.	hickory, regular, oval 36 in.	per dozen	$40.00	40 00	41 00	41 00	42.00
No. T41E—Hibbard	hickory, regular, oval 36 in.	per dozen	37 00	37 00	38 00	38 00	39.00
No. T41F—Hibbard	hickory, regular, octagon 36 in.	per dozen	37 00	37 00	38 00	38 00	39 00
No. T41G—Hibbard	hickory, slim, oval 36 in.	per dozen	37.00	37.00	38.00	38.00	39.00
No. T41H—Hibbard	hickory, slim, oval 33 in.	per dozen	37 00	37.00	38 00	38.00	39.00
No. T41K—Hibbard	oak, regular, oval 36 in.	per dozen	36.00	36.00	37.00	37.00	38.00

UNHANDLED

	3to4	3½to3¾	3¾to4	4to4½	4½to5
W't, Assorted, lbs.					
W't per doz., lbs.	49	49	52	54	59
No. T41—Full dozen case, per dozen	$26.00	26.00	27.00	27.00	28.00
No. 41—Less than case, per dozen	28.00	28.00	29.00	29.00	30.00

ONE DOZEN IN A CASE



U. S. A. DOUBLE BIT

MICHIGAN PATTERN

HANDLED

	Kind of Handle	W't, Assorted, lbs. ... W't per doz., lbs. ...	3to4 69	3½to4½ 74	4to5 79
No. T410L—U.S.A.	hickory, regular, oval 36 in.	per dozen	$48 00	49 00	50.00
No. T410P—Hibbard	hickory, regular, oval 36 in.	per dozen	45 00	46 00	47.00
No. T410T—Hibbard	hickory, slim, oval 36 in.	per dozen	45.00	46.00	47.00

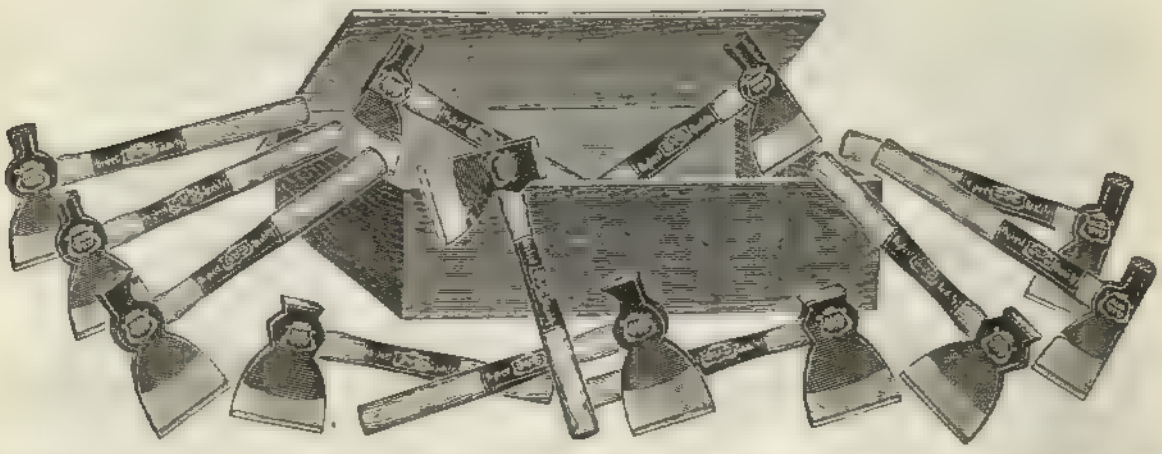
UNHANDLED

	3to4	3½to4½	4to5
W't, Assorted, lbs.			
W't per doz., lbs.	49	54	59
No. T410—Full dozen case, per dozen	$34.00	35.00	36 00
No. 410—Less than case, per dozen	36.00	37.00	38.00

ONE DOZEN IN A CASE

BRONZED HATCHETS

SPECIAL HATCHET ASSORTMENT



A convenient stock assortment for the dealer, in a single case. Made for the expert workman whose requirements are most exacting. We would not know where to look for better quality, pattern and construction in any hatchet than we have attained in . Each tool is forged from highest quality tool steel, scientifically heat-treated, and tempered to give a cutting edge which is hard, yet tough. So seldom is resharpening required that the Hatchets will be found remarkably long-lived.

Each hatchet is fitted with a well shaped handle of select white second growth hickory, waxed, with flared end to prevent slipping. The balance or "hang" is correct for easy, fast and accurate work. Heads are beautifully shaped, with smooth, gold-bronzed finish, and highly polished bit and face. A display of these tools in the dealer's window or show case is a joy to behold. EACH HATCHET IS FULLY WARRANTED.

No. 462—Case contains ⅛ dozen No. 402 Shingling, ¼ dozen No. 412 Claw, ¼ dozen No. 422 Half, ¼ dozen No. 432 Lath, ¼ dozen No. 442 Broad, and 1/12 dozen No. 452 Flooring; w't per assortment 30 lbs. .....per assortment **$26.50**

ONE ASSORTMENT IN A CASE. WE DO NOT BREAK CASES

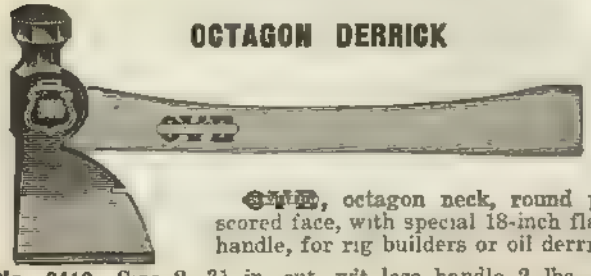
OCTAGON HALF
CAR BUILDERS' PATTERN

octagon neck, round poll; scored face, for builders, car repairers and general heavy work.

Nos.	0420	0430
Size	2	3
Cut, in.	3⅝	3¾
W't, less handle, oz.	32	36
W't, doz., lbs.	24	27
Per dozen	$31.00	33.00

HALF DOZEN IN A BOX

OCTAGON DERRICK



, octagon neck, round poll, scored face, with special 18-inch flared handle, for rig builders or oil derricks.

No. 0418—Size 2, 3¼ in. cut, w't less handle 2 lbs., w't per doz. 32 lbs. .....per dozen **$33.00**

HALF DOZEN IN A BOX

BARREL OR PRODUCE

Light pattern, scored face, with nail slots at lower and upper sides of blade. Pocket size.

No. 0412—2⅛ in. cut, w't less handle 12 oz., w't per doz. 18 lbs. **$25.00**

Heavy pattern, scored face, with nail slots in lower side of blade and in cutting edge.

No. 0414—2⅜ in. cut, w't less handle 14 oz., w't per doz. 22 lbs. .....per dozen **$25.00**

HALF DOZEN IN A BOX

POLISHED HATCHETS

A line of Hatchets expressly made for the carpenter and builder, whose requirements are most exacting. We would not know where to look for better quality, pattern and construction in any hatchet than we have attained in . Each tool is forged from highest quality tool steel, scientifically heat-treated, and tempered to give a cutting edge which is hard, yet tough. So seldom is resharpening required that the Hatchets will be found remarkably long-lived.

Each hatchet is fitted with a well-shaped handle of select white second growth hickory, waxed, with flared end to prevent slipping. The balance or "hang" is correct for easy, fast and accurate work. Heads are beautifully shaped, with full polished finish, etched with our trade-mark. A display of these tools in the dealer's window or show case is a joy to behold. EACH HATCHET IS FULLY WARRANTED.

SHINGLING

Nos.	101	102
Size	1	2
Cut, in.	3½	4
W't less handle, oz.	17	23
W't per doz., lbs.	20	26
Per dozen	$29.00	30.00

HALF DOZEN IN A BOX

CLAW

Nos.	111	112
Size	1	2
Cut, in.	3½	4
W't less handle, oz.	19	25
W't per doz., lbs.	22	27
Per dozen	$31.50	33.00

HALF DOZEN IN A BOX

HALF

Nos.	121	122
Size	1	2
Cut, in.	3½	3½
W't less handle, oz.	15	21
W't per doz., lbs.	20	24
Per dozen	$30.00	31.50

HALF DOZEN IN A BOX

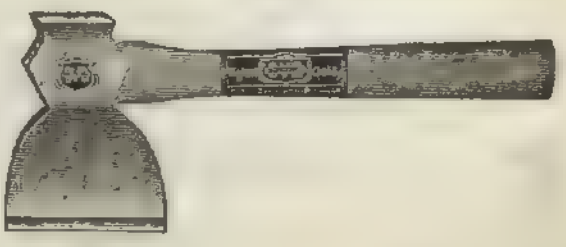
LATH

Scored Face.

Nos.	131	132
Size	1	2
Cut, in.	2½	2½
W't less handle, oz.	14	17
W't per doz., lbs.	18	20
Per dozen	$29.00	30.00

HALF DOZEN IN A BOX

BROAD



Nos.	141	142	143
Size	1	2	3
Cut, in.	4	4½	5
W't less handle, lbs.	1½	1¾	2¾
W't per doz., lbs.	25	30	35
Per dozen	$37.00	40.00	47.00

HALF DOZEN IN A BOX

HAMMERS

—Under this stamp and label we supply a complete line of Hammers, which the experience of many years has proven to be the finest obtainable from any source, whether judged by appearance, ability to stand hard service, or the "hang" and balance which so greatly enhance the ease and speed of operation.

Steel—Each hammer is forged from crucible steel of special analysis, tested constantly to insure uniformity of composition.

Temper—The tempering and hardening heats are regulated automatically by thermometer, so that definite and perfect uniformity of hardness and toughness results in each tool.

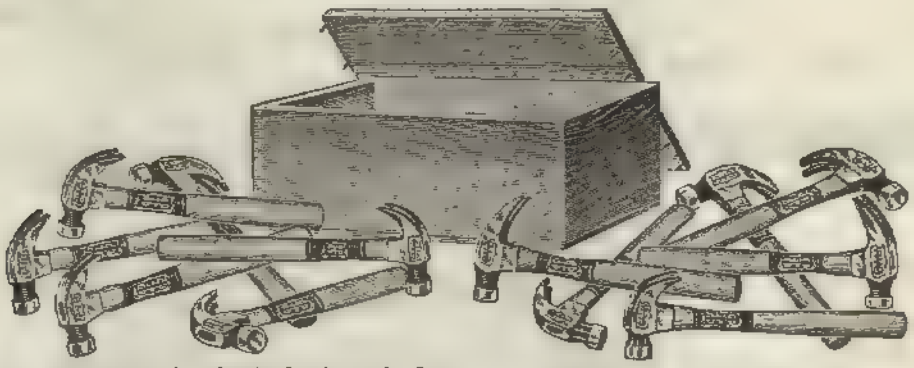
Faces—The striking faces are extremely hard, not brittle, and will do the severest legitimate work without cracking, denting or breaking down.

Patterns—The patterns embody the best suggestions of scores of practical mechanics, and each tool has the shape proven best for comfort and efficiency.

Handles—Handles are turned from the best second growth, white hickory, straight grain, made with full grip and securely wedged.

Finish—Each polished tool has a high mirror polish, while the artistic stamp and label brand each tool now and always

HAMMER ASSORTMENT



A convenient stock assortment for the dealer in a single case, comprising the best selling items, in proper proportions for quick turnover. Each Hammer fully warranted.

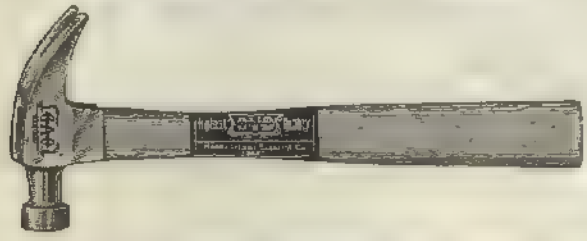
No. 100 —Assortment, case contains, 1/12 doz. No. 421½; 1/12 doz. No. 221½; ¼ doz. No. 11½ and ⅓ doz. No. 12 Nail Hammers and ⅓ doz. No. 11½R Ripping Hammers; w't per ass't 20 lbs., per assortment.....$23.30

ONE ASSORTMENT IN A CASE. WE DO NOT BREAK

ADZE EYE RIPPING

Plain poll, full polished, straight claws elect second growth white hickory handles.

No. 1½R—Size 1½, length overall 13 in., w't less handle 16 oz., w't per doz. 20 lbs.....per dozen **$23.50**



Bell face, full polished, straight claws, select second growth white hickory handles.

No. 11½R—Size 1½, length over all 13 in., w't less handle 16 oz., w't per doz. 20 lbs.....per dozen **$25.00**

ABOVE, HALF DOZEN IN A BOX

FARRIERS

Adze eye, octagon pattern, full polished.

No. 191—Size 3, length over all 13 in., w't less handle 10 oz., w't per doz. 12 lbs.....per dozen **$24.00**

HALF DOZEN IN A BOX

Adze eye, highest quality, solid forged steel, round poll, polished, extra select white hickory handle.

No. 192—Length over all 13 in., w't less handle 7 oz., w't per doz. 7 lbs.....per dozen **$21.00**

HALF DOZEN IN A BOX

HAMMERS

Steel—Crucible steel of special analysis, proven the best by years of experience, and tested constantly to insure uniformity of composition.

Temper—Tempering and hardening heats regulated automatically by thermometer. Steel of uniform composition, uniformly treated, must give uniformly perfect results.

Faces—Of extreme hardness, yet not brittle, will do the severest work without cracking, denting or breaking down.

Claws—Short, compact, tough, with fine drawn slot, whose sharp knife edge will grip and hold and pull straight any nail which will enter it.

NAIL HAMMER HEAD

Sectional cut of Bell Face Hammer Head, showing eye tapering from both ends towards the center, and Patent Wedge, which locks the handle perfectly. It cannot come out. Notice also the perfect proportions of the head.

Patterns—Embodying the best suggestions of scores of practical mechanics. No "hit or miss" designs, but the best shape in each tool for comfort and efficiency.

Handles—Turned from best second growth white hickory, split, not sawed, insuring straight grain. Made with full grip and sligthly flared end will not slip from hand. Wedged with patent wedges, heads and handles never part company.

Finish—A high mirror polish. The artistic stamp and label brand each tool now and always as .

OCTAGON NAIL

Octagon neck, octagon face, full nickel plated and burnished head, cherry stained select second growth hickory handles.

Nos.	421½	422
Size	1½	2
Length over all, in.	13	12½
W't less handle, oz.	17	14
W't per doz., lbs.	20	17
Per dozen	$36.00	34.00

Octagon neck, octagon face, full polished head, select second growth white hickory handles.

Nos.	221½	222
Size	1½	2
Length over all, in.	13	12½
W't less handle, oz.	17	14
W't per doz., lbs.	20	17
Per dozen	$29.00	27.50

TRIPLE CLAW FINISHERS

Solid forged steel, bell face, patent triple claw, full polished, select white hickory handle.

This hammer will pull nails that no other hammer can reach, and draw finishing nails straight out of the wood without using a block under the hammer head and wthout marring the surface. Pulls nails driven close to corners.

No.	611½
Length over all, in.	13
W't less handle, oz.	16
W't per doz., lbs.	16
Per dozen	$28.00

ABOVE, HALF DOZEN IN A BOX

ADZE EYE NAIL

Plain poll, full polished, select second growth white hickory handles.

Nos.	0	1	1½	2
Length over all, in.	14	13⅜	13	12½
W't less handle, oz.	28	20	16	13
W't per doz., lbs.	26	22	20	15
Per dozen	$37.00	25.00	23.50	22.00

Bell face, full polished, select second growth white hickory handles.

Nos.	11	11½	12	13	14
Length over all, in.	13¾	13	12⅜	11⅜	10⅞
W't less handle, oz.	20	16	13	7	4
W't per doz., lbs.	22	20	15	10	6
Per dozen	$26.00	25.00	23.50	22 50	22.00

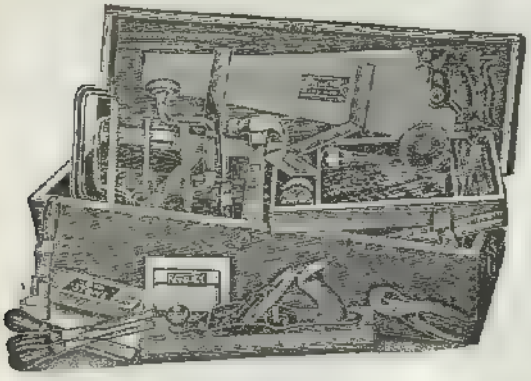
SCORED FACE NAIL

Special concentric scored bell face, full polished head, with select second growth, white hickory handle.

No. 321½—Size 1½, w't less handle 16 oz., w't per doz. 20 lbs. ..... per dozen $25.00

ABOVE, HALF DOZEN IN A BOX

TOOL CHESTS

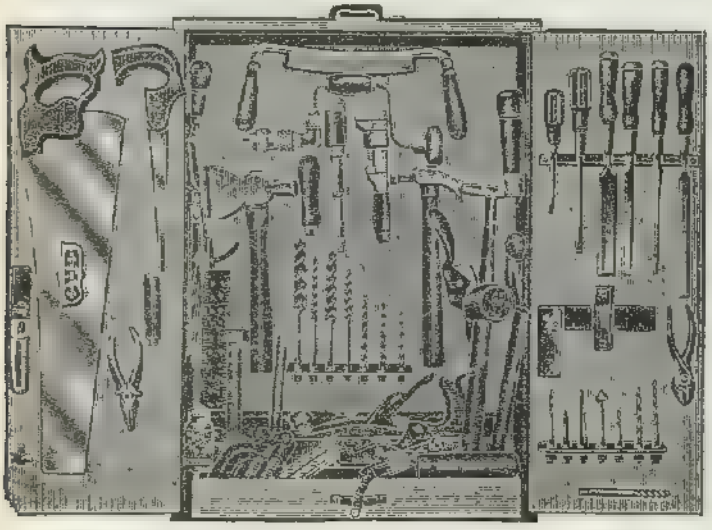


No. T140 REVONOC—Hardwood dovetailed box, with tray size 30x8½x7½ in., nicely finished, fitted with lock and key and enameled chest handles on ends—contains 40 high grade tools especially adapted for home and farm use, w't each 45 lbs. .....each **$36.00**

Contents One Each of the Following:

No. 211½ REVONOC Hammer.
24 in. No. 70 REVONOC Saw.
No. R26 REVONOC Plane.
Each ⅝, ¾ and 1¼ in. No. 415 REVONOC Chisels.
No. 208 REVONOC Brace.
Each 5/16, 7/16, 9/16, 11/16, 13/16 and 1 1/16 in. No. 26 REVONOC Auger Bits.
Each ¼, 5/32, 3/16, ¼ and 5/16 in. No. 108 REVONOC Bit Stock Drills.
Each 6 and 10 in. REVONOC Mill Files.
6 in. REVONOC Slim Taper File.
8 in. REVONOC Round Bastard File.
8 in. No. 14 REVONOC Wrench.
No. 600 REVONOC Pliers.
6 in. No. 6 REVONOC Screw Driver.
¾ in. REVONOC Cold Chisel.
No. 35½ REVONOC Nail Set.
No. 33 REVONOC Tape.
No. 127 REVONOC Screw Driver Bit.
No. 1 REVONOC Scratch Awl.
Brad Awl.
No. 1 Gimlet.
No. 121 Hack Saw Frame and Blade.
No. 100 Coping Saw and 1 doz. Blades.
No. 62 Marking Gauge.
No. 26 Try Square.
No. 61 Rule.
No. 277 Oil Stones.
No. 24 REVONOC Sand Paper Assortment.
No. 3 Chalk Line and Chalk.

TOOL CABINETS



No. T150 [illegible]—Hardwood, nicely varnished, dovetailed, with two paneled doors, brass hinges, lock with key and heavy brass bolt, outside measurement 31x22½x7½ in., inside measurement 29¾x21x7¼ in., inside drawer 19½x5x2 in., 60 best grade tools, w't each 85 lbs. ....each **$75.50**

Contents One Each of the Following:

8 in. [illegible] Drawing Knife.
No. 1908—8 in. [illegible] Ratchet Brace.
⅜, ½, ¾ and 1 in. [illegible] Auger Bits.
No. 30—4 and 9/32nds [illegible] Gimlet Bits.
No. 18 Countersink Bit.
8 in. [illegible] Mill File with Handle.
No. 2 Spoke Shave.
1 each No. 9A ¼, 3/16, ¼, 5/16 and ⅜ in. Drill Bits.
No. 1—½ in. [illegible] Reamer Bit.
No. 7 Screw Driver Bit, [illegible]
¼, ½ and 1 in. [illegible] Socket Firmer Beveled Chisels.
No. 31 Oiler.
No. 12 Mallet.
No. 2 Carriage Maker's Clamp.
No. 041 Yankee Hand Drill.
5½ in. [illegible] Slim Taper File, with Handle.
10 in. [illegible] Half Round Cabinet File, with Handle.

Contents—Continued.

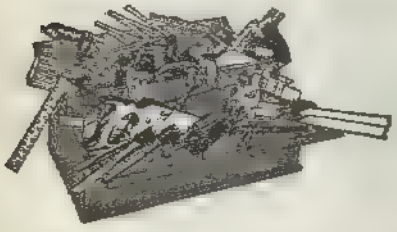
No. 716 Mounted Oil Stone.
No. 2 [illegible] Tool Handle.
3 in. [illegible] Screw Driver.
6 in. [illegible] Screw Driver.
8 in. [illegible] Wing Divider.
[illegible] Scratch Awl.
[illegible] Brad Awl.
No. 44 [illegible] Nail Set.
No. 206 [illegible] Combination Plier.
No. 5 Glass Cutter.
No. 22 [illegible] Cabinet Scraper.
No. 33 Measuring Tape.
No. 781 Carpenter's Pencil.
No. 62 Marking Gauge.
2 ounces LePage's Glue.
No. 60 ½ in. [illegible] Socket Firmer Gouge.
No. 00 [illegible] Level.
1 doz. No. 1—9 in. [illegible] Hack Saw Blades.
[illegible] Tack Claw.
No. 61 Rule.
8 in. Agricultural Wrench.
No. 26 REVONOC Jack Plane.
No. 9½ REVONOC Block Plane.
22 in. [illegible] Panel Saw.
12 in. [illegible] Compass Saw.
[illegible] Hack Saw Frame.
[illegible] Coping Saw.
No. 2 [illegible] Bell Face Nail Hammer.
No. 1 [illegible] Riveting Hammer.
No. 1 [illegible] Shingling Hatchet.
No. 10 [illegible] Blue Steel Square.
No. 20—6 in. [illegible] Try Square.
No. 25—8 in. [illegible] Sliding T Bevel.

STANLEY TOOL CHESTS AND ROLLS FOR BOY SCOUTS

The following chests have been designed especially for Boy Scouts. The officials of this organization have put these Tool Chests in the new Equipment number of Scouting. Appeals have been sent out to thousands of Boy Scouts and Adult Scout Leaders to put over new development in the scouting program in encouraging and interesting boys in the use of tools in the home.

The tools in these assortments are of the dependable Stanley quality. A practical collection of good tools for the home. All chests are made from hardwood nicely finished, 20 in. long, 10½ in. wide, 8 in. deep.

TOOL CHESTS

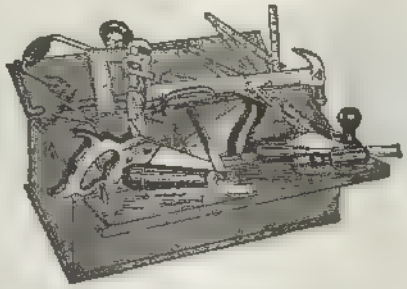


No. T888A—Contains 32 tools w't 35 lbs. .....each $54.50

Contents, one each of the following:

- No. 04 Stanley Zig Zag Rule
- No. 12, 13 oz. Stanley Hammer
- No. 302 Stanley Hollow Tool Set, containing
  - Gimlet
  - File
  - Saw
  - Chisel
  - Square Reamer
  - Small Screw Driver
  - Two Brad Awls
  - Extra Long Saw
- Pair Pliers
- ½ in. Stanley Cold Chisel
- 8 in. Adjustable Wrench
- No. 2, 6 in. Stanley Try and Mitre Square
- 16 in. Hand Saw
- No. 3 Stanley Bailey Plane
- Coping Saws with 12 extra blades
- No. 20 Stanley Hurwood Screw Driver
- No. 945, 8 in. Stanley Bit Brace
- ¼ in. Auger Bit
- ⅝ in. Auger Bit
- Gimlet Bit
- Sharpening Stone
- No. 40, 1 in. Stanley Chisel
- 8 in. Flat Mill File with Handle
- No. 62 Stanley Marking Gauge
- No. 742 Stanley Vise
- Glass Cutter
- No. 23 Stanley Countersink
- No. 10, 12 in. Stanley Steel Square
- Expansive Bit
- No. 11 Stanley Nail Set
- No. 104, 18 in. Stanley Level
- Adjustable Pipe Wrench
- No. 147, 4 oz. Stanley Riveting Hammer
- No. 3 Stanley Hand Drill
- Pair Pincers
- No. 40, ½ in., Stanley Chisel
- No. 10 Stanley Center Punch

TOOL CHESTS

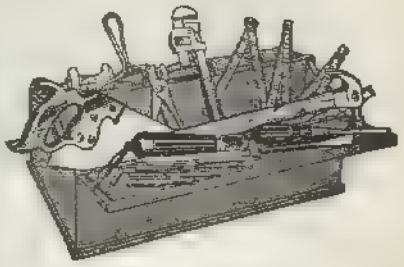


No. T888B—Contains 18 tools, w't 25 lbs. .....each $36.50

Contents, one each of the following:

- No. 04 Stanley Zig Zag Rule
- No. 12, 13 oz. Stanley Hammer
- No. 302 Stanley Hollow Tool Set, containing
  - Gimlet
  - File
  - Saw
  - Chisel
  - Square Reamer
  - Small Screw Driver
  - Two Brad Awls
  - Extra Long Saw
- Pair Pliers
- ½ in. Stanley Cold Chisel
- 16 in. Hand Saw
- No. 3 Stanley Bailey Plane
- Coping Saw with 12 extra blades
- No. 20, 4 in. Stanley Screw Driver
- No. 945, 8 in. Stanley Bit Brace
- ¼ in. Auger Bit
- ⅝ in. Auger Bit
- Gimlet Bit
- Sharpening Stone
- No. 10, 12 in. Stanley Steel Square
- No. 40, ¾ in. Stanley Chisel
- Glass Gutter
- Adjustable Pipe Wrench

TOOL CHESTS

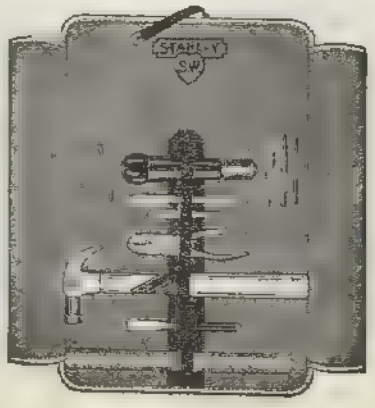


No. T888C—Contains 12 tools, w't 20 lbs. .....each $21.50

Contents, one each of the following:

- No. 04 Stanley Zig Zag Rule
- No. 12, 13 oz. Stanley Hammer
- No. 302 Stanley Hollow Tool Set, containing
  - Two Saws
  - Chisel
  - Gimlet Bit
  - Three-cornered Tapering File
  - Screw Driver
- Reamer
- Two Brad Awls
- Pair Pliers
- ½ in. Stanley Cold Chisel
- No. 20, 4 in. Stanley Hurwood Screw Driver
- Glass Cutter
- Coping Saw with extra blades
- Stanley Chalkline Reel
- Adjustable Pipe Wrench
- 16 in., 10 point Hand Saw
- No. 11 Stanley Nail Set

TOOL ROLLS



This set is designed for Boy Scouts and is included in the equipment recommended by this organization. Size 20 in. long, 14 in. wide, when opened.

No. 873—Contains 5 tools, w't 3 lbs., each $9.00

Contents, one each of the following:

- No. 12, 13 oz. Stanley Hammer
- ½ in. Stanley Cold Chisel
- No. 302 Stanley Tool Set containing
  - Gimlet
  - Saw
  - File
  - Chisel
  - Square Reamer
  - Small Screw Driver
  - Two Brad Awls
- Pair Pliers
- No. 61 Stanley Rule

ONE IN A BOX

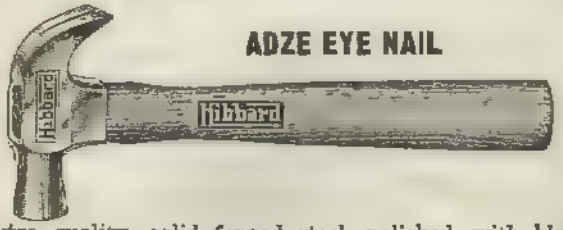
HIBBARD HAMMERS

HIBBARD Hammers are first quality in every particular, and in appearance and quality are fully up to the standard of the best and most widely known brands on the market. In price they will be found always favorable as compared to the ruling market prices on other high grade tools, and the dealer may feature and push this line with confidence that it will make friends for him and bring "repeat" orders.

Each tool is forged from extra quality, crucible steel, hardened and tempered with the utmost care. The patterns are standard, and will meet the approval of expert workmen.

Handles of select white hickory, properly shaped and "hung"; finish, branding and labeling so attractive as to greatly aid their salability. Each HIBBARD Tool fully warranted against defects in material or workmanship.

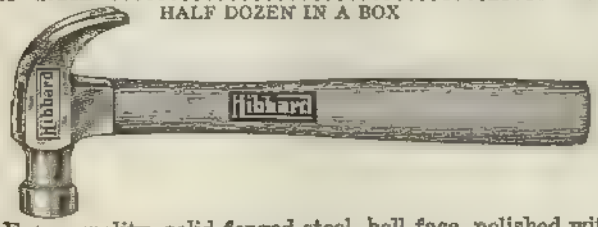
ADZE EYE NAIL



Extra quality, solid forged steel, polished, with black neck, select white hickory handle.

Nos.	201	201½
Size	1	1½
Length, over all in.	14	13
W't less handle, oz.	20	16
W't per doz., lbs.	22	18½
Per dozen	$23.00	21.00

HALF DOZEN IN A BOX

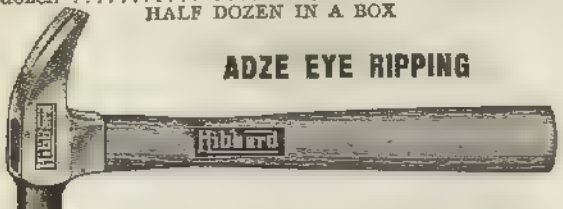


Extra quality, solid forged steel, bell face, polished with black neck, select white hickory handle.

Nos.	211	211½	212	213
Size	1	1½	2	3
Length over all, in.	14	13	12½	12
W't less handle, oz.	20	16	13	7
W't per doz., lbs.	22	18½	15	10
Per dozen	$23.00	21.00	20.00	19.00

HALF DOZEN IN A BOX

ADZE EYE RIPPING

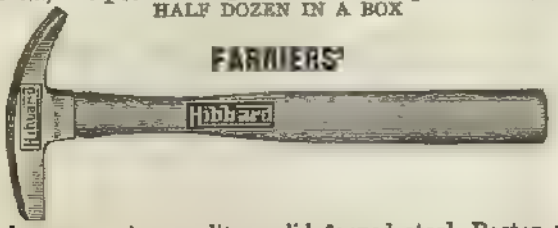


Bell face, polished, except neck. Extra quality, solid forged steel, polished, with black neck, select white hickory handle.

No. 211½R—Size 1½, length over all 13 in., w't less handle 16 oz., w't per doz. 18½ lbs. .....per dozen $21.00

HALF DOZEN IN A BOX

FARRIERS'

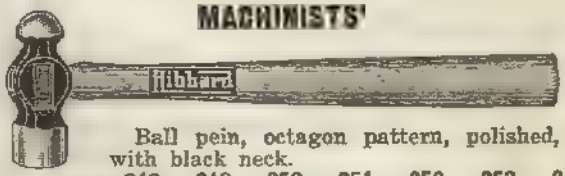


Adze eye, extra quality, solid forged steel, Boston pattern, polished, select white hickory handle.

No. 262—Length over all 13 in., w't less handle 10 oz., w't per doz. 12 lbs., per dozen $24.00

HALF DOZEN IN A BOX

MACHINISTS'

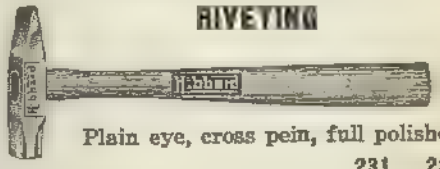


Ball pein, octagon pattern, polished, with black neck.

Nos.	248	249	250	251	252	253	254
Size	3–0	2–0	0	1	2	3	4
Lght. over all,	12½	12¼	13¾	14	15	16	17
Less hdl., oz.	8	12	16	20	24	28	32
W't doz. lbs.	10	13	16	21	24	27	32
Per dozen	$16.00	16.00	17.00	18.00	19.00	20.00	21.00

THIRD DOZEN IN A BOX

RIVETING

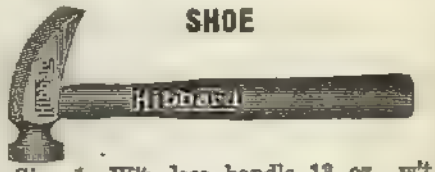


Plain eye, cross pein, full polished.

Nos.	231	232	233
Size	1	2	3
Length over all, in.	12	12	13
W't less handle, oz.	7	9	12
W't doz., lbs.	9	11	13
Per dozen	$15.00	15.50	16.00

HALF DOZEN IN A BOX

SHOE



No. 261—Size 1—W't, less handle 13 oz., w't per doz. 15 lbs. .....per dozen $20.00

HALF DOZEN IN A BOX

BRICK HAMMERS AND SKUTCHES

The Spalling Face has a hard, tough center, and four tough, sharp edges. Specially tempered chisel end is thin and sharp, ready for use. The special adze-eye holds handle without wedges, and permits easy removal for re-dressing.

No. 274

No. 271

No. 271 Hibbard—Brick hammer, size 1, 1¾ lbs., length over all 12 in., length of head 8¾ in., face 1 in. square, chisel 1¼ in. wide, w't per doz. 25 lbs. .....per dozen $21.00

No. 274 Hibbard—Brick skutch, double cutter size 1, 1¾lb., length over all 12 in., length of head 10¼ in., chisels 1¼ in. wide, w't per doz. 25 lbs. .....per dozen $23.00

HALF DOZEN IN A BOX

HAMMERS

—Under this stamp and lable we supply a complete line of Hammers, which the experience of many years has proven to be the finest obtainable from any source, whether judged by appearance, ability to stand hard service, or the "hang" and balance which so greatly enhance the ease and speed of operation.

Steel—Forged from crucible steel of special analysis, tested constantly to insure uniformity of composition.

Temper—The tempering and hardening heats are regulated automatically by thermometer, so that definite and perfect uniformity of hardness and toughness results in each tool.

Faces—Extremely hard, not brittle, will do severest legitimate work without cracking, denting or breaking down.

Patterns—The patterns embody the best suggestions of scores of practical mechanics, and each tool has the shape proven best for comfort and efficiency.

Handles—Turned from best second growth, white hickory, straight grain, made with full grip and securely wedged.

Finish—Polished high mirror polish, while the artistic stamp and lable brand each tool now and always as .

RIVETING

Plain eye, cross pein, full polished.

Nos.	130	131	132	133	134
Size	0	1	2	3	4
Length over all, in.	10	12	12	13	13
W't less handle, oz.	4	7	9	12	15
W't per doz., lbs.	6	9	11	15	16
Per dozen	$15.00	16.00	16.50	17.00	18.00

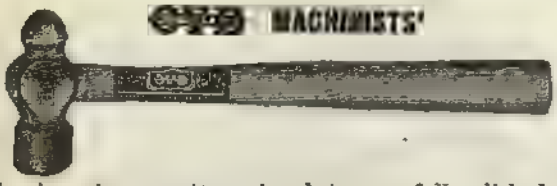
HALF DOZEN IN A BOX

RIVETING HAMMER ASSORTMENT

No. 220—Assortment consists of 1/12 doz. each Nos. 130, 132, 133, 134, and 1/6 doz. Hammers, w't. per ass't 6 lbs.
per dozen $16.50

HALF DOZEN IN A BOX. WE DO NOT BREAK BOXES

MACHINISTS'



Ball pein, octagon pattern, tough temper full polished.

Nos.	147	148	149	150	151	152
Size	4-0	3-0	2-0	0	1	2
Length over all, in.	10½	10½	12½	13¾	14	15
W't less handle, oz.	6	8	12	16	20	24
W't per doz., lbs.	7	8	13	16	21	24
Per dozen	$18.00	18.00	18.00	19.00	20.00	21.00

MACHINIST HAMMER ASSORTMENT

No. 300—Assortment consists of 1/12 doz. Nos. 147 and 152, 1/6 doz. Nos. 148 and 151, and 1/4 doz. each Nos. 149 and 150 Machinists' Hammers, w't per ass't 15 lbs.,
per dozen $16.00

ONE ASSORTMENT IN A CASE. WE DO NOT BREAK CASES

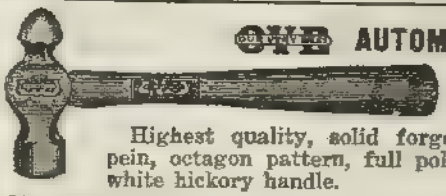
TOUGH TEMPER MACHINISTS'

Ball pein, octagon pattern, tough temper, for extra hard service Smooth black finish, polished ball and face.

Nos.	0152	0153	0154
Size	2	3	4
Length over all, in.	24	16	17
W't less handle, oz.	24	28	32
W't per doz., lbs.	24	28	32
Per dozen	$19.00	21.00	23.00

THIRD DOZEN IN A BOX

AUTOMOBILE

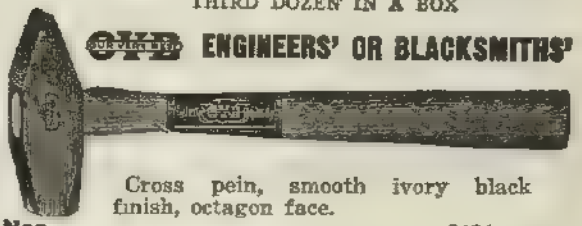


Highest quality, solid forged tool steel, ball pein, octagon pattern, full polished, extra select white hickory handle.

No. 1490—W't less handle 12 ozs., length of handle 10 in., w't per doz. 12 lbs. ..... per dozen $18.00

THIRD DOZEN IN A BOX

ENGINEERS' OR BLACKSMITHS'

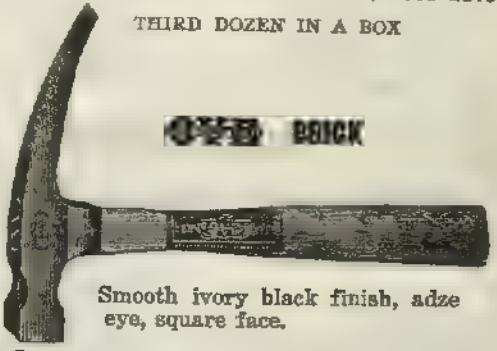


Cross pein, smooth ivory black finish, octagon face.

Nos.	0181	0182	0183
Size	1	2	3
Length over all, in.	14	15	16
W't less handle, lbs.	2	2½	3
W't per doz., lbs.	30	35	40
Per dozen	$21.00	22.00	24.00

THIRD DOZEN IN A BOX

BRICK

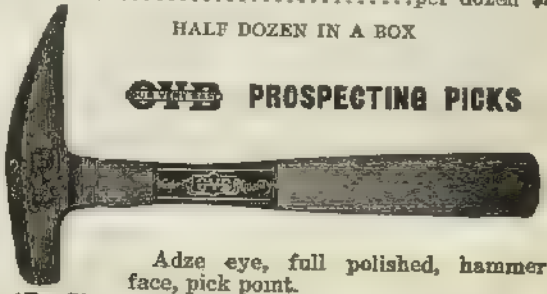


Smooth ivory black finish, adze eye, square face.

No. 21B—Size 1, w't less handle 1¼ lbs., w't per doz. 25 lbs. ..... per dozen $23.00

HALF DOZEN IN A BOX

PROSPECTING PICKS



Adze eye, full polished, hammer face, pick point.

No. 1P—Size 1, length over all 14 in., length of head 7⅞ in., w't less handle 1 lb., w't per doz. 20 lbs.,
per dozen $29.00

HALF DOZEN IN A BOX

Runner and Steering Gear Welded

The Sled that REALLY Steers
The Sled with ROUND Runners

It is a fact that round runners will coast 25% to 30% farther than ordinary flat runners.

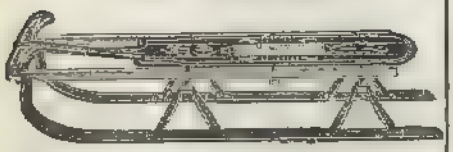
The **Boy** of **Today** is the **Man** of **Tomorrow.** Please the boy today and the man of tomorrow will be a steady, profitable customer.

OVB Snowplanes will please the Boys. Just the sight of an OVB Snowplane with its exclusive features and the kids tease until Dad will have to come through.

OVB Snowplanes are thoroughly well made from the very best materials. Strongly built for rough usage yet light enough to be handled with ease. Handsomely finished as shown in illustration.

No. 42—Length 42 inches ..... per dozen **$ 89.70**
No. 52—Length 52 inches ..... per dozen **101.40**

STEEL COASTERS



Stamped steel knees, best crucible spring steel "T" shaped runners, height 6 in., so curved in front as to give maximum length of steering surface, gear and runners finished in red enamel, tops of rock elm, beautifully painted and decorated. All parts strongly riveted, fitted with steering bar convenient for hands or feet, enabling rider to guide easily without dragging feet.

Full Sixth Dozen Bundle.

Nos.	EE130	EE131	EE132
Size, in.	33x11	36x12	40x13
W't, doz., lbs.	90	102	114
Per dozen	$25.30	29 20	33.50

Less Than Sixth Dozen.

Nos.	E130	E131	E132
Per dozen	$25.30	29.20	33.50

ONE-SIXTH DOZEN IN A BUNDLE

Stamped steel knees, best crucible spring steel "T" shaped runners, tops of rock elm, handsomely finished, gears to runners painted red, all parts strongly riveted.

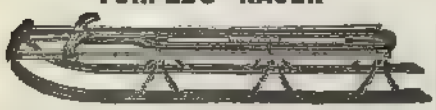
45x14x8½ In., W't Per Doz. 168 Lbs.

No. EE133—Full sixth dozen bundle, per dozen $45.20

No. 133—Less than sixth dozen, per dozen $45.20

ONE DOZEN IN A BUNDLE

TORPEDO RACER



Stamped steel knees, best crucible spring steel "T" shaped runners, painted red, tops of rock elm, handsomely finished, all parts are strongly riveted.

Long, low, narrow, racy lines, built for speed.

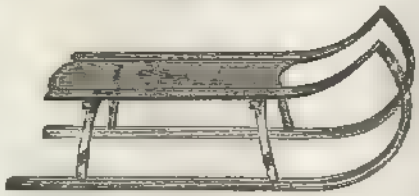
56x13x6½ In., W't Per Doz. 168 Lbs.

No. EE136—Full sixth dozen bundle, per dozen $59.40

No. E136—Less than sixth dozen, per dozen $59.40

ONE-SIXTH DOZEN IN A BUNDLE

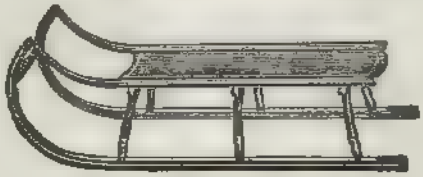
WOOD SLEDS



33x12 in., 2 knees, hardwood, top painted, decorated and striped, flat steel shoes, w't per doz. 32 lbs.

No. EE86—Full half dozen bundle, per dozen $22.80

No. E86—Less than half dozen, per dozen $22.80



Hardwood, 36x12 in., 3 knees, top painted various colors with decorations and striping, flat steel shoes, w't per doz. 52 lbs.

No. EE87—Full half dozen bundle, per dozen $26.80

No. E87—Less than half dozen, per dozen $26.80

ONE-SIXTH DOZEN IN A BUNDLE

Hardwood, 36x12 in., 3 bent knees, braced with 6 tinned braces extending from runner to cross beam, top painted in bright colors, nicely decorated and striped, flat steel shoes, iron goose necks, w't per doz. 97 lbs.

No. EE110—Full half dozen bundle, per dozen $38.80

No. E110—Less than half dozen, per dozen $38.80

SLED BOXES

No. E10—Hardwood, 12x36 in., painted and ornamented, furnished in red only, w't per doz. 130 lbs., per dozen $36.00

HALF DOZEN IN A CRATE

WOOD SLEDS

Hardwood, 36x12 in., 3 bent knees, braced with 6 braces, top nicely painted and decorated, oval steel shoes, w't per doz. 67 lbs.

No. EE106—Full half dozen bundle, per dozen $34.80

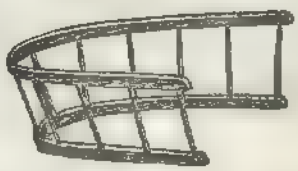
No. E106—Less than half dozen, per dozen $34.80

Hardwood, 33x12 in., 2 bent knees, top finely decorated, flat steel shoes, w't per doz. 55 lbs.

No. EE103—Full half dozen bundle per dozen $28.80

No. E103—Less than half dozen, per dozen $28.80

BABY GUARDS



18x14½x7 In., Hardwood Varnished, W't Per Doz. 25 Lbs.

No. EE520—Full dozen bundle, per dozen $19.80

No. E520—Less than dozen, per dozen $19.80

CHILDREN'S CUTTERS

No. E3—Hardwood, 14x27 in., red, blue or white, nicely painted and ornamented, large deep body and seat, push handle, round side fenders, plated steel braces, half oval steel shoes, w't per doz. 300 lbs., per dozen $96.00

Free Advertising Electros
"O.V.B" SPRING COASTER

"Ain't We Got Fun"

With Our

O.V.B SPRING COASTER

SPEED, COMFORT, LONG WEAR AND USEFULNESS

Steel Shock Absorbing Springs for Smooth, Easy Riding. Roller Bearings for Speed

What great fun children have with an O.V.B Spring Coaster. One little push and away they go with the easy-gliding speed that roller bearings provide. They ride smoothly and comfortably, protected from the jar and jolt by the O.V.B heavy steel shock-absorbing springs. You have perfect assurance of their safety, for O.V.B wheels and frame are all steel, firmly and securely riveted.

The O.V.B will last many years, under hard, rough usage.

Let your boy or girl enjoy the many hours of healthful outdoor fun that the O.V.B Spring Coaster will bring them.

DEALER'S NAME HERE

No. 11

"Aint We Got Fun"

With Our

O.V.B SPRING COASTER

SPEED, COMFORT, LONG WEAR AND USEFULNESS

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DEALER'S NAME HERE

No. 10

Order by Number Only

Advertising Electros

Order by Number Only

Made from Heavy Tin Plate, heavily retinned and have special OVB Globe Lift, OVB Basket Globe Guards and OVB Extra Heavy Rising Cone Tinned Burners. All OVB Lanterns have extra large oil hole with brass screw cap set at such an angle that the lantern can be easily filled without removing the globe. The large tinned bail is made to remain upright when desired.

OVB Lanterns burn a clean and exceedingly white light. The flame is white to the very feather edge, and entirely free from smoke. All OVB Lanterns can be filled without removing globe.

We have a variety of styles to meet every requirement.

DEALER'S NAME HERE

No. 48

Made from Heavy Tin Plate, heavily retinned and have special OVB Globe Lift, OVB Basket Globe Guards and OVB Extra Heavy Rising Cone Tinned Burners. All OVB Lanterns have extra large oil hole with brass screw cap set at such an angle that the lantern can be easily filled without removing the globe. The large tinned bail is made to remain upright when desired.

OVB Lanterns burn a clean and exceedingly white light. The flame is white to the very feather edge, and entirely free from smoke. All OVB Lanterns can be filled without removing globe.

We have a variety of styles to meet every requirement.

DEALER'S NAME HERE

No. 47

These Electros are carried in stock ready to mail to dealers who will use them

Free Advertising Electros
"O.V.B" SPRING COASTER

"Ain't We Got Fun"

With Our

O.V.B SPRING COASTER

SPEED, COMFORT, LONG WEAR AND USEFULNESS

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DEALER'S NAME HERE

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"Aint We Got Fun"

With Our

O.V.B SPRING COASTER

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These Electros are carried in stock ready to mail to dealers who will use them

Runner and Steering Gear Welded

The Sled that REALLY Steers
The Sled with ROUND Runners

It is a fact that round runners will coast 25% to 30% farther than ordinary flat runners.

The **Boy** of **Today** is the **Man** of **Tomorrow.** Please the boy today and the man of tomorrow will be a steady, profitable customer.

OVID Snowplanes will please the Boys. Just the sight of an OVID Snowplane with its exclusive features and the kids tease until Dad will have to come through.

OVID Snowplanes are thoroughly well made from the very best materials. Strongly built for rough usage yet light enough to be handled with ease. Handsomely finished as shown in illustration.

No. 42—Length 42 inches	per dozen **$ 89.70**
No. 52—Length 52 inches	per dozen **101.40**

STEEL COASTERS

Stamped steel knees, best crucible spring steel "T" shaped runners, height 6 in., so curved in front as to give maximum length of steering surface, gear and runners finished in red enamel, tops of rock elm, beautifully painted and decorated. All parts strongly riveted, fitted with steering bar convenient for hands or feet, enabling rider to guide easily without dragging feet.

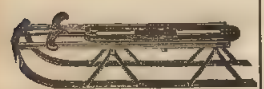
Full Sixth Dozen Bundle.

Nos.	EE130	EE131	EE132
Size, in.	33x11	36x12	40x13
W't, doz., lbs.	90	102	114
Per dozen	$25.30	29.20	33.50

Less Than Sixth Dozen.

Nos.	E130	E131	E132
Per dozen	$25.30	29.20	33.50

ONE-SIXTH DOZEN IN A BUNDLE



Stamped steel knees, best crucible spring steel "T" shaped runners, tops of rock elm, handsomely finished, gears to runners painted red, all parts strongly riveted.

45x14x8½ In., W't Per Doz. 168 Lbs.

No. EE133—Full sixth dozen bundle, per dozen $45.20

No. 133—Less than sixth dozen, per dozen $45.20

ONE DOZEN IN A BUNDLE

TORPEDO RACER

Stamped steel knees, best crucible spring steel "T" shaped runners, painted red, tops of rock elm, handsomely finished, all parts are strongly riveted.

Long, low, narrow, racy lines, built for speed.

56x13x6½ In., W't Per Doz. 168 Lbs.

No. EE136—Full sixth dozen bundle, per dozen $59.40

No. E136—Less than sixth dozen, per dozen $59.40

ONE-SIXTH DOZEN IN A BUNDLE

WOOD SLEDS

33x12 in., 2 knees, hardwood, top painted, decorated and striped, flat steel shoes, w't per doz. 32 lbs.

No. EE86—Full half dozen bundle, per dozen $22.80

No. E86—Less than half dozen, per dozen $22.80

Hardwood, 36x12 in., 3 knees, top painted various colors with decorations and striping, flat steel shoes, w't per doz. 52 lbs.

No. EE87—Full half dozen bundle, per dozen $26.80

No. E87—Less than half dozen, per dozen $26.80

ONE-SIXTH DOZEN IN A BUNDLE

Hardwood, 36x12 in., 3 bent knees, braced with 6 tinned braces extending from runner to cross beam, top painted in bright colors, nicely decorated and striped, flat steel shoes, iron goose necks, w't per doz. 97 lbs.

No. EE110—Full half dozen bundle, per dozen $38.80

No. E110—Less than half dozen, per dozen $38.80

SLED BOXES

No. E10—Hardwood, 12x36 in., painted and ornamented, furnished in red only, w't per doz. 180 lbs., per dozen $36.00

HALF DOZEN IN A CRATE

WOOD SLEDS

Hardwood, 36x12 in., 3 bent knees, braced with 6 braces, top nicely painted and decorated, oval steel shoes, w't per doz. 67 lbs.

No. EE106—Full half dozen bundle, per dozen $34.80

No. E106—Less than half dozen, per dozen $34.80

Hardwood, 33x12 in., 2 bent knees, top finely decorated, flat steel shoes, w't per doz. 55 lbs.

No. EE103—Full half dozen bundle per dozen $28.80

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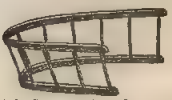
BABY GUARDS



18x14½x7 In., Hardwood Varnished, W't Per Doz. 25 Lbs.

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CHILDREN'S CUTTERS

No. E3—Hardwood, 14x27 in., red, blue or white, nicely painted and ornamented, large deep body and seat, push handle, round side fenders, plated steel braces, half oval steel shoes, w't per doz. 200 lbs., per dozen $96.00

*OBER WOOD TURNING LATHES

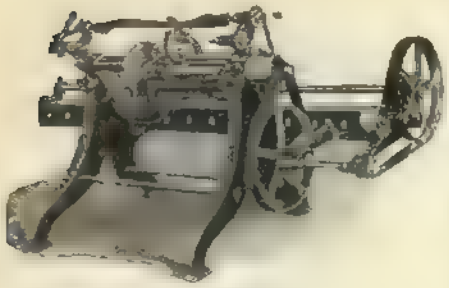


Fig. D1514

For turning axe, adze, hammer, hatchet, pick and sledge handles, spokes, whiffletrees and other kinds of irregular woodwork. This lathe will turn like a pattern and can be made to turn larger or smaller by loosening a set nut and moving the pattern rest from or toward the head. The round center in the pattern is an eccentric so that one end of the work can be made larger or smaller without changing the other end. The eye of a handle or spoke can be made longer or shorter without changing the pattern. Axe handles are finished in the lathe, even to the throating, but can go to the sander after leaving the lathe. Spokes are squared in the lathe when they are turned. This lathe will not turn porch spindles, table legs and that class of work. Wood patterns can be used, but should be made large enough so they will not spring. Carriage is moved forward by a screw and rack. When work is finished the carriage is stopped automatically and is raised from the head by a lever and can then be drawn back to its place. Knives will not gouge into the work nor allow sticks to get into them and break them. The regular lathe will turn from 8 to 36 inches in length. A special lathe is made to turn up to 42 inches. The entire carriage and feed can be removed and used as a rip or cut off saw. Made entirely of steel and iron, with tight and loose pulley on countershaft.

No. 11. Lathe to turn 36 inches and under with countershaft with 10x5 inch tight and loose pulleys, pulleys should turn 1000 r p m, requires about 2 horsepower to run; weight net 1350 pounds, crated 1500 pounds... . .....each, **$520.00**

*AMERICAN "PONY" PLANERS OR SURFACERS

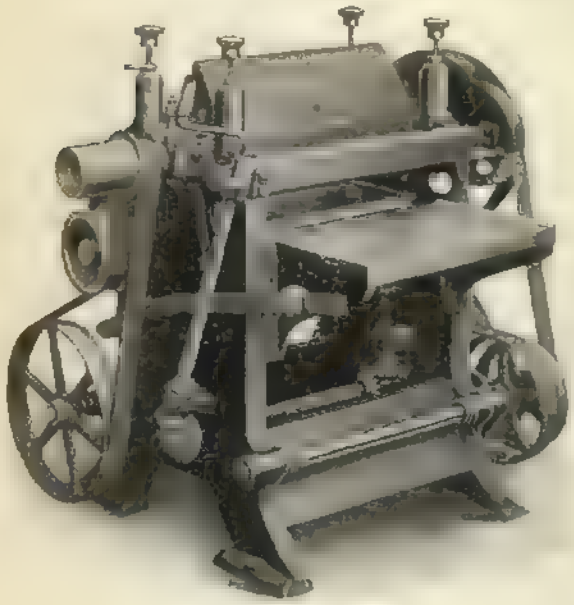


Fig. D1515

Modern Design, Compact, Rigid, Handy

This single surfacer or pony planer is compact and rigid, and embodies the very best materials and highest class workmanship. It is intended for all kinds of surfacing and finishing, and will do first class work on hard or soft wood with great rapidity. It is adapted to planing stock for sash, doors, window casings, panels, etc.; and as the rolls are close to the cylinder, and a pressure bar is provided, it will plane box boards and other short stock in most satisfactory manner. It has no superior for this class of work.

The main frame is designed for strength and stiffness.

The table is a single casting, deep, strong, heavily ribbed and gibbed to the outer edges of the main frame, to which it can be securely locked at any point, thus avoiding all rocking or vibration. It carries two 3 inch steel idle rolls, and is raised or lowered by hand screw.

The cylinder is forged steel, accurately milled and balanced, with ample journals and babbitted bearings. It has lips to strengthen the cutting edge of the knives and insure smooth, fine work.

The feed is positive and powerful, having two 3 inch steel rolls, one in front and one in rear of the cylinder, both strongly geared, the feeding-in roll being fluted.

Two rates of feed are provided and the feed is stopped or started by a belt tightener in easy reach of the operator. Built in two sizes to plane 20 inches and 24 inches wide and any thickness from ¼ inch to 8 inches.

Feed belts required: 20¼ feet of 2 inch belt. Tight and loose pulleys on countershaft 12x6 inches; speed 800 r. p. m.; width of cylinder belt used is 5 inches; belting is not furnished unless ordered, and extra charge made.

"Pony" Planer or Surfacer. With countershaft, no belts; to plane 20 inches wide; requires from 5 to 8 horsepower to run; weight 1500 pounds...each, **$445.00**

To plane 24 inches wide, weight 1700 pounds ..each, **490.00**

Fig. D1516

Countershaft

"Pony" Planer or Surfacer. Without countershaft, to plane 20 inches wide; weight 1285 pounds....each, **$420.00**

To plane 24 inches wide; weight 1485 pounds....each, **465.00**

*Not carried in stock; will ship from factory

*CORDWOOD SAWS

AMERICAN CLIPPER

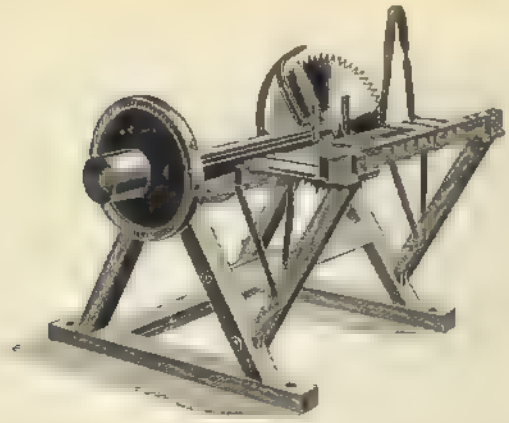


Fig. D1511

Frames are made of selected seasoned hardwood, accurately mortised and tenoned, securely bolted together by steel rods alongside the girts and passing through from one side of frame to the other. Strongly braced in every direction and painted two coats of brilliant red paint on woodwork. Iron parts painted black. Mandrel is polished steel, perfectly true and runs in heavy babbitted boxes, united by heavy cast iron yoke, insuring perfect alignment and cool bearings. Balance wheel is accurately balanced, insuring a quiet, steady running and durable machine. Each machine fitted with an adjustable saw guard which will admit a saw from 20 to 30 inches diameter. All saws are shipped right hand, except when otherwise ordered.

No. 3. For cutting cordwood from 4 to 5 feet long, take saws from 20 to 30 inches diameter with 1¾ inch hole; mandrel is 1⅛ inch diameter, 52 inches long; distance from saw to balance wheel 42 inches; mandrel pulley 6x6 inches, speed 1000 to 1500 r.p.m.; weight knocked down 300 pounds; without saw .....each, **$34.80**

*AMERICAN "UP-TO-DATE" SHINGLE MACHINES

With Power Feed

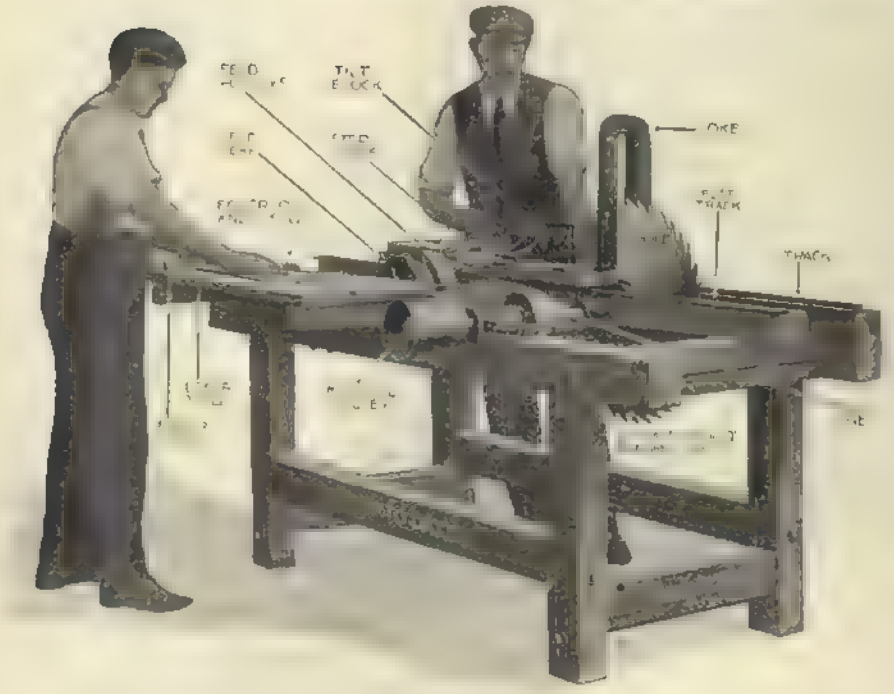


Fig. D1512

The Carriage is very substantial and provided with a strong iron yoke that will admit saws up to 36 inches diameter. The under side is fitted with gibs, planed to fit the iron track to which they hold the carriage securely. These gibs are slotted to provide adjustments and to take up lost motion.

The thickness of shingle is regulated by an adjustable tilting device in the center board, which can be removed for cutting box boards, etc. The center board is adjustable to regulate the thickness of box boards and may be removed entirely for bolting or squaring shingle blocks. No separate shingle block bolter is required. Shingles drop out underneath as they are cut.

Power Feed is provided which is thrown into gear by pressure of the foot on the treadle, and the machine can be used either with hand or power feed.

The Mandrel is steel, with 6 inch collars and runs in self-oiling boxes, connected by heavy yoke with adjusting screw for regulating the lead of the saw.

An edger and knot saw is provided which has an 8 inch saw and a convenient gauge, insuring square, straight edge shingles.

Larger saw for bolting the stock can be furnished, when desired, at additional cost. 5,000 to 10,000 shingles per day can easily be cut.

The machine will handle square, round, or split blocks up to 24 inches long.
Furnished complete, with 24 inch shingle saw, 8 inch edger saw, and feed and edger belts.
Will make shingles, heading, box boards, and crate slats equally well.

Dimensions: Frame 7 feet long 2 feet 5 inches wide, carriage 3 feet 8 inches long, 13 inches wide; power feed 24 inches; main mandrel 1⅞ inches; driving pulley 6x6 inches; weight, with edger, net 625 pounds; gross, 750 pounds; power required, 5 to 8 horsepower; speed of 24 inch saw about 1,200 revolutions.

American Up-to-Date Shingle Machine, as described.....each, **$160.00**
American Up-to-Date Shingle Machine without edger, with automatic stop and knot saw.....each, **145.00**

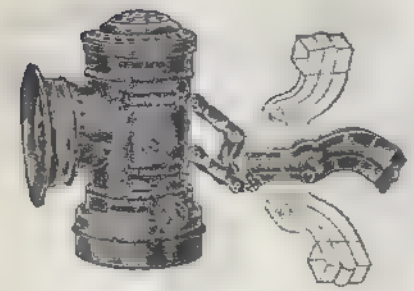
Extras

For making machine cut 36 inches long .....extra, **$20.00**
For 75 pound balance wheel on mandrel.....extra, **10.00**

*Not carried in stock; will ship from factory

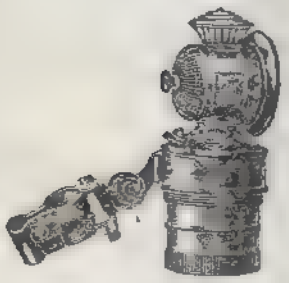
BICYCLE LAMPS

OIL



No. 1640—Light Weight, brass, full nickel plated, height 6 in., 2½ in. lens, burning capacity 10 hrs., side lights green and ruby jewels, w't per doz. 12 lbs., Burns kerosene oil, per dozen $23.70

ACETYLENE GAS



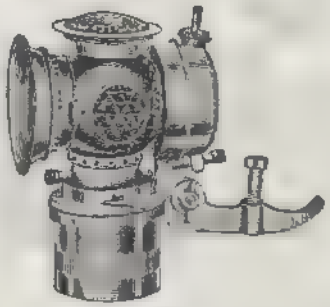
No. 1641—Search-light, brass, full nickel plated, automatic in action, will not jar out, height 8 in., 2½ in lens, w't per doz. 24 lbs., per dozen $70.70

ONE IN A BOX

H.S.B & CO. REV-O-NOC

We Stand Behind Our Brand.

ACETYLENE GAS



Can also furnish Universal type bracket if desired at the same price.

No. 1642—Solar, made from heavy gauge sheet brass. Embodies the wick feed system of water control which has proven the best automatic system of gas generation known All parts such as water valve, wick tube, burner socket, nuts, etc. are made from brass tubing or rod and interchangeable. Lamp is 7 in. high, has removable aluminum reflector, double convex lens 2⅝ in. in diameter, ground and polished, 1½ in. ruby and green side glasses. Heavily nickeled and polished. Projects an intense white light 100 feet ahead. Supplied regularly with Shipp bracket, as shown in cut. This bracket is attached to the handle bar and is adjusted by removing the bolt in handle bar stem using the bolt that comes with the bracket. W't per doz. 25½ lbs. ....per dozen $72.00

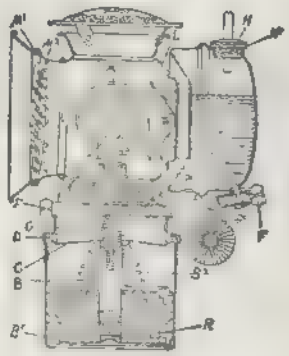
ONE IN A BOX

CARBIDE BURNERS

No. 1639—Fish tail flame, for lamps using large size lava tips, fits all standard bicycle lamps, w't, doz. 2 oz., per dozen $1.20

LOOSE

REPAIRS FOR NO. 218 SOLAR ACETYLENE GAS LAMPS

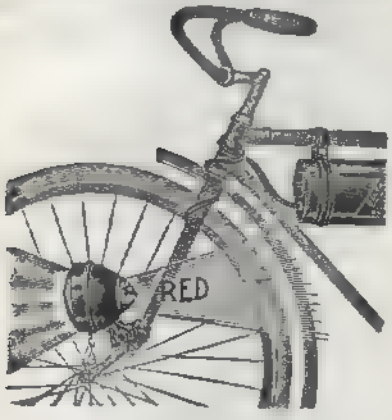


In ordering repair parts, please refer to cross section cut.

Nos.	Name of Part.	Per doz.
F2B	Screen tube	$1.10 4.10★
F2B1	Screen tube plate	2.00 2.00★
F2B2	Carbide spring	1.10 4.10★
F2C	Washer plate	2.00 2.00★
F2C1	Washer plate nut	2.00 2.00★
F2D	Rubber washer	2.00 2.00★
F2E	Fibre wick	2.00 2.00★
F2F	Wick tube cap	2.00 2.00★
F2F1	Wick tube	1.10 4.10★
F2G	Water valve	8.20 3.20★
F2G1	Water valve washer and nut	1.36 1.35★
F2H	Filler cap	2.00 2.00★
F2H1	Filler cap washer	.60 .60★
F2I	Tip holder	2.00 2.00★
F2J	Tip	2.00 2.00★
F2K	Ratchet screw	3.00 3.00★
F2L	Reflector	1.10 4.10★
F2M	Jewel—red or green	3.00 3.00★
F2M1	Lens doors	6.00 6.00★
F2M2	Lens	5.40 5.40★
F2N	Bracket complete	10.00 10.00★
F2O	Bracket side R. H.	3.00 3.00★
F2O1	Bracket side L. H.	3.00 3.00★
F2P	Clamp thumb screw	3.00 3.00★
F2Q	Clamp thumb screw nut	1.36 1.35★
F2R	Carbide tank	8.20 8.20★
F2S	Ratchet screw thumb nut	1.36 1.35★
F2T	Pivot bolt	2.00 2.00★
F2U	Pivot bolt nut	1.36 1.35★

★ Items Marked Thus ★ Are Shipped From Factory Only.

ELECTRIC LIGHTING OUTFITS

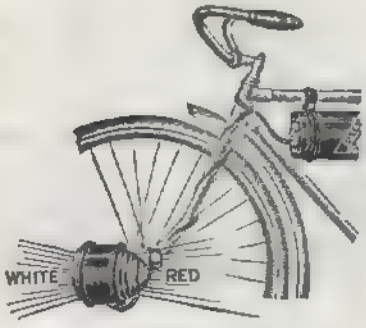


DELTA, black enamel finish, nickel trimmed, high grade red ruby jewel which throws light to rear serving both as head and tail light, arranged to fit on handle bar or front fork, battery case of steel, bright black enamel finish, can be clamped to top or bottom of cross bar, switch located on end of case, **without batteries.**

No. 1630-38—Battery container for battery, shipping w't per doz. 25 lbs. .....per dozen **$40.00**

No. 1631-39—Battery container for **two** batteries, shipping w't per doz. 34 lbs. .....per dozen **$44.00**

ONE IN A BOX

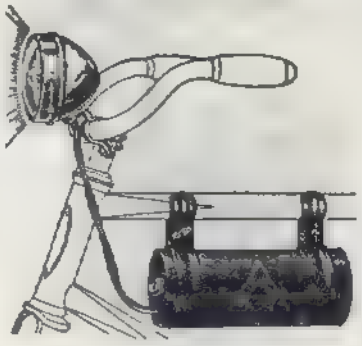


MODEL 80

No. 1632-80—1—Cell comb, head and tail lamps, finished in black enamel. Throws powerful light to front and red to rear. Fits any bicycle under axle nut, front left side. Rubber shock absorber at base of bulb. Takes bulb No. 444, 1—cell. **Without Batteries.** W't per dozen 20 lbs. .....per dozen **$36.00**

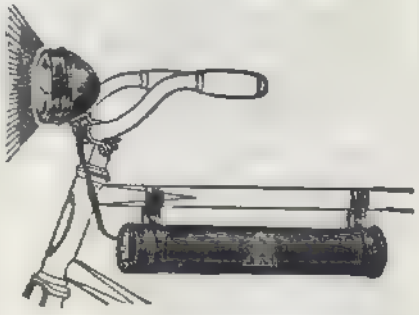
ONE IN A BOX

ELECTRIC LIGHTING OUTFITS



No. 1633-27—Delta, black enamel, nickel trimmed, holds one dry battery, switch mounted on cover of battery case, battery case of steeel, finished in black enamel, clamps firmly to cross bar, **without batteries,** w't per doz. 12 lbs., per dozen **$36.00**

ONE IN A BOX



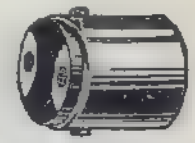
New type of tandem battery container, can be clamped wherever most convenient, above or below cross bar below tank or to frame. Wherever attached the strong clamps hold it rigid and prevent swaying. Simple to connect batteries. Printed directions with each lamp.

No. 1634-28A — Delta, finished in black baked enamel, operates on two dry batteries, diam. of lens 3 in., projects powerful light over 300 ft. ahead. Battery case made of heavy steel, switch located on front end of batttery case, Mazda bulb 2.8 volts (our No. 460) constructed to exact focus, no adjustment required, headlight clamps to handle bar, can be turned in any direction by means of swivel joint, **less batteries,** w't per doz. 30 lbs., per dozen **$40.00**

ONE IN A BOX

BULBS FOR ELECTRIC BICYCLE LAMPS

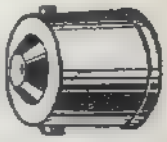
Ediswan Base.



Double Contact Ediswan Base.

Miniature Screw Base.

Miniature Screw Base.



Single Contact Ediswan Base.

No. 1645—1.5 volts miniature base, for No. 27 lamps .....each **$0.30**

No. 1646—2.8 volts miniature base, for Nos. 24, 28, 28A and 32 lamps, each **$0.30**

No. 1647—2.8 volts double contact Ediswan base, for No. 4 old lamps, each **$0.50**

No. 1648—2.8 volt, 2 C. P. single contact Ediswan base, for Nos. 45 and 50 lamps .....each **$0.50**

RUBY REFLECTORS

This rear signal light attaches to the rear stay of the bicycle. The lens is deep ruby, reflecting a light a very long distance.

No. 1650—W't each 3 ozs., each **$0.40**

LOOSE

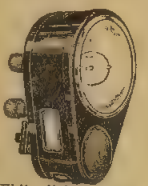
LIGHTS AND SIGNALS

TAIL LIGHTS

This lamp is made of heavy brass; interchangeable parts which can be supplied in case of breakage; no solder used in its construction; socket fits any lamp bracket; 6-volt, 2c.p. Tungsten bulb; Ediswan base; 'off' and 'on' switch; 3-inch red semaphore lens; glass at side for illuminating license tag. Double contact. Gun metal finish. Has a 10½-inch license bracket.

NO.	Wt. Each	EACH
528G	2¾ lb.	$5 00

Howe Safety



A combination tail and backup lamp, operated from individual switches, the present tail lamp switch and connection being used for red lamp and additional wiring for white light; the switch can be placed where most convenient. This lamp will fit practically all brackets now holding the tail lamp, but an extra bracket is furnished with each lamp. Each lamp is furnished with 6-volt bulbs, 2 switches and an extra bracket, operated on two No. 6 dry cells. White light can be furnished either single or double contact.

NO.	Contact	Size Face	Thickness	Wt. Each	EACH
100-1	Single	4½x6¾ in.	2¾ in.	2¾ lb.	$4.50
100-2	Double	4½x6¾ in.	2¾ in.	2¾ lb.	4.50

ONE COMPLETE IN A CARTON

TAIL LIGHT GLASSES

NO	EACH
3	$0.20
3½	.25
3¾	.25
3⅞	.30
33	.30

OIL SIDE LAMPS

OIL TAIL LAMPS

For Fords

Round body formed from one piece with parts securely riveted or seamed to it. No solder used. Special nut and bolt to fit Ford brackets. Burner cover nickel plated.

NO.	Height	Diam Door	Wt. Pair	PAIR
440	9¼ in.	4⅝ in.	2 lb.	$6.00

Tail light same style as side light. Has ruby semaphore lens. White side light.

NO.	Height	Front	Wick	Wt. Each	EACH
560	9¼ in.	4⅝ in.	⅝ in.	2¾ lb.	$3.00

STOP LIGHT

A high grade lamp in every way. This lamp is of sturdy construction throughout. It has an extra heavy 4-inch red lens with the word "Stop" in raised letters of a lighter shade red than the rest of the lens. The case is of heavy steel with black enamel finish. Equipped with cable, switch and attachments for connecting with brake rod so that light is automatically thrown on when the brake is used.

NO.	Wt. Each	EACH
500	— lb.	$6.50

KOBZY SIGNAL

An electrically operated signal device, attached to rear of car. Has three aluminum arms showing "Right," "Left" or "Stop," with red light for use at night. Operated from the steering wheel by means of an electrical switch lever. A red light is shown on the switch box and another on signal box in rear when a signal is displayed. Lever box is neatly made and highly finished; solidly mounted on steering post. Wiring connections are simple and amount of current used is very small.

NO.	Wt. Each	EACH
25K8	6½ lb.	$25.00

NUMBER BRACKETS

Rod Clip Type

Rod clamps attach front number, with or without slots, to any size rod between headlights. Stamped from heavy gauge steel. Packed one set in a box.

NO	Wt Pair	PAIR
95	¾ lb	$0.25

ORR, WATT & Co., Ltd.,

Lanarkshire Bridge Works, MOTHERWELL, SCOTLAND,

Telegrams } "STRUCTURAL, MOTHERWELL." Telephone No. 222 (3 Lines) MOTHERWELL. Cable Code } A.B.C. (5th Edition).

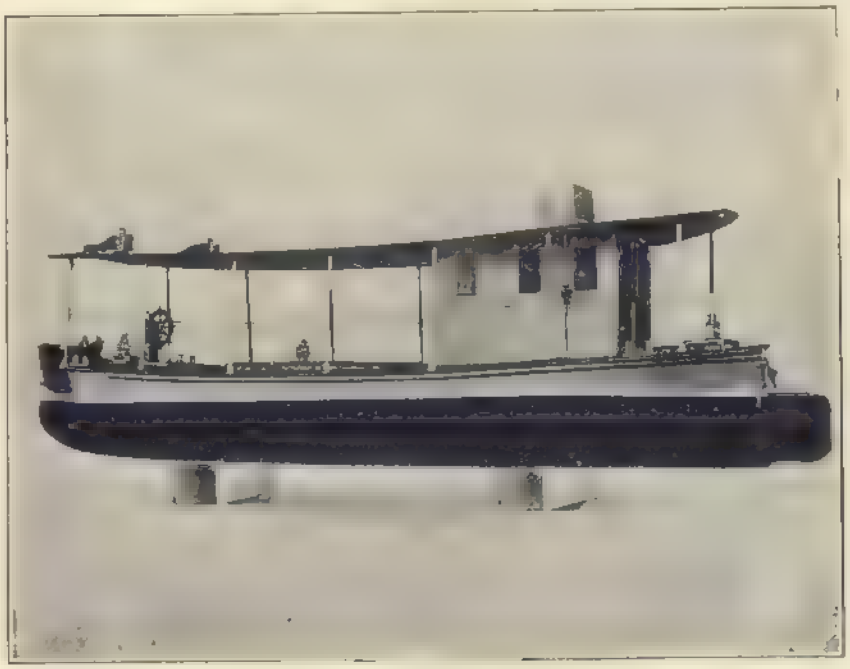
LONDON OFFICE: 80 Gracechurch St., London, E.C. Telegrams: "Monroque Grace, London." Telephone: No. 4883 London Wall.

CONSTRUCTIONAL STEELWORK AND BRIDGEWORK OF ALL CLASSES.

CHARPENTES EN ACIER POUR CONSTRUCTIONS ET [illegible] DE PONTS EN TOUS GENRES
CONSTRUCCIONES METALICAS DE ACERO Y TRABAJOS DE PUENTES DE TODA CLASE

PRESSED STEEL TROUGH FLOORING FOR BRIDGES, ETC., A SPECIALITY.

SPECIALITE DE CANIVEAU EN ACIER EMBOUTI POUR SABLIERS DE PONTS, ETC.
ESPECIALIDAD DE CANALES DE ACERO EMBUTIDO PARA TABLEROS DE PUENTES, ETC



(T)

TOWING HOUSE LIGHTER.

45 ft. long by 10 ft. 6 ins. moulded breadth, by 4 ft. 9 ins. moulded depth.

Manufactured by

ORR, WATT & CO., LTD.

CHALAND DE REMORQUE

Longueur 13,70 *m., largeur* 3,20 *m profondeur* 1,45 *m*

Construit par

ORR, WATT & CO., LTD.

GABARRAS DE REMOLQUE.

13,70 m de largo por 3,20 m de ancho entre moldes, por 1,45 m de profundidad.

Construida por la casa

ORR, WATT & CO., LTD.

MOTOR CANAL BARGE.

70 ft. long by 7 ft. wide by 4 ft. 4 ins. moulded depth.

Manufactured by

ORR, WATT & CO., LTD.

BARGE AUTOMOBILE POUR NAVIGATION SUR CANAUX

Longueur 21,33 *m., largeur* 2,13 *m., profondeur* 1,32 *m*

Construit par

ORR, WATT & CO., LTD.

BARCA AUTOMÓVIL DE CANALES

21,33 m. de largo por 2,13 m. de ancho por 1,32 m. profundidad moldeada.

Construida por la casa

ORR, WATT & CO., LTD.

JL

Iron Passenger Trains

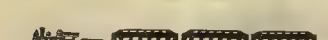
N27084—IRON PASSENGER TRAIN—With locomotive and 1 coach. Length, 12½ inches. ½ dozen in package, not broken. Per doz. 3.60

N27085—PASSENGER TRAIN—Locomotive, Tender, three coaches, length 25¾ inches. Per doz. 6.00

N26680—LOCOMOTIVE, TENDER, AND TWO COACHES—Length 18¾ inches, ½ dozen in box, not broken. Per doz. 3.02

N26681—LOCOMOTIVE, TENDER AND THREE COACHES—Length 20¾ inches. ½ dozen in box, not broken. Per doz. 7.34

N26682—ELECTRIC LOCOMOTIVE AND THREE COACHES—Length 23 inches. ½ dozen in box, not broken. Per doz. 12.50



N26683—LOCOMOTIVE, TENDER, AND THREE COACHES—Length 27½ inches. Each in box. Per doz. 17.64

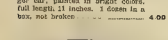
N26686—LOCOMOTIVE, TENDER, TWO CARS AND CABOOSE—Length 30 inches. Each in box. Per doz. 17.68

N26684—ELECTRIC LOCOMOTIVE AND THREE COACHES—Length 28½ inches. Each in box. Each 2.00

Steel Trains With Iron Engines

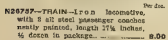
N26785—ONE CAR PASSENGER TRAIN—Heavy cast iron engine, steel tender, and one steel passenger car, painted in bright colors, full length, 21 inches. 1 dozen in a box, not broken. Per doz. 4.00

N26765—TRAIN—Iron Locomotive with 3 large all steel red, white and blue passenger cars, length 31 inches. Per doz. 15.00

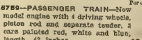


N26787—TRAIN—Iron locomotive, with 3 all steel passenger coaches neatly painted, length 27¾ inches. ¼ dozen in package. Per doz. 8.00

N26789—PASSENGER TRAIN—New model engine with 4 driving wheels, piston rod and separate tender, 3 cars painted red, white and blue, length, 43 inches. Per doz. 33.60



N27086—TRAIN—Iron Locomotive with 3 large all steel neatly painted passenger cars; length 23 inches. Per doz. 11.00



N26786—FREIGHT TRAIN—3 coal cars and 1 caboose with large iron locomotive and separate tender. Total length 39 inches. Each in box Per doz. 23.60

Overland Flyer Mechanical Trains

Overland Flyer Locomotives, and locomotive drive wheels are made of steel and cast gray iron castings covered with two coats of black Japan. Mechanical movements are patented after correct and tested engineering ideas, and guaranteed by the manufacturer for six months. Tenders and coaches are made of lithographed steel, highly finished in a variety of colors.

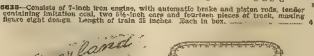
N26634—Consists of 6-inch steel engine, tender, one coach and four pieces of track, making circle. Length of train 15¼ inches. Each in box. Per doz. 17.44

N26636—Consists of 6¼-inch iron engine, and tender, one 5¼ inch car, 4 pieces of track, making circle. Each in box. Per doz. 22.80

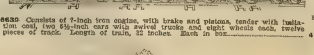
N26638—Consists of 6¼-inch iron engine, two 6¼-inch cars and eight sections of track, making circle. Length of train 34 inches. Each in box. Each 2.68

N26637—Consists of 7-inch iron engine, with automatic brake and piston rods, tender with imitation coal, three 6¼-inch cars and twelve pieces of track, making large oval. Length of train 32½ inches. Each 3.68

N26638—Consists of 7-inch iron engine, with automatic brake and piston rods, tender containing imitation coal, two 9½-inch cars and fourteen pieces of track, making figure eight design. Length of train 28 inches. Each in box. Each 4.00



N26639—Consists of 7-inch iron engine, with brake and pistons, tender with imitation coal, two 9½-inch cars with swivel trucks and eight wheels each, twelve pieces of track. Length of train, 32 inches. Each in box. Each 4.00



N26640—Consists of 7-inch iron engine, with automatic brake and piston rods, tender with imitation coal, two 9½-inch cars, fourteen pieces of track and two switches, making a combination oval and round design. Length of train, 35 inches. Each in box. Each 4.68

N26641—Consists of 7-inch engine, with automatic brake and piston rods, tender with imitation coal, three 9½-inch cars, eighteen pieces of track, one crossover, tunnel, bridge and semaphore. Each in box. Each 5.60

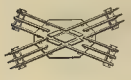
PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Electric Trains and Accessories

Electric Train Accessories

Per doz.
N26865—ELECTRIC STRAIGHT TRACK—10 inch lengths..... 2.40

N26866—ELECTRIC CURVED TRACK—10¼ inch lengths..... 2.40



N26867—ELECTRIC TRACK CROSS-OVER 15.60

Per pair
N26868—ELECTRIC SWITCH Length 10½ inches 3.00

Per doz.
N26869 MINIATURE RAILROAD TANK 6 inches in height..... 16.80

N26870 N26871

N26875—SINGLE ARM TELEGRAPH POLE 3.84

N26871 THREE ARM TELEGRAPH POLE 7.68

AMERICAN FLYER ELECTRIC TRAINS

"American Flyer" Electric Trains and appliances are thoroughly tested before leaving the factory and are guaranteed to be electrically and mechanically perfect when delivered to the customer. The New York Central type of locomotives are made of very heavy steel and will not easily bend or break. The headlights are protected by being set into the front of the engine so it is almost impossible for the glass to be broken except by a very severe fall.

Each
N26859 Consists of Electric Type Locomotive without Headlight, length 6¾ inches, 2 Pullman Cars, length 5½ inches each, length of train 31 inches, 9 pieces of track including 1 Track Terminal and Rheostat 6.66

8 PIECES

N26860—Consists of heavy pressed steel engine 8 inches, without headlight. Large single truck cars, length 6⅝ inches. Baggage car has sliding doors. Train complete including rheostat and terminal connection. Length of track, 103 inches Length of train, 24 inches 8.34

N26861 Consists of heavy pressed steel engine 8-inch, with headlight. Double truck cars with disappearing couplers. Baggage car has sliding doors. Complete with rheostat and terminal connection. Length of track, 125 inches. Length of train, 31 inches 10.68

6 PIECES 8 PIECES

N26862 Consists of heavy pressed steel engine 8-inch with headlight. Double truck cars length 6¾-inch. Double arm semaphore. Tunnel 9½ inches. Complete with rheostat and terminal connection. Length of track, 146 inches. Length of train, 31 inches.. ..... 13.54

N25863—Consists of Locomotive with Headlight and Patented Automatic Reverse, length 10 inches. U. S. Mail Car, one Pullman Car, length of cars 10½ inches each length of train 32½ inches, eight pieces curved, six pieces straight track including Track Terminal and Rheostat, length of track 142 inches 23.10

N26864—Consists of Twentieth Century Limited, Electric Type Locomotive with Headlight and Patented Automatic Reverse, length 10 inches. U. S Mail Car, two Pullman Cars with Imitation Tail Lights. All cars are electric lighted. Length of train 4s inches, eight pieces curved and twelve pieces straight track including Track Terminal and Rheostat. Length of track 202 inches 32.00

N26872 N26873 N26874 Per doz.

N26872—SINGLE ARM SEMAPHORES 3.84
N26873—DOUBLE ARM SEMAPHORES 7.68
N26874—DANGER SIGNAL 3.84

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Per doz.
N26875—FREIGHT STATION—Length 6⅝ inches 6.60

Each
N26876—PASSENGER STATION—Length 12½ inches 2.70

N26877—ARC LIGHT—Complete with Track Terminal, height 11 inches 2.70

Per doz.
N26878—TUNNEL—Length 10 inches .. 12.50

N26879 N26880

Each
N26879—MECHANICAL SEMAPHORE—With light and track terminal, height 11 inches 3.00

N26880—AUTOMATIC DANGER SIGNAL—With Light and Track Terminal and Special Track, height 11 inches.... .... 5.00

Transformer

N25845—THE MIDGET TRANSFORMER Capacity 75 Watts. The regulating switch delivers 18 voltages, ranging from 1½ to 24 volts in 1½ volt steps. Size 3¾ x 3¾ x 2 inches Weight 4 lbs.... 8.20

O. K. SCREW PLATES

Single stocked with adjustable tap wrench, adjustable forged round dies and taps, U. S. standard thread

No. O. K. 1. Assortment, stock 14 inches long, with adjustable guides; adjustable tap wrench No. 4 10½ inches long; taper taps, dies 1½ inches in diameter, 5 sizes, cutting ¼-20, 5/16-18, 3/8-16, 7/16-14 and ½-13; weight 6½ pounds . . . . . per set, $13.50

One set in a box

Single stocked with adjustable tap wrench, adjustable forged round dies and taps, U. S. standard thread.

No. O. K. 3. Assortment, stock 23 inches long, with adjustable guides; adjustable tap wrench No. 5, 15 inches long; taper taps; dies 2 inches in diameter, 7 sizes, cutting ¼-20, 5/16-18, 3/8-16, 7/16-14, ½-13, 9/16-11 and ¾-10; weight 12 pounds. . . . . .per set, **$21.00**

No. O. K. 10. Assortment, stock 26 inches long, with adjustable guides; adjustable tap wrenches No. 3, 8 inches long, and No. 6, 20 inches long; taper taps dies 2 inches in diameter, 9 sizes, cutting ¼-20, 5/16-18, 3/8-16, 7/16-14, ½-13, 5/8-11, ¾-10, 7/8-9 and 1-8; weight 22 pounds .....per set, **31.00**

One set in a box

Full stocked, with one stock for each die, adjustable tap wrenches, adjustable forged round dies and taps, U. S standard thread.

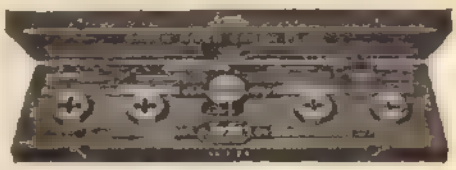
No. O. K. 71. Assortment, separate stock for each die, adjustable tap wrench No. 4, 10½ inches long; taper taps, 5 sizes, cutting ¼-20, 5/16-18, 3/8-16, 7/16-14 and ½-13; weight 9 pounds.....per set, **$16.50**

No. O. K. 75. Assortment, separate stock for each die; adjustable tap wrench No. 5, 15 inches long; taper taps, 7 sizes, cutting ¼-20, 5/16-18, 3/8-16, 7/16-14, ½-13, 5/8-11 and ¾-10; weight 16 pounds.....per set, **28.00**

No. O. K. 77. Assortment, separate stock for each die; two adjustable tap wrenches, one No. 3, 8 inches long, and one No. 6, 20 inches long; taper taps, 9 sizes, cutting ¼-20, 5/16-18, 3/8-16, 7/16-14, ½-13, ¾-10, 7/8-9, 1-8; weight 33 pounds.....per set, **43.50**

One set in a box

GREEN RIVER SCREW PLATES



Single stocked, with adjustable tap wrenches, guides, dies and taps, U. S. standard thread.

With One Tap Wrench

No. 1124. Assortment, stock No. 1803, 22 inches long; adjustable tap wrench No. 6, 15 inches long; taper taps, dies and guides 2 5/8 inches diameter, five sizes, cutting ¼-20, 3/8-16, ½-13, 5/8-11, ¾-10; weight 11 pounds .....per set, **$22.75**

With Two Tap Wrenches

No. 1112. Assortment, stock No. 1805, 29 inches long; two adjustable tap wrenches, No. 5, 11½ inches long; No. 7, 19½ inches long; taper taps, dies and guides 2¾ inches diameter, nine sizes, cutting ¼-20, 5/16-18, 3/8-16, 7/16-14, ½-13, 5/8-11, ¾-10, 7/8-9, 1-8; weight 32 pounds .....per set, **$42.00**

One set in a box

Double stocked, with adjustable tap wrenches, guides, dies and taps, U. S. standard thread.

No. 1119. Assortment, two stocks, No. 1802, 18 inches long, No. 1806, 35 inches long; two adjustable tap wrenches, No. 5, 11½ inches long; No. 7½, 31 inches long; taper taps, dies and guides 2 5/8 inches diameter for sizes 7/16 inch and smaller and 2¾ inches for sizes ½ inch and larger; eleven sizes, cutting ¼-20, 5/16-18, 3/8-16, 7/16-14, ½-13, 5/8-11, ¾-10, 7/8-9, 1-8, 1⅛-7, 1¼-7; weight 35 pounds.....per set, **$68.50**

One set in a box

Single stocked, with T style tap wrench, guides, dies and plug taps; U. S. standard thread.

No. 150. Assortment, one stock No. 1800, 6 inches long, and T style tap wrench, plug taps, dies and guides ⅜ inch diameter, five sizes, 3/16-40, 7/32-36, 1/4-24, 5/16-24 and ¼-20; weight 3 pounds.....per set, **$10.50**

No. 151. Assortment, one stock No. 1800, 6 inches long, and T style tap wrench, plug taps, dies and guides ⅜ inch diameter, 5 machine screw sizes, cutting 4-36, 6-32, 8-32, 10-24 and 12-24; weight 2½ pounds .....per set, **10.50**

One set in a box

WORCESTER SCREW PLATES

Single stocked, with tap wrench, guides, dies and plug taps

U. S. Standard Thread

No. 111. Assortment, one No. 9 stock, one No. 21 tap wrench, plug taps, dies and guides 1 inch diameter, 5 sizes, ¼, ⅜, ½ and ¾ inch, weight 3⅝ pounds ..... per set, **$7.75**

S. A. E. Thread

No. 112. Assortment, one No. 9 stock, one No. 21 tap wrench, plug taps, dies and guides 1 inch diameter 5 sizes, ¼, ⅜, ½, ⅝ and ¾ inch, weight 3⅝ pounds ..... per set, **$7.75**

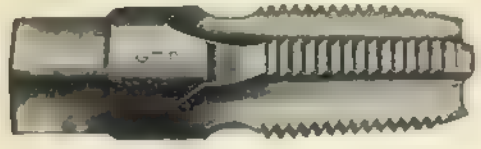
One set in a box

ADJUSTABLE TAP WRENCHES

Drop forged body polished steel handles

Nos.	5	6	7
Hand inclusive	¼ to ¾	¼ to ¾	⅜ to 1
Machine screw	10 to 30	8 to 30	15 to 30
Pipe	⅛ to ¼	⅛ to ⅜	⅛ to ½
Length, inches	12	15	19
Each	$2.00	2.50	3.50
Weight, pounds	¾	2	3½

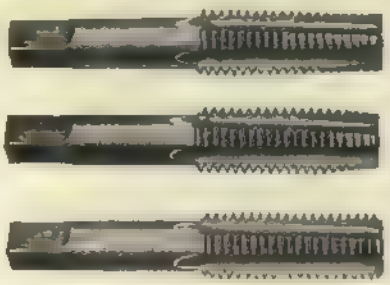
PATCH BOLT TAPS



U. S. standard thread, 12 threads to the inch

Diameter, inches	½	⅝	¾	⅞	1	1⅛	1¼
Length, inches	3	3	3	3	3½	3½	3½
Each	$1.00	1.25	1.70	2.25	2.80	3.00	3.38
Weight, ounces	2	3	4	6	8	10	12

MACHINISTS' HAND TAPS



Diam. Of Tap Inches	Each	Per Set	Number of Threads to the Inch — Standard Pitches: U. S. Standard	Whitworth Standard	V Form	U. S. Form	Other Pitches Also Furnished V Form	Weight Ounces
1/8	$0.40	$1.20	24	24	24	30 32	.	1
5/32	.40	1.20	24	..	..	.....	.....	1
3/16	.45	1.35	24	24	24	32	.....	1
7/32	.45	1.35	24	..	..	.....	.....	1
¼	.45	1.35	20	20	20	24-32	24-27, 32	1
5/16	.50	1.50	18	18	18	20 32	20 24, 27	1
⅜	.55	1.65	16	16	16	20	20-24 27	2
7/16	.60	1.80	14	14	14	24	20-24, 27	2
½	.70	2.10	13	12	12	12-24	20-24 27	3
9/16	.80	2.40	12	12	12	.....	27	4
⅝	.90	2.70	11	11	11	12	12-27	5
11/16	1.05	3.15	11	11	11	.....	.....	6
¾	1.20	3.60	10	10	10	12	12-27	7
13/16	1.40	4.20	10	10	10	.....	.....	8
⅞	1.60	4.80	9	9	9	12	12-27	9
15/16	1.80	5.40	9	9	9			12
1	2.00	6.00	8	8	8	12	12-27	13

TAPER PIPE TAPS AND REAMERS

PIPE TAPS

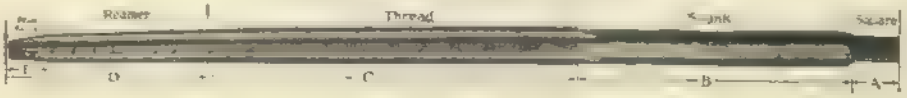
REAMERS

Cracible tool steel, taper ¾ inch to the foot, Briggs standard thread

Pipe Size Inches	Pipe Taps Each	Pipe Reamers Each	No. Threads to Inch (Briggs)	Length of Thread Inches	Length Over All Inches	Weight Pounds
⅛	$1.00	$1.00	27	¾	2⅛	⅛
¼	1.20	1.20	18	1⅛	2	¼
⅜	1.60	1.60	18	1	2⅜	¾
½	2.00	2.00	14	1	3	½
¾	2.80	2.80	14	1⅛	3⅛	⅞
1	4.40	4.40	11½	1	3¾	1⅜
1¼	5.00	5.00	11½	1⅜	4	2½
1½	6.60	6.60	11½	1¾	4⅛	2⅞
2	10.00	10.00	11½	1⅞	4½	4
2½	15.00	15.00	8	2⅜	5½	4¼
3	22.50	22.50	8	2⅜	6	7½
3½	30.00	30.00	8	2⅜	6½	11½
4	45.00	45.00	8	2½	6½	14½

Unless otherwise ordered, right hand threads will always be sent.

MAXI STAYBOLT TAPS



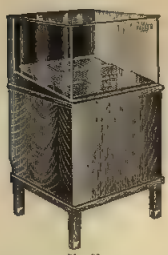
U. S. standard thread, lengths 20 and 24 inches

Tap diameter, inches	¾	*⅞	7/8	*1⅛	1	*1 1/16	*1⅛
Per inch	$0.40	.40	.40	.45	.45	.50	.50
Weight, pound (20 inches)	1½	1⅝	2	2¼	2⅝	3	3¼
Weight, pound (24 inches)	1⅝	1⅞	2⅛	2⅜	3⅛	3½	4¼

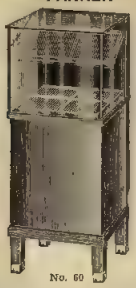
20 inches long has 1 inch square, 6 inch shank, 7½ inch thread, 5½ inch reamer.
24 inches long has 1 inch square, 8 inch shank, 9 inch thread, 6 inch reamer.
*Not carried in stock; will ship from factory

FOUNTAIN PEN ASSORTMENTS

PARKER



No. 90



No. 60

Solid Hardwood Case, finished in Dull Mahogany; Heavy Plate Glass Top; Velvet Lined Pen Rack; Door on Back with Mortised Lock and Key; Sanitary Base

Contents of No. 90A Assortment

Quantity	Resale Price	
33	*$2.50*	2 No. 7062, 2 No. 7069, 4 No. 7001, 6 No. 7002, 12 No. 7003, 12 No 7004
26	*3.00*	2 No. 7070, 6 No. 7006, 6 No. 7007, 9 No. 7008, 3 No 7005.
8	*3.25*	3 No 7023, 3 No. 7029, 2 No. 7038
3	*3.50*	3 No. 7044
6	*3.75*	1 No. 7031, 2 No. 7038, 3 Assorted Ivorine
14	*4.00*	3 No. 7009, 3 No. 7010, 4 No. 7011, 4 No. 7012.
2	*4.25*	2 No. 7076.
2	*4.75*	2 No. 7039
9	*5.00*	2 No. 7013, 2 No. 7014, 2 No. 7015, 3 No. 7016.

108—Total No. of Pens.
81—Parker Clips.

Per Assortment

No. 90A—9 Dozen Assorted Parker Fountain Pens, as listed above, and 81 Parker Clips; Total Retail Value..*$370.25*

Each

Parker Floor Case, for 9 Dozen Parker Pens; Actual Cost.....*$42.00*

Note—Purchaser receives, free of charge, 8 only No 7015 and 1 only No 7091 Parker Pens with Clips, with a retail value of *$42.50*, to offset cost of Case.

Contents of No. 60A Assortment

Quantity	Resale Price	
26	*$2.50*	1 No. 7062, 1 No. 7069, 1 No. 7065, 1 No. 7001, 4 No 7002, 8 No. 7003, 10 No. 7004.
19	*3.00*	1 No. 7066, 4 No. 7006, 6 No. 7007, 6 No. 7008, 2 No 7024.
4	*3.25*	2 No. 7028, 2 No. 7029.
4	*3.50*	1 No. 7019, 1 No. 7090, 2 No. 7025.
3	*3.75*	2 No. 7044, 1 No. 7031.
8	*4.00*	3 No. 7010, 3 No. 7011, 2 No. 7012.
1	*4.25*	1 No 7076
1	*4.75*	1 No 7039
6	*5.00*	3 No. 7013, 3 No. 7015.

72—Total No. of Pens.
54—Parker Clips.

Per Assortment

No. 60A—8 Dozen Assorted Parker Fountain Pens, as listed above, and 54 Parker Clips; Total Retail Value..*$244.75*

Each

Parker Floor Case, for 6 Dozen Parker Pens; Actual Cost.....*$30.00*

Note—Purchaser receives, free of charge, 6 only No 7015 Parker Pens with Clips, with a retail value of *$30.00*, to offset cost of Case.

No 20

Display Case for displaying 2 Dozen Parker Fountain Pens, Made of Hardwood, finished in Dull Mahogany; Plate Glass Top, Velvet Lined Pen Rack; Door and Back fitted with Mortised Lock and Key.

Contents of No. 20A Assortment

Quantity	Resale Price	
9	*$2.50*	1 No. 7069, 2 No. 7001, 2 No. 7002, 2 No. 7003, 2 No. 7004
3	*2.75*	1 No. 7023, 2 No. 7024.
4	*3.00*	2 No. 7006, 2 No. 7007.
2	*3.25*	2 No. 7028.
2	*3.50*	2 No 7044.
2	*4.00*	1 No. 7009, 1 No. 7012.
2	*5.00*	1 No. 7013, 1 No. 7016

24—Total No. of Pens.
16—Parker Clips.

Per Assortment

No. 20A—2 Dozen Assorted Parker Fountain Pens, as listed above, and 16 Parker Clips; Total Retail Value..*$78.25*

Each

Parker Counter Case, for 2 Dozen Parker Pens; Actual Cost.....*$5.25*

Note—Purchaser receives, free of charge, 1 only No. 7015 Pen with Clip, with a retail value of *$5.25*, to offset cost of Case.

FOUNTAIN PEN CLIPS

For Parker Fountain Pens

Each

No. 3143A—Nickel Plated..... ... *.$0 25*
No. 3143B—Gold Plated.... .... *75*

FOUNTAIN PEN RIBBONS

Black Silk Grosgrain Ribbon, with Gold Plated Sliding Bar Front and Gold Plated Ring and Snap Ring.

Each

No. 3143C Size 24x⅞ in.....*$1.00*

PHONOGRAPH NEEDLES

WALL-KANE ASSORTMENTS

Assortment consists of 60 Packages of Needles, Assorted ½ Medium, ⅝ Loud, and ⅝ Extra Loud, mounted in full view on attractive Tin Display Board, with Easel Support. **Note—We do not break Assortments.**

Per Assortment

No. 3143E—50 Needles in Package; Size of Display Stand 9¾ in. Base by 11 in. High.....$9 20
One Assortment in Carton
Weight 2 Lbs. Each

BRILLIANTONE
In Bulk

High Quality Steel, Uniform in Length, Point and Hardness.

Nos.	Per 1000
3143F2—Half Tone.	$1.10
3143F4—Full Tone.	1.10
3143F6—Medium . .	1.10
3143F8—Extra Loud	1.10

100 in Envelope, 50 Envelopes in Carton
Weight 2½ Lbs. Carton

PORTROLA PHONOGRAPHS

The **Portrola Phonograph** is a small well-made machine that produces a rich, clear tone; It is made light and compact for portable purposes; a splendid instrument of Campers, Autoists, Canoe parties, etc.

Plays All Records—The Portrola plays records such as Edison, Pathe, Victor, Columbia and other makes.

The Portrola is equipped with small electric light for convenience in adjusting records and needles, It plays four records with one winding; Cover is equipped with Lock Fitted with Hinged Drop Door

Case covered with black "waterproof" leatherette; Lining of dark maroon moire "waterproof" leatherine; Record compartment holds ten records; Amplifier produces a full, clear tone; Speed regulator for fast or slow time.

Handle for carrying made of best and strongest fibre covered black leather; Tone Arm Clasp protects the reproducer when case is closed from breakage or jolting; Corners bound in black leather, ornamental and serviceable; Tone Arm produces a perfect volume of tone only heard in cabinet phonographs.

Each

No. W3143D—Complete with Ten Records; Size of Case, 12½x12½x9½ in.; One in Box; Weight 23 Lbs. Each.....*$48.00*

HARMONICAS

GENUINE HOHNER

UP-TO-DATE

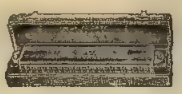
Very finest, double-sided instrument; 32 Holes, 64 Reeds, Brass Plates, Nickel Plated Covers, Fancy Silver Stamped Extension Ends with Frame in Mahogany finish, Different Keys for each side

Per Dozen

No. 46½—Length 7 in. ..$18.00

Concert Size; 10 Double Holes, 20 Reeds Brass Plates, Fine, Nickel Plated Convex Covers with Open Back. Per Dozen

No. 1896½—Length 4¾ in.$15.00



THE GOLIATH

Beautiful large size Tremolo Harmonica; 24 Double Holes, 48 Reeds, Brass Plates; Heavy Convex Covers; Nickel Plated with Open Back; Exceptionally high in range.

Per Dozen

No. 453—Length 7½ in...$30.00

MARINE BAND

Full Concert; 10 Double Holes; 40 Reeds, Brass Plates, Heavy Convex, Finely Nickel Plated Covers; Perfect Tone, Extension Ends

No. Per Dozen

1896FC—Length 4⅝ in....$20.00

Has 10 Single Holes, 20 Reeds; Brass Plates; Heavy Nickel Plated Covers with Open Back.

Per Dozen

No. 1896—Length 4 in.....$9.00

ECHO

Double Sided Tremolo Instrument in two different Keys, 40 Reeds, Brass Plates, Finely Nickel Plated Covers with turned Ends

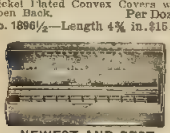
Per Dozen

No. 606—Length 5¾ in...$30.00

Fine Tremolo Instrument; 16 Double Holes, 32 Reeds, Finely Nickel Plated Covers with turned-in Ends.

Per Dozen

No. 505—Length 5¼ in.. $12 00



NEWEST AND BEST

Genuine Full Concert Harmonica; 10 Double Holes, 40 Reeds, Brass Plates; Covers Finely Nickel Plated with turned-in Ends.

Per Dozen

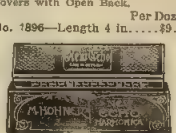
No. 3CND—Length 4⅝ in.$16.00

THE SPORTSMAN

Tremolo Tune; 16 Double Holes; 32 Reeds; Brass Plates; Heavy Nickel Plated Covers; Extension Ends.

Per Dozen

No. 254—Length 5¼ in ..$16.00



NEW ECHO

Has 14 Double Holes; 24 Reeds; Brass Plates; Nickel Plated Covers with turned Ends.

Per Dozen

No. 153—Length 4⅝ in....$10.50

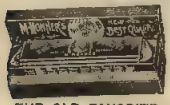
HOHNER BAND

Has 10 Single Holes; 20 Reeds; Brass Plates; Finely Nickel Plated Convex Covers, Open Back.

Per Dozen

No. 132—Length 4 in.....$8 50

GENUINE HOHNER



THE OLD FAVORITE

Has 10 Double Holes; 20 Reeds; Brass Plates; Nickel Plated Covers.

Per Dozen

No. 50B—Length 4 in.....$8 00

THE OLD STANDBY

Has 10 Single Holes; 20 Reeds; Brass Plates; Nickel Plated Covers.

Per Dozen

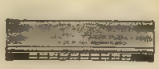
No. 34B—Length 4 in.....$8.00

POHL

Has 12 Double Holes; 12 Reeds; Ebonized Frame; Nickel Plated Covers.

Per Dozen

No. 165—Length 4 in....$1.60



Has 10 Double Holes; 8 Reeds, Brass Plates; Nickel Plated Covers.

Per Dozen

No. 163—Length 3⅞ in... $0 90

Has 8 Double Holes; 6 Reeds; Nickel Plated Covers.

Per Dozen

No. 162—Length 3½ in.... .80

HOTZ

UNITED SERVICE

Has 10 Double Holes; 20 Reeds; Brassed Plates; Nickel Plated Covers

Per Dozen

No. 03—Length 4½ in.....$8.00

EXCELSIOR

Has 10 Double Holes; 20 Reeds; Brassed Plates; Nickel Plated Covers, Turned Ends.

Per Dozen

No. 04—Length 4¼ in.....$4.40

BLUE RIBBON

Has 10 Single Holes; 20 Reeds, Brassed Plates, Nickel Plated Covers

Per Dozen

No. 00—Length 4 in.....$4.00

All Above, One In Box; Average Weight 1½ Lbs. Dozen

ASSORTMENTS

Per Assortment

No. 1—One Dozen Assorted Harmonicas in Handsome Lithographed Counter Display Boxes... ... ...$8.50

Weight 2½ Lbs. Assortment

One Dozen Assorted Harmonicas mounted on Handsome Six Color Lithographed, Cut-Out measuring 11 in. in Height.

Per Assortment

No. 425—With One Dozen Assorted 50 Cent Sellers.....$9.00

No. 450—With One Dozen Assorted $1.00 Sellers 17.00

Average Weight 3¼ Lbs. Assortment

PARKER LUCKY-CURVE SELF-FILLING FOUNTAIN PENS

Chased Pattern, Showing Clip.

Plain Pattern, Showing Clip.

Ladies' Pattern.

The Parker Lucky Curve Fountain Pen is the only pen on the market that is guaranteed to give satisfaction and which carries an Accident Policy good for One Year from date of purchase, to keep in repair free of charge, the barrel, cap, feeder, nozzle or section.

The barrel is ink tight—safety sealed—a feature which no other self-filling pen has. The lever which squeezes the rubber ink sac comes out at the top of the barrel in the form of a button covered by an ink-tight safety cap. To fill the pen, simply immerse the point in ink, press the button and release it, return the pen in the ink for two or three seconds and it is filled.

Should at anytime the rubber sac give way, the ink cannot get out and soil clothing due to the safety seal feature. Also when this happens, the pen is not made useless, but can be used by removing sac and filling it with dropper, until you can replace sac with a new one.

All Pens are 14 Karat Gold.

PLAIN

Nos.	20L	23L	24L	25L
Size of pen, No.	2	3	4	5
Each	$2.75	3.25	4.25	5.25

CHASED

Nos.	20½	23½	24½	25½
Size of pen, No.	2	3	4	5
Each	$2.75	3.25	4.25	5.25

No. 200C—The most popular pen for ladies. Chased pattern, No. 2, 14 karat pen point, short length barrel, cap equipped with ring for ribbon or chain .....each $2.75

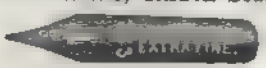
When ordering specify the type of point desired. Otherwise a medium point will be sent.

MILLER BROS.' STEEL PENS

No. 1 Bronze, Bank.

No. 4 White, Carbon Stub.

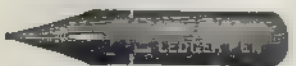
No. 94 Bronze, Express.



No. 333 Bronze, Extra Fine

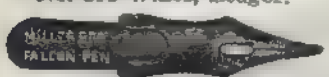
No. 20 Amalgam, Circular Pointed.

No. 119 Gray, Medium Stub



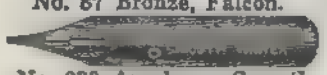
No. 101 White, Ledger.

No. 102 White, Fine Stub.

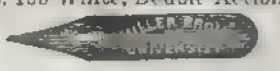


No. 87 Bronze, Falcon.

No. 105 White, Double Action.



No. 030 Amalgam, Smooth Writer.



No. 28 White, University.

No. 75 Amalgam, Anti-Corrosive.

No. 15 Bronze, Commercial.

All numbers .....per gross $1.80

PENHOLDERS

No. 294—Premier, extra large, taper, assorted red, black and natural wood handles, glass finish, cork tip, w't per doz. cards 3¼ lbs. .....per dozen cards $16.80

ONE DOZEN ON AN EASEL BACK DISPLAY CARD

CARTER'S INK

"Blue-Black."
Writes a deep blue, turns to a deep black. Specially adapted to bookkeeping and all uses where a free-flowing, permanent, non-fading ink is required.

WITH PATENT POUR-OUT

No. 11—1 qt. bottle, w't per doz. 55 lbs. .....per dozen $24.00
No. 12—1 pt. bottle, w't per doz. per dozen $14.40

ONE DOZEN IN A BOX

"Blue-Black."
Writes a deep blue, turns to a deep black. Specially adapted to bookkeeping and all uses where a free-flowing, permanent, non-fading ink is required.

WITH EMBOSSED OCTAGONAL TOP

No. 19—2 oz. bottle, square, hard rubber top cork, w't per gross 70 lbs., per dozen $1.80

THREE DOZEN IN A BOX

No. 198.
Fancy Colors.
Carter's Standard Household Ink in fancy colors, attractively bottled, with milled wood tops. 1¼ oz. bottles, w't per gro. 48 lbs.

No. 198—Red .....per dozen 1.80

ONE DOZEN IN A BOX

CARTER'S INK

Fountain Pen.

A very clean, free-flowing blue, black ink, manufactured with particular reference to the requirements of fountain pens.

No. 249—1 oz. round bottles, w't per gro. 48 lbs. .....per dozen $1.80
No. 247—2 oz. square bottles, w't per gro. 72 lbs. .....per dozen $2.65

ONE DOZEN IN A BOX

LIBRARY PASTE

Screw Cap.
No. 157—1¼ oz. pure white stiff paste of smooth consistency, cones, brushes with tin caps and handles, w't per gro. 52 lbs., per dozen $1.80

THREE DOZEN IN A BOX

LIQUID PASTE

A pearly white liquid paste, requires no water, does not dry up.
Household Size.
No. 727—1¼ oz. cone, with brush and screw cap, w't per gro. 48 lbs., per dozen $1.70

THREE DOZEN IN A BOX

A pearly white liquid paste, requires no water, does not dry up.
Desk Jar.
No. 724—5 oz. jar, with dome screw cap and adjustable brush, w't per 95 lbs. .....pr dozen $7.20

ONE DOZEN IN A BOX

MUCILAGE

CARTER'S Great "Stickist." Wide mouth, brushes with tin handles and caps.

No. 342—3 oz. cylinders, w't per gro. 96 lbs. .....per dozen $2.65
No. 343—1¼ oz. cylinders, w't per gro. 50 lbs. .....per dozen $1.70

ONE DOZEN IN A BOX

KWIKSTICK

No. 15—Sanitary, no muss or fuss. It cannot possibly spill. The bottle will not clog. Fingers cannot get sticky. Simply invert the bottle and press. The tip depresses and releases the required amount of mucilage. Two dozen on a display stand, Weight—8 lbs. ..per carton $3.20

TWO DOZEN IN A CARTON
WE DO NOT BREAK CARTONS

THE

PARSONS MARINE STEAM TURBINE Co., LTD.,

Turbinia Works,

WALLSEND-ON-TYNE, England.

Telegraphic Address:
Adresse télégraphique: Dirección telegráfica:
"TURBINIA, WALLSEND-ON-TYNE."

London Office:
Bureau de Londres: Oficina en Londres:
8, VICTORIA STREET,
WESTMINSTER, LONDON, S.W. 1.

Codes: *Codes:* Codigos
BENTLEY'S, A 1 and WESTERN UNION.

Cargo Steamer "VESPASIAN," fitted with PARSONS MARINE GEARED TURBINES.

GEARED TURBINES suitable for all classes of vessels from CARGO BOATS to HIGH-SPEED ATLANTIC LINERS, also WAR VESSELS of all Classes.

Navire marchand à vapeur "VESPASIAN," muni de TURBINES DE MARINE "PARSONS" à engrenages.

TURBINES A ENGRENAGES convenant pour toutes classes de navires, depuis LES NAVIRES MARCHANDS jusqu'aux TRANSATLANTIQUES RAPIDES et aux NAVIRES DE GUERRE de toutes catégories.

Barco mercante "VESPASIAN," equipado con TURBINAS ENGRANADAS MARINAS "PARSONS."

TURBINAS ENGRANADAS, apropiadas para toda clase de vapores, desde BARCOS MERCANTES hasta los GRANDES PAQUEBOTES RAPIDOS y también NAVIOS DE GUERRA de toda clase.

Prices on Application

GOLDSMITH "PROFESSIONAL MODEL" FIELDERS' GLOVES

No. 1TB—The "Peer" of All; a combination infielder's and first baseman's glove; made of the finest horsehide, waterproof and oil tempered; out-seam stitched with heavy linen cord; has special web fingers and ready-broke pocket; finest kid leather lining with highest grade felt padding; full laced wrist, allowing adjustment of padding to suit the wearer; a glove of exceptional wearing qualities, each $7.50

No. 2KB—Hans Wagner Model; an extra large, long fingered, easy-fitting model; made of the finest tan horsehide; well padded in thumb and heel; stitched throughout with heavy linen thread; leather welted seams; oil tempered by special process, adding life as well as flexibility to the leather, it is ready-broke for immediate use; full kid lined and padded with the best quality felt; full laced wrist ....each $7.00

ABOVE, ONE IN A BOX

No. 3B—"Pat Duncan" Model; a very full and roomy model for the player who prefers an easy fitting model; made of the finest glove tanned horsehide; very soft and pliable; leather lined throughout, with welted seams; correctly padded and ready-broke for immediate use; the laced wrist permits the padding to be adjusted as desired, each $5.50

No. 4K—"Walter Johnson" Model; this glove represents a masterpiece of workmanship; the material is finest black flexible horsehide, with full kid lining; slightly raised heel, no padding in the palm, producing a natural ready-broke, ball-holding pocket; rawhide laced wrist; made to slip on and start playing, each $5.50

ABOVE, ONE IN A BOX

No. 5XL—"Carl Mays" Model; the leather used in this glove is genuine drab velvet finish horsehide; full leather lined, with tan welted seams; sewed with strong linen cord; snug fitting and lightly padded in thumb heel and little finger, producing a natural pocket laced wrist for adjusting padding; a glove which will give satisfactory service .....each $7.00

No. 6G—"Bigbee" Model; scoop up the hot ones with this short fingered model; especially adapted to infield play; cream finish horsehide, full leather lining; no padding in palm, insures a firmer grip; laced at wrist for adjusting pad; a very high grade glove .....each $5.00

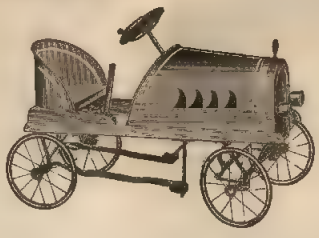
No. 7DW—"Roush" Model; made of finest Golden Brown Cowhide; out-seam stitched with heavy linen cord; kid leather lining, with highest grade felt padding; full laced wrist allowing adjustment of padding; a glove of exceptional wearing qualities .....each $5.00

ABOVE, ONE IN A BOX

AUTOMOBILE WAGONS

No. N600—Body 11x30 in., stencilled Reo; finished in red, or blue with brilliant striping and decorating; wheels 10 in. with ⅞ in. rubber tires and nickel plated hub caps. Equipped with knuckle joint steering gear bumper, iron rim steering wheel, self starter button, two imitation wooden headlights and motormeter. Running gears finished in black enamel, wheels finished in bright red enamel, w't per doz. 456 lbs.,
per dozen $105.00

ONE IN A CRATE

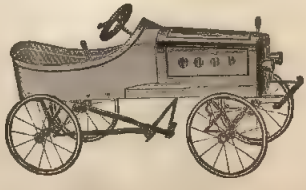


No. N384—Body 12x36 in., stencilled Paige; finished in red, grey, blue or yellow, with brilliant striping and decorations; wheels 10 in. with ⅞ in. rubber tires and nickel plated hub caps; equipped with shifting lever, knuckle joint steering gear, nickel plated gas lever attachment, motormeter, self starter button, two imitation wooden headlights; running gear finished in black enamel, wheels in red enamel, w't per dozen 588 lbs.,
per dozen $132.00

ONE IN A CRATE

No. N599—Body 11x30 in., stencilled Reo; finished in red, or blue with brilliant striping and decorating; wheels 10 in. with ⅞ in. rubber tires and nickel plated hub caps. Equipped with iron rim steering wheel, self starting button and motormeter. Running gears, finished in black enamel, wheels finished in bright red enamel, w't per doz. 456 lbs.,
per dozen $90.00

ONE IN A CRATE



No. N603—Body 13x38 in., stencilled Nash; finished in red, blue, yellow or gray with brilliant striping and decorating; wheels 12 in. with ⅞ in. rubber tires and nickel plated hub caps; equipped with shifting lever, knuckle joint steering gears, wood rim steering wheel with nickel plated gas lever attachments, motormeter, self starter button, two imitation wooden headlights, bumper, adjustable seat; running gears finished in black enamel, wheels finished in red enamel, w't per doz.
per dozen $165.00

ONE IN A CRATE

RADIATORS

PEERLESS FOR 1909 to 1916 FORD CARS

This is the same style radiator used on Ford cars for years, and will fit all models up to 1917.

The core is practically indestructible, as well as efficient. Has a large water capacity, and cooling surface is 33⅓% more than any ordinary type of core.

Has the same efficiency and capacity as No. A-11, which makes it of exceptional value on converted Ford truck units or tractors.

Capacity 11 pints; filler neck 2 inches in diameter.

Black enamel finish; honeycomb brass core, gray finish; heavily tinned malleable iron water connection; heavy wrought steel side brackets; parts coming into contact with water are brass.

No.	A-10
Each	$45 00

One in a wooden box; weight each 40 lbs.

PEERLESS FOR 1917 to 1921 FORD CARS

On 1917 to 1921 Fords, this radiator will fit the hood that is furnished by the Ford Motor Co.

The core is practically indestructible, as well as efficient. Has a large water capacity, and cooling surface is 33⅓% more than any ordinary type of core.

It is also particularly efficient on converted truck units or tractors, which require an exceptional radiator to properly cool the engine under heavy load.

Capacity 11 pints; filler neck 2 inches in diameter.

Black enamel finish; honeycomb brass core, gray finish; heavily tinned malleable iron water connection; heavy wrought steel side brackets; parts coming into contact with water are brass.

No.	A-11
Each	$45 00

One in a wooden box; weight each 50 lbs.

FREE RADIATOR DISPLAY EASELS

PEERLESS

This handsome display easel will be given free with orders for one each of Nos. A-10 and A-11 radiators. Easels will be shipped from Cincinnati, Ohio; radiators from Louisville.

No. A-5RDE Hardwood frame; white enamel finish; complete with 4 color lithographed hanger; height 60 inches; width 29 inches. } Free

One in a crate; weight each 50 lbs.

PEERLESS FOR 1918, 1919 AND 1921 NO. 490 CHEVROLET CARS

Shell is of heavy gauge bright finish cold rolled steel, finished in black enamel. All parts that come in contact with water are of brass. Top and bottom tanks are of one piece, eliminating soldered seams.

The honey comb brass core is practically indestructible. Has a large water capacity, and cooling surface is 33⅓% more than any ordinary type of core. Will keep the engine cool under the most severe conditions. Each

No. A-14—Capacity 11 pints filler neck 2 inches in diameter $75 00

One in a wooden box; weight each 45 lbs.

F. O. B. Ohio Factory Only.

RADIATORS

ZIG ZAG

FOR 1917 TO 1921 FORD CARS

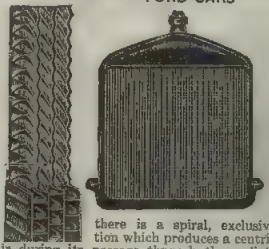
The new zig zag radiator gives the Ford a distinctive appearance; gives 20% more cooling efficiency which prevents overheating under the most trying conditions without adding any extra weight. The flexible construction of the tubes allows for considerable expansion due to freezing in winter, assuring the Ford owner against ordinary freezing trouble.

Each

No. A-2ZZN – Nickel finish $75 00
No. A-3ZZB—Black enameled 75 00

One in a carton; weight each 50 lbs.

SPIREX REGULAR, FOR 1917 AND LATER MODEL FORD CARS



The water channels are stamped from a single width of metal, folded over and lapped in the rear and soldered inside and out. Great strength and durability, given by one-piece channel construction and spiral braces, a feature found only in Spirex radiators. In each cell there is a spiral, exclusive Spirex construction which produces a centrifugal action on the air during its passage through the radiator, producing the increased cooling capacity. Spirex Spirals also greatly reinforce the core.

Spirex Special radiators have additional water channels giving 67% more cooling capacity. Cold weather has no effect on this radiator. The water channels expand when the water freezes and return to their natural form when the ice melts. Black enameled.

No.	A-1SSB
1 to 6, Each	$48 00
6 to 12, Each	46 50
12 or more, Each	45 00

One in a wood box; weight each 50 lbs.

RADIATOR, HOOD AND SHELL

PEERLESS

FOR 1915-21 FORD CARS

This combination being designed especially for models 1915 and 1916 giving the car the appearance of the late model. It gives the car a streamline effect.

The core is practically indestructible, as well as efficient. Has a large water capacity, and cooling surface is 33⅓% more than any ordinary type of core. It will absolutely keep the engine cool under the most severe conditions.

Capacity 11 pints; filler neck 2 inches in diameter. Each

No. A-12—Finished in black enamel; **Honeycomb** brass core, gray finish; heavily tinned malleable iron water connection; heavy wrought steel side brackets; all parts coming into contact with water are brass.. $87 00

Radiator packed in box; hood shield, etc., in carton; weight complete 65 lbs.

RADIATOR HOODS

FOR FORD CARS

Sheet steel, black enamel finish; concealed hinges, waterproof.

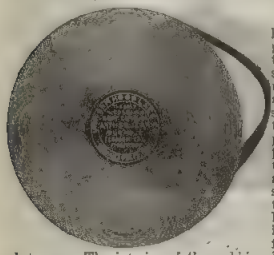
Will fit all model cars from 1917 to 1920; will also fit the 1921 or 1916 model car when used with No. A-12 combination.

No.	A-20PH
Each	$10 50

Five in a crate; weight each 29 lbs.

UNIFORM HOOD LACING

Fender Strips, Body Cushion and Anti-Squeak Material.



Uniform hood lacing is a textile product of exceptional tensile strength and toughness. The exterior is treated with a special preparation, and is fireproof. This fireproofing causes it to be admirably adapted to withstand friction; the heat of the hood prevents it from becoming filled with foreign substances. The interior of the webbing is thus kept alive, and so forms an elastic, springy, anti-rattle material. Being so treated, it does not dry out quickly or pack down hard and develop a rattle like leather or a thoroughly permeated product. This lacing may be used wherever an anti-squeak or anti rattle material is required. Put up 100 feet in a roll. Sold in full rolls only.

Nos.	A-HL-1/4	A-HL-3/8	A-HL-1/2	A-HL-5/8	A-HL-3/4	A-HL-1
Width, ins.	1/4	3/8	1/2	5/8	3/4	1
Wts. per roll, lbs	1/2	3/4	1	1 1/2	1 1/2	2 1/4
Per Roll	$4 50	5 40	6 00	7 50	9 00	10 50
	6 75	8 10	9 00	11 25	13 50	15 75

Packed loose.

RADIATOR COVERS

SAFE STORM

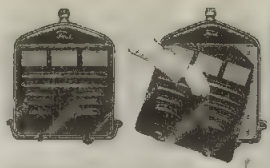
Two-Piece.

Made from 32 oz. black automobile top rubber; water, wind and weatherproof; surface will not crack or peel off; lined with good quality felt that will retain the heat. These covers are made in two parts, so that the engine hood can be raised without removing the radiator cover. Fitted with two piece radiator curtain which can be closed when car is standing to hold all the heat, and entirely opened when driving or half closed at bottom in extreme cold weather.

	Each
No. A-1720F—For Ford cars, all models 1917 to 1921	$8 70
No. A-2001C—For Chevrolet cars, 490 model, 1916 to 1920	12 00
No. A-2000D—For Dodge cars, all models	13 50

RADIATOR PROTECTORS

RIGHT



Made of 20-gauge auto body steel; finished in high grade enamel, baked on. Application can be made merely by slipping it on. When properly applied. It scientifically distributes air through radiator at points where it is most needed.

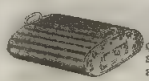
The main feature of this protector is that when it is properly applied it allows no radiator to freeze while the motor is running. Insures a smooth running motor in the coldest weather, saves gasoline and oil.

No.	A-33FRP
List Price, Each	$2 00
Each	4 50

One dozen in a carton; weight per dozen 42 lbs.

CARRIAGE AND AUTO HEATERS

CLARK'S



CLARK'S CARRIAGE

Oval shape; covered with brussels carpet; white metal ends. End ventilators; heat quickly, furnishing a mild and comfortable temperature.

	Each
No. A-5B—Length 12 inches	$7 32

One in a package; weight each 4 lbs.

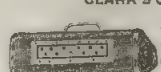
CLARK'S CARRIAGE

A slanting, flat-top heater, with adjustable end ventilators. Covered with a fine grade of rich green brussels carpet. Has steel end ventilators.

	Each
No. A-7C—Length 14 inches	$9 00

One in a package, weight each 6 lbs.

CLARK'S CARRIAGE AND AUTO



A well known and popular style, having flat slanting top, and having ventilators in both ends and at the side with which it can be made to throw out as much or as little heat as may be desired. Has cold drawn steel ends, heavily plated and is covered with superior brussels carpet.

	Each
No. A-7D—Length 14 inches	$10 68

One in a package; weight each 6 lbs.

HEATER COAL

CLARK'S

Made of the highest grade of materials. No known substance contains so high a caloric value. Unsurpassed in quality and excellence.

	Per Dozen
No. A-1RC—Clark's. Size of bricks 7 1/2x2 1/2x1 1/4 inches	$2 82

One dozen bricks in a carton; weight per dozen 9 lbs.

ELECTRIC WASHING MACHINES

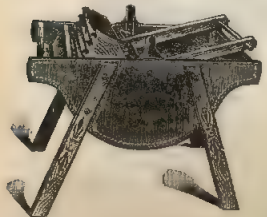
THE AMERICAN BEAUTY

Furnished with ½ H. P. Standard motor 110 volt, either alternating or direct current. Cypress tub corrugated throughout. Geared to give the dolly 85 full ⅔ turns per minute. Ball bearing casters and 10 ft. cord with separable attachment plug, brass drain faucet.

With each machine an emergency lever is furnished, with which to operate it in an easy way if power for the moment is not available.

No. F17 — Without wringer, w't crated 125 lbs.★ .....each $67.50

HAND POWER WASHING MACHINES



ADVANCE, kiln dried Arkansas cottonwood, height 24 in., length 33 in., width 21 in., galvanized iron bottom, with removable hardwood corrugated slats, hardwood cylinder and handle, galvanized iron socket guides, four hardwood bolted legs, w't per doz. 480 lbs.

No. W18—From stock, each $9 90

PEERLESS WATER POWER WASHERS

The pressure in the motor is concentrated so perfectly alternately on each side of the piston head that it only takes a minimum of pressure to produce more strokes per minute than any other water motor, and the "Peerless" water power machine is guaranteed to operate successfully on 20 lbs. pressure.

No. W30—This is very substantial, of thoroughly kiln dried clear southern cypress, rack is fully covered with a shield, shipping w't 900 lbs., each $32.00

TUB STANDS

No. W3132—For Nos. W31 and W32 Washers, height 18 in., diameter of top 16 in., steel electrically welded, shipping w't per set of two 25 lbs., per set of two $6.00

WATER MOTOR BELTS

One of these endless belts should be purchased with each water motor, as the regular rubber and leather belts are too heavy and use too much power.

No. 25—9 ft., endless belt for No. 1994 water motors, 1 in. wide, made of rubber and cloth webbing, each $0.80

REVONOC POWER PULLEY

REVONOC Pulley, 8 in., w't per doz. 42 lbs., per doz. $24.00

WATER MOTORS AND BRACKETS

Cut shows motor and bracket attached. Sold separately.

No. 1994—Motor 2 in. flat belt double **flanged pulley,** made of brass, iron and steel, for ¾ in. pipe, w't per doz. 160 lbs., each $11.00

No. 1944—Wall or bench **brackets,** w't per doz. 17 lbs.....each $9.60

PENBERTHY WASHING MACHINE DRAINER

It is designed to transfer water from washing machines, wash tubs, cellar tubs, or any place where there is an accumulation, by means of ordinary water pressure. No electrical, steam or other operative power required.

No. 10—Aluminum, w't 5 ounces, w't per dozen 4 lbs. .....each $4.20
ONE DOZEN IN A BOX

WASHING MACHINE DRAINER ADAPTERS

Adapters can be supplied for use where the faucet is not threaded. Simply slip this over the smooth faucet, screw on the coupling and a tight connection is made.

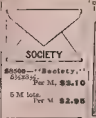
No. 5—Brass, w't per doz. 2 lbs., each $0.70
ONE DOZEN IN A BOX

★ Items Marked Thus ★ Are Shipped From Factory Only.

"HY-TONE" WRITING TABLETS AND ENVELOPES TO MATCH

"Hy-Tone" envelope to match tablets 87091—
87096 M lot 10c box.

87502—"Colonial" 6x3½. Per M, $3.30
5 M lots, Per M, $3.15



87500—"Society." 5½x8½. Per M, $3.10
5 M lots, Per M, $2.95

84499—"Royal" 5½x8½. Per M, $3.10
5 M lots, Per M, $2.95

84501—"Hanover" 5½x8½. Per M, $3.20
5 M lots, Per M, $3.15

Hy Tone Linen Fabric—
Fine quality cloth finish paper, water-marked and cover and tablet wove design
1 doz. in pkg

RULED—
87091—5x8, 80 pp.
87092—5½x8, 70 pp.
87093—6½x10, 40 pp.
87094—8x10, 30 pp.
Gro $8.25 Doz 72c

UNRULED—
87095—5x8, 80 pp.
87096—5½x8, 60 pp.
87097—6½x10, 40 pp.
87098—8x10, 30 pp.
Gro $6.25 Doz 72c

"THISTLE LINEN" WRITING TABLETS AND ENVELOPES TO MATCH

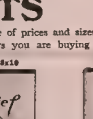
Fine quality white cloth finish paper water-marked, ruled writing surface, white coated cover stock, thistle cover design in natural colors.
1 doz. in pkg

Regular Count—
RULED—
87082—5x8, 80 pp. ..... Doz 80c
87083—5½x8, 80 pp. ..... Gro $9.00
87084—6x10 ½ pp. .....
UNRULED—
87085—5x8, 80 pp. ..... Doz 80c
87086—5½x8, 80 pp. ..... Gro $9.00
87087—6x10 ½ pp. .....
87088—8x10, 30 pp. ..... 5 M lots, $8.25

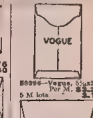
Thistle Linen Envelopes—To match 88178-

84496 Royal 5½x8½. Per M, $3.10
5 M lots, $2.95

88282—Colonial 6x3½. Per M, $3.25
5 M lots, $3.10



88280—Society 5½x3½. Per M, $3.05
5 M lots, $2.85



88286—Vogue 5½x8½. Per M, $3.10
5 M lots, $2.95

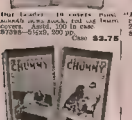
88284—Hanover 5½x8½. Per M, $3.20
5 M lots, $3.05

Per M $3.00
(Total 88178)

PENCIL TABLETS

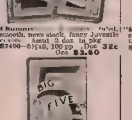
The biggest values for the money in Pencil Tablets in this country. Big range of prices and sizes, and a nice assortment of attractive covers. When you buy any of these numbers you are buying right.

Size 5½x8

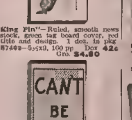


"Our Leader" 18 covers, ruled smooth news stock, assorted blank covers, good 100 in case.
97095—5½x8, 200 pp. Case $2.75

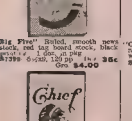
"Animals of the Zoo"—6 styles, ruled smooth news stock, 6 colored lion head cover, 100 sheets per pkg.
87384—5½x8, 150 pp. Doz 42c
Gro $4.75



"Chummy"—Ruled, smooth news stock, assd 2 dcs in pkg
87400—5½x8, 100 pp. Doz 32c
Gro $3.80



"King Pin"—Ruled, smooth news stock, green tag board cover, red title and design. 1 doz. in pkg
87489—5½x8, 100 pp. Doz 42c
Gro $4.80



"Big Five" Ruled, smooth news stock, red tag board stock, black printed cover. 1 doz. in pkg
91399—6x10, 120 pp. Doz 36c
Gro $4.00

"Can't Be Beat"—Ruled, smooth news stock, red tag board cover with black printed design. 1 doz in pkg
91465—6x10, 200 pp. Doz 45c
Gro $5.25

"Chief"—Ruled, smooth news stock, pencilmost cover, Indian design in red and black, place for name and grade on cover 1 doz. in pkg
87404—5x8, 140 pp. Doz 36c
Gro $4.00

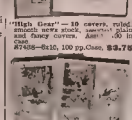
Big Value—Ruled, smooth news stock, red tag board cover. 1 doz. in pkg
87446—5½x8, 150 pp. Doz 60c
Gro $6.70

"Red Ribbon"—Ruled, smooth news stock, red tag board cover. 1 doz. in pkg
87391—5½x8, 100 pp.
Doz 42c
Gro $4.80

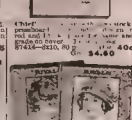
"Overweight Tablet"—Ruled, smooth news stock, red tag board cover. 1 doz. in pkg
87446—5½x8, 200 pp.
Doz 45c
Gro $5.25

Size 5½x8

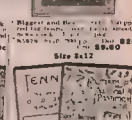
Size 8x10



"High Gear"—19 covers, ruled smooth news stock, assorted plain and fancy covers. 100 in pkg
87426—8x10, 100 pp. Case $3.75



"Chief" [illegible] stock [illegible] red and [illegible] cover [illegible] 100 in pkg
87434—8x10, 80 pp. Doz 40c
Gro $4.60



"Biggest and Best"—[illegible] red tag board, [illegible] smooth news stock [illegible] 100 in pkg
87435—8x10, 100 pp. Doz 82c
Gro $9.60

Note Book—[illegible] covers, ruled smooth news stock, [illegible] 100 in pkg
87417—8x10, 100 pp. Doz 36c
Gro $4.40

Records—[illegible] covers, ruled smooth news stock, [illegible] 100 in pkg
87415—8x10, 100 pp. Doz 42c
Gro $4.80

Size 8x12

"Sport Champions"—4 covers, ruled, smooth news stock, sport views borders with pictures of various sport champions in brown reproduction. Asstd. 100 in pkg
87439—8x12, 80 pp. Gro $4.60

"Popular Games"—13 covers, ruled, smooth news stock, 8 block and solid cover designs. 100 in pkg
87418—8x10, 100 pp. Doz 36c
Gro $4.00

"Guarantee" Ruled, smooth news stock, white coated cover stock, red and black printed design on each cover. 1 doz. in pkg
87420—8x10, 100 pp. Doz 45c
Gro $5.25

"Warrior"—Ruled smooth news stock, red tag board cover, black title and design, gold border, space for name of school on cover. 1 doz. in pkg
87437—8x10 80 pp. Doz 42c
Gro $4.80

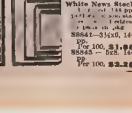
Minnesota "State Seal" Pencil Tablet

Made exclusively for Butler Brothers 8 state minimum

81479—8x10, 80 pp.; ruled smooth news stock, gold on the pencilmost cover, lithographed in blue and gold on high grade mottled cover stock. 1 doz. in pkg

Doz. **42c**
Gro. **$4.80**

Big Chief—Ruled, smooth news stock, red tag board cover. 1 doz. in pkg
87419—8x10, 140 pp. Doz 72c
Gro $8.50



SCRATCHPADS

White News Stock
1 color, 144 pp.
8844—5½x8. 144 pp. Per 100, $1.98
88845—8x10. 144 pp. Per 100, $2.25

SPECIAL TABLETS

High School Theme Tablets — Ruling is in blue for ease of reading. Regular 100-page size. Black title and design. 1 doz. in pkg.
87627—5 x 7½, 14 leaves
Doz. **$4.85** Dz. **42c**

Advance Spelling Tablet — Contains 100 sheets of white paper, ruled in blue, with space for correct spelling and misspelled words. 1 doz. in pkg.
87503 5 x 7 leaves
Gro. **$4.80** Gro. **42c**

"Graded School Tablets" — Blue ruled, white paper, gray boarded cover, black and red label cover, title and design. 1 doz. in pkg.
87308—5 x 8, 10 leaves
Doz. **$4.80** Dz. **42c**

Winter White Drawing Tablet — Ivory white drawing paper, fine quality. 1 doz. in pkg.
85616—9x12, 8 leaves
Gro. **$4.80** Gro. **42c**

"Chief" Drawing Tablets — Drawing and pencil boards, white paper, fine quality, heavy cover, Indian design in red, black and green on cover. 1 doz. in pkg.
87310—9x12, 10 leaves
Gro. **$4.80** Gro. **42c**

Pencil Tablets—Ruled smooth manila stock, 64 pages. 1 doz. in pkg.
87359—9x 6, 150 pp. Doz. **42c**
87351—5x10, 72 pp.
87352—8x13, 60 pp.
Gro. **$4.80**

Examination Tablet — Medium weight white wove paper, ruled, punched holes for filing, place for name and grade on cover. 1 doz. in pkg.
87365—9x12, 10 leaves
Gro. **$4.80** Gro. **42c**

Spelling Tablet — Heavy white wove paper, 32 numbered pages, space for name of correct and misspelled words, perforated and stapled, place for name and grade on cover. 1 doz. in pkg.
87322—8x10, 40 leaves
Gro. **$4.80** Gro. **42c**

Drawing Tablet — Heavy white drawing and pencil paper, blue cover, place for name and grade on cover. 1 doz. in pkg.
87304—9x12, 16 leaves
Doz. **$4.80** Doz. **42c**

Writing Tablet — Ruled cream white wove paper, fine quality, place for name and grade on cover. 1 doz. in pkg.
87324—9x8, 80 pp.
87354—5x10, 96 pp.
87355—8x10, 48 pp.
Gro. **$4.60** Gro. **42c**

Theme Tablet — Heavy white wove paper, marginal ruling, punched holes for filing, place for name and grade on cover. 1 doz. in pkg.
87383—9x10½, 15 leaves
Gro. **$4.80** Gro. **42c**

Students' Note Books — Ruled, heavy white wove paper, open end, linen sewed, place for name and grade on cover.
87390—5x8, 192 pp.
87391—8x8, 96 pp.
Gro. **$4.80** Gro. **42c**

Composition Books—Heavy white wove paper free from pencil marks in formation on back, place for name and grade on cover.
87356—5x8, 48 pp., pasted
87357—7x8½, 64 pp., pasted
87358—9x7, 96 pp., pasted
87359—9x7, 192 pp., pasted
87360—9x10, 2-pp. ruling
Gro. **$4.80** Doz. **42c**

"LITTLE RED SCHOOL HOUSE" TABLETS AND COMPOSITION BOOKS

UNIFORM SCHOOL SERIES

COMPOSITION BOOKS

LOOSE LEAF NOTE BOOKS

Variety Sc Asst.—Ruled, white wove paper, attractive cover designs. Asst. 4 to case.
87320—7x8½, 80 pp.
Doz. **$3.80**

"Circus Parade"—4 covers, ruled, white manila stock. Publication size. Asst. 4 to case.
87323—6½x8½, 56 pp.
Doz. **39c**
Gro. **$4.50**

"Chief"—Ruled, heavy white wove paper, manila cover, with Indian design in red, black and green. Space for name and grade on front cover. 1 doz. in pkg.
87331—8x10, 32 pp.
Gro. **$4.80** Doz. **40c**

"Favorite"—Ruled fine quality white wove paper, bristol board cover. 1 doz. in pkg.
87315—7x8½, 80 pp.
Gro. **$4.80** Doz. **42c**

Champion 4 covers, ruled, white wove paper, fine writing surface. Publication size. Asst. 4 to case.
87326—8x10, 40 pp.
Doz. **45c**
Gro. **$5.25**

"Black Morocco"—Ruled fine white wove paper, black imitation leather cover, linen sewed. 1 doz. in pkg.
87327—5x8, 96 pp.
Doz. **85c**

"President" — Ruled, good quality white wove paper, Practice size. 1 doz. in pkg.
87312—7x9½, 48 pp.
Doz. **37c**
Gro. **$4.25**

"Chief"—Good quality white wove paper, ruled, with manila cover, with Indian design in red and green. Space for name and grade on front cover. 1 doz. in pkg.
87325—7x8½, 64 pp.
Gro. **$4.60** Doz. **39c**

The Carload—Ruled hard white wove paper, smooth writing surface, with blank back cover, suitable for pencil or ink use. 1 doz. in pkg.
87317—7x8½, 100 pp.
Gro. **$4.80**

"Our Flag" — Ruled, fine white wove paper, smooth writing surface, with blank back cover, suitable for pencil or ink use. 1 doz. in pkg.
87316—7x8½, 48 pp.
Gro. **$4.60**

"Senior"—Ruled, fine quality white wove paper, bristol board cover, linen sewed and reinforced. 1 doz. in pkg.
87328—7x8½, 96 pp.
Doz. **75c**
Gro. **$8.50**

NOTE BOOKS

Oxford — Ruled white wove paper, manila cover, linen sewed. 1 doz. in pkg.
87338—5x8, 120 pp.
87339—5x8, 32 pp.
87340—6x9, 32 pp.
Gro. **$4.60** Doz. **40c**

E. & P. "Banner"—10½x8, side opening, heavy board back, cloth covered, black oilcloth corners, printed on cover, gilt edges, 200 ruled leaves, marginal ruled. Item 83200 Black
84704 [illegible] pkg.
Dz. **$2.00**

★ Prices marked with a star (as ★20) are "special" for the current month. See the "STIMULATOR" Pages.

LOOSE LEAF NOTE BOOKS

"The Master"—11x8¼, uses a 10½x8 in. sheet, medium weight, bound in full black cloth, skeleton frame inside flaxen, rings ⅜ in. diameter, 6 in. center to center, plated and polished, blind stamped title and border
83207—½ doz. in pkg
Doz. **$2.25**
FILLERS FOR 83202 and 83201—10½x8. 50 sheets to pkg. punched 6 in center to center 1 doz. in pkg.
83208—Ruled with margin. Doz pkgs **70c**
Gro. **$8.00**

"Simplex" Covers heavy stiff boards, full ribbed black covered. Mixed tooling, quick opening all-metal ring device. ½ doz. in box.
OPEN SIDE—
83304—10½x8 ..... Doz. **$4.80**
83305—10½x8 ..... ★
FILLERS FOR "SIMPLEX"—Good quality white wove paper, ruled and marginal ruled. 1 doz. pkgs. in bdl.
83775—50 sheets, 9½x8, fits 83304, 83305
83776—50 sheets, 10½x8, fits 83304, 83305
Doz. pkgs. **70c**
Gro. **$8.00**

Guaranteed Prices

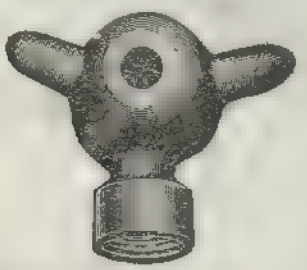
"OUR DRUMMER" takes the risk out of buying because it guarantees our printed prices against advances. And in a declining market we bill at lowest prices on date of shipment.

"Our Drummer" takes the risk out of buying.

LAWN SPRINKLERS

WILGUS

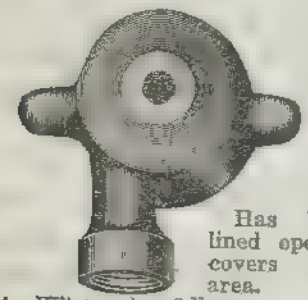
Made of white metal and cannot rust, all have machine tapped threads practically indestructible.



Has brass lined opening, double chamber giving a wide spray also a single center stream rising high, efficient on any pressure.

No. 2—W't per doz. 10 lbs., per dozen $10.80

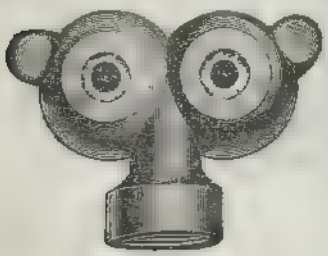
HALF DOZEN IN A BOX



Has brass lined opening, covers large area.

No. 1—W't per doz. 9 lbs., per dozen $9.00

HALF DOZEN IN A BOX

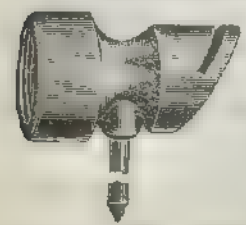


TWIN

Has double brass lined opening giving two conflicting sprays, beautiful and effective. Good for any pressure.

No. 7—W't per doz. 7 lbs., per dozen $7.20

HALF DOZEN IN A BOX



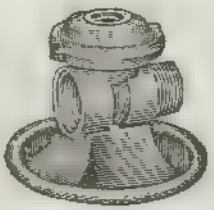
FAN

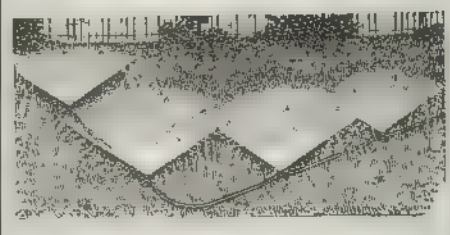
Throws a half circle spray one way. Excellent for use at side of house or walks.

No. 8—With spike, w't per doz. 5 lbs. .....per dozen $5.40

ONE DOZEN IN A BOX

"WILGUS MULTIPLE"



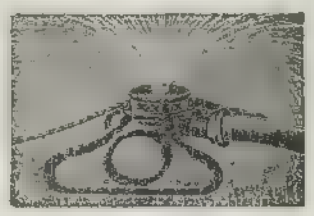


White non-corrosive metal with male and female threads, mounted on a heavy cast iron, disc-like base. Pressure permitting, any desired number may be connected in line of hose, affording a portable system, readily moved, and capable of any arrangement. Entire lawn can be covered at one time.

No. 51—¼ in. outlet, w't per doz. 21 lbs. .....per dozen $28.80

HALF DOZEN IN A BOX WITH ONE STOP CAP FOR END SPRINKLER

ELGIN



Throws a very uniform and even spray. No revolving parts to get out of order. Will not clog with sand or dirt. Very simple and effective.

No. 502—Cast iron japanned base and hose connection, orange lacquered top for ½ in. garden hose, 7x9 in. base, height over all 3 in., w't per doz. 30 lbs. .....per dozen $16.00

QUARTER DOZEN IN A BOX

BUTTERFLY

Revolving spoon will distribute satisfactorily over a circle of 30 ft. in diameter.

Regular stock is threaded for ⅝ in. iron pipe, but we can furnish them for ½, ¾ and 1 in. iron pipe or ¾ in. hose pipe thread.

No. 550—Gray iron, galvanized by a new process, ⅝ in. iron pipe, thread, cut in base, to fit Nos. 551, 554 and 556 sprinkler bases and stems, w't per doz. 7½ lbs. .....per dozen $8.30

ONE IN A PASTEBOARD BOX

Being mounted close to the ground, the vibration is less, consequently the spoon revolves more rapidly and better distribution results. Hydrant pressure of 35 lbs. will distribute satisfactorily over a circle 30 ft. in diameter.

No. 551—Gray galvanized iron head, japanned iron sled base, w't per doz. 26 lbs. .....per dozen $15.50

ONE DOZEN IN A PASTEBOARD BOX

Galvanized gray iron, sharp point in base for setting in ground.

No. 554 is proving especially popular for private lawns while No. 556 is being used largely in parks, cemeteries and golf grounds.

Nos.	554	556
Standard, ft.	4	6
W't, doz., lbs. ..	42	54
Per dozen $19.20		23.70

LOOSE

LAWN SPRINKLERS

REVONOC

Sprinkles quickly and thoroughly, an area of about 40 feet diameter. The head and arms are brass, highly polished, extra large base finished beautifully in black enamel.

No. 525—Height 5 in., for ¾ in. hose, w't per doz. 27 lbs., per dozen $24.00

ONE IN A BOX; ONE DOZEN IN A CASE

In this sprinkler friction has been entirely eliminated by improved head, and it revolves easily on very light water pressure. Large black enameled base, the arms and head are highly polished. Will sprinkle thoroughly an area of 45 feet diameter. Has loose coupling nut for quick connection to hose.

No. 519—For ¾ in. hose, height 10 in., w't per doz. 40 lbs., per dozen $30.00

ONE IN A CARTON; ONE DOZEN IN A CASE

BALL BEARING

Has a large black enameled base, the head and arms are polished brass, revolving on ball bearings. The long curve on the arms permits a greater range in distributing water. When arms are set upright it will sprinkle 15 feet high and 50 feet diameter, distributing as much water close up to the sprinkler as at a distance. Can also sprinkle only a few feet by turning down water pressure. Has loose coupling nut for quick connection to the hose.

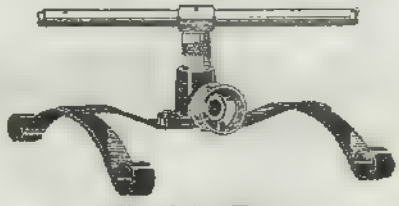
No. 522—Height 12 in., for ¾ in. hose, w't per doz. 47 lbs., per dozen $31.00

ONE IN A BOX; ONE DOZEN IN A CASE

HOT HOUSE ROSE SPRINKLERS

"RAINBOW"

The special feature of these is that they are instantly set in motion with low pressure water, will work equally as well with high pressure, and the water descends in small particles like mist and rain combined, covering an area of 40 to 50 ft. Strong in construction, attractive in appearance.



For ¾ in. Hose.

Supported on a brass sled which may be easily drawn over the lawn without injury to the turf.

No. 560—W't per doz. 18 lbs., per dozen $48.00

ONE DOZEN IN A BOX

For ¾ in. Hose.

Brass stick type, very effective on uneven surfaces, for sprinkling flower or vegetable gardens.

No. 570—W't per doz. 11 lbs., per dozen $40.00

ONE DOZEN IN A BOX

"FISHER"

FISHER, nickel plated brass arms and head, steel tube or shank painted green, with standard sharp point for setting in ground, height from ground 23 in., length over all 29 in.

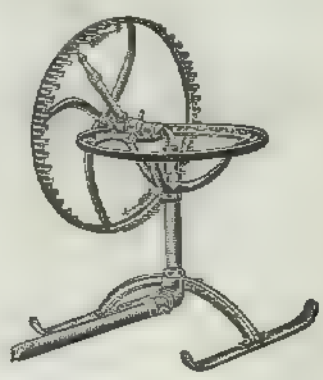
Sprinkler arms can be adjusted to cover a space from 6 feet to 50 feet in diameter with the ordinary city pressure of 30 lbs., and with the minimum pressure of 15 lbs., thirty feet in diameter can be covered perfectly.

No. 534—With standard to stick in ground, w't per doz. 36 lbs., per dozen $60.00

No. 535—With feet, w't per doz. 54 lbs. .....per dozen $70.00

LOOSE

"PENNSYLVANIA RAINMAKER"



This sprinkler waters an area of 300 to 500 square yards with drops or spray; doesn't flood; doesn't swamp at the center; doesn't wash out soil; doesn't chill tender grass or plants, and works without attention.

It is made on the turbine principle. The water coming from the nozzle strikes the turbine paddles, turning the wheel. As the turbine wheel revolves it travels around the circular base, carrying the jet around approximately eight times a minute. It distributes the water evenly over the entire area so gradually that it allows it to sink into the ground and not run off into low places.

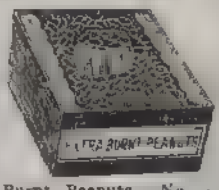
Easily regulated to throw heavy or medium drops, or fine spray. With a pressure of 40 to 60 pounds, it will distribute this evenly from the center to the extreme edge of a circular area 60 to 75 feet in diameter. Most of the spray travels through the air much further than is true of all other sprinklers. That gives it time to lose the chill so harmful to tender plants.

No. F575—For ¾ in. hose, height 29 in., width 27 in., w't each 52 lbs., each★ $48.00

ONE IN A CRATE

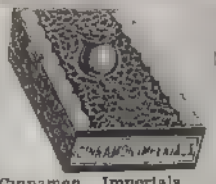
PENNY CUP CANDIES

Jelly Beans—Soft jelly center pan coated in assorted colors
P2191 [illegible] Box 75



Burnt Peanuts—No. 1 Virginia peanut roasted and coated roughly in pan
P2193 [illegible] Box 75

Boston Baked Beans—No. 1 Spanish Peanuts, roasted and pan coated.
P2192 — Box of 120 penny cups. Box 75



Cinnamon Imperials—Hard pan coated, bright red.
P2194 — Box of 120 penny cups. Box .75

BAR CHOCOLATES KLEIN'S

P2212 — Plain sweet milk chocolate, foil wrapped; 24 in box. Box .32

P2213 — Almond bar, sweet milk chocolate, whole almonds; tissue wrapped, 24 in box. Box .80

P2214 — Lunch Bar: selects, whole peanuts, sweet milk chocolate, tissue wrapped; 24 in box. Box .32

PRIZE POP CORN

Select pop corn, crisp and delicious, molasses coated; in moisture proof box with prize
P2293—100 [illegible] Case 3.75
P2292—50 [illegible] Case 1.90

SUGAR COATED PEIZE POP CORN

P2290—Peanut Jacket, 50 in case. Case 1.60
P2291—Peanut Jacket, 100 in case. Case 3.10

JACK RABBIT STICK CANDY

GUARANTEED TO STAND ANY CLIMATE

100 in box

P2198—Mint Stick
P2199—Lemon Stick [illegible]
P2200 [illegible] Butter Stick
P2201 [illegible]
} Box 65

BIG STICK FOR 5 CENTS

Each piece wrapped

P2202 Mint—25 in box
P2203 Lemon—25 in box
} Box .85

P2204—As above, 100 sticks of a flavor in case. Case [illegible] 3.25
P2205—As above, 100 sticks assorted 2 flavors in case. Case [illegible] 3.25

NEW GRAB BAG

P2283 Box contains 20 5c [illegible] packages and 3 nickels in each box. Each [illegible] 2.25

CANDY IN PAILS

Liberty Mixed, [illegible] fancy designs in grain [illegible] wax paper and [illegible] pepper seal
P2262 20 lbs. in pail 20

Assorted color and flav[illegible] in [illegible] sprayed [illegible]
P2263 30 lbs. [illegible] 11

[illegible] sorted, 5 lbs. each in [illegible] 44 to the [illegible] carton
P2261 [illegible] 10 lbs. 2.25

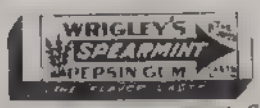
Tuxedo Mixed, [illegible] best assortment of plain and crystallized [illegible] and [illegible] shapes
P2281 30 lbs in pail. Lb 15

LIGHT HOUSE CHOCOLATE ASSORTMENT

Case contains 35 lbs. high grade [illegible] assorted [illegible] fall [illegible]
10 lbs Vanilla [illegible] Cream
5 lbs. Orange 5 lbs Strawberry
5 lbs Lemon
P2265—35 lbs in case. Lb 21

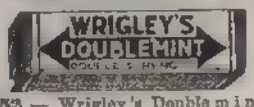
CHEWING GUMS

Standard wrapped popular favorites, good sellers in every candy and cigar store



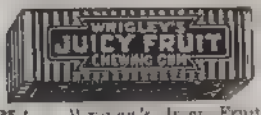
P2251—Wrigley's Spearmint Gum; 20 5c packages in box. Box .65

P2256—Adam's Black Jack; licorice flavor. 20 [illegible] packages in box. Box 65



P2252 — Wrigley's Doublemint; double strength; 20 5-cent packages in box. Box [illegible] .65

P2257—Adam's California Fruit, Tutti Fruit flavor; 20 5-cent packages in box. Box 65



P2254 Wrigley's Juicy Fruit, 5 pieces in foil wrapped package; 20 pkgs. in box. Box .65

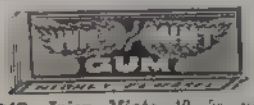
ADAM S YUCATAN

P2254 [illegible] flavor; 20 5 [illegible] box Box .65

P2258—Adam's Chicklets; pepper[illegible]mint flavor candy coated; 20 5 cent packages of 10 chicklets each in box. Box .65

P2255—Each piece foil wrapped; 5 banded in package; 20 packages in box. Box .70

P2247 IXL Spearmint 40 5c packages in box. Box .55



P2248—Juicy Mint; 40 5c packages in box. Box .55

GUM BIFFS

P2250 [illegible] ing [illegible] squares pan coated; assorted colors and flavors; 300 in box. Box .85

CAKE CONES

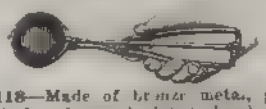
100 per cent pure, rich, crisp, sweet, creamy cake, natural color, no artificial coloring used; 100 cones in box

P2277—100 [illegible] .45
In lots of 1000. 4.25

ICE CREAM STORE ACCESSORIES

AUTOMATIC DISHERS

For Ice Cream and Cones



Y118—Made of bronze metal, polished and nickel plated, bowl and scraper nickel plated, discharges automatically by simply closing the hand; sizes 8 10, 12, 16, 20, 24, 30 to the quart; in ordering specify size wanted. Each 1.85

Y117—Bronze metal nickeled and polished, bowl and scraper [illegible] of nickel silver, ratchet thumb piece which [illegible] scraper, spring is concealed and all moving parts are far away from the bowl, so as not to gather and hold cream. sizes 8, 10, 12, 16, 20, 24 and 30 to the quart; in ordering specify size wanted. Each in box. Each [illegible] 2.75

ICE CREAM PAILS

Made of one piece cardboard with folded ends, making them leak proof, wire handle 100 in package or less sold

	M	100
W75 ½ pint	1.75	.52
W76—1 pint	6.50	.70
W77—1 quart [illegible]	9.50	.90

ICE CREAM SAUCERS

W122—4¼ in ice cream saucer, heavy manila stock; scalloped edge; no dishes to wash, clean, enough to throw away after using. ¼ M in bundle M 1.75

FLAGS AND DECORATION GOODS

A selected line of Flags and Decoration Goods which contains everything needed for any purpose. Prices furnished on application for special designs or decorations. We are headquarters for this class of merchandise and you can save money by buying here.

UNITED STATES FLAGS

Printed Muslin Flags on Sticks

Complete number of stars; bright colors; will stand rain; guaranteed first class; beware of the cheese cloth kind, and seconds, where the colors are blurred and faded.

	Gross
F1—2x3 inches	.44
F2—2½x4 inches	.62
F3—3½x6 inches	.88
F4—4½x7½ inches	1.35
F5—6x9½ inches	2.15
F5½—7x10½ inches	2.75
	Dozen
F6—8x14 inches	.36
F7—11x18 inches	.60
F7½—12x23 inches	.78
F8a—14x24 inches	.90
F8—18x27½ inches	1.35
F9—20x36 inches	2.00
F10—27x43 inches	3.00

Packed 1 dozen in a package

SOFT COTTON BUNTING

Mounted on Spear Head Staff

Mounted on staff gilded spear; color bright and fast; these flags are hemmed and have no raw edges, and will stand the rain and sun.

F44—Size 12 inches; 1 dozen in bundle. Dozen ..... .45
F45—Size 15 inches; 1 dozen in bundle. Dozen ..... .72
F46—Size 18 inches; 1 dozen in bundle. Dozen ..... .79
F47—Size 24 inches; 1 dozen in bundle. Dozen 1.35
F48—Size 30 inches. 1 dozen in bundle. Dozen 1.90
F49—Size 36 inches; 1 dozen in bundle. Dozen 2.65
F50—Size 48 inches; ½ dozen in bundle. Dozen 4.90

UNION BUNTING FLAGS

(Imitation Wool Bunting)

Owing to the big advance in wool bunting, we are handling this imitation wool; it is hard to distinguish from the real wool; costs about half as much and will stand 50 per cent more wear; absolutely moth proof; colors guaranteed fast to sun and rain; sewed stars and stripes; strong canvas heading and grommets.

	Each
F81— 3x 5 feet	1.50
F82— 4x 6 feet	2.00
F83— 5x 8 feet	2.90
F84— 6x10 feet	3.75
F85— 8x12 feet	5.75
F86— 8x15 feet	7.00
F87—10x20 feet	11.00

Our confetti is round cut, bright and free from dust and stems

COTTON BUNTING FLAGS

Superior quality; soft finish; bright and absolutely fast colors; with canvas heading and grommets, sewed stripes

F58—3x 5 feet. Each .55
F59—4x 6 feet. Each .85
F60—5x 8 feet. Each 1.45
F61—8x10 feet. Each 1.90

WOOL BUNTING FLAGS

Best workmanship guaranteed, full number of stars sewed on both sides; strong canvas heading and grommets; we guarantee sizes. Each

F71— 5x3 feet 2.25
F72— 6x4 feet 3.15
F73— 8x5 feet 4.90
F74—10x6 feet 6.90
F75—12x8 feet 10.60
F76—15x8 feet 13.75

U. S. SILK FLAGS

Heavy printed silk—mounted on varnished staff with gilt spear

F28—12x18 in. Doz. ... 3.75
F29—16x24 in. Doz. ... 8.50
Each ..... .85
F30—24x36 in. Dozen..... 17.20
Each 1.75
F31—32x48 in. Each 3.00

U. S. SILK FLAGS

Unmounted

Nicely printed on heavy silk

F33— 8x12 in. Dozen..... Out
F34—12x18 in. Dozen..... 2.25

PONGEE SILK FLAGS

Silk U. S. flags, mounted on black staff with gilt ornament on top; all flags except No. F36 are hemmed; best quality Japanese silk

F36. Size 1½x2 ins.; 1 gross in box. Gross... .60
F37—Size 2x3 ins.; 1 gross in box. Gross Out
F38—Size 3x4 inches, 1 dozen in bundle. Dozen ..... Out
F39—Size 5x7 inches, 1 dozen in bundle. Dozen ..... .35
F52—Size 5x8 inches; 1 dozen in bundle. Dozen ..... .40
F40—Size 6x9 inches; 1 dozen in bundle. Dozen ..... .45
F41—Size 8x12 inches, 1 dozen in bundle. Dozen ..... Out
F42—Size 10x15 inches; 1 dozen in bundle. Dozen..... Out
F43—Size 12x18 inches, 1 dozen in bundle. Dozen ..... Out
F53—Size 14½x23½ ins.; 1 dozen in bundle. Dozen 3.60
F54—Size 17½x26 inches; 1 dozen in bundle. Dozen 4.20

STICKER FLAGS

F90 — Size 1x¾ in., well gummed, 1000 in package
M ..... .20

5 M. to 50 M. lots. Per M .15
50 M lots and over. Per M .10

COMPLETE FLAG OUTFITS

Flag, Pole, Rope, Ball and Holder.

JOINTED POLES

Packed in a strong wood box which can be carried under the arm. Poles made with metal joint, strengthening the pole at its weakest point and also adding to its appearance

F66—Flag, 3x5 ft; sewed stripes; clamp dyed field; fast color; 6-ft. jointed pole; complete with holder, ball and rope. Set..... 1.10

F67—Flag, 4x6 ft.; sewed stripes fast color; 8 ft. jointed pole; complete with holder, ball and rope. Set 1.70

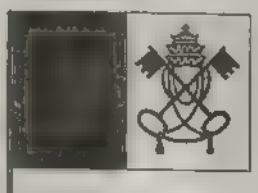
UNION BUNTING FLAGS

Complete with Controllers

This controller prevents flag from blowing over pole; made of extra quality waterproof, braided rope, with lead weight which varies in weight according to the length of flag; each in box.

F83C—4x6 ft. complete with 6 ft National Flag controller. Each 3.10
F83C—5x8 ft. complete with 8 ft controller. Each 4.65
F84C—6x10 ft. complete with 10 ft. controller. Each..... 5.85
F86C—8x15 ft. complete with 15 ft. controller. Each..... 10.25
F87C—10x20 ft. complete with 20 ft. controller. Each..... 15.00

CATHOLIC FLAGS



Printed on best quality muslin in bright colors

F25—Key flag; 18 inch; printed in yellow on white ground. Doz. .85
F26—Papal emblem; 36 in., printed in yellow on white ground. Dozen 3.00

FLAG POLE HOLDERS

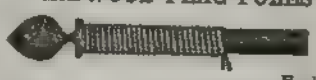
Single

F118—	¾-in. pole.	Each	.10
F119—	1 -in pole.	Each	.18
F120—	1¼-in pole.	Each	.30
F121—	1¾ in pole.	Each	.45

Multiple

	Bore	Capacity	Each
F123—	⅝ inch	3 Flags	.16
F124—	¾ inch	5 Flags	.22

HARDWOOD FLAG POLES

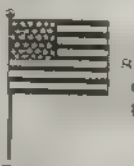


	Each
F100— 6 ft x ¾ in.	.36
F102— 8 ft x ⅞ in.	.45
F103—10 ft x 1¾ in.	.75
F104—12 ft x 1¾ in.	.90

SILK PIN FLAGS

Silk woven; grain bow ribbon in national colors with stars on a blue field; on a large headed brass pin; for coat lapel, tie, etc.; 1 dozen on a card.

F120—1¼ inch. Gross..... .45
F125—1¾ inch. Gross..... .75

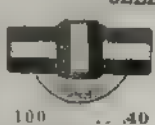


Silk U. S. Flag, mounted on brass pin; 1 gross in box.

F126—Size 1½x2 ins. Gross..1.00
F127—Size 2x3 ins. Gross....1.50

F179—Red, white and blue silk ribbon bow, ⅞x¼ in., on pin; 1 gross in box Gross .40

CELLULOID



F151—Red, white and blue celluloid bow, button back, size ⅝x1 in., 100 in box.
100 ..... .40 1000.....3.50

F141—Navy blue back ground with National flag in bright colors gold outline, pin back, diameter ⅞ in; 100 in pkge
100 ..... .40

F150 — Red, white and blue celluloid button, pin back, ⅝ inch in diameter 100 in package
100 ..... .40

ERASERS

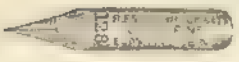
DUSTPROOF ASSORTMENTS

This assortment of one dozen bevel edge erasers contained in a box with a transparent cover, thus forming a dustproof, sanitary silent salesman

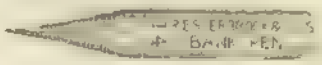
No. 1092. Assortment contains 4 erasers of each of three good sellers in red, green and gray rubber. weight per box one pound ..per box, **$1.00**

Six boxes in a carton

STEEL PENS



No. 128



No. 14

No. 128. Extra fine, elastic, penman's favorite ..... per gross, **$2.00**

No. 14. Bank, a popular business pen.....per gross, **2.00**

No. 314

No. 788

No. 314. Engrossing long nib, medium point, per gross, **$2.00**

No. 788. Oval point, easy glider .....per gross, **2.00**

One gross in a box (average weight per gross 3 ounces

STEEL PEN ASSORTMENTS

A silent salesman box 5x7 inches, with six compartments and glass cover

Assortment contains a half gross of pens in six of the leading styles, namely, Falcon, Quill, Relief, Professional, 5-70 and Oval Point

No. 3P. Assortments, weight per box 3 pounds....each, **$6.50**

One assortment (1-2 gross) in a box

WRITING INK

Midnight Black

Made for school and family use. It flows evenly and smoothly from the pen, writes a rich black color which is permanent. It will not mold or spoil in any climate and does not thicken but keeps fluid without becoming pale or watery

Midnight Black. 2 ounce bottles, weight per dozen 3 pounds ..... per case, **$4.00**

Three dozen in a case

MUCILAGE

Pure Gum

Select gum arabic is used in making this mucilage, which is a very strong adhesive that does not discolor paper. It will not mold or sour in any climate.

Pure Gum. 2 ounce bottles, weight per dozen 5 pounds.....per case, **$5.25**

Three dozen in a case

PHONOGRAPH NEEDLES

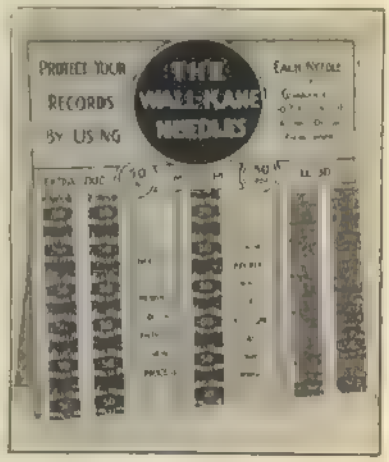
WALL-KANE

The Wall-Kane is the highest grade of steel phonograph needle made in America.

The various processes through which these needles pass in the course of manufacture produce perfect working, non-scratching durable needles

Each needle is guaranteed to play ten records on any phonograph, the tenth playing as clear as the first.

This eliminates the troublesome changing of needles after each record



A handsome metal enameled display stand holding 60 packages; 2 dozen extra loud, 1 dozen medium and 2 dozen loud, each package containing 50 needles.

Wall-Kane Stand. Complete as described each **$9.00**

This display container is handsomely finished in the same color scheme as the boxes. It holds 100 packages of a kind, loud, extra loud or medium, each package contains 50 needles.

Wall-Kane Containers. As described .....each, **$15.00**

HOTZ HARMONICAS

No. 00 Blue Ribbon. Guaranteed perfect in tone, every dozen being uniform in quality. Highly polished, nickel plated covers, brassed plates 10 single holes 20 reeds .per dozen, **$8.50**

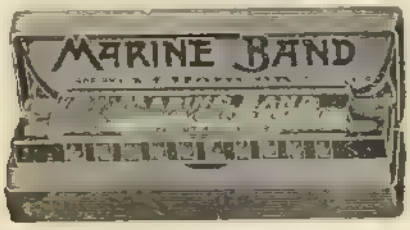
One in a telescope box, one dozen in a package

No. 03 United Service. Unsurpassed in tone and quality, full concert size (4⅝ inches), heavy nickel plated covers, brassed plates, 10 double holes 20 reeds .....per dozen, **$16.00**

HOHNER HARMONICAS

No. 34B The Old Standby. Guaranteed first class in every way, nickel plated covers brass plates, 10 single holes, 20 reeds ..... .per dozen, **$16.00**

No. 50B The Old Favorite. Nickel plated covers, brass plates, 10 double holes, 20 reeds, in construction similar to the concert instruments .....per dozen, **$16.00**



No. 1896 Concert, Marine Band. Heavy convex finely nickel plated covers, brass plates, 10 double holes, 40 reeds full concert .....per dozen **$18.00**

All above, except No. 00, one in a hinged box, one dozen in a package

HOHNER HARMONICAS

NO. 425 HOHNER BOY ASSORTMENT

No. 425 Hohner Boy Assortment. Consists of one dozen genuine Hohner harmonicas in a variety of styles and keys; each assortment is mounted on a beautiful and attractive lithographed cut-out printed in six colors. It stands 31 inches high and pictures a boy pleased with the harmonica in his hand .....each, **$16.80**

One assortment four dozen on a card

STEEL MUSICAL INSTRUMENT STRINGS

VIOLIN

No.		Per Dozen
60	E or first, 1 length silver plated, with knot	$0.40
65	A or second, 1 length silver plated, with knot	.40
70	D or third, 1 length steel wire covered, wire center	1.00
80	G or fourth, 1 length steel wire covered, wire center	1.20
95	Set complete, 4 strings, silver plated..per dozen sets,	4.50

GUITAR

No.		Per Dozen
50	E or first, 1 length silver plated wire	$0.48
51	B or second, 1 length silver plated wire	.48
52	G or third, 1 length silver plated wire	.48
88D	D or fourth, 1 length wound on steel wire	1.60
88A	A or fifth, 1 length wound on steel wire	2.00
88E	E or sixth, 1 length wound on steel wire	2.80
98	Set complete, 6 strings, silver plated, ...per dozen sets,	10.80

BANJO

No.		Per Dozen
1½	First, 1 length silver plated wire	$0.48
2½	Second, 1 length silver plated wire	.48
3½	Third, 1 length silver plated wire	.48
4½	Fourth, 1 length silver plated wire	1.00
5½	Fifth, 1 length silver plated wire	.48
112	Set complete, 6 strings.....per dozen sets,	6.00

MANDOLIN

No.		Per Dozen
101	E or first, 1 length silver plated wire	$0.48
103	A or second, 1 length silver plated wire	.48
105	D or third, covered silver plated wire	1.80
107	G or fourth, covered silver plated wire	1.20
47	Set complete, 8 strings .....per dozen sets,	7.00

One gross in a package

ROSETTES

ROSETTE ASSORTMENTS

Contains six pairs; Two pairs Each 1¾, 2 and 2½ in.; Assorted Colors Glass Bull Eye Centers.

	Per Card
No. 4357B —Nickel	$2 88
No. 4357B4—Brass	2 88

Contain Six Pairs, Size 1¾ in. Assorted Colors Glass Bull Eye Centers.

	Per Card
No. 4357C —Nickel	$2.40
No. 4357C4—Brass	2.40

Weight 1 Lb Card

Note—We Do Not Break Cards

PEERLESS
Bevel Back

Size, In.	1¾	2	2¼
Wt Gro, Lbs	8	10	13½

No. 4357D—Nickel on Brass

Per Gross	$15 60	19.68	27.80

No. 4357D4—Solid Brass

Per Gross	$13.92	17 52	24 72

HARVESTER
Flat Back

Size, In	1¾
Weight Gross, Lbs	7

No. 4357E—Nickel on Brass

Per Gross	$14 56

No. 4357E4—Solid Brass

Per Gross	$12.96

SECURITY
Flat Back

Size, In	1¾
Weight Gross, Lbs	7

No. 4357F—Nickel on Brass

Per Gross	$14.56

No. 4357F4—Solid Brass

Per Gross	$12.96

ROSETTES

PEARL EDGE
Flat Back; Diam. 1¾ in.

	Per Gross
No. 4357H2—XC Plate	$ 8.64
No. 4357H3—Nickel Plate	10.56
No. 4357H5—Brass Plate	10.56

STAR
Wire Back; Diam. 1¾ in.

	Per Gross
No. 4357K—XC Plate	$5.40

One Gross in Box
Weight 3¼ Lbs. Gross

METAL LETTERS

BLOCK

Size, In	1	1¼	1½	2
Doz., Lbs	⅛	⅛	½	⅞

No. 4357K3—Nickel on Brass

Per Dozen	$2.70	3.48	4.80 7.20

No. 4357K5—Solid Brass

Per Dozen	$2.55	3.30	3.84 6.00

Open Stock

BUCKLE SHIELDS

HEART CENTER
Flexible

Size, In	1	1½
Wt. Gross, Lbs.	5½	6½

No. 4357M—Nickel on Brass

Per Gross	$15.96	18.48

No. 4357M4—Solid Brass

Per Gross	$14.40	16.80

Half Gross in Box

SPOT CENTER
Flexible

Size, In	⅞	1	1⅛	1¼
Wt. Gro., Lbs.	4½	5½	6½	8

No. 4357P—Nickel on Brass

Per Gross	$13.44	15.96	18.48	21.84

No. 4357P4—Solid Brass

Per Gross	$12.18	14.40	16.80	19.80

Half Gross in Box

HARNESS ORNAMENTS

STAR AND SHIELD
Solid Lead Filled; With Brass Wire Fastener

Size, In	1½	2	2½
Wt Gross, Lbs	3½	5	9

No. 4357R—Nickel on Brass

Per Dozen	$2.80	3.24	3.84

No. 4357R4—Solid Brass

Per Dozen	$2.40	3.00	3.60

One Sixth Gross in Box

HEART
For Face Drop; With Rivets, Diam. 1¾ in.

	Per Dozen
No. 4357V —Nickel on Composition	$1.12
No. 4357V4—Solid Brass	1.00

Three Dozen in Box
Weight 1⅝ Lbs. Dozen

BRIDLE PLUMES

DROOPING
Red Hair; Wavy Plume; XC Base; Corrugated Rosette

No.	4357X
Length, In	15
Wt Doz Pairs, Lbs	4
Per Pair	$1 32

One Pair in Wrapper

BRIDLE ROSETTES

FANCY
Red Hair; Corrugated XC Finish Base; Wavy Hair

No.	4357X2
Length, In	3
Wt. Doz. Pairs, Lbs	3½
Per Pair	$0.68

One Pair in Wrapper

BRIDLE TASSELS

No. 4357X4—TASSELS
Wavy Red Hair; Nickel Plated Ferrule; Wire Loop

Length, In	8	10	12	15	48
Doz. Pr., Lbs.	2	3	3¼	4	5
Per Pair	$0.48	.68	.84	.96	1.16

One Pair in Wrapper

TAIL HOLDER

Will not injure the tail; Can be instantly put on; Cannot work loose, or slip off; Lined with Best Corrugated Rubber; Made of Special Oil Tempered Spring Steel, Heavy Nickel or Brass Plated over Heavy Copper Plate; Width 1⅝ in., Length Over-all 16 in.

	Per Dozen
No. 4357Y —Nickeled	$5.80
No. 4357Y4—Brass Plated	6 00

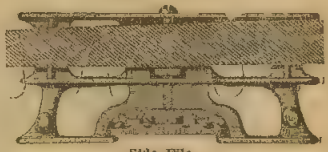
On Attractive Display Cards, One Dozen in Box
Weight 1¾ Lbs per Dozen.

LUMBERING TOOLS

Setting Block

Jointer

Raker Tooth Gauge



Side File

Set Gauge

SAW TOOLS

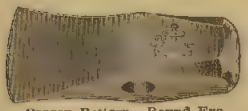
Stern's

Highest grade tool steel; combined jointer, tooth gauge, setting block, set gauge and side file; for cross cut saws; light and convenient to carry.

NO	Wgt Doz Sets	DOZEN
14	16 lb.	$13 50

ONE SET IN A BOX

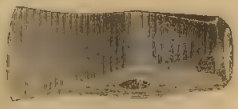
WOOD CHOPPERS' MAULS



Oregon Pattern—Round Eye

Solid forged steel, oil finish, hardened and polished face.

NO	Wgt. Each	POUND
2130-6	6 lb.	$0.45
2130-7	7 lb.	.45
2130-8	8 lb.	.45

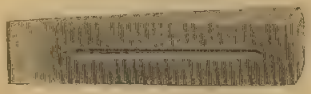


Oregon Pattern—Axe Eye

Solid tool steel, oil finish, hardened and polished face.

NO	Wgt Each	POUND
2131-6	6 lb.	$0 45
2131-7	7 lb	45
2131-8	8 lb.	45

WOOD CHOPPERS' WEDGES

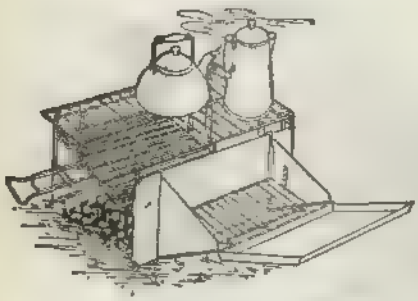


Truckee Pattern

Forged steel, oil finish, hardened head and bit.

NO.	Wgt. Each	POUND
1500-4	4 lb.	$0.40
1500-5	5 lb.	.40
1500-6	6 lb.	.40
1500-7	7 lb	.40
1500-8	8 lb.	.40

NUGGET FOLDING CAMP STOVES

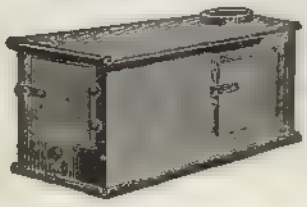


Size 13x21½ in. Frame and all bars made of selected heavy steel wire. Wind shields made from best polished steel sheets. All cross bars reinforced with a bar which is attached at right angle. All joints are securely welded together. Legs extend below sides and are sharpened so that they can easily be shoved into the ground to hold the stove in position. Has detachable oven made of polished steel sheets.

No. 4—Size 13x21½ in., outfit complete consisting of camp stove, broiler and toaster, detachable oven, extension handle, frying pan 10x2 in., and canvas kit bag, size stove folded 23x13x4 in. .....each $8.50

ONE IN A CRATE, W'T 12 LBS.

OUTING STOVES



No. T50G—Outing, sheet steel, folding, with hinged doors, sliding circular joints, size 26x10x11½ in., oven 8x10x6 in., takes 5 in. pipe, w't 12½ lbs. .....each $9.20

ONE IN SHIPPING CASE

FOLDING CAMP STOVE

AMERICAN

Open, Ready for Use

To operate, remove cover, place the tank in position and the stove is ready to light. No loose parts to become lost. Nothing to screw together or assemble. No alcohol or torch required to light it. It produces an intensely hot flame when burning at full capacity, although the burners can be regulated to a low fire if desired. It is only necessary to generate one burner, this produces the gas for the second burner which may be turned on or off at will.

No. T3—"Kamp-Kook," two burner enclosed in a neat black enameled steel case with handle. Size of stove folded 14½ in. long, 8 in. wide, 8½ in. high. Burns gasoline, w't 8 lbs., each $10.00

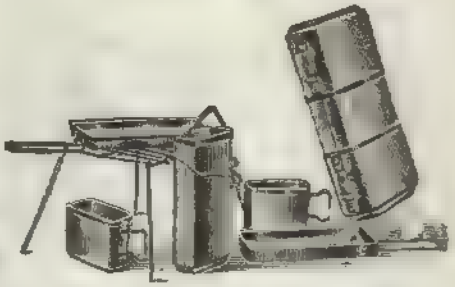
CAMP GRATES

No. 100C, standing or folding broiler.

No. 129—One piece, 9x14 in., w't per doz. 18 lbs. .....per dozen $15.00

No. 130—Double, 14x18 in., w't per doz. 36 lbs. .....per dozen $21.50

POCKET KOOK-KITS



Can be easily put together and taken apart. The two pans are designed for use as separate frying pans or roasting pans, by simply placing both bottoms together, one on top of other. The rims are seamed to form close fitting vessels. Will fit any coat pocket.

No. 2R—Consists of two 9x4x1 in. pans, two 4½x2½x3 in. drinking cups, one 4½x2½x8½ in. coffee, soup and water boilers, all made of heavy tin with detachable heavy wire handles, a collapsible fire grate 7x8 in. with four heavy wire legs, 7½ in. long, all parts on grate electric welded, w't 2 lbs. .....per dozen $56.00

TWO DOZEN IN A CARTON

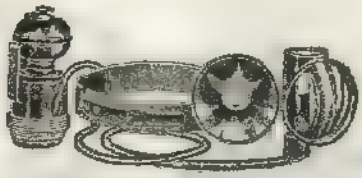
UPTON'S SCOUT MESS KITS

The grid is a folding rack with legs that thrust into the ground, detachable handles with all utensils.

Used by men, boy scouts, hikers and fishermen.

No. 1R—Size packed 8x4½x2½ in., consists of 1 cup, 1 frying pan, a kettle for making coffee and stewing, one nickel plated galvanized wire grid, w't 1½ lbs., complete in a khaki case with strap for carrying from shoulder .....per dozen $40.00

ACETYLENE HUNTING LAMPS



BRILLIANT SEARCH LIGHT, 6×2½ in generator, convex glass, 4 in. in diam., style 2 adjustable candle flame burner, hinged front door to shut off light, 3 ft. of ¼ in. rubber tubing, leather head strap, w't complete 2 lbs.

This lamp develops 150 candle power, with candle flame burner, single lens type, in double lens 200 candle power.

No. 2S—Single lens, per dozen $142.80

No. 2SD—Double lens, with heavy magnifying 2½ in. bull's eye lens, per dozen $159.60

ONE IN A BOX

JUSTRITE, brass, heavily nickel plated, 18 candle power, with lighting attachment, folding handles.

Carbide can included with lamp.

Also used for camping, hunting, fishing and boating.

No. 95—3 in. reflector burns **4 hours,** w't per doz. 8 lbs., per dozen $36.00

No. 100—2½ in., reflector, burns **3 hours,** w't per doz. 9 lbs., per dozen $27.00

Suitable for mine superintendents, inspectors, mining engineers, watchmen, campers and automobilists. Will not blow out.

No. 10A — Justrite, brass nickel plated, 20 candle power, bulls eye lens, automatic generator, controls gas, flame controlled by valve, burns 5 to 6 hours with 3 oz. of carbide, w't per doz. 36 lbs. ...per dozen $96.00

REV-O-NOC GASOLINE OUTDOOR TORCHES

The gasoline feed pipe runs through the tank and is securely fastended on top to the hinge. In use the entire torch is supported by hinge and pipe, with no strain on tank.

Made for rough usage. Strong winds will not extinguish the flame.

Japanned iron tank, four quart capacity, malleable iron safety hanger.

SINGLE BURNER

No. T0—Full one dozen box, w't per doz. 60 lbs. .....per dozen $46.00

No. 0—Less than one dozen, w't per doz. 60 lbs. .....per dozen $46.00

DOUBLE BURNER

No. 2—W't per doz. 65 lbs., per dozen $66.00

No. 7—Extra burners, for Nos. 0 and 2 .....per dozen $22.70

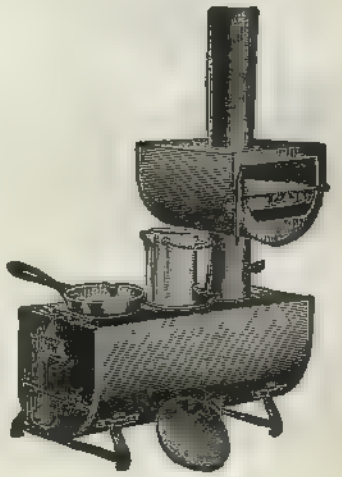
ONE DOZEN TORCHES IN A BOX

Our Very Best is the Very Best.

H.S.B.&CO.
REV-O-NOC

We Stand Behind the Brand.

KLONDYKE KAMP KOOKER



Built for hard service as well as convenience, front end of stove is a tight rimmed cover that can be removed leaving the opening in shell full sized for packing oven, grub box and camp outfit, takes wood 28 in long, legs so attached they will bear any weight liable to be put upon them, will stand on soft dirt or sand without sinking.

The oven makes a convenient place to keep the grub and coffee warm, as well as being a perfect baker.

No. F151G—Klondike Kooker, 22 gauge smooth steel, back well riveted to body, front reinforced by heavy band iron rim, 14×30 in., 5 in. pipe collar, w't 20 lbs., each stove with five joints of 14 inch collapsible pipe, not including oven and grub box★ .....each $13.90

No. F152G—Oven, 22 gauge smooth steel, curved on lower side and flat on top, 13×15×9½ in. outside, 11×15×6 in., inside, takes 10×14 in. bake pan, w't 9 lbs. oven with 10×14 bake pan, each★ $9.40

No. F153G—Grub box, 26 gauge galvanized iron, dust-proof, will hold an entire cooking outfit for four people, 12×13×9½ in., tight rimmed cover, w't 5½ lbs., each★ $4.90

★ Items Marked Thus ★ Are Shipped From Factory Only.

X-RAY REFLECTORS

SCOOP

For 75 watt Mazda Type "C" gas-filled lamp.

The SCOOP is a scientifically correct reflector, designed for use with the 75 watt Mazda "C" lamp. It is designed for small show windows, particularly those whose height is equal to the depth.

The reflector is small in size, requires little head-room and makes a very neat appearance. If very bright illumination is desired, install reflectors on 12-inch centers. For average conditions, reflectors on 18 to 24-inch centers give good results.

Install in windows 8 or 10 ft. high and 6 or 8 ft. deep.

No. 778E—Width 7 1/16 in., depth from front to back 6 1/16 in., height including neck 6 9/16 in., holder 2 1/2 in., form "O" each, reflector only *$4.00*

TWENTY-FOUR IN A STANDARD PACKAGE. WT 30 LBS.

POKE BONNET

For 25, 40, 50 and 60 watt Mazda Type "B" lamps.

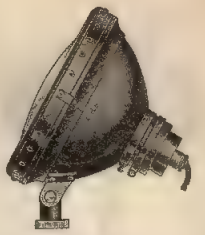
Install for low deep windows. A 6 in. window drape, moulding or sign will hide it.

No. 750E—Depth 7 3/8 in., length 14 in., complete with adjustable fork, 18 inches of re-inforced cord, plug, twin sockets and reflector, no lamps, each *$12.00*

X-RAY REFLECTORS

Prices on Application

FLOOD LIGHT



For use with the 200 or 250 watt G-30 Mazda "C" flood lighting lamp.

Projector being small is particularly adapted for use on the sides of buildings, brackets, and other places difficult of access.

It has been widely and successfully used for protection lighting and for facilitating night operations in large spaces, both inside and outside.

The unit is weather-proof, perfectly ventilated, and not affected by heat, cold, rain, snow or ice.

No. P51XE—Finish gray, diam. 11 1/2 in., depth over all 9 3/4 in., swivel and tilting base supplied with unit for bolting to supporting surface, size of base 2×4 in., with two 1/2 in. holes 2 1/2 in. on centers, **without lamp,** each *$30.00*

ONE IN A STANDARD PACKAGE WEIGHT 10 LBS.

STREET LAMP FIXTURES

YARD LIGHTING UNIT

No. 1215E—Consists of a 12-inch non-discoloring white porcelain enameled steel reflector, copper cased weather-proof socket, and 30×1/2 in. gooseneck with heavy cast wall fitting. Reflector is green outside; bracket and wall fitting is galvanized, 60 watt lamp is recommended, w't packed approx. 5 lbs. .....each *$6.40*

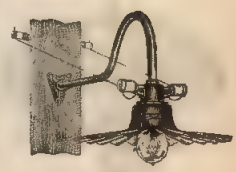
LOOSE

STREET LAMP FIXTURES

WATERPROOF UNIT

No. P505E—Furnished with 10 1/8 inch non-discoloring white porcelain enameled steel reflector, and 6 3/8×5 3/4 inch opal glass globe. It is tapped for 1/2 iron pipe stem. Finish black enamel. 200 watt nitrogen size of lamp recommended, w't packed approx. 10 lbs. .....each *$13.50*

LOOSE



STREET UNIT

No. P1207E—18 inch radial wave non-discoloring white porcelain enameled steel reflector, and 40×2 1/2 inch gooseneck with heavy cast wall fitting. Furnished with cast iron top and cross-arm with porcelain knobs for open wiring. Reflector is black outside; galvanized fittings. 300, 400 and 500 watt nitrogen size of lamp recommended, w't packed approx. 20 lbs. .....each *$18.80*

LOOSE

TABLE LAMPS

LIBRARY

No. P6035E—2-light pull chain, 8 in. cast base, 19 in. shade in overlay, 8 upper and 8 lower panels, upper portion in amber, lower portion in green glass, height 25 in., finish gold and green with 6 ft. of cord and plug, w't boxed approximately 60 lbs. .....each $32.50

ONE IN A BOX

No. P6015—2-light pull chain, 8 in. cast base, 18 in. shade in overlay conventional design, 8 panels in amber glass, height 24 in., finish brown and gold with 6 ft. of cord and plug, w't boxed approximately 60 lbs. .....each $28.70

ONE IN A BOX

LIBRARY

No. P6020E—2-light pull chain socket, 7½ in. cast base, 18 in. shade in overlay urn design, 8 panels in sunset glass, height 24 in., finish gold and green with 6 ft. of cord and plug, w't approximately 55 lbs., each $27.50

ONE IN A BOX

No. P6038E—2-light pull chain, 8 in. cast base, 18 in. shade in overlay rose basket design, 6 panels in amber or ambergreen glass, height 24 in., finish gold and green or brown and green with 6 ft. of cord and plug, w't boxed approximately 50 lbs. .....each $31.50

ONE IN A BOX

LIBRARY

No. P6037E—2-light pull chain, 8 in. cast base, 18 in. shade in overlay drape design, 8 panels in ambergreen, height 24 in., finish antique gold with 6 ft. of cord and plug, w't approximately 55 lbs., each $34.50

ONE IN A BOX

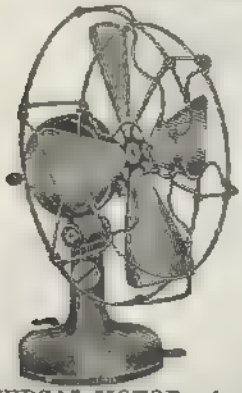
No. P709E—1-light key socket, 6¼ in. cast base, 14 in. shade in overlay, 4 panels in green glass, height 17 in., finish antique brass with 6 ft. of cord and plug, w't approximately 35 lbs. .....each $15.40

ONE IN A BOX

DESK AND BRACKET FANS

Prices on Application

"K & D" DESK AND BRACKET



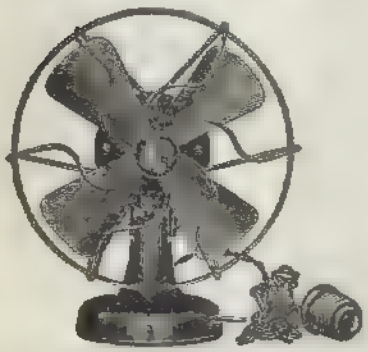
UNIVERSAL MOTOR, gives a very strong breeze, adjustable to any position on desk or wall.

8 inch diameter, three speeds, phosphor bronze motor bearings, enameled base and standard nickel guard and blades, complete with 6-foot cord and plug, w't each 5 lbs.

No. E400E—For direct **current** 110 **volt or alternating** current 110 volts, 60 cycle .....each $18.00

ONE IN A CARTON

"POLAR CUB," DESK AND BRACKET



UNIVERSAL MOTOR, for direct current 110 volt or alternating current 110 volt, 60 cycle, one speed, no switch, die cast frame, spot welded guard, adjustable to any angle, motor black enameled, mica filled commutator rustproof, brass blades, base finished in rich velvet black, equipped with 8 ft. cord and plug.

Made only for 110 volt circuit.

No. 450E—Model "D", 6 in. diam., 8 in. to top of guard, 6 in. to top of motor, w't each 3 lbs., each $9.40

ONE IN A CARTON
ONE DOZEN IN A CASE

No. 460E—Model "9," 9 in. diam., 10½ in. to top of guard, 7½ in. to top of motor, w't each 5 lbs., each $12.50

ONE IN A CARTON· SIX IN A CASE

Finish—The brass blades are highly polished and lacquered. Base and other parts baked on black enamel.

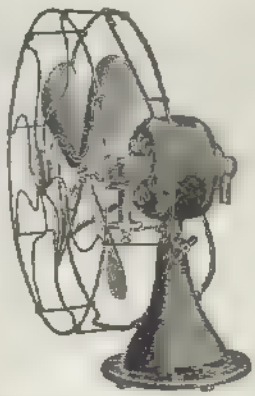
Construction—Cast enclosing shells and base, can be adjusted to any angle desired, either for a bracket or desk fan. The construction is simple and the field of service large. Large air velocity with minimum current consumption.

Speeds—Has four point switch for three speeds, namely, slow, medium and fast, ranging from 900 to 1500 revolutions per minute.

Equipment——8 ft. cord and attachmment plug included.

"PEERLESS," DESK AND BRACKET

OSCILLATING.



PEERLESS oscillating fans can be used either as a desk or bracket fan without the use of an adaptor.

They are designed to move from side to side through a desired angle, thus distributing the air over a larger area than with a stationary fan.

DIRECT CURRENT

110 Volt.

No. E1212E—12 in. diam., 3 speeds, 960, 1460 and 1860, w't boxed 40 lbs., each $57.50

No. E1216E—16 in. diam., 3 speeds 800, 1100 and 1400, w't boxed 60 lbs., each $66.00

ALTERNATING CURRENT

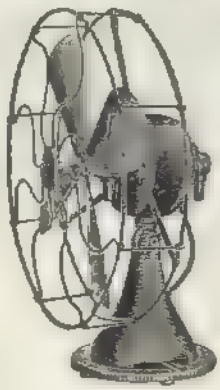
110 Volt, 60 Cycle.

No. E4112E—12 in. diam., 3 speeds, 900, 1400 and 1600, w't boxed 40 lbs., each $57.50

No. E4116E—16 in. diam., 3 speeds, 900, 1375 and 1550, w't boxed 50 lbs., each $66.00

"PEERLESS," DESK AND BRACKET

SWIVEL AND TRUNNION TYPE.



DIRECT CURRENT

10 Volt.

No. E112E—12 in. diam., 3 speeds 900, 1400 and 1800, w't boxed 27 lbs., each $44.00

No. E116E—16 in. diam., 3 speeds. 850, 1150 and 1500, w't boxed 35 lbs., each $51.50

ALTERNATING CURRENT

110 Volts, 60 Cycle.

No. E1112E—12 in. diam., 3 speeds, 900, 1200 and 1600, w't boxed 30 lbs., each $44.00

No. E1116E—16 in. diam., 3 speeds, 900, 1400 and 1550, w't boxed 38 lbs., each $51.50

Prices furnished on application for 25 cycle fans.

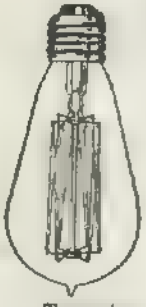
Factory Shipments, 220 Volt Fans can be shipped from Warren, Ohio, factory. Prices on application. Voltage desired must be specified in ordering, and if for alternating current, the number of cycles.

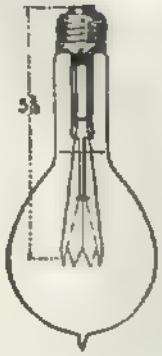
Prices on Application

INCANDESCENT ELECTRIC LAMPS

Carbon

"Hylo"


Tungsten, Regular



Nitrogen.

Millite.

NOTE—All lamps (watts) listed in a given bracket can be furnished in any of the voltages shown in the corresponding bracket. IN ORDERING SPECIFY EXACT VOLTAGE WANTED.

No. 105E— CARBON

Voltage	Watts	Efficiency, W. P. C.	Std. Pkg	Clear Each
110	10	4.15	250	$0.22
	30	3.23	250	.22
	60	2.97	250	.22
220	60	3.69	250	.25

No. 107E— HYLO—MAZDA—PULL STRING

Voltage.	Watts.	Approx C.P.	Std. Pkg.	Clear Each.
110	25	20	100	$1.00
	40	32	100	1.00

No. 108E— TUNGSTEN FOR INDIVIDUAL LIGHTING PLANTS

Voltage	Watts.	Nos. Style Bulb	Diam., Length, Bulb, in. Overall.	Stand. Pkg.	Clear Each
32	15	S17	2¼ 4⅝	100	$0.40
	25	S19	2¼ 4½	100	.40
	40	S19	2¼ 4⅝	100	.40
	50	S19	2⅜ 5¼	100	.40

No. 116E— NITROGEN FOR INDIVIDUAL LIGHTING PLANT

Voltage	Watts.	Style Bulb.	in. Overall.	Stand. Pkg.	Clear Each.
32	15	PS18	5¼	100	.65
	25	PS20	5¼	100	$0.65
	50	PS20	5¼	50	.65
	75	PS22	6¼	50	.75
	100	PS25	7¼	24	1.10

MILLITE LAMPS

Concentrated Filament (Tugsten) Shock Proof Factory Mill Type.

No. 119E

Voltage	Watts	Diam. Bulb	Style Bulb	Length In. Overall	Std. Pkg.	Clear Each
110	25	2⅜	P19	5¼	100	$0.45
	50	2⅜	P19	5¼	100	.45
	60	2⅜	P19	5⅜	100	.55

No. 109E—TUNGSTEN

Tungsten—Regular and Nitrogen Types.
Medium Screw Base—except where otherwise indicated

Voltage.	Watts.	Style Bulb.	Diam., Length, Bulb, in. Overall.	Stand. Pkg.	Clear Each.
110 and 115	10	S17	2¼ 4⅝	100	$0.40
	15	S17	2¼ 4⅝	100	.40
	25	S19	2⅜ 5¼	100	.40
	40	S19	2⅜ 5¼	100	.40
	50	S19	2⅜ 5¼	100	.40
	60	S21	2⅝ 5¼	100	.45
	100	S30	3¾ 7⅛	24	1.00

Voltage.	Watts.	Style Bulb.	Diam., Length, Bulb, in. Overall.	Stand. Pkg.	Nos. 109E Clear Each.	F112E Clear Each.
220	25	S19	2⅜ 5¼	100	$0.45	$0.50★
	50	S19	2⅜ 5¼	100	.45	.50★
	100	S30	3¾ 7⅛	24	1.15	1.25★

No. 110E—NITROGEN

Voltage	Watts	Style Bulb	Diam, Bulb, in.	Lgth., in. Overall	Stand. Pkg.	Clear Each
110 and 115	50	PS20	2⅜	5¼	50	$0.65
	75	PS22	2¾	6⅛	50	.70
	100	PS25	3⅜	7⅛	24	1.00
	150	PS25	3⅜	7⅛	24	1.40
	200	PS30	3¾	8⅜	24	1.90
	300†	PS35	4⅝	9¾	24	2.80

Voltage	Watts	Style Bulb	Diam, Bulb, in.	Lgth., in. Overall	Stand. Pkg.	No. F110E Clear Each
110 and 115	500†	PS40	5	10	12	$4.15★
	750†	PS52	6½	13⅜	8	5.75★
	1000†	PS52	6½	13⅜	8	6.70★

No. 118E—DAYLIGHT NITROGEN

Voltage	Watts.	Bulb. Style	Overall. in.	Pkg. Stand.	Each. Clear
110 and 115	75	PS22	6¼	50	$0.80
	100	PS25	7⅛	24	1.15
	150	PS25	7⅛	24	1.65
	200	PS30	8⅜	24	2.20

†Fitted with "Mogul" Screw Base.

★ Items Marked Thus ★ Are Shipped From Factory Only.

"ADMIRAL" GOLD HAIR LINE BANDED SEMI-PORCELAIN (OPEN STOCK)

Pope-Gosser "Pope-Gosser" trademarked [illegible] gold band, gold hairline scheme selection, [illegible] No Package Charge.

"CAPITOL" WHITE & GOLD SEMI-PORCELAIN (OPEN STOCK)

Homer Laughlin Tradem[illegible] Light [illegible] new attractive shapes, [illegible] in gold band edges, gold ornaments and handles. An exceptionally popular shape. No Package Charge.

E17795—32 pc. set
6 teas (12 pcs.)
6 plates, each 4 & 7 in.
6 fruits, 4 in.
1 [illegible]
1 [illegible]
1 [illegible]
SET (32 pcs.) **$3.40**

E17796—50 pc. set.
6 teas (12 pcs.)
6 [illegible] 4 & 7 in.
6 [illegible]
1 [illegible]
1 [illegible]
1 covered dish (3 pcs.),
1 [illegible] platter,
6 fruits, 4 in.
1 covered sugar 30's
1 cream pitcher 30's.
Each set about 48 lbs.
SET (50 pcs.) **$6.85**

E17793—100 pc. set
12 teas (24 pcs.)
12 plates, each 7 in.
1 [illegible] soup platter,
1 baker, 7 in.
platters, 9 and 12 in
fruits, 4 in.
1 sugar & creamer (3 pcs.),
1 butter (3 pcs.),
1 casserole (3 pcs.),
1 dish, 7 in. (2 pcs.),
1 cream boat (3 pcs.),
Each set about 90 lbs.
SET (100 pcs.) **$14.15**

E17790—42 pc. set. As 32 pc. set with 5 plates 9 in., bowl cereal [illegible]
[illegible]
[illegible]
SET (42 pcs.) **$4.90**

E11896—32 pc. set.
6 teas (12 pcs.),
6 plates, 6 each 4 & 7 in.
6 fruits, 4 in.
1 platter, 8 in
1 baker, 7 in.
Each set about 30 lbs.
SET (32 pcs.) **$3.60**

E11896—42 pc. set. As 32 pc. set, 6 plates, 9 in. bowl, cereal, sugar (5 pcs.) and creamer
Each set about 40 lbs.
SET (42 pcs.) **$5.25**

E11896—50 pc. set.
6 teas (12 pcs.),
15 plates, 6 each 4 & 7 in.
6 coupe soups,
1 baker, 7 in.
1 platter,
1 covered dish (3 pcs.),
1 [illegible] platter,
6 fruits, 4 in.
1 covered sugar, 30's
1 cream pitcher, 30's.
Each set about 48 lbs.
SET (50 pcs.) **$7.40**

E11893—100 pc. set
12 teas (24 pcs.)
36 plates, 6 each 4, 7 and 9 in.
12 coupe soup plates,
2 bakers, 7 in.
1 platter,
1 [illegible] platter,
1 [illegible]
1 sugar & creamer, (3 pcs.)
1 butter (3 pcs.),
1 casserole (3 pcs.),
1 dish, 7 in. (2 pcs.),
1 pickle dish,
Each set about 90 lbs.
SET (100 pcs.) **$15.10**

Cups & Saucers— Doz.
F17700—Tea 2½x3, saucer 5½, [illegible] **$2.25**

Plates— Doz.
F17713—4 in. set, 1 [illegible] **$1.00**
F17715—6 in. [illegible] **1.75**
F17717—7 in. [illegible] **2.50**
F17719—8 in. [illegible] **3.00**
F17721—9 in. [illegible] **4.75**
F17723—10 in. [illegible] **7.75**

Bakers— Doz.
F17724—7 in., height 2½ [illegible] **$3.00**

Bowls— Doz.
F17727—5 in. [illegible] **$2.50**

Platters— Doz.
F17763—8 in., length 10¼ [illegible] **$2.25**
F17765—11 in. [illegible] **5.65**
F17767—13 in. [illegible] **9.50**

Vegetables or Salads— Doz.
F17768—8 in. [illegible] **$3.00**
Fruits— Doz.
F17769—5 in. [illegible] **1.75**

Casseroles— Doz.
F17770—8 in. [illegible] **$4.35**

Sauce Boats—Without stand. Doz.
F17771—[illegible] **$4.00**

Pickle Dishes— Doz.
F17780—8½x5 in. [illegible] **$3.00**

Bowls— Doz.
F17777—8½ in. [illegible] **$6.00**

Cov'd. Butter—Drainer.
F17778—7½ in. [illegible] **$9.00**

Cov'd Dish
F17776—7 in. [illegible] **$12.00**

Casserole
[illegible] in. [illegible] **$12.00**

Soup Bowls—Without stand. Doz.
[illegible] **$4.00**

Pickle Dishes— Doz.
F17783—8½x5 in. [illegible] **$3.00**

Cups and Saucers— Doz.
F17800—Tea 2½x3, saucer 5½, [illegible] **$2.25**

Plates— Doz.
F17813—4 in. set, 1 [illegible] **$1.00**
F17815—6 in. [illegible] **1.75**
F17817—7 in. [illegible] **2.50**
F17819—8 in. [illegible] **3.00**
F17821—9 in. [illegible] **4.75**
F17823—10 in. [illegible] **7.75**

Bakers— Doz.
F17824—7 in., height 2½ [illegible] **$3.00**

Creamers— Doz.
F17827—3 in. [illegible] **$2.50**

Bowls— Doz.
F17829—5 in. [illegible] **$2.50**

Platters— Doz.
F17863—8 in., length 10¼ [illegible] **$2.25**
F17865—11 in. [illegible] **5.65**
F17867—13 in. [illegible] **9.50**

Vegetables or Salads— Doz.
F17868—8 in. [illegible] **$3.00**
Fruits— Doz.
F17869—5 in. [illegible] **1.75**

Casseroles— Doz.
F17870—8 in. [illegible] **$4.35**

Sauce Boats—Without stand. Doz.
F17871—[illegible] **$4.00**

Pickle Dishes— Doz.
F17880—8½x5 in. [illegible] **$3.00**

Cups and Saucers— Doz.
F17900—Tea 2½x3, saucer 5½, [illegible] **$2.25**

Plates— Doz.
F17913—4 in. set, 1 [illegible] **$1.00**
F17915—6 in. [illegible] **1.75**
F17917—7 in. [illegible] **2.50**
F17919—8 in. [illegible] **3.00**
F17921—9 in. [illegible] **4.75**
F17923—10 in. [illegible] **7.75**

Bakers— Doz.
F17924—7 in., height 2½ [illegible] **$3.00**

Creamers— Doz.
F17927—3 in. [illegible] **$2.50**

Bowls— Doz.
F17929—5 in. [illegible] **$2.50**

Platters— Doz.
F17963—8 in., length 10¼ [illegible] **$2.25**
F17965—11 in. [illegible] **5.65**
F17967—13 in. [illegible] **9.50**

Vegetables or Salads— Doz.
F17968—8 in. [illegible] **$3.00**
Fruits— Doz.
F17969—5 in. [illegible] **1.75**

Casseroles— Doz.
F17970—8 in. [illegible] **$4.35**

Sauce Boats—Without stand. Doz.
F17971—[illegible] **$4.00**

Pickle Dishes— Doz.
F17980—8½x5 in. [illegible] **$3.00**

Bowls— Doz.
F17977—8½ in. [illegible] **$6.00**

Cov'd. Butter—Drainer.
F17978—7½ in. [illegible] **$9.00**

Cov'd Dish
F17976—7 in. [illegible] **$12.00**

Casserole
[illegible] in. [illegible] **$12.00**

Soup Bowls—Without stand. Doz.
[illegible] **$4.00**

Pickle Dishes— Doz.
F17983—8½x5 in. [illegible] **$3.00**

Cups and Saucers— Doz.
F18000—Tea 2½x3, saucer 5½, [illegible] **$2.25**

Plates— Doz.
F18013—4 in. set, 1 [illegible] **$1.00**
F18015—6 in. [illegible] **1.75**
F18017—7 in. [illegible] **2.50**
F18019—8 in. [illegible] **3.00**
F18021—9 in. [illegible] **4.75**
F18023—10 in. [illegible] **7.75**

Bakers— Doz.
F18024—7 in., height 2½ [illegible] **$3.00**

Creamers— Doz.
F18027—3 in. [illegible] **$2.50**

Bowls— Doz.
F18029—5 in. [illegible] **$2.50**

Platters— Doz.
F18063—8 in., length 10¼ [illegible] **$2.25**
F18065—11 in. [illegible] **5.65**
F18067—13 in. [illegible] **9.50**

Vegetables or Salads— Doz.
F18068—8 in. [illegible] **$3.00**
Fruits— Doz.
F18069—5 in. [illegible] **1.75**

Casseroles— Doz.
F18070—8 in. [illegible] **$4.35**

Sauce Boats—Without stand. Doz.
F18071—[illegible] **$4.00**

Pickle Dishes— Doz.
F18080—8½x5 in. [illegible] **$3.00**

Bowls— Doz.
F18077—8½ in. [illegible] **$6.00**

Cov'd. Butter—Drainer.
F18078—7½ in. [illegible] **$9.00**

Cov'd Dish
F18076—7 in. [illegible] **$12.00**

Casserole
[illegible] in. [illegible] **$12.00**

Soup Bowls—Without stand. Doz.
[illegible] **$4.00**

Pickle Dishes— Doz.
F18083—8½x5 in. [illegible] **$3.00**

"NEW LOUVRE" FANCY PURE WHITE NEAR CHINA (OPEN STOCK)

Pope-Gosser Trademarked. Light wt. pure white near china, clear glass, fancy [illegible] No Package Charge.

NEW "BLUE BIRD" SPRAY DECORATED SEMI-PORCELAIN (OPEN STOCK)

Lightwt. semi-porcelain. Pure white, new fancy shape, delicately tinted [illegible]

E11195—32 pc. set.
6 teas (12 pcs.)
6 plates, 6 each 4 & 7 in.
6 fruits, 4 in.
1 [illegible]
1 [illegible]
1 [illegible]
SET (32 pcs.) **$3.65**

E11190—42 pc. set. As 32 pc. including 6 plates, 9 in. bowl cereal, sugar (5 pcs.) and creamer
Each set about 40 lbs.
SET (42 pcs.) **$5.50**

E11196—50 pc. set.
15 plates, 6 each 4, 6 & 7 in.
6 coupe soups,
1 baker, 7 in.
1 [illegible]
1 covered dish (3 pcs.),
1 [illegible]
6 fruits, 4 in.
1 covered sugar 30's.
1 cream pitcher 30's.
Each set about 48 lbs.
SET (50 pcs.) **$7.70**

E11193—100 pc. set.
12 teas (24 pcs.)
36 plates, 6 each 4, 7 and 9 in.
12 coupe soup plates,
1 baker 7 in.
2 platters, 9 & 12 in
1 sugar & creamer (3 pcs.),
1 butter (3 pcs.),
1 casserole (3 pcs.),
1 dish, 7 in. (2 pcs.),
1 pickle dish,
1 set in bkt., about 90 lbs.
SET (100 pcs.) **$15.45**

E15395—32 pc. set.
6 teas (12 pcs.),
12 plates, 6 each 4 & 7 in
6 fruits, 4 in
1 platter, 8 in.
1 baker, 7 in.
Each set about 30 lbs.
SET (32 pcs.) **$3.90**

E15396—42 pc. set as 32 pc. with 6 plates, 9 in. bowl, cereal, sugar (5 pcs.) and creamer
Each set about 40 lbs.
SET (42 pcs.) **$5.90**

E15396—50 pc. set.
6 teas cups and saucers
[illegible]
15 plates, 6 each 4, 6 & 7 in
6 coupe soups,
6 fruits,
1 baker, 7 in.
1 platter, 30's.
1 creamer,
1 cover. sugar (5 pcs.),
1 [illegible] dish (3 pcs.),
Each set about 45 lbs.
SET (50 pcs.) **$8.80**

E15393—100 pc. set.
12 teas (24 pcs.)
[illegible]
12 coupe soup plates
2 bakers, 7 in.
1 platter, 9 and 12 in
1 [illegible]
1 sugar and creamer (3 pcs.)
1 butter (3 pcs.)
1 casserole (3 pcs.),
1 dish, 7 in. (2 pcs.
1 pickle dish,
Each set 90 lbs
SET (100 pcs.) **$16.40**

Cups and Saucers— Doz.
E11100—Tea 2½x3, saucer 5½ [illegible] **$2.64**

Plates— Doz.
E11113—4 in. set, 1 [illegible] **$1.00**
E11115—6 in. [illegible] **1.75**
E11117—7 in. [illegible] **2.50**
E11119—8 in. [illegible] **3.00**
E11121—9 in. [illegible] **4.75**
E11123—10 in. [illegible] **7.75**

Bakers— Doz.
E11124—7 in., height 2½ [illegible] **$3.22**

Creamers— Doz.
E11127—3 in. [illegible] **$2.69**

Bowls— Doz.
E11129—5 in. [illegible] **$2.69**

Platters— Doz.
E11163—8 in., length 10¼ [illegible] **$2.42**
E11165—11 in. [illegible] **6.05**
E11167—13 in. [illegible] **9.68**

Vegetables or Salads— Doz.
E11168—8 in. [illegible] **$3.22**
Fruits— Doz.
E11169—5 in. [illegible] **1.88**

Casseroles— Doz.
E11170—8 in. [illegible] **$4.35**

Sauce Boats—Without stand. Doz.
E11171—[illegible] **$4.03**

Cov'd. Sugars— Doz.
E11177—6½ in. [illegible] **$7.39**

Cov'd. Butters—Drainer Doz.
E11178—8 in. [illegible] **$9.68**

Cov'd. Dishes
E11176—8 in., height 7½ [illegible] **$12.90**

Cov'd. Casseroles— Doz.
E11175—8 in. [illegible] **$12.90**

Sauce Boats—Without stand. Doz.
E11185—4½x9½ [illegible] **$4.30**

Pickle Dishes— Doz.
E11180—8½x5 in. [illegible] **$3.23**

Bowls— Doz.
E11130—8½ in. [illegible] **$2.90**
E11135—10½ in. [illegible] **5.65**

Platters— Doz.
E11134—8 in. [illegible] **$2.42**
E11136—10 in. [illegible] **3.75**
E11137—12 in. [illegible] **5.65**

Vegetables or Salads Doz.
E11139—8 in. [illegible] **$3.50**

Fruits— Doz.
E11140—4½ in. [illegible] **1.50**

Casseroles— Doz.
E11141—8 in. [illegible] **$4.35**

Sauce Boats—Without stand. Doz.
E11142—[illegible] **$4.03**

Pickle Dishes— Doz.
E11145—8½x5 in. [illegible] **$3.23**

Cups and Saucers— Doz.
E11200—Fancy tea, 2½x3½, saucer 6½ [illegible] **$2.80**
E11200—Oyster tea, [illegible] **2.80**

Plates— Doz.
E11203—4 in., set, 6¼ [illegible] **$1.20**
E11211—6 in. [illegible] **1.95**
E11213—7 in. [illegible] **2.75**
E11215—8 in. [illegible] **3.50**
E11217—9 in. [illegible] **5.10**
E11219—10 in. [illegible] **8.10**

Bakers— Doz.
E11220—7 in., height 2½ [illegible] **$3.60**

Creamers— Doz.
E11223—3 in. [illegible] **$2.90**

Bowls— Doz.
E11225—5 in. [illegible] **$2.90**

Platters— Doz.
E11259—8 in., length 10¼ [illegible] **$2.60**
E11261—11 in. [illegible] **6.50**
E11263—13 in. [illegible] **10.90**

Vegetables or Salads Doz.
E11264—8 in. [illegible] **$3.90**

Fruits— Doz.
E11265—5 in. [illegible] **2.00**

Casseroles— Doz.
E11266—8 in. [illegible] **$4.90**

Sauce Boats—Without stand. Doz.
E11267—[illegible] **$4.60**

Pickle Dishes— Doz.
E11270—8½x5 in. [illegible] **$3.60**

Bowls— Doz.
E11230—8½ in. [illegible] **$3.40**
E11235—10½ in. [illegible] **6.50**

Platters— Doz.
E11234—8 in. [illegible] **$2.60**
E11236—10 in. [illegible] **4.25**
E11237—12 in. [illegible] **6.50**

Vegetables or Salads Doz.
E11239—8 in. [illegible] **$3.90**

Fruits— Doz.
E11240—4½ in. [illegible] **1.75**

Casseroles— Doz.
E11241—8 in. [illegible] **$4.90**

Sauce Boats—Without stand. Doz.
E11242—[illegible] **$4.60**

Pickle Dishes— Doz.
E11245—8½x5 in. [illegible] **$3.60**

Cups and Saucers— Doz.
E15400—Tea 2½x3½, saucer 6½ [illegible] **$2.80**

Plates— Doz.
E15403—4 in., set, 6¼ [illegible] **$1.20**
E15411—6 in. [illegible] **1.95**
E15413—7 in. [illegible] **2.75**
E15415—8 in. [illegible] **3.50**
E15417—9 in. [illegible] **5.10**
E15419—10 in. [illegible] **8.10**

Bakers— Doz.
E15420—7 in., height 2½ [illegible] **$3.60**

Creamers— Doz.
E15423—3 in. [illegible] **$2.90**

Bowls— Doz.
E15425—5 in. [illegible] **$2.90**

Platters— Doz.
E15459—8 in., length 10¼ [illegible] **$2.60**
E15461—11 in. [illegible] **6.50**
E15463—13 in. [illegible] **10.90**

Vegetables or Salads Doz.
E15464—8 in. [illegible] **$3.90**

Fruits— Doz.
E15465—5 in. [illegible] **2.00**

Casseroles— Doz.
E15466—8 in. [illegible] **$4.90**

Sauce Boats—Without stand. Doz.
E15467—[illegible] **$4.60**

Pickle Dishes— Doz.
E15470—8½x5 in. [illegible] **$3.60**

Bowls— Doz.
E15430—8½ in. [illegible] **$3.40**
E15435—10½ in. [illegible] **6.50**

Platters— Doz.
E15434—8 in. [illegible] **$2.60**
E15436—10 in. [illegible] **4.25**
E15437—12 in. [illegible] **6.50**

Vegetables or Salads Doz.
E15439—8 in. [illegible] **$3.90**

Fruits— Doz.
E15440—4½ in. [illegible] **1.75**

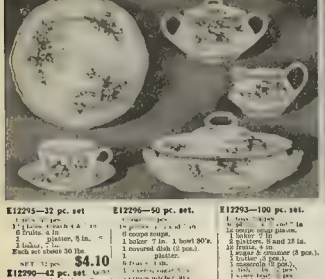
Casseroles— Doz.
E15441—8 in. [illegible] **$4.90**

Sauce Boats—Without stand. Doz.
E15442—[illegible] **$4.60**

Pickle Dishes— Doz.
E15445—8½x5 in. [illegible] **$3.60**

"CENTURY" PINK ROSE SPRAY SEMI-PORCELAIN (OPEN STOCK)

HOMER LAUGHLIN trademarked [illegible] semi-porcelain ware with [illegible] gloss finish. All pcs. with gold edges and original patterns. No Package Charge.



E12295—32 pc. set
[illegible] each 4 in. 6 fruits, 6 in. 1 platter, 8 in. 1 bisque, 7 in.
Each set about 30 lbs.
SET (32 pcs.) **$4.10**

E12290—42 pc. set. Same as pc. set with 6 plates 5 in., [illegible] each sugar and creamer
SET 42 pcs. **$6.65**

E12296—50 pc. set.
[illegible] 6 fruits, 6 in. 1 baker 7 in. 1 bowl 9½ in. 1 covered dish (2 pcs.) platter
SET 50 pcs. **$8.95**

E12293—100 pc. set.
[illegible] 6 fruits, 6 in. 6 soup bowls, 7 in. 1 baker 7 in. 1 bowl 9½ in. 1 covered dish (2 pcs.) platter
Each set about 60 lbs.
SET (100 pcs.) **$17.50**

Cups and Saucers—
E12544—Cups and saucers [illegible] Doz. $2.25
E12545—Cups and saucers [illegible] Doz. $2.82

Plates—
E12546—6 in. [illegible] Doz. $1.20
E12547—7 in. [illegible] Doz. $1.45
E12548—8 in. [illegible] Doz. 2.19
E12549—9 in. [illegible] Doz. $2.28

Bakers—
E12531—[illegible] Doz. $3.25

Platters—
E12543—[illegible] Doz. $3.25
E12278—9½ in. Doz. $11.70

Indy Butters Salt or cobery
E12544—3½ in. Doz. 65c
Cod Dishes—
E12280—7 in. set $1.75

Sauces—
E12279—Cream [illegible] Doz. $3.90
Gravy—5½ in. Doz. $3.90
Cod Sauce—
E12281—[illegible] Doz. $7.80

Oval Butters—Divided
E12278—7½ in. Doz. $11.70

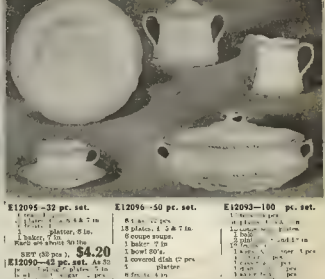
Salts or Cobery
E12545—3½ in. Doz. 65c
Cod Dishes—
E12280—7 in. set $1.75

Sauces—
E12279—Cream [illegible] Doz. $3.90
Gravy—5½ in. Doz. $3.90
Cod Sauce—
E12281—[illegible] Doz. $7.80

Oval Butters—Divided
E12278—7½ in. Doz. $11.70

"MAJESTIC" WHITE & GOLD SEMI-PORCELAIN (OPEN STOCK)

HOMER LAUGHLIN trademarked [illegible] ware with wide gold band and rare design. [illegible] full gold traced. Will glaze your [illegible]. No Package Charge.



E12095—32 pc. set.
[illegible] each 4 in. 6 fruits, 6 in. 1 baker, 7 in. 1 platter, 8 in.
Each set about 30 lbs.
SET (32 pcs.) **$4.20**

E12090—42 pc. set. As 32 pc. set with 6 plates 5 in., [illegible] each sugar and creamer.
Each set about 45 lbs.
SET 42 pcs. **$6.15**

Cups and Saucers—
E12096—Cups and saucers [illegible] Doz. $2.70
E12052—Cyclo tea [illegible] saucer 5½ . . Doz. Dzn

Plates—
E12097—6 in. set 6 [illegible] Dzn. $1.35
E12098—7 in. set 6 [illegible] Dzn. $1.75
E12099—8 in. set 6 [illegible] Dzn. $2.75
E12014—9 in. set 6 [illegible] Dzn. 3.48

Saucers—
E12017—Coupe soup. [illegible] Doz. $5.20

Pickle Dishes—
E12096—[illegible] Doz. $3.90

Oatmeals—
E12025—8 in. [illegible] Doz. $3.75
E12025—8 in. 10x7½ 6¾ Doz. $4.25

E12096—50 pc. set.
[illegible] each 4 in. 6 fruits, 6 in. 12 plates, 5 in. 1 baker, 7 in. 6 coupe soups. 1 bowl, 9½ in. 1 covered dish (2 pcs. platter
SET (50 pcs.) **$8.60**

Fancy Bowls—
E12093—Fancy [illegible] Doz. $2.15

Platters—
E12045—11 in. [illegible] Doz. $4.38
E12045—10 in. set [illegible] Doz. $7.50
E12047—13 in. set [illegible] Doz. $11.25

Nappies or Salads—
E12053—7 in. set 7½ [illegible] Doz. $5.75
E12054—8 in. [illegible] Doz. $8.25

Bakers—
E12056—7 in. set 6 [illegible] Doz. $3.75
E12056—8 in. 10x7½ 6¾ Doz. $4.25

E12093—100 pc. set.
[illegible] each 4 in. 6 fruits, 6 in. 12 plates, 5 in. 1 baker, 7 in. 6 coupe soups. 1 bowl, 9½ in. 1 covered dish (2 pcs. platter
Each set about 60 lbs.
SET (100 pcs.) **$17.50**

Oatmeals—
E12065—8½ in. Doz. $7.50

Creamers—
E12077—8½ in. set 6 [illegible] Doz. $11.25

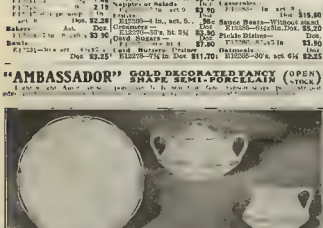
Cod Butters—Divided
E12063—7 in. [illegible] Doz. $13.75

Cod Butters—Plain
E12061—8 in. [illegible] Doz. $5.90

Pickle Dishes—
E12060—8½x5½ [illegible] Doz. $3.75

"AMBASSADOR" GOLD DECORATED FANCY SHAPE SEMI-PORCELAIN (OPEN STOCK)

[illegible] each 4 in. 6 fruits, 6 in. 1 baker, 7 in. 1 bowl, 9½ in. 1 cream pitcher, 8 in. 1 sugar and cover, 8 in. [illegible] Each set about 50 lbs.
SET (32 pcs.) **$5.85**



E23196—50 pc. set.
6 tea cups & saucers (12 pcs.)
18 plates, 6 each 6, 7 & 7 in.
1 baker, 7 in.
1 bowl, 9½ in.
1 platter, 8 in.
6 fruits, 6 in.
1 bowl, 9½ in.
1 cream pitcher
Each set about 50 lbs.
SET (50 pcs.) **$8.15**

E23193—100 pc. set.
18 tea cups & saucers (12 pcs.)
18 plates, 6 each 6, 7 & 7 in.
1 baker, 7 in.
2 platters, 9 & 12 in.
10 fruits, 6 in.
2 sugar & creamer (8 pcs.)
1 butter (3 pcs.)
1 dish, 7 in. (2 pcs.)
1 covered sugar (2 pcs.)
1 pickle dish
Each set about 90 lbs.
SET (100 pcs.) **$16.75**

Cups and Saucers—
E23197—Cups and saucers [illegible] Doz. $2.75

Plates—
E23198—6 in. [illegible] Doz. $1.20
E23199—7 in. [illegible] Doz. 1.35
E23200—8 in. [illegible] Doz. 2.10
E23201—9 in. [illegible] Doz. 2.65

Bakers—
E23202—[illegible] Doz. $3.60

Fruit Saucers—
E23177—30's, 2½x5½ Doz. $2.75

Oval Butters—Divided
E23179—Diam. 7½ Doz. $10.80

Cod. Dishes—
E23180—8 in. Doz. $12.60

Cod. Casseroles—
E23183—7 in. Doz. $14.40

Sauce Boats—With stand
E23185—6½x3½ Doz. $4.80

Pickle Dishes—
E23186—6½x3½ Doz. $3.60

E12795—32 pc. set.
6 cups (10 pcs.)
12 plates, 5 inch, 6 in. 6 fruits, 6 in.
1 platter, 8 in.
1 bowl, 9½ in.
Each set about 30 lbs.
SET (32 pcs.) **$4.60**

E12796—42 pc. set. As 32 pc. set with 6 plates 5 in., bowl covered sugar (2 pcs.) pickle dish.
Each set about 40 lbs.
SET 42 pcs. **6.20**

Cups and Saucers—
E12797—Cups and saucers [illegible] Doz. $2.87

Plates—
E12710—6 in. set 6 [illegible] Doz. $1.28
E12711—6 in. [illegible] Doz. $1.43
E12712—8 in. [illegible] Doz. $1.75
E12719—9 in. [illegible] Doz. $2.23
E12720—Coupe soup [illegible] Doz. $2.23

Sauce Boats—With stand
E12754—7 in. set 6 [illegible] Doz. $3.83

Pickle Dishes—
E12732 80's Doz. $3.19

E12796—50 pc. set.
[illegible] each 4 in. 6 fruits, 6 in. 6 fruits, 6 in. 6 plates, 5 in. 6 coupe soups. 1 bowl 9½ in. 1 covered dish (2 pcs. platter
Each set about 50 lbs.
SET (50 pcs.) **.8.65**

Platters—
E12795—10 in. [illegible] Doz. $5.18
E12796—10 in. [illegible] Doz. $5.75
E12797—13 in. [illegible] Doz. $8.63

Fruits—
E12740—4 in. set 6 [illegible] Doz. $3.83
Nappies or Salads—
E12755—7 in. set 6 [illegible] Doz. $3.83

Oatmeals—
E12756—8½ in. Doz. $3.83

E12793—100 pc. set.
[illegible] each 4 in. 6 fruits, 6 in. 12 plates, 5 in. 1 baker, 7 in. 6 coupe soups. 1 bowl, 9½ in. 1 covered dish (2 pcs. platter
Each set about 60 lbs.
SET (100 pcs.) **.17.95**

Covered Sugars—
E12757—7½ in. Doz. $7.95

Cod Butters—Divided
E12758—7½ in. Doz. $11.48

Cod. Dishes—
E12760—7 in. set 6 Doz. $13.15

Casseroles—
E12763—7 in. set 6 Doz. $15.30

Sauce Boats—Attaching stand
E12764—6½x3½ Doz. $11.48

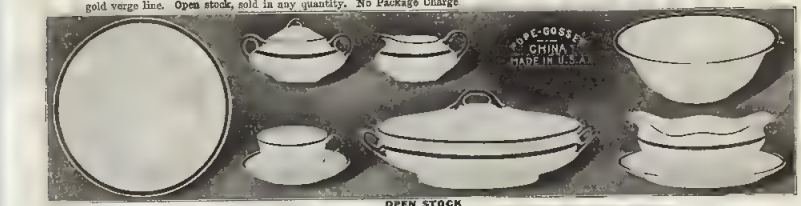
Pickle Dishes—
E12766—8½x5½ Doz. $3.83

"YALE" BLUE AND GOLD BAND SEMI-PORCELAIN (OPEN STOCK)

HOMER LAUGHLIN trademarked [illegible] ware in service use with [illegible] sizes to prove popular. No Package Charge

"DE LUXE"

"Pope-Gosser" **trademarked.** I [illegible] clear glaze, rope [illegible] of the French derby shapes. Coin gold band edges, plain shape plates and fruits with French foot, cups with coin gold verge line. **Open stock,** sold in any quantity. **No Package Charge.**



OPEN STOCK

CUP AND SAUCER— Dec
E17600—Tea 2½x3 in., saucer 5½ ..$7.15
E17603—Ovide tone, 3½x2¾, saucer 5½
Doz. $7.15
E14805 [illegible] saucer 6
PLATES— Doz
E17610—4 in. [illegible] Doz.
E17614—6 " " "
E17612—6 " " " 2.75
E17613—7 " " " 4.67
E17617—Coupe soup, 7 in., sct. 8½
Doz. $4.67

BAKER—
E17624—7 in., sct. 9 . . . . Each, 71c

BOWL—
F17631—30's Each 57c

PLATTERS— Each
E17643 " sct. 13½ $0.79
E17645 " " 13 1.37
E17647 " " 15 2.04
E17648—14 " " 16½x12½ 2.73

SALAD—
E17652—7 in., sct. 8½ .....Each, 72c

FRUITS—
E17680—4 in., sct. 5½... Doz. $2.04
E17682—5 " " 5½ " 2.40

CREAMER— Each, $34
E17676 [illegible]
COVERED BUTTER— Each $1.86
E17677 [illegible]
COVERED BUTTER—With drainer
E17675—6½ ..... Each, $2.18

COVERED DISH—Oval
E17681—7 in.... .....Each, $2.07

CASSEROLE—Round
F17683—7 in. Each $2.07

SAUCE BOAT—Attached stand
E17684 [illegible] in Each $2.42

PICKLE DISH—
E17686—8-5/8 in.... ..... Each, 87c

"BLUE BIRD" DINNERWARE

"H. T. & H." trademarked. Light wt. white semi-porcelain, fancy shape, delicately tinted blue bird, apple blossom and foliage [illegible] gold [illegible] and handles and knobs. **Open stock,** sold in any quantity. **No Package Charge.**

DINNER SETS

E15395—32 piece set.
[illegible] lbs.
[illegible] 32 pcs.) **$4.25**

E15390—42 piece set.
Shipping wt. [illegible] lbs. **$6.55**

E15396—50 piece set.
Shipping wt. [illegible] lbs. **$9.65**

E15393—100 piece set.
Shipping wt. [illegible] lbs. **$17.95**

CUPS AND SAUCERS—
E15390—Tea 3½x2¾ in., saucer 5½
Doz. $2.75
E15392—Ovide 3½x2¾ in. saucer 5 in.
Doz. $2.50

PLATES
E15310—4 in. sct. 6½ Doz. $1.25
E15311—5 " " 8½ 1.45
E15313—7 " " 9½ 2.15
E15317—Coupe soup, 7 in. sct. 8 Doz. $2.15

BAKER
E15324—7 in. sct. 9 1/2 Doz. $3.68

OPEN STOCK

BOWL—
E15331 30's [illegible] Doz. $3.06

PLATTERS—
E15645—13 in. sct. 13 5/16 $3.06
E15335-10 15 x10 5.80
E15337 " 16½x12⅝ 9.20

SALADS—
E15332—7 in., sct. 9½ Doz. $3.68

RELISH—
E15340—4 in. sct. 5½ Doz. $0.90

OATMEAL—
E15[illegible] [illegible] Doz. $2.15

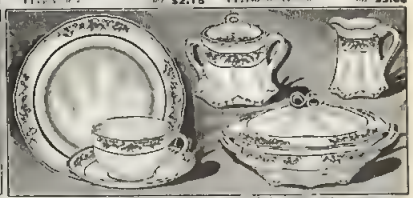
CREAMER—
E15346 [illegible] Doz. $3.68
COVERED BUTTER—
E15347 [illegible] Doz. $7.35
COVERED BUTTER With drainer
E15348 Doz. $11.06
COVERED DISH—Oval
E15350 [illegible] Doz. $13.60
CASSEROLE—Round
E15351 [illegible] Doz. $14.70
SAUCE BOAT—Without stand
E15354 [illegible] Doz. $11.06
PICKLE DISH—
E15356 [illegible] Doz. $3.68

"Sterling"—
[illegible] No Package Charge

E19290—42 piece set.
Shipping wt. about 40 lbs. **$8.50**

E19296—50 piece set.
Shipping wt. about 45 lbs. **$11.25**

E19293—100 piece set.
Shipping wt. about 90 lbs. **$23.00**



"Avona"—
[illegible] No Package Charge

E22395—32 piece set.
Shipping wt. about 30 lbs. **$5.65**

E22396—50 piece set.
Shipping wt. about 40 lbs. **$11.50**

E22390—42 piece set.
Shipping wt. about 40 lbs. **$8.75**

E22393—100 piece set.
Shipping wt. about 90 lbs. **$23.50**

Composition of Our Dinner Sets

32 Piece Set
6 cups, 6 saucers, 6 plates, 6 fruits, 4 in., 6 plates, 6 in., 1 platter, 8 in.

42 Piece Set
8 tea cups, 8 saucers, 8 plates, 6 in., 8 fruits, 4 in., 1 platter, 7 in., 1 platter, 9 in., 1 baker, 7 in., 1 bowl, 30's, 1 platter, 8 in., 6 fruits, 4 in., 1 bowl, sugar (2 pcs.), 1 creamer.

50 Piece Set
6 tea cups, 6 saucers, 6 plates, 4 in., 6 plates, 5 in., 6 plates, 7 in., 6 coupe soups, 6 fruits, 4 in., 1 nappy, 7 in., 1 bowl, 30's, 1 dish, 10 in., 1 creamer, 1 bowl, sugar (2 pcs.), 1 covd. dish (3 pcs.).

100 Piece Set
12 tea cups, 12 saucers, 12 plates, 4 in., 12 plates, 5 in., 12 plates, 7 in., 12 coupe soups, 1 bowl, 7 in., 1 platter, 8 in., 1 platter, 10 in., 12 fruits, 4 in., 1 covd. sugar (2 pcs.), 1 creamer, 1 butter dish (3 pcs.), 1 casserole (3 pcs.), 1 covd. dish, 7 in. (3 pcs.), 1 sauce boat (2 pcs.), 1 pickle dish.

No Package Charge

Porcelain Birds

Per doz.

N20226—PARAKEET—6 inches high. Bright red, yellow and blue glazed colors 22.80

Each

N20227—GAMOL—6 inches high. Bright green, yellow and brown in shades 2.00

Each

N20228—PARAKEET IN SWING—Bird 6 inches. Bright blue and yellow 2.50

Each

N20229—CARDINAL—7½ inches high. Bright red spotted with black and white 3.50

GREENWICH VILLAGE ASSORTMENT

Per doz.

N28608—GREENWICH VILLAGE ART GLASSWARE—Bodies in rich opaque colors, clear transparent borders decorated with a sharp grid work design, producing a novel and pleasing effect. Consists of 12 pieces, as follows. 1 Bell Bowl, Orange 1 Metal Stand for Bowl 2 Candlesticks, Orange 1 Cheese and Cracker Dish, Orange 1 Flower Bowl, Yellow 1 Stand for Bowl, Each. 1 Rose Bowl Yellow 1 Stand for Bowl, Black 1 Mayonnaise Dish and Ladle, Orange 1 Vase, Yellow 1 Compote, Green 1 Bon Bon Dish, Green 1 9½-inch Bowl, Orange 1 Stand for Bowl, Black. 1 Bowl, Orange 1 Stand for Bowl, Black 1 Bell Compote, Yellow Packed complete in barrel..... 72.00

PORCELAIN BIRDS

Porcelain birds made from hard composition, beautifully painted in natural colors. The colors are burnt in and will not come off.

Each

N20230—COCKATOO—3½ inches high. Bright blues and yellows..... 4.80

Each

N20231—COCKATOO ON SWING—Bird, 8 inches. Bright yellow and blue 4.80

THE FLIPPER AND THE FLAPPER

Per doz.

N20235—THE FLIPPER—The Mate of the Flapper variety Statuette 11 inches high; painted in realistic colors. Made of hardened plaster... 16.00

Per doz.

N20236—THE FLAPPER—Statuette of a modern young Miss. 11 inches high. Painted in realistic color, made of hardened plaster 16.00

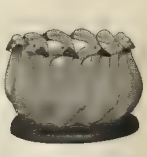
Porcelain Birds

Each

N20232—PARROT 8 inches high. Bright red, green and yellow 5.00

Each

N20233—PARROT ON SWING—Parrot, 8 inches. Finished in green cream reds and blue 5.00



Each

N20234—GOOSE BOWL—Reproduction of an Indian bowl of glazed china effect 9 inches..... 5.00

Glass Plateaus with Metal Rims

Silver Plated Top

Each

N20200—Diameter, 10 inches heavy beveled plate glass, nickel plated brass, 3-ball feet..... 2.24

N20201 Diameter, 12 inches, otherwise same as N20200 ..... 3.60

N20202 Diameter 14 inches otherwise same as N20200 ..... 3.90

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

PORCH FURNITURE

MAPLE ROCKER

Each

No. 214—Maple, natural finish; 2 inch posts; double cane seat 16x21 inches; height from seat to top of back 30 ins. $11 10

Two in a bundle, wrapped; shipped set up; shipping weight each 32 lbs.

MAPLE ROCKER

Each

No. 210—Maple, natural finish; 2 inch posts; cane seat 16x21 inches; height from seat to top of back 30 inches.... $14 40

Two in a bundle; shipping weight each 20 lbs.

BENT WOOD SETTEES

Legs, frame and arms are bent from rock elm stock. Slats and rockers are of hardwood. Length 4 feet.

Each

No. 4BG—Painted green and varnished..... $18 75

One in a bundle; K. D., shipping weight each about 28 lbs.

PORCH AND LAWN FURNITURE

BENT WOOD CHAIRS

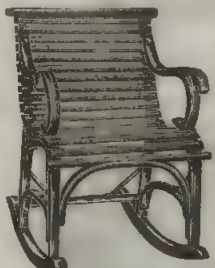
Without Rockers.

Legs, frame and arms are bent from rock elm stock. Slats are of hardwood. Width between arm 19 in.; depth of seat 18 in.

Each

No. 1CG—Painted green and varnished..... $10 80

One in a bundle, K. D.; shipping weight each 10 lbs.



BENT WOOD CHAIRS

With Rockers.

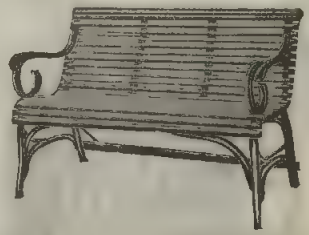
Legs, frame and arms are bent from rock elm stock. Slats and rockers are of hardwood. Width between arms 19 in.; depth of seat 18 in.

Each

No. 1RG—Painted green and varnished..... $13 20

One in a bundle, K. D.; shipping weight each 12 lbs.

BENT WOOD SETTEES



Legs, frame and arms are bent from rock elm stock; slats are of hardwood.

Length ft.	4	5	6
Weight each, lbs.	27	34	39
Painted Green			
Nos.	4SG	5SG	6SG
Each	$16 50	18 75	21 75

One in a bundle, K. D.

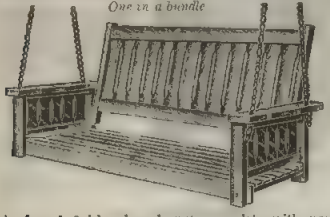
PORCH FURNITURE

PORCH SWINGS

Each

No. 20—Oak, fumed finish; shaped seat; complete with non-rust chains and hooks. Length 4 ft.; depth seat 17¼ in.; height back 22 inches. The slightest pressure of the foot on the foot rest sets the swing in motion, weight each 45 lbs. $25 50

One in a bundle



Oak, fumed finish; shaped seat; complete with non-rust adjustable chains and hooks. Depth seat 17¼ inches; height back 22 inches.

Nos.	15-4	15-5
Length, feet	4	5
Weight each, lbs.	40	48
Each	$18 75	21 75

Above swings packed one each in a bundle, K. D.

Each

No. 04F0 Oak, fumed finish; complete with chains and hooks. Length 4 ft.; depth seat 17¼ ins; height back 22 inches $11 25

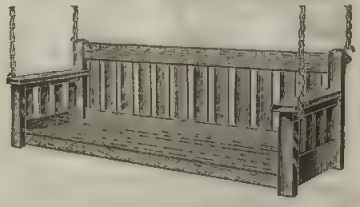
One in a bundle, K. D.; shipping weight each 34 lbs.

PORCH FURNITURE

PORCH SWINGS

No. 7—Beech, fumed finish; shaped seat and back; complete with chains and hooks. Length 4 ft.; depth seat 18 in.; height back 18 inches ..... Each $8 25

One in a bundle, K. D.; shipping weight each 24 lbs.



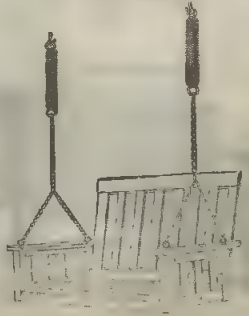
Oak, fumed finish; shaped seat; complete with chains and hooks. Depth seat 24 inches; height back 22 inches.

Nos.	12-5	12-6
Length, feet	5	6
Weight each, lbs.	40	53
Each	$33 00	37 50

One in a bundle.

PORCH SWING SPRINGS

SWING EASY



Made of best spring steel, black japanned finish. Will support 600 lbs.

Per Pair

No. 2—Diameter 1½ inches $1 50

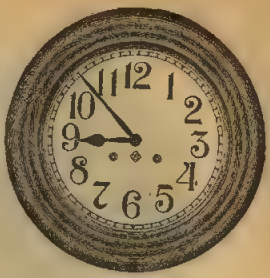
One pair in a package; weight per pair about 6 lbs.

WALL CLOCKS

Ingot

Eight day time, polished oak case, drop octagon, 25 inches high, 10 inch dial.

NO.	EACH
100	$10.00



Gresham

Eight day time, pendulum movement, mahogany finish case, 14-inch diameter, 12-inch dial with Arabic figures.

NO.	Wt. Each	EACH
101	4½ lbs.	$12.00

Postal

Eight day time, large movement, silent beat escapement, solid oak case, 31 inches high, 12 inch dial.

NO.	EACH
102	$15.00

ONE IN A BOX

Regulator

Ansonia "Regulator" 8-day time wall clock.

NO.	
103	$18.00

POCKET KNIVES

OUR VERY BEST, FOLDING

LOCK BACK

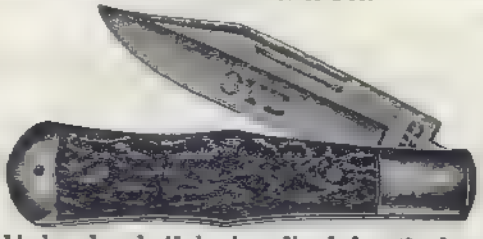
No. 143—1 blade, full polished, 3⅝ in., stag handle, brass lined, length closed 4⅛ in. ...per dozen **$26.00**

HALF DOZEN IN A BOX

LOCK BACK

No. 156—1 blade, half polished, 4⅛ in., stag handle, brass lined, length closed 5⅛ in. ... per dozen **$45.00**

HALF DOZEN IN A BOX



One blade, glazed, 4⅛ in. iron lined, length closed 5⅛ in.

No.	144
Handle	Cocoa
Bolster	Single
Per dozen	$23.00

HALF DOZEN IN A BOX

POCKET KNIFE KITS

Especially adapted for household mechanic and outing purposes.

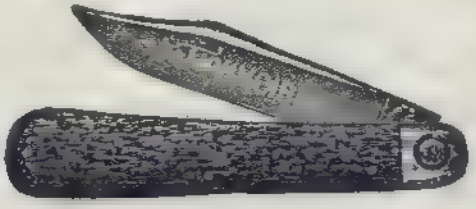
No. 2762P—Consisting of 1 blade pocket knife, 1 screw driver, 1 chisel, 1 file, 1 reamer, 1 gimlet, 1 leather punch, which fit securely in special blank end of cocobola handle, iron lined, length of pocket knife ⅞ in., tools packed in neat tan leather case, size closed 4¼x3¼x⅞ in., w't per doz. 5 lbs. .....per dozen **$24.00**

HALF DOZEN IN A BOX

PRESS BUTTON, FOLDING

No. 943—1 blade, polished, 3 in., stag handle, iron lined, length closed 4 in. .....per dozen **$21.60**

HALF DOZEN IN A BOX



No. 944—1 blade, polished, 3⅝ in., stag handle, iron lined, length closed 4⅛ in. .....per dozen **$24.00**

HALF DOZEN IN A BOX

By pressing the button shown in bolster, the blade will fly open and become firmly locked in place. To close the blade it is necessary first to press the button.

No. 953—1 blade, polished, 3⅝ in., stag handle, iron lined, patented, self-adjusting, nickeled silver guard, lingth closed 4⅛ in. .....per dozen **$32.40**

HALF DOZEN IN A BOX

CAMPING KNIFE, FORK AND SPOON

The above knives are ideal knives for campers and picnicers. Through an ingenious placing of slots in the linings the user can instantly take the knives apart in sections. Each section joins and open like an ordinary pocket knife.

No. 2733—2 pieces, finest qualitiy English crucible steel knife and fork, stag handle, brass lined, length 4 in. closed .....per dozen **$24.00**

PRESS BUTTON, FOLDING

Full polished, stag handle, brass lined, 3⅜ in. closed.

No. 942—1 spear and one pen blade ..per dozen $21.60

No. 957—1 clip and one pen blade ...per dozen 21.60

HALF DOZEN IN A BOX

No. 943—1 blade, polished, 3 in., stag handle, iron lined, length closed 4 in. .....per dozen $21.60

HALF DOZEN IN A BOX

No. 944—1 blade, polished, 3¾ in., stag handle, iron lined, length closed 4⅝ in. .....per dozen $24.00

HALF DOZEN IN A BOX

By pressing the button shown in bolster, the blade will fly open and become firmly locked in place. To close the blade it is necessary first to press the button.

No. 953—1 blade, polished, 3¾ in., stag handle, iron lined, patented, self-adjusting, nickeled silver guard, length closed 4⅝ in. .....per dozen $32.40

HALF DOZEN IN A BOX

INK ERASERS

No. 681—2¼ in., steel blade, crocus polished, 2⅜ in. genuine ebony handle, 3¼ in. sheath ....per dozen $7.00

HALF DOZEN IN A BOX

No. 14311—IXL, 2⅜ in. Wardlow's crucible steel blade, crucus polished, 4 in. genuine ebony handle, per dozen $18.00

HALF DOZEN IN A BOX

KNIFE PURSES

Fine imported smooth kid, silk stitching, with enameled button clasp,

Nos.	1RB	2RB	3RB	4RB	5RB
Length, in.	2⅛	2⅞	3¼	3⅝	4
Per dozen	$1.00	1.00	1.00	1.00	1.00

THREE DOZEN IN A BOX

Smooth kid, silk stitching with solid brass embossed button clasp.

Nos.	1	2	3	4	5
Length, in.	2⅛	2⅞	3¼	3⅝	4
Per dozen	$1.00	1.00	1.00	1.00	1.00

THREE DOZEN IN A BOX

KNIFE PURSE ASSORTMENTS

No. 12—Assortment consists of 12 knife purses, assorted sizes, on attractive stiff card, size 11¼x10 in., with easel back and hang up ring, per assortment $1.20

IMPROVED CUTLERY SHOW CASES

Prices on Application.

FLOOR DISPLAY CASES

Our FLOOR DISPLAY CASES FOR CUTLERY are thoroughly hand made from natural oak and are of NATURAL OAK FINISH, highly hand polished.

The top is ¼ in. bevel French plate glass laid in plush on green felt cushions, selected double strength glass front and ends and glass sliding dust-proof doors in the back that move on ball bearings and steel track.

The inside has 10 in. and 14 in. paneled oak shelves, the front edges of which are fitted with an oak lip extending ¼ in. above the shelf proper to prevent the goods from being pushed off the shelves, these shelves are supported by adjustable nickel plated brackets, cloth lined paneled bottom.

One of the latest improvements in these cases are the steel strength mitered joints, which means that the mitered joints in our cases are reinforced with steel, making the weakest part the strongest—this is a most important point to be considered.

Made either knockdown or set up and of standard measurements, 42 in. high, and 26 in. wide outside dimensions.

No. F905— 6 ft. long, free of charge with $ 800.00 worth of cutlery, shipping w't 285 lbs., value of case★ ..each *$160.00*

No. F906— 6 ft. long, free of charge with $ 900.00 worth of cutlery, shipping w't 325 lbs., value of case★ ..each *180.00*

No. F908— 8 ft. long, free of charge with $1200.00 worth of cutlery, shipping w't 400 lbs., value of case★ ..each *240.00*

No. F910—10 ft. long, free of charge with $1500.00 worth of cutlery, shipping w't 450 lbs., value of case★ ..each *320.00*

A FULL COMPLEMENT OF SILK PLUSH TOP CUTLERY BOXES GOES WITH EACH CASE GRATIS.

WHERE A CUSTOMER CANNOT BUY THE FULL AMOUNT OF CUTLERY AT ONE PURCHASE, but desires a Cutlery Show Case, we send same and CHARGE TO HIS ACCOUNT at prices noted, AND ON THE BOTTOM OF THE BILL WE PRINT THE FOLLOWING CONTRACT.

CONTRACT—We desire to make it plain that in sending above case and charging it to your account, IT MUST BE PAID FOR AT THE MATURITY OF THIS BILL. We will credit your account with the charge for the Cutlery Case when you have purchased $.....—The required amount is inserted here—worth of Pocket Cutlery, Table Cutlery, Carvers, Butchers Cutlery—(Not including John Wilson's goods)—Kitchen Cutlery, Our trade-mark Hunting Knives, Painters' Cutlery, Shears, Scissors, Manicure goods, Toilet and Horse Clippers—(Not including Brown & Sharpe Toilet Clippers or parts, Power or Hand Power Clippers or Sheep Shearing Machines and parts) — Our trade-mark razors—(Not including Safety Razors or Blades)—Combs, Strops, Hones—(excepting Carborundum)—Mugs, Lather Brushes, & Rubbing Polishes, Thermometers, Key Rings, Chains and Hooks, Goggles—(except No. 1 assortment) -Cork Screws, Nut Picks and Cracks, Silver metal goods and Silver plated flat-ware, provided said purchases are made within one year from date of this invoice.

Not more than one show case to be furnished on these terms.

★ Items Marked Thus ★ Are Shipped From Factory Only.

PRESS BUTTON, FOLDING

Full polished, stag handle, brass lined, 3⅜ in. closed.

No. 942—**1 spear and one pen blade** . . per dozen $21.60

No. 957—**1 clip and one pen blade** . . . per dozen 21.60

HALF DOZEN IN A BOX

No. 943—1 blade, polished, 3 in., stag handle, iron lined, length closed 4 in. . . . . per dozen $21.60

HALF DOZEN IN A BOX

No. 944—1 blade, polished, 3⅞ in., stag handle, iron lined, length closed 4⅛ in. . . . . per dozen $24.00

HALF DOZEN IN A BOX

By pressing the button shown in bolster, the blade will fly open and become firmly locked in place. To close the blade it is necessary first to press the button.

No. 953—1 blade, polished, 3⅜ in., stag handle, iron lined, patented, self-adjusting, nickeled silver guard, length closed 4⅛ in. . . . . per dozen $32.40

HALF DOZEN IN A BOX

INK ERASERS

No. 681 CVB—2½ in., steel blade, crocus polished, 3⅜ in. genuine ebony handle, 3¼ in. sheath . . . . per dozen $7.00

HALF DOZEN IN A BOX

No. 14311—IXL, 2½ in. Wardlow's crucible steel blade, crucus polished, 4 in. genuine ebony handle, per dozen $18.00

HALF DOZEN IN A BOX

KNIFE PURSES

Fine imported smooth kid, silk stitching, with enameled button clasp.

Nos.	1RB	2RB	3RB	4RB	5RB
Length, in.	2⅛	2⅜	3¼	3⅝	4
Per dozen	$1.00	1.00	1.00	1.00	1.00

THREE DOZEN IN A BOX

Smooth kid, silk stitching with solid brass embossed CVB button clasp.

Nos.	1	2	3	4	5
Length, in.	2⅛	2⅜	3¼	3⅝	4
Per dozen	$1.00	1.00	1.00	1.00	1.00

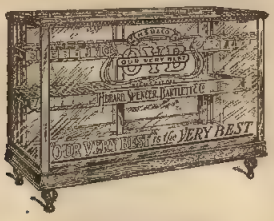
THREE DOZEN IN A BOX

CVB KNIFE PURSE ASSORTMENTS

No. 12 CVB—Assortment consists of 12 CVB knife purses, assorted sizes, on attractive stiff card, size 11¾x10 in., with easel back and hang up ring, per assortment $1.20

IMPROVED CUTLERY SHOW CASES

Prices on Application.



FLOOR DISPLAY CASES

Our FLOOR DISPLAY CASES FOR CUTLERY are thoroughly hand made from natural oak and are of NATURAL OAK FINISH, highly hand polished.

The top is ¼ in. bevel French plate glass laid in plush on green felt cushions, selected double strength glass front and ends and glass sliding dust-proof doors in the back that move on ball bearings and steel track.

The inside has 10 in. and 14 in. paneled oak shelves, the front edges of which are fitted with an oak lip extending ¼ in. above the shelf proper to prevent the goods from being pushed off the shelves, these shelves are supported by adjustable nickel plated brackets, cloth lined paneled bottom.

One of the latest improvements in these cases are the steel strength mitered joints, which means that the mitered joints in our cases are reinforced with steel, making the weakest part the strongest—this is a most important point to be considered.

Made either knockdown or set up and of standard measurements, 42 in. high, and 26 in. wide outside dimensions.

No. F905— 5 ft. long, free of charge with $ 800.00 worth of cutlery, shipping w't 285 lbs., value of case★ . . each *$160.00*

No. F906— 6 ft. long, free of charge with $ 900.00 worth of cutlery, shipping w't 325 lbs., value of case★ . . each *180.00*

No. F908— 8 ft. long, free of charge with $1200.00 worth of cutlery, shipping w't 400 lbs., value of case★ . . each *240.00*

No. F910—10 ft. long, free of charge with $1500.00 worth of cutlery, shipping w't 450 lbs., value of case★ . . each *300.00*

A FULL COMPLEMENT OF SILK PLUSH TOP CUTLERY BOXES GOES WITH EACH CASE GRATIS.

WHERE A CUSTOMER CANNOT BUY THE FULL AMOUNT OF CUTLERY AT ONE PURCHASE, but desires a Cutlery Show Case, we send same and CHARGE TO HIS ACCOUNT at prices noted, AND ON THE BOTTOM OF THE BILL WE PRINT THE FOLLOWING CONTRACT.

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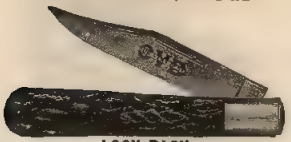
Not more than one show case to be furnished on these terms.

★ **Items Marked Thus ★ Are Shipped From Factory Only.**

POCKET KNIVES

OUR VERY BEST, FOLDING



LOCK BACK

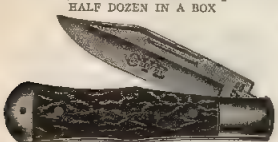
No. 143 —1 blade, full polished, 3⅝ in., stag handle, brass lined, length closed 4½ in. ....per dozen **$26.00**

HALF DOZEN IN A BOX

LOCK BACK

No. 156 —1 blade, half polished, 4½ in., stag handle, brass lined, length closed 5½ in. ....per dozen **$45.00**

HALF DOZEN IN A BOX



One blade, glazed, 4½ in. iron lined, length closed 5½ in.

No.	144
Handle	Cocoa
Bolster	Single
Per dozen	$23.00

HALF DOZEN IN A BOX

POCKET KNIFE KITS

Especially adapted for household mechanic and outing purposes.

No. 2762P —Consisting of 1 blade pocket knife, 1 screw driver, 1 chisel, 1 file, 1 reamer, 1 gimlet, 1 leather punch, which fit securely in special blank end of cocobola handle, iron lined, length of pocket knife ⅞ in., tools packed in neat tan leather case, size closed 4½x3¾x⅞ in., w't per doz. 5 lbs. .....per dozen **$24.00**

HALF DOZEN IN A BOX

PRESS BUTTON, FOLDING

No. 943—1 blade, polished, 3 in., stag handle, iron lined, length closed 4 in. .....per dozen **$21.60**

HALF DOZEN IN A BOX

No. 944—1 blade, polished, 3⅞ in., stag handle, iron lined, length closed 4⅝ in. .....per dozen **$24.00**

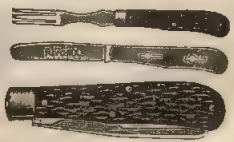
HALF DOZEN IN A BOX

By pressing the button shown in bolster, the blade will fly open and become firmly locked in place. To close the blade it is necessary first to press the button.

No. 953—1 blade, polished, 3⅞ in., stag handle, iron lined, patented, self-adjusting, nickeled silver guard, length closed 4⅝ in. .....per dozen **$32.40**

HALF DOZEN IN A BOX

CAMPING KNIFE, FORK AND SPOON



The above knives are ideal knives for campers and picnicers. Through an ingenious placing of slots in the linings the user can instantly take the knives apart in sections. Each section joins and open like an ordinary pocket knife.

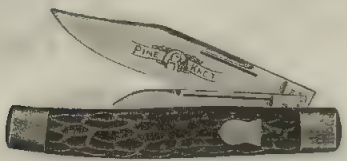
No. 2733 —2 pieces, finest qualitiy English crucible steel knife and fork, stag handle, brass lined, length 4 in. closed .....per dozen **$24.00**

POCKET KNIVES

—PINE KNOT—

Brass lining; nickel silver cap, bolster and shield; half polished; 3⅞ inches long.

	Per Dozen
No. 235S Stag handle	$36 00



Brass lining; nickel silver cap, bolster and shield; 3⅞ inches long.

	Per Dozen
No. 238S Stag handle	$36 00

Stag handle; brass lining; steel bolster and cap; nickel silver shield; half polished; 4½ inches long.

	Per Dozen
No. 251CS—With clip blade, as illustrated	$36 00
No. 251SS—With spear blade, instead of clip blade	36 00

PUSH BUTTON

Push button; brass lining; highly glazed; 3⅝ ins. long.

	Per Dozen
No. 100—Patent stag handle	$36 00

All of the above knives packed half dozen in an attractive cardboard box.

POCKET KNIVES

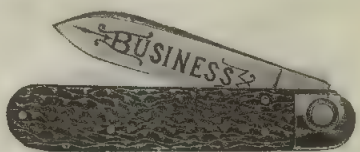
PUSH BUTTON

Push button; brass lining; highly glazed; 3⅝ ins. long.

	Per Dozen
No. 110—Nickel silver handle	$36 00

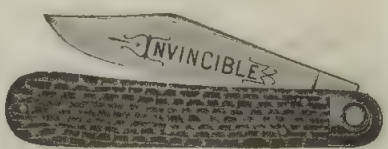
Push button; brass lining; highly glazed; 2⅞ inches long.

	Per Dozen
No. 300 —Stag handle	$36 00



Push button; iron lining; nickel silver bolsters; highly glazed; 4 inches long.

	Per Dozen
No. 500 —Patent stag handle, spear blade	$40 50
No. 510—Patent stag handle, clip blade	40 50



Push button; iron lining; nickel silver bolster; highly glazed and etched; 5 inches long.

	Per Dozen
No. 1000 —Patent stag handle, clip blade	$45 00
No. 1100—Patent stag handle, spear blade	45 00

All of above knives packed half dozen in an attractive cardboard box.

FIRE EXTINGUISHERS, PRIMERS AND CAR HEATERS

PYRENE FIRE EXTINGUISHERS

With Bracket

Approved and Labeled by the Underwriters' Laboratories

Pyrene Fire Extinguishers are the safest and most efficient type for electrical and all fires starting in oil, gasoline, shellac, paints or other highly inflammable substances. Water only spreads oil fires and it is dangerous to use water on an electrical fire.

In Metal Box

Insurance companies recognize the value of Pyrene and grant a 15 per cent deduction in automobile fire insurance when cars are equipped with Pyrene. The law requires and safety demands that motor boats carry fire extinguishers

Employees need no instruction to use Pyrene. It is efficient in the hands of a woman or a ten year old boy

Pyrene will injure nothing, stain nothing, destroy nothing, but it will kill fire from any cause, and it will do it instantly

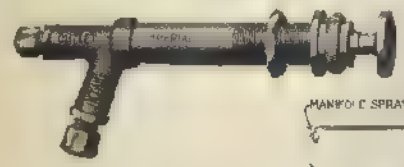
Liquid

Pyrene liquid does not lose its strength or deteriorate with age, and does not require recharging unless used. It will not freeze below zero

Approved and labeled by the Underwriters' Laboratories

Pyrene with Bracket . . . . . Each $10 00
Pyrene with Metal Box, Heavy Type . . Each 14 00
Pyrene with Metal Box, Light Type . . . Each 13 00
Pyrene Liquid . . . . . Per qt. 1 75

IMPERIAL PRIMER



Standard Installation

The Imperial Primer is a simple, easily-installed plunger pump outfit that throws a rich spray of vaporized, FIREABLE gasoline into the manifold near the entrance to the cylinders thus enabling the engine to be started on the FIRST turnover, no matter how cold the weather

Each outfit includes new self-closing plunger pump, only two kinds of outfits are required to fit all makes of cars See listing below.

All outfits are packed in a handsome Counter Display Carton, containing two Ford and two Standard Primer Outfits, which will help you double your sales on this popular device. Weight of carton is 5¾ lbs

No. 58-D—Primer Outfits, complete for all makes of cars . . . . . Each $4 75
No. 59-D—Primer Outfits, complete for Ford cars only . . . . . Each 4.00

UTILITY PROTECTED HEATER

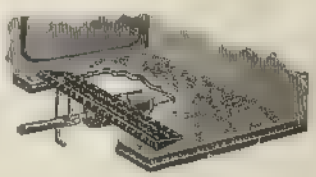
Utility heaters take heat from exhaust pipe thru flexible metal tube; can be used in any type of car; heat may be regulated as desired; with handy regulating valve. Is simple, practical and reliable; cannot get out of order

Three sizes of fittings furnished. Medium size fits 90 per cent of cars.

Small Fitting—For exhaust pipes less than 2 in. diam.
Medium Fitting—For exhaust pipes from 2 in. to 2½ in. diam
Large Fitting—For exhaust pipes over 2½ in. diam

No. 1—Utility Protected Heater; 27 in. long, Nickel finish; wgt. 14 lbs . . . . . Each $20 00
No. 2—Utility Front Seat Heater, Nickel finish; 17 in. long; wgt. 10¼ lbs . . . . . Each 12 50
No. 3—Utility Heater; same as No. 2 except black finish . . . . . Each 10 00

THE SANITARY HEATER



Easily installed by drilling two holes through the floor board and one into the exhaust pipe; adjustable to any degree of heat; can be put in front or rear or both; in the operation there is no noise, no oder, no loss of engine power and no back pressure on your motor; makes the car comfortable—there is rarely any question of obtaining sufficient heat, it is usually a matter of properly controlling an abundant supply.

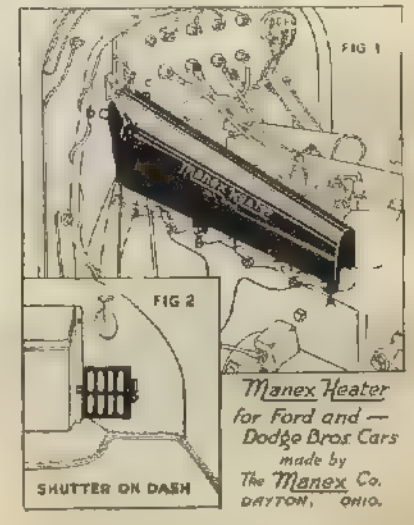
The Sanitary Heater (For Fords) . . . Each $5 00

MANEX HEATER

For Fords

Clamped over exhaust manifold so as to catch all radiating heat. No screws—no parts—no rattle. So designed as to eliminate discomfort from fumes, odors and dust. Can be installed in thirty minutes removed in five. A pattern furnished with each heater shows exact details of installation.

Manex Heaters Each. . . . $3 00



MISCELLANEOUS SUPPLIES

PROTEXALL OVERALL SUIT

No. 116

Made of strong, washable khaki material. Loose fitting with continuous front opening. Two button wide cuff with loose and tight adjustment. Plenty of pocket room. Double stitching throughout—double strength

No. 116—38-40-42-44 .... Each $5 00
No. 116—Size 46 .... Each 5 25
No. 116—Size 48.... Each 5 50

No. 146

A special service suit, made of heavy army duck—same as used by the Government in shelter tents—in khaki color—same style as the No. 116. This material is extra long wearing and shrinks very little

No. 146—up to and including 38-40-42-44 .... Each $6 00
No. 146—Size 46 .... Each 6 25
No. 146—Size 48. .... Each 6 50

CHARGE FOR LETTERING PROTEXALL SUITS

Embroidered Letters

Extra charge for lettering Suiting Protexall, 12 letters or less, 50 cents per garment. Each additional letter, 3 cents. No orders filled for over 24 letters.

Embroidery work on back of suit only. For similar work on front of suit add 10 cents per garment. Only short words or monograms can be put on front space

KENNEDY AUTO COVERS

The Kennedy Cover is made of heavy, durable paper securely reinforced to prevent tearing and completely covers the car. This protects the car from dust, cold and moisture. It also protects the tires and preserves the life of the rubber by excluding the light

7 passenger size.... Each $3 60
5 passenger size.... Each 3 00
Ford .... Each 2 50

TRAILER HITCHES

No. 9152

No 9152 for Ford. 10-in. C. of spring bar to C. of pin. 4¾ in. C. of pin to end of trailer tongue. 2¼ in. between trailer tongue jaws

No 9152 Trailer Hitch .... Per set $3 00

No. 9155 to attach to cross member of frame. 1¼ x 8 in. cross bar bearing. 4 in. cross bar to C. of pin. 4¼ in. C. of pin to end of trailer tongue. 2¼ in. between tongue jaws

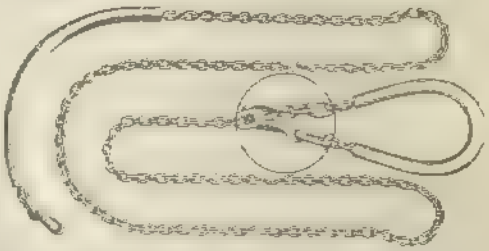
No. 9155—Trailer Hitch Per set 2 75

AMERICAN AUTO TOW CABLE

Made of galvanized flexible steel American wire rope with forged double hooks and manila loops for attaching to car. Length, 25 feet. Ample strength for ordinary car towing Can be doubled for trucks. Packed in a handy sack.

American Auto Tow Cable .... Each $8 00

AMERICAN WELDED TOWING CHAIN



Chain is 18 feet long. Made of heavy electric welded coil chain with a special grab hook at each end. At each end there is always a good grade white canvas covering which prevents scratching when chain is attached to car.

Chain has a tensile strength of approximately two tons. Packed one chain in a canvas bag and take up but little room in the tool box. Weight, 12 pounds. Galvanized finish.

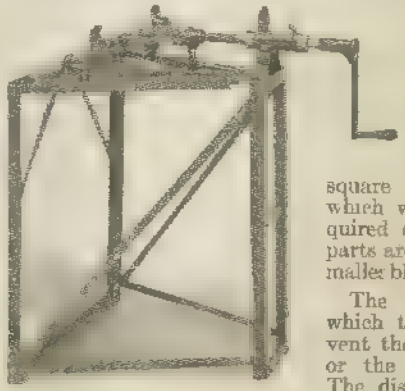
No. 2800—American Welded Towing Chain. Each $5 00

AMERICAN EXTRA HEAVY TOWING CHAIN

For Medium Sized Cars

No. 2801—Breaking strain 8,000 lbs.. Each $ 9 00
No. 2802—Breaking strain 10,000 lbs.. Each 10 00
No. 2803—Breaking strain 15,000 lbs.. Each 11 00
No. 2804—Breaking strain 20,000 lbs.. Each 13 00

LITTLE GIANT SPLIT RIM TOOL



Is designed to handle the most difficult tasks in expanding and contracting **all kinds and sizes** of Split Rims. A one-inch spindle with a square thread is provided which will do the work required of it. The gripping parts are made of high-grade malleable iron.

The tracks or slides in which the arms travel prevent the tool from buckling or the arms from sliding. The distance between gripping points are equal at all times. This prevents damaged or sprung rims

Little Giant Rim Tool; with stand Each $30 00
Little Giant Rim Tool; less stand Each 18 00

REVONOC FIRE EXTINGUISHERS

REVONOC Fire Extinguishers are examined, approved and labeled under direction of National Board of Fire Underwriters.

The chemical charge consists of 1¼ lbs. bicarbonate of soda and 4 oz. of sulphuric acid, which can be obtained at any drug store. The soda is to be dissolved in about three gallons of water. The acid is retained in the bottle and held in the bottle holder from the top of the extinguisher. In use the extinguisher is turned bottom side up. This allows the acid to mix with the soda solution, creating a very powerful gas with a pressure sufficient to throw the chemical stream 50 feet.

This stream as a fire fighter is fifty times as effective as plain water.

Extinguishers of this type will freeze at 32 degrees Fahrenheit, and should not be kept in an unheated room in winter.

No. R3 REVONOC—Approved, 3 gal., made of special cold rolled Lake Superior copper, all seams hard riveted, solder sweated and lead filled, entire inside lead lined, top collar and cap of best steam brass carefully fitted by expert workmen, patent removable brass bottle holder, improved goose-neck, hose connection, extra heavy, chemically treated hose with solid lead nozzle, tested 250 lbs., hydrostatic pressure, packed complete in box with acid and soda for one charge, w't each 23 lbs., per dozen $324.00

HAND FIRE PUMPS

The Geyser uses plain water to which salt may be added in winter to keep from freezing.

No. R25D—Geyser, capacity 5 gallons, made of No. 26 gauge galvanized iron, double action pump throws a stream 40 to 50 feet, w't each 12½ lb., dozen $132.00

ONE IN A CRATE

PYRENE FIRE EXTINGUISHERS

Prices on Application

Pyrene Liquid contains neither acid, alkali salts, no moisture, will not stain or injure anything with which it may come in contact. Will not freeze at a temperature of 50 degrees F. below zero. The device in which Pyrene is used is a double-acting pump easily operated by hand, capacity one quart, made of brass and white metal throughout.

When Pyrene liquid is subjected to a temperature of 200 degrees F. or over, it is immediately transformed into a heavy, dry cohering, non-poisonous gas blanket, which surrounds the burning material, cutting off the air supply necessary for the life of the fire. Can easily be used by a woman or child. It is practical for home, factory, automobile or motor boat.

No. 101—Brass, with wall bracket, w't each 6 lbs., per dozen $120.00

No. 102—Nickel, with wall bracket, w't each 6 lbs., per dozen $126.00

ONE IN A CARTON

LIQUID

Quart Cans.
No. 103— per dozen $18.00

Gallon Cans.
No. 104— per dozen $72.00

LOOSE

PORTABLE LAMP GUARDS

STANDARD

For 60 Watt Lamp, with Porcelain Keyless Socket Rigidly Embedded in Handle.

No. 4673E—Per dozen $50.40

ONE IN A CARTON; W'T 2¼ LBS.

CRESCENT

For 40 watt lamp without socket.

No. 4645E—Per dozen $32.40

No socket is supplied with this guard but any ¾ in. standard brass shell socket can be used.

ONE IN A CARTON; W'T 1 LB.

AUTOMATIC EXTENSION REEL

Recommended for use in factories, machine shops, garages and other places where an extension lamp is required, and can be used in connection with electric drills, grinders, etc.

No. 77E—Metal, japanned, diam. 9 in., width 2 in., equipped with 25 ft. of reinforced packing-house cord, socket handle and lamp guard, **no globe.** Head is provided with swivel joint, enabling the lamp to be carried in any direction from the reel, while an automatic lock permits a positive stop at any desired joint, w't 10 lbs., each $26.00

ONE IN A CARTON

P. & W. MACLELLAN, LTD., GLASGOW.

Contractors to the British Admiralty, War Office, Indian and Colonial Governments;

Railway Engineers; Wagon & Carriage Builders, & Accessories; Constructional Engineers; Builders of Bridges, Jetties, & Steel Work for Buildings.

Fournisseurs de l'Amirauté et des Ministères de la Guerre, des Indes et des Colonies Britanniques;

Constructeurs d'Équipement Complet pour Chemins de Fer: Voitures, Wagons et Accessoires; Entrepreneurs de Constructions Métalliques, Ponts, Jetées et de tout Matériel en Fer et en Acier.

Contractores del Almirantazgo y de los Ministerios de la Guerra, de las Indias y de las Colonias Británicas;

Constructores del Equipo Completo para Ferrocarriles Coches, Vagones y Accesorios Fabricantes de Construcciones Metálicas Puentes, Muelles y de todo Material de Hierro de Acero etc

CODES:

A.B.C. 4th & 5th Edns.;

A1;

Lieber's;

Western Union;

Engineering.

Covered Goods Wagon for British War Office, capacity 22 Tons.

Wagon de Marchandises Couvert, d'une Capacité de 22 Tonnes, construit pour le Ministère de la Guerre Britannique.

Vagon de Mercancías Cubierto de una capacidad de 22 Toneladas, construido para el Ministerio de la Guerra Británico.

Bengal-Nagpur Railway
50-Ton Hopper Wagon.

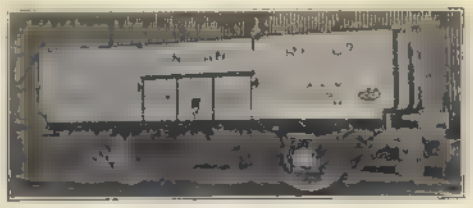
Wagon-Trémie, d'une Capacité de 50 Tonnes, construit pour les Chemins de Fer Bengale Nagpur.

Vagón-Tolva, de una capacidad de 50 Toneladas, construido para los Ferrocarriles de Bengal-Nagpur

Steel Wharves at Puerto Mexico.

Embarcadères Metalliques construits à Puerto Mexique.

Muelles Metálicos construidos en Puerto Mejico



South Indian Railway
Open Goods Wagon, capacity 23 Tons.

Wagon de Marchandises Ouvert, d'une Capacité de 23 Tonnes, construit pour les Chemins de Fer des Indes Meridionales

Vagon de Mercancías Abierto, de una capacidad de 23 Toneladas, construido para los Ferrocarriles de las Indias Meridionales

Head Office: 129, TRONGATE, GLASGOW.
Telegrams: "MACLELLAN, GLASGOW."

London Office: 108a, CANNON STREET, E.C.
Telegrams: "MACLELLAN, CANNON, LONDON."

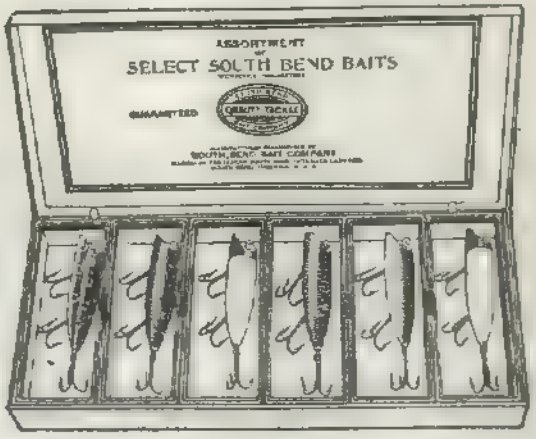
BAIT ASSORTMENTS AND DISPLAY STANDS

Extremely attractive display, made of substantial cardboard, printed in three colors. The design and illustration are commanding of attention and interest. Size set up 6 in. deep, 11 in. wide and 13 in. high.

No. 370—Assortment consisting of—Two each No. 973 Bass-Oreno (wobbler) baits of the popular colors; scale with red blend, scale; white body and red head, w't per assortment 1¾ lbs. .....per assortment $6.80

ONE ASSORTMENT IN A BOX

BAIT ASSORTMENTS AND DISPLAY BOXES



Very neat and compact. Does not consume much space nor obstruct the full use of the top of your display cases. Size is 14×6¼×1⅜ inches. Goldenrod yellow colored box with attractive red and black printing. Has six compartments, each holding an individual box of one bait.

No. 382—Assortment consisting of—One each No. 973 Bass-Oreno (Wobbler) baits in selected popular colors; scale with red blend; scale finish; frog; rainbow; red head white body; red head aluminum color body, w't per assortment 1 lb. .....per assortment $6.80

ONE ASSORTMENT IN A BOX

ORENO DISPLAY CARD

Unusually attractive, it shows six famous ORENO fish getters of red head, white body color, neatly mounted on golden-rod-yellow cardboard, printed in red and black.

Cardboard is of good heavy quality and has an easel back which permits the display to stand on show cases or in the window. The size is 10 in. high by 14 in. wide. Each bait is fastened securely but can easily be removed.

No. 374 ORENO DISPLAY CARD includes one each of the following baits:

No. 970RH—Fly-Oreno
No. 971RH—Table-Oreno
No. 972RH—Babe-Oreno
No. 973RH—Bass-Oreno
No. 976RH—Musk-Oreno
No. 978RH—Troll-Oreno

No. 374—Oreno Display complete ..per assortment $8.00

ONE ASSORTMENT IN A BOX

SOUTH BEND WOBBLING TYPE BAITS

FLY ORENO

For use with a fly-rod, including the lighest kind without any danger of straining the rod. For trout and other game fish. Constructed along the same lines and having the same wobbling, zig-zagging and diving action in the water as the other Oreno baits. This lure preferably should be used in conjunction with a four foot gut leader.

Body is 1⅛ in. long. Equipped with one No. 9 bronzed hollow point, double hook, easily detached for reversing.

	Per Doz.
No. 970RH—Red head and white body	$7.80
No. 970Y—Yellow body with green and red spotted decorations	7.80
No. 970R—Solid red color with black nose	7.80
No. 970W—White body with red and green spotted decorations	7.80
No. 970RAIN—Rainbow color	7.80
No. 970F—Imitation frog color	7.80
No. 960RHA—Red head and aluminum color body	7.80
No. 970SF—Scale finish	7.80
No. 970BH—Blue head and white body	7.80
No. 970RSF—Scale finish with red blend	7.80
No. 970G—Gold finish with red head	7.80
No. 970LUM—Nit-luming finish	7.80

ONE DOZEN IN A BOX

TROUT-ORENO

Designed primarily for fly-rod fishing, however is also successfully used with light bait rod for Bass and other game fish, as well as Trout. This lure preferably should be used in conjunction with a four foot gut leader

Body is 1⅛ in. long. Equipped with one double hook No. 4, bronzed, hollow point, easily detached for reversing.

	Per Doz.
No. 971RH—Red head and white body	$7.80
No. 971Y—Yellow body with green and red spotted decorations	7.80
No. 971R—Solid red color with black nose	7.80
No. 971W—White body with red and green spotted decorations	7.80
No. 971RAIN—Rainbow color	7.80
No. 971F—Imitation frog color	7.80
No. 971RHA—Red head and aluminum color body	7.80
No. 971SF—Scale finish	7.80
No. 971BH—Blue head and white body	7.80
No. 971RSF—Scale finish with red blend	7.80
No. 971G—Gold finish with red head	7.80
No. 971LUM—Nite-luming finish	7.80

ONE DOZEN IN A BOX

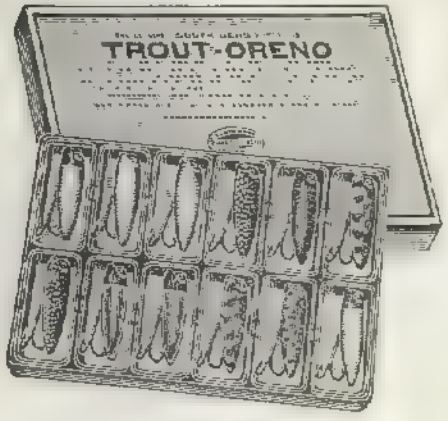
FLY-ORENO ASSORTMENT

This assortment of one each of twelve standard colors of Fly-Oreno baits is furnished in a neat pocket size box. Box size is 3⅝x2⅝x½ in.

No. 380—Per assortment $7.80

ONE ASSORTMENT IN A BOX

TROUT-ORENO ASSORTMENT



A neat compact coat pocket size box, containing one each of the twelve standard colors of the No. 971 Trout-Oreno Baits. Each bait is in a separate compartment. Box size is 6x4½x⅝ in.

No. 381—Per assortment $7.80

ONE ASSORTMENT IN A BOX

MINNOWS

STANDARD PATTERN

2¾ in. body, three extra strong Dowagiac nickel plated treble hooks, w't ⅝ oz.

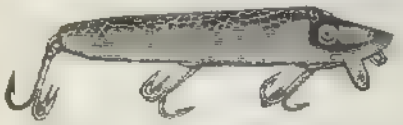
No. 100—Fancy .....per doz. $15.20
No. 101—Rainbow ..per doz. 15.20
No. 104—Red .....per doz. 15.20
No. 109A—Yellow Perch, per dozen 15.20
No. 109B—Frog Finish, per dozen 15.20

3¼ in. body, five extra strong dowagiac nickel plated treble hooks, w't ⅝ oz.

No. 150—Fancy .....per doz. $16.00
No. 151—Rainbow ..per doz. 16.00
No. 152—White ....per doz. 16.00
No. 154—Red .....per doz. 16.00
No. 159A—Yellow Perch, per dozen 16.00
No. 159B—Frog Finish, per dozen 16.00
No. 159D—Scale Finish, per dozen 16.00

ONE IN A BOX

VAMPIRE



Flat-nosed to resemble the baby pike and beautifully enameled in natural fish colors. Look more like a real live minnow than any bait manufactured. Three treble gangs of sharp barbs make it a deadly hooker. A wonder for Pike and all game fish. Length 4½ in., w't ⅝ oz.

No. 7500S—White body, red and green spots ....per doz. $16.00
No. 7501—Rainbow ..per doz. 16.00
No. 7502—White body, red eyes and tail .....per doz. 16.00
No. 7509D—Green scale finish, per dozen 16.00
No. 7509M—New pike scale, per dozen 16.00
No. 7509P—Shiner scale finish .....per dozen 16.00

ONE IN A BOX

DEEP-O-DIVER

Specially designed to dive very deep, where Bass are found in midsummer in Northern lakes. Does not float. Good for stream fishing. 2½ in. long, one double hook, w't ⅝ oz.

No. 7002—White body, red per dozen $16.00
No. 7009D—Natural Scale finish .....per dozen 16 00
No. 7009E—White body, greenish black spots .....per dozen 16.00
No. 7009H—Scale finish, red, per dozen 16.00
No. 7009J—Frog Scale finish, per dozen 16.00

ONE IN A BOX

BABY CRAB WIGGLER

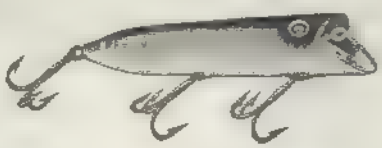
This bait is painted in close resemblance to a fresh water crab or crawfish, floats when not in motion, dives under water when retrieved, the movement being a pronounced wiggle, simulating movement of crab when moving backwards, away from danger; bait is drawn through water tail first. Has patented variable line fishing device to regulate action of bait. Is a floating, diving, darting minnow.

3¾ in. body, two nickel plated treble hooks w't ⅝ oz.

	Per doz.
No. 1900—Fancy green back..	$16.00
No. 1900S—White body, red and green spotted effect	16.00
No. 1901—Rainbow	16.00
No. 1902—White with red head	16.00
No. 1909A—Yellow Perch	16.00
No. 1909B—Imitation Frog ..	16.00
No. 1909C—Imitation Crab ...	16.00
No. 1909D—Scale Finish	16.00

ONE IN A BOX

HEAD-ON-BASSER



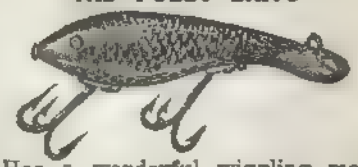
Possesses certain subtle improvements in balance, stream outline and had-planes that intensify the erratic swimming movements associated with baits of similar type.

Casts straight and true and floats on the surface until retrieved. Under the line pull, it drops to an average depth of 18 inches below the surface, and comes in with an undulating, weaving motion, interrupted by short, quick darts that excite the curiosity of any bass in the vicinity. Equipped with three treble hooks. Length overall 3¾ in., w't ⅝ oz.

No. 8502—White body, red head .....per doz. $13.60
No. 8509D—Green scale finish, per dozen 13.60
No. 8509K—Red scale finish, per dozen 13.60
No. 8509J—Frog scale finish, per dozen 13.60
No. 8509K—Gold fish scale, per dozen 13.60
No. 8509L—Yellow perch scale, per dozen 13.60
No. 8509P—Shiner, scale finish .....per dozen 13.60

ONE IN A BOX

TAD POLLY BAITS



Has a wonderful wiggling movement in the water, dives and runs rather deep when retrieved, floats when at rest, one of the most popular Heddon Baits.

3⅞ in. long, w't ⅜ oz., two treble hooks.

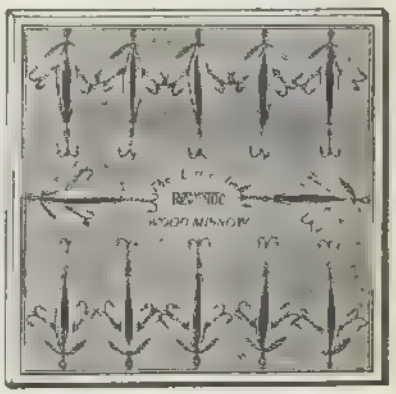
No. 5000—Fancy green back..$16.00
No. 5000S—White spotted 16.00
No. 5001—Rainbow 16 00
No. 5002—White body, red head 16 00
No. 5009A—Yellow Perch 16.00
No. 5009B—Frog 16.00
No. 5009D—Scale finish, natural green 16 00
No. 5009H—Scale finish 16.00

4⅜ in. long, w't ⅝ oz., two treble hooks.

No. 6009D—Scale finish natural green .....per dozen 16.00

ONE IN A BOX

REVONOC LITTLE IMP ASSORTMENTS



No. 33X REVONOC—Assorted green back, yellow belly and green back, white belly, three treble hooks, wood body 2½ in. long, w't about 1 oz. each minnow, 12 on a card, per card $4.50

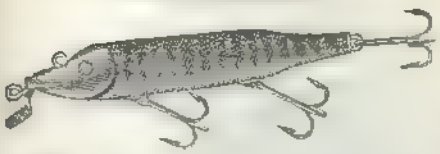
PHANTOM

Highly polished metal head, all silk body, covered with waterproof varnish, mounted on brass box swivel and spring steel treble hooks.

Nos.	02	03	04
Length, in.	2½	3	3½
Weight, lbs.	½	¾	1
Per dozen	$9.00	9 00	9 90
Nos.	**05**	**06**	**07**
Length, in.	3½	4	4½
Weight, lbs.	1	1	1½
Per dozen	$9 70	11 20	12.80

ONE ON A CARD IN A BOX
HALF DOZEN IN A CARTON

PIKIE MINNOWS



The new Nature Lure so closely imitates the pike minow in shape, color and movement that the combativeness of the bass is aroused and they strike it to kill.

Gives best results when reeled slow but does not revolve if reeled fast. It's a near surface wiggler, or by turning up the screweye a few turns and reversing the mouthpiece you have a surface splatter.

Slim body 4½ in. long; weight ¾ oz.; rust-proof bronze hooks to blend with color of body; all hooks including the tail hooks set in sockets to hold same away from the body.

No. 700—Scale finish,
Per dozen.

No. 701—White, blue head ..$16.00
No. 704—Natural chub 15 20
No. 705—Green back, scale finish 15.20
No. 706—Yellow shiner 15.20

BABY PIKE

Thoroughbred from the Famous Pikie Minnow.

This lure 3¾ in. long is a smaller bait than the now famous Pikie Minnow, which has been making the record catches of game fish in every part of the country. It has a wicked wiggle and all the good qualities of the larger lure. A light, strong killer.

No. 900—Natural Pikie, per dozen $15 20

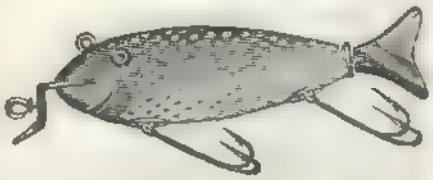
CRAWDAD NATURAL CRABS

Natural shaped body and tail, black bead eyes, rubber legs, bronze hooks, movement backwards, same as a crab. Wiggle mostly in tail. Rubber legs give more movement. ONLY BAIT WITHOUT NICKEL PLATE; fine for use on bright days, in clear water and along stony shores.

Floats until started. Tail guards hooks from snags and bottom. Length of body 2⅝ in.; w't ¾ oz. Casts like a bullet.

No. 300—Shell finish,
per dozen $12.60

CHUB WIGGLERS



DE LUXE WAG TAIL

A bait which apparently swims with its tail. Looks like a live minnow, swims like one and is a Real Fish Getter. Has a nickel plated tail which swings back and forth as the bait travels through the water, and the flash of the nickel makes a more attractive lure. Body 2¾ in. long, w't ½ ounce, double hooks so placed that the fish get hooked when striking and at the same time the bait is practically weedless.

No. 800—Natural Creek Chub, scale finish .....per dozen $16.00

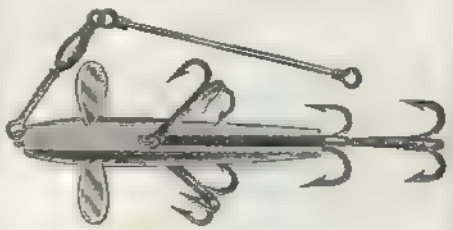
Always floats when at rest. Does not revolve. Practically weedless.

Per dozen.

No. 801—White, blue head ...$15.20
No. 804—Natural chub 15.20
No. 806—Yellow shiner 15.20

ONE IN A BOX

PFLUEGER DEVON MINNOWS



BREAKLESS

The spring brass wire frame permits of quick attaching or detaching of the hooks which might have become broken or damaged and also changing of one size hook for another. With this device there is no fraying of the gut or gimp mounts as formerly used and is practically indestructible. Extra strong best quality treble hooks, bright nickel plated, brass barrel swivels and bronze wire leaders bright nickel plated.

No. 289—

Sizes	3	4	5
Per dozen	$10.60	12.00	12.00

ONE IN A BOX

TANGO

TANGO, 5 IN. BODY, W.T ⅝ OZ.

Per Dozen.

No. 652—White, red head ...$13.60
No. 653—White, yellow and green mottled back 13.60
No. 654—White, red and green mottled back 13.60

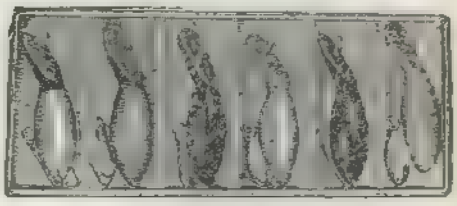
TANGO Jr., 4 IN. BODY, W'T 11-16 OZ.

Hooks behind body of bait, makes practically a weedless bait.

Per Dozen.

No. 662—White, red head ...$13.60
No. 663—White, yellow and green mottled back $13.60

TROUTANGO BAITS



The popular Tango Bait in Trout size, 1¾ in. long, has the wiggle and life-like action of the rest of the Tango family. A fly-rod bait.

No. 683—Assorted as follows—**black, red, white with red head, gold finish, silver finish, yellow, with red head,**
per assortment (of six baits) $6.00

No. 684—2 only—White with red head and 4 only—yellow with red head,
per assortment (of six baits) $6.00

R. & W. HAWTHORN, LESLIE & Co. LTD.

LOCOMOTIVE MANUFACTURERS

Forth Banks Works

NEWCASTLE-UPON-TYNE.

ESTABLISHED 1817.

Telegraphic Address.—
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LOCOMOTIVES OF EVERY DESCRIPTION FOR MAIN AND BRANCH LINES AT HOME OR ABROAD.

INDUSTRIAL LOCOMOTIVES FOR ALL PURPOSES.

PATENT COMBINED CRANE LOCOMOTIVES.

FIRELESS, INTERNAL COMBUSTION and ELECTRIC LOCOMOTIVES, Etc.

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DARLINGTON,

ENGLAND.

Telegraphic Address:
"ALLIANCE, DARLINGTON."

National Telephone:
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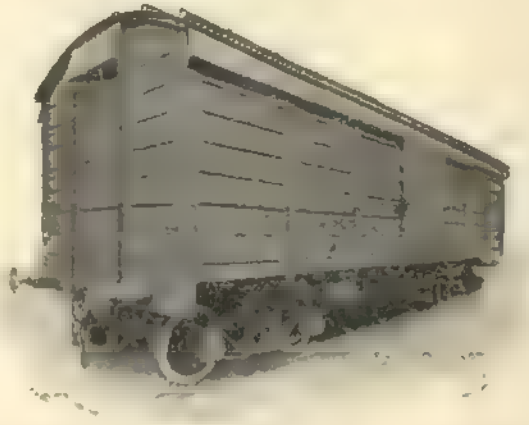
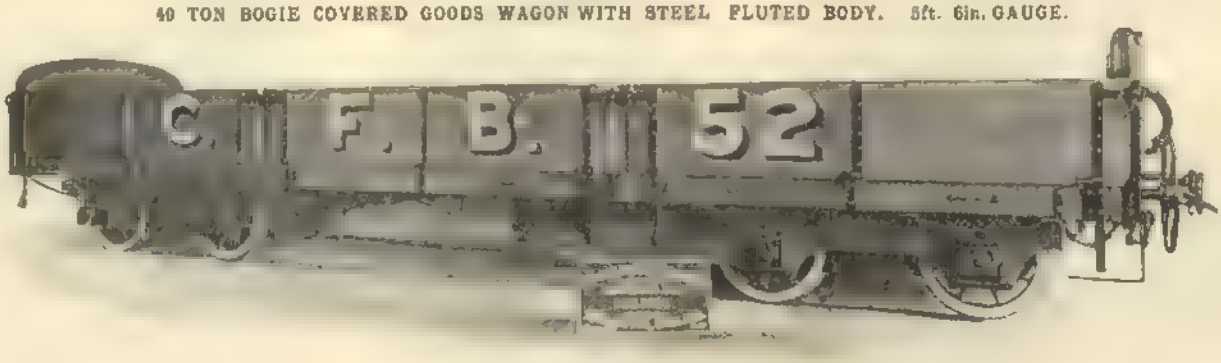
BLAKE PATENT
VERTICAL
MULTITUBULAR
BOILERS
FOR
LAND, MARINE,
AND
GENERAL
PURPOSES.
(See Boiler Section.)

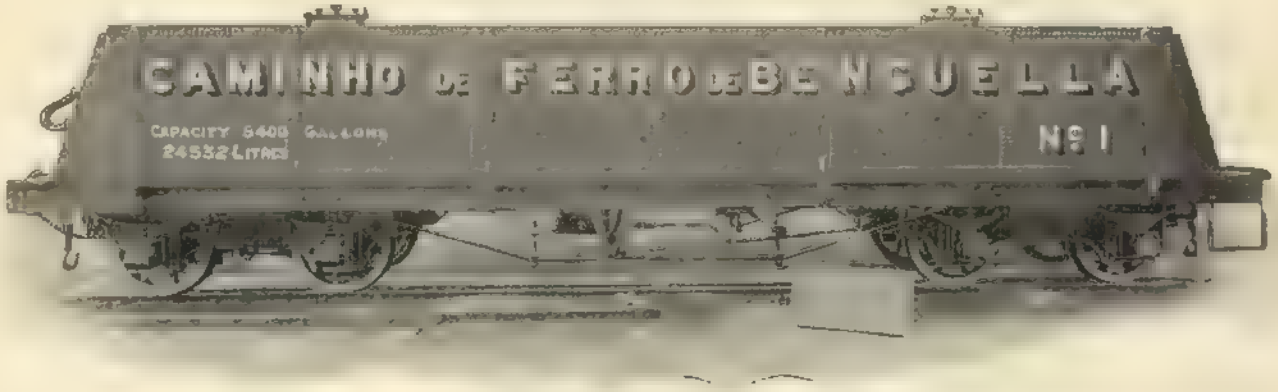


HIGH CAPACITY
STEEL RAILWAY
WAGONS,
Railway
Wheels and Axles,
Pressed Steelwork,
Drop Stampings,
and
General Smithwork.

UX
40 TON BOGIE COVERED GOODS WAGON WITH STEEL FLUTED BODY. 5ft. 6in. GAUGE.



ISA
25 TON BOGIE LOW-SIDED GOODS WAGON. 3ft. 6in. GAUGE.



IPE
5,400 GALLONS BOGIE TANK WAGON. 3ft. 6in. GAUGE.

Accessoires "Sun" pour Eclairage Electrique.

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The Fittings Illustrated are representative of our manufactures and have been supplied to leading Railway Companies in all parts of the world. Full particulars of complete range will be forwarded on application.

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Prices are for fittings only, with holders. Shades extra except for S.C. 1 and 2.

No.	Code.	Sizes.	Polished Brass	Oxidised Copper.	Oxidised Silver					
S.C. 1.	AC	One light. Back Plate 7" diameter. Complete with Globe	21/-	22	24/-					
S.C. 2.	PE	As S.C. 1 but two light	36/-	37/-	39/-					
S.C. 8	IB	Back Plate 4½" diameter	10/6	12/-	14/-	13/15	15	17/90	10/6	12/-
S.C. 10	OD	Back Plate 4½", Projection to Gallery 6"	22/6	25/6	28/6	28/15	31/90	33/65	22/6	25/6	28/6
S.C. 13	SA	Back Plate 2 3, Projection 4½	10/6	12/-	14					
S.C. 14	UX	Back Plate 4½" × 1½", Projection overall 9½"	31/-	34/-	28/-	30/25	30	35	27/-	24/-	28/-
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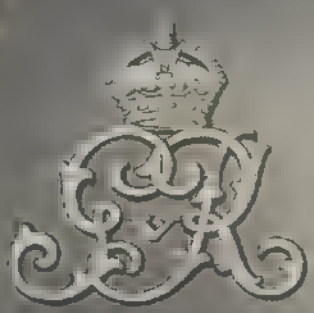

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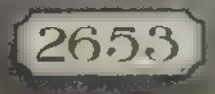

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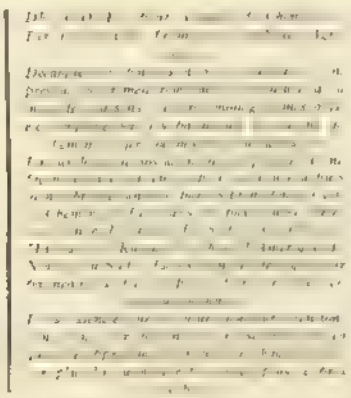

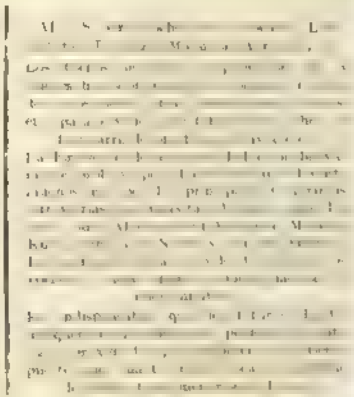

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No. 24 —4 tubes, drop forged tool steel, polished, knurled handles, tubes and spring straw color, sizes 4, 6, 8 and 10, length 9 in., w't per doz. 10 lbs. .....per dozen $18.00

No. 10—Tubes for No. 24, per dozen $2.80

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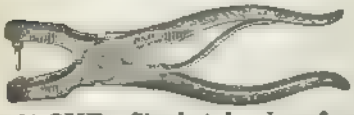
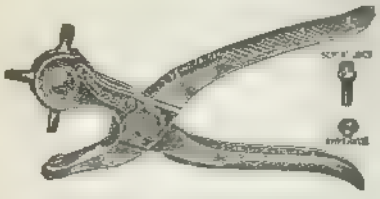


No. 21 —Single tube, drop forged tool steel, polished, knurled handles, tube and spring straw color, assorted sizes, length 9 in., w't per doz. 8 lbs., per dozen $13.00

HALF DOZEN IN A BOX



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Full nickel plated, knurled handles. Best quality assorted screw tubes, crucible sheet steel frame, light, strong and durable.

Nos.	284	286
Length, in.	8	8
No of Tubes	4	6
W't, doz., lbs.	9	9½
Per dozen	$20 00	24.00

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PARAGON

Single tube, full nickel plated, knurled handle, best quality screw tubes, assorted sizes, crucible sheet steel frame. Light, strong and durable.

No. 281—Length 8 in., w't per doz. 5½ lbs. ....per dozen $10.00

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No. 384—4 tube, w't per doz., 7 lbs., per dozen $14.40

No. 386—6 tube, w't per doz. 8 lbs., per dozen $18.40

No. 40—Tubes for No. 384, per dozen $2.50

ONE IN A BOX

Cast steel, polished, sizes 4, 6, 8 and 10, length 9 in.

Nos.	4	6
No of tubes	4	6
W't, doz., lbs.	8	10
Per dozen	$15.00	19.00

No. 30—Tubes for Nos. 4 and 6, per dozen $2.50

HALF DOZEN IN A BOX

No. 544—Single tube, cast steel polished, assorted sizes from 3 to 9 length 7½ in., w't per doz. 5½ lbs., per dozen $10.00

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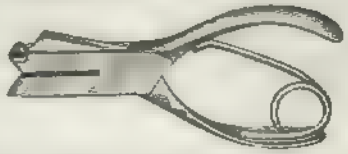

No. 38—Nickel plated, fancy holes, **assorted,** length 5¼ in., w't per doz. 3 lbs. .....per dozen $26.00

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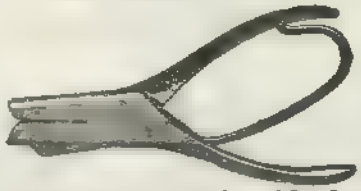
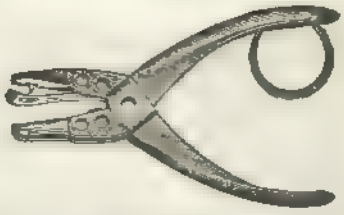


No 120—Nickel plated, with fancy holes, assorted, length 4½ in., w't per doz. 2½ lbs. .....per dozen $20.30

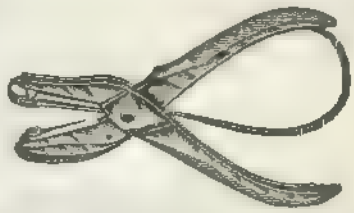
HALF DOZEN IN A BOX

CONDUCTORS' PUNCHES



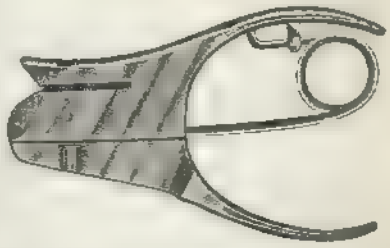
No 22—Wrought steel, nickel plated fancy holes, **assorted,** length 5 in., w't per doz. 2 lbs., per dozen $4.50

HALF DOZEN IN A BOX



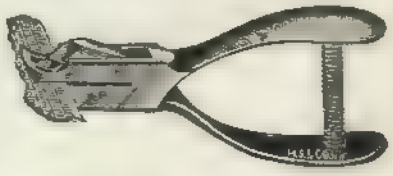
No. 260—Wrought steel, nickel plated with reservoir, **fancy holes,** length 5 in., w't per doz. 2 lbs., per dozen $5.00

HALF DOZEN IN A BOX



No. 44—Nickel plated, fancy holes, assorted, length 4 in., w't per doz. 4 lbs. .....per dozen $54.00

ONE IN A BOX



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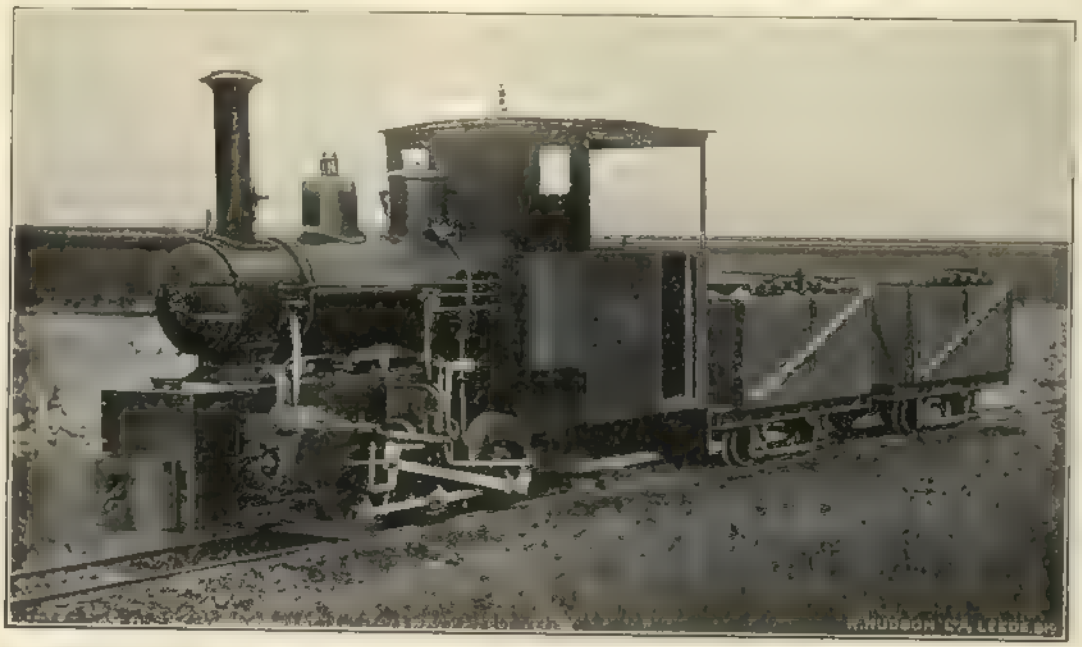

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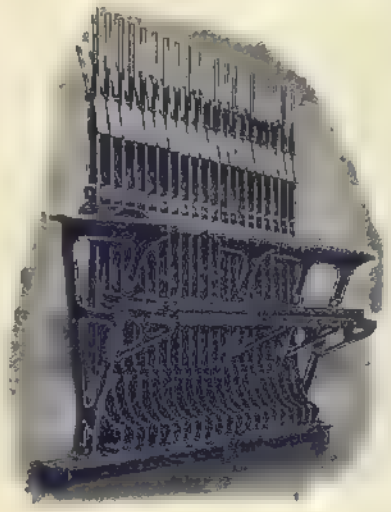

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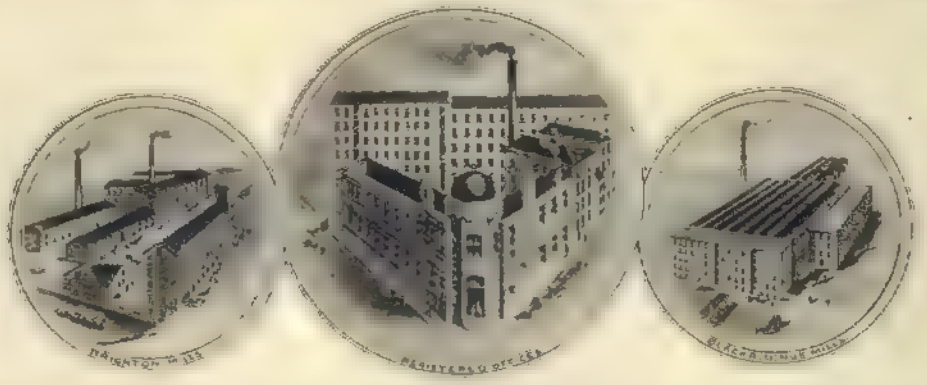

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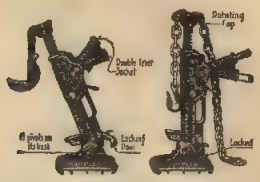

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Each

No. P404-310—Capacity 15 Tons; Lift 12½ in., Height 21½ in.; Weight of Jack only 65 Lbs.; Weight of Chain and Bar 30 Lbs.; Complete with 5 Feet of Chain with Grab Hook, and 5 Foot Combined Steel Lever, Pinch Bar, and Car Mover $48 00

Open Stock; Weight 95 Lbs. Each

POLE PULLING

A Single Acting Automatic Jack of 15 Tons Capacity, operating on the Down Stroke of the Lever, or Tripping in any position.

Especially designed for pulling, reinforcing and straightening Telephone, Trolley and Lighting Poles; Pivots on its Base and lifts out largest pole in a fraction of the time required by old methods; No Digging or other starting necessary.

Pivoting Base allows Jack to follow Angle of Pole with Pressure constantly exerted; Recessed Cap, into which any of Links of Chain are dropped, holds firmly under every Load; Double Lever Socket assures convenient position of Lever Bar, regardless of inclination of Jack.

Rack Bar raises or lowers Tooth by Tooth, or may be tripped at any point; After completion of first pull, Jack can be eased off, tripped to Low and a new hold taken.

All possibility of Accident safeguarded.

Each

No. P404-318—Capacity 15 Tons; Lift 23 in., Height 39 in.; Weight of Jack only 90 Lbs.; Chain 34 Lbs.; Bar 17 Lbs.; I-Beam Base 48 Lbs.; Complete with 8 Feet of heavy Chain with Pear Link attached, 5-Foot Steel Lever and Pinch Bar, and 2 feet of 10 inch 25 Lb. I-Beam Base..... $70.00

Open Stock; Weight 187 Lbs. Each

SHIPBUILDERS AND LOGGING

Single Acting, Automatic Lowering, with Pivoting Base, which automatically inclines, follows or guides Load; Calks to prevent slipping; Two Prong Recessed Cap and Locking Pawl.

Each

No. P404-312—Capacity 15 Tons, Lift 12½ in.; Height when closed 21½ in.; Weight of Jack only 50 Lbs.; Chain 14 Lbs.; Bar 18 Lbs.; Complete with 5 Feet of Chain with Grab Hook, and 5-Foot Steel Lever and Pinch Bar..... $48.00

Open Stock; Weight 83 Lbs. Each

TRACK

A Compact, Double Acting Track Jack; Heavy, massive Construction enables it to handle the heaviest work, yet it is shorter than other Jacks of equal lift; Malleable Iron and Steel Construction; Square Lever Socket permitting the use of Square Lining Bar.

Each

No. P404-101—Capacity 10 Tons, Lift 14 in.; Height, Closed, 23 in..... $22.00

Open Stock; Weight 58 Lbs. Each

An Efficient Double Acting Jack, for Track, Ballast or Construction Work; Operates on Up and Down Stroke of Lever, or Trips at any position; Malleable Iron and Steel Construction; Square Lever Socket permitting the use of Square Lining Bar.

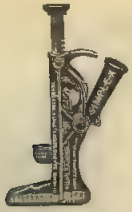
Each

No. P404-105—Capacity 15 Tons; Lift 19 in.; Height 29 in..... $28 00

Open Stock; Weight 70 Lbs. Each

SIMPLEX JACKS

All Malleable Iron and Steel Construction



SURFACING, TRACK AND BALLAST

Single Acting, operating on Down stroke of Lever or Tripping at any position.

Pawls are located almost vertically, permitting great leverage and power with less effort.

Range from No. P405-116 for Low Lift Track Surfacing to No. P405-118 for High Lift Heavy Ballast Work.

Nos.	P405-116	P405-117	P405-118
Tons	10	10	15
Lift, In.	8	12½	18¾
Height, In.	15½	20½	23
Wt., with Pole, Lbs.	46	53	70
Each	*$20.00*	*22.00*	*28.00*

INDUSTRIAL AND CAR

Single Acting, operating on Down stroke of Lever; With extra heavy standard and solid Base; Dirt and dust-proof, and will retain Grease indefinitely.

Especially for Low Lift Work; Electric Railroads, for Car Body and Truck Purposes; Also for general industrial use.

	Each
No. P405-22—Capacity 10 Tons; Lift 12 in.; Height 20½ in.; Complete with 5 ft. Steel Lever Bar	*$25.00*

Weight 56 Lbs Each

BRIDGE OR CAR

Single Acting, operating on Down stroke of Lever; Extra heavy Base; Reinforced Standard; For Car Body and Truck, Bridge, Frog and General Construction Work; No. P405-29 is unsurpassed for Heavy Lift Work.

Rack Bar, Pawls and Cap are Drop Forgings; Malleable Standard; Steel Bushings and Keys; Crucible Steel Lever Socket.

Complete with 6 ft. Oval Pole

Nos.	P405-24	P405-29
Capacity, Tons	15	15
Lift, In.	14	18
Height, In.	23	23½
Weight, with Bar, Lbs.	87	100
Each	*$38.00*	*40.00*

GEARED CAR

Single Acting; Operating on Down Stroke of Lever; Designed to handle easily Railroad Cars, Locomotives or Coaches, or heavy Industrial Service.

Gear Case is cast integral with Frame, housing heavy Drop Forged Pinion and Ratchet Wheel.

With Carrying Handles; Grease Cups provided where necessary.

INDUSTRIAL AND MINE

Single Acting; Operating on Down stroke of Lever; For every kind of Industrial Service, for Light Cars, Mining, Factory and Agricultural Use.

Complete with Steel Lever Bar with solid Base, Interlocking Pawl and Reversing Device.

Socket folds into vertical position when not in use, saving space Pinch Lever Bar.

Nos.	P405-25	P405-35	P405-40
Capacity, Tons	25	35	40
Lift, In.	16⅛	16½	26½
Height, In.	27	20⅞	37
Weight, with Pole, Lbs.	150	200	260
Each	*$100.00*	*135.00*	*175.00*

Nos.	P405-85	P405-86
Capacity, Tons	5	5
Lift, In.	10¼	14
Height, In.	17	20¼
Weight, with Bar, Lbs.	30	34
Each	*$15.00*	*16.00*

STONE JACKS

For all Lifting, Shoving and Moving Purposes; Embodies all the Latest Improvements in Design and Materials.

Can be set at any angle, as the Base of the Jack is provided with Points to prevent it from slipping; All parts are Interchangeable. The Iron Frame Jack is made entirely of Metal.

+No. F405-28—IRON FRAME

Capacity, Tons	2	3	4	5	6
Height, In.	32	32½	34	34	35
Weight Each, Lbs.	75	85	100	115	135
Each	*$45.00*	*50.00*	*55.00*	*62.00*	*70.00*

Capacity, Tons	8	10	12	15
Height, In.	36	36	37	39
Weight, Each, Lbs.	160	170	200	235
Each	*$85.00*	*110.00*	*120.00*	*140.00*

+No. F405-1—WOOD FRAME

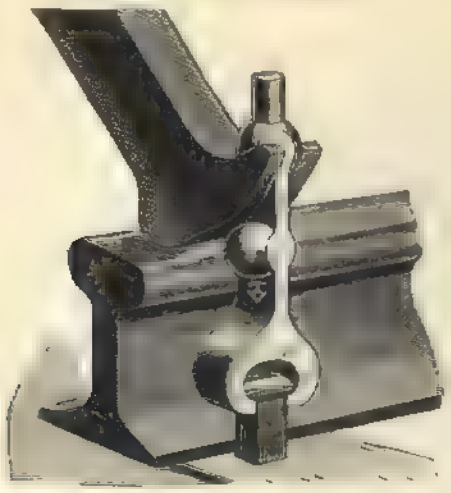
Capacity, Tons	2	3	4	5	6	8	10
Height, In.	34	34½	35	36	36½	37	37½
Wt. Each, Lbs.	95	110	120	135	150	185	200
Each	*$45.00*	*50.00*	*55.00*	*62.00*	*70.00*	*85.00*	*110.00*

Capacity, Tons	12	15	18	20	25	30
Height, In.	38	38	39	39	39	39
Weight Each, Lbs.	230	275	300	315	350	400
Each	*$120.00*	*140.00*	*150.00*	*162.50*	*175.00*	*200.00*

All Above, Open Stock

+For Factory Shipment Only; F. O. B. Racine, Wis.

SPIKE PULLERS



Two knob, without claw bar

No. 56. Weight each, 1½ lb.... .. .. each, **$1.25**

RAIL BENDERS

JIM CROW

Forged from open hearth steel; square machine cut threads, three to the inch; steel screw.

Furnished with bolted-on crossbar and forged wrench.

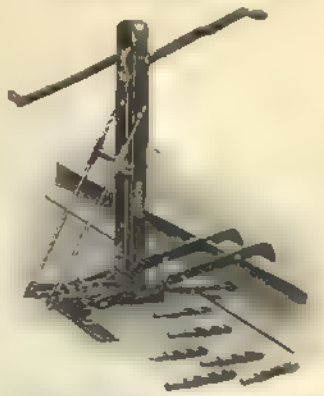
Nos.	6	5	4
Capacity, size of rail, lb	16	25	50
Span of hooks, in	14	16	18
Diameter of screw, in	1¾	1¾	2
Weight each, lb	40	60	85
Each	$22.00	29.00	38.00

SMITH RATCHET

Forged from best open hearth steel, square machine cut threads, three to the inch. Steel screw. Malleable iron ratchet plates, forged steel milled ratchet. Malleable cap to fit rails

Nos.	16	15	14
Capacity, size of rails, lb	16	25	50
Span of hooks, in	14	16	20
Diameter of screw, in	1¾	2	2¼
Weight each, lb	50	70	90
Each	$28.00	38.00	46.00

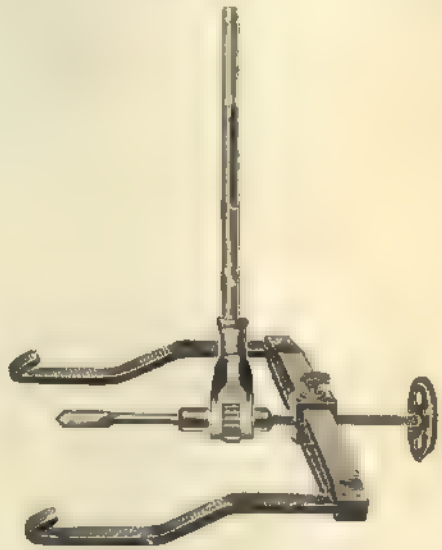
TRACK DRILLS



NEW STYLE PAULUS

Automatic feed. Over clutch. Quick return spindle. All castings made of best malleable iron. Uses twist drills with ⅝ inch round shank. Weight each, 65 lb.

Paulus Track Drills.....each, **$50.00**

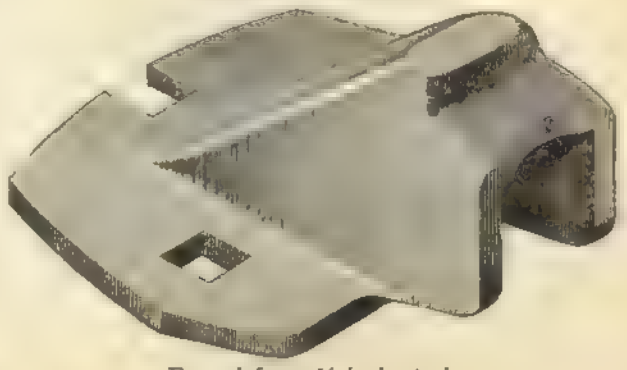


BELAND'S RAIL DRILLS

Solid wrought iron clamp, best cast steel ratchet. Screw feed. Entire drill lays flat so as not to interfere with passing trains. Uses square shank drill. Weight each, 25 lb.

Beland's Rail Drills, complete.....each, **$12.00**

*RAIL BRACES

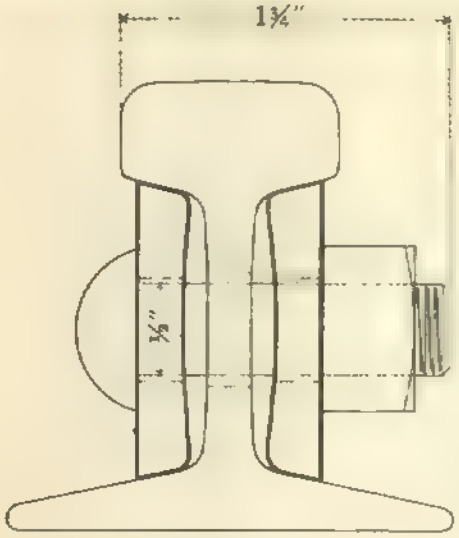


Forged from ¼ inch steel

For rails	30	35	40	45	50	55	60
Each	$.	..	..	..	..	....	....

*Not carried in stock; will ship from factory.

STEEL RAIL AND SUPPLIES



LIGHT STEEL T RAIL

12 lb. per yard, 2 in. high, 2 in. base.....per lb., $
16 lb. per yard, 2⅛ in. high, 2⅛ in. base.....per lb.,
*20 lb. per yard, 2⅝ in. high, 2⅝ in. base.....per lb.,
*25 lb. per yard, 2¾ in. high, 2¾ in. base.....per lb.,
*30 lb. per yard, 3⅛ in. high, 3⅛ in. base.....per lb.,

Tons of Rail Required for One Mile

Weight per yard, lb.....	12	16	20	25	30
Tons, per mile.....	18.86	25.14	31.43	39.29	47.14

SPLICE BARS

Each joint includes two plates and four bolts

For 12 lb. rail.....per joint $
For 16 lb. rail.....per joint,
*For 20 lb. rail.....per joint,
*For 25 lb. rail.....per joint,
*For 30 lb. rail.....per joint,

Number Joints, Fish Plates and Bolts Per Mile

Rails	Joints	Fish Plates	Bolts
20 ft.	528	1056	2112
24 ft.	440	880	1760
25 ft.	422	844	1688
26 ft.	406	812	1624
27 ft.	391	782	1564
28 ft.	377	754	1508
30 ft.	352	704	1408

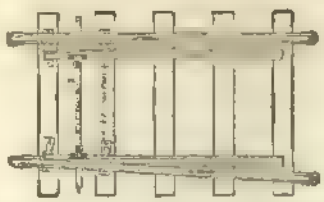
Number of Cross Ties Per Mile

Center to center, ft.	1½	1¾	2	2¼	2½
Number of ties.....	3520	3017	2640	2348	2113

Prices on steel rail and supplies quoted on application

*Not carried in stock; will ship from factory.

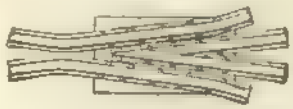
*SPLIT SWITCHES



Switch lugs made of forged steel, friction plates of pressed steel plate. Switch bars made of heavy wrought iron.

Size rail, lb.....	12	16	20	25	30	35	40
Each, complete..... $. .							

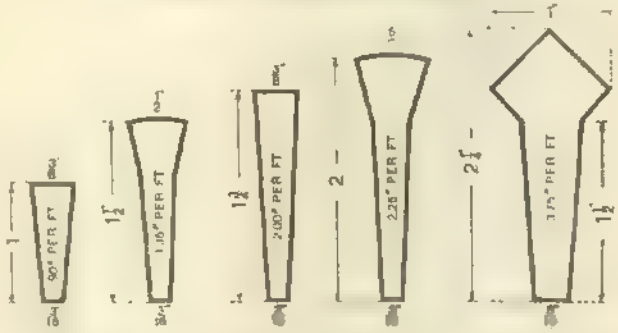
*FROGS



Point and wing rails securely riveted to ½ inch steel plates. Size of plate varies with the angle of frog.

Size rail, lb.....	12	16	20	25	30	35	40
Each, complete..... $...							

*COAL SCREEN BARS

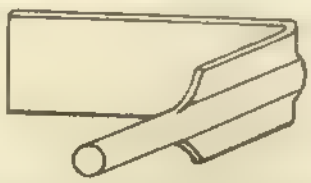


When ordering specify style and length bar wanted. Prices on application

*BEARING BARS

When ordering specify dimensions of notches, distance between notches and length of bar wanted. Prices on application

*COKE SCRAPER HEADS



Standard style, made of soft steel. Weight 20 lb.

Coke Scraper Heads.... . .. . each $. ...

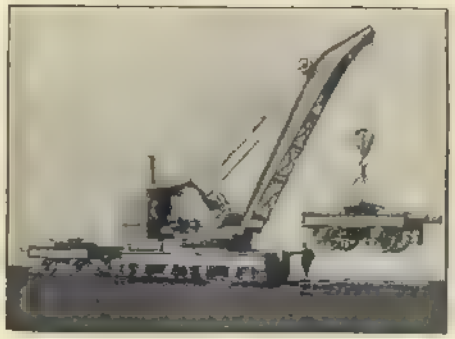
*Not carried in stock; will ship from factory.

RANSOMES & RAPIER, LTD.

Hand, Steam AND Electric Cranes FOR Railways, Docks, Harbours, AND Works.

Grues à main, à vapeur, et électriques
:: pour ::
Chemins de fer, Docks, Ports, et Usines.

Grúas Manuales, á vapor y eléctricas. para :: Ferrocarriles, Muelles, Puertos y Obras en general.



AC

Heavy Steam Travelling Crane Stokes' Patent.

Grue roulante à vapeur, [illegible] Brevets Stokes

Grúa pesada [illegible] Patentes Stokes

Sole Makers of "STONEY" CONTROL SLUICES
WITH
Stokes' Patent Improvements.
(EF)

OVER 1,000 SLUICES ALREADY INSTALLED.

Sluices across the River Clyde, at Glasgow. Span of each gate, 80 ft. Depth, 12 ft.: Lift, 31 ft

Vannes sur la Clyde à Glasgow. Chaque [illegible] profondeur de 12 pieds, et de levage de 31 pieds

Compuertas a través del Río Clyde, Glasgow. [illegible] Compuertas, 24m,37 [illegible]

Seuls fabricants des Vannes de réglage "Stoney" avec les perfectionnements brevetés Stokes.

Plus de 1000 vannes déjà installées.

Unicos fabricantes de Compuertas de control "Stoney," con perfeccionamientos, patente Stokes. ::

Mas de 1000 compuertas ya instaladas.

32, VICTORIA STREET, LONDON, S.W.

Cables: Câbles Telegramas
"SLUICE, LONDON."

Codes: Codes Claves
A.B.C., MARCONI, etc.

WILLIAM BICKLEY

GENERAL STAMPER AND PIERCER

Eclipse Works, BLOXWICH, nr. WALSALL

STAFFORDSHIRE, ENGLAND.

Maker of the

"HIPKINS" PATENT RIVETLESS SLEEPER

EF

THE BEST ON THE MARKET FOR MINES, Etc.

Fabricants de la TRAVERSE SANS RIVETS "HIPKINS" BRÈVETÉE

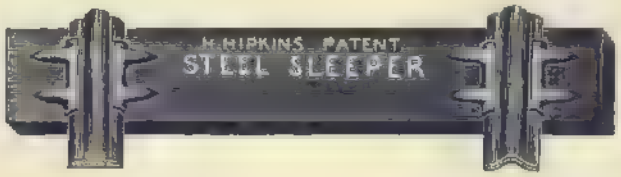
La meilleure sur le marché à l'usage des mines, etc

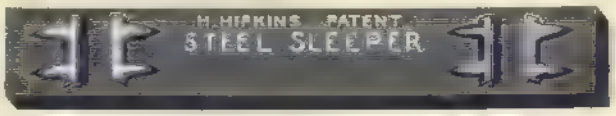
Constructor de la TRAVIESA, PATENTE "HIPKINS" SIN REMACHES

La mejor en el mercado, para minas, etc

NO LOOSE PARTS. NO RIVETS.

Pas de pièces détachées Pas de rivets No hay partes sueltas No lleva remaches





LES anciennes traverses en fer ont été reconnues défectueuses et coûteuses par ce que les rivets qui étaient nécessaires pour fixer les éclisses sur les traverses devenaient libres en raison des chocs et des frottements dus à leur démontage

Pour obvier à ceci nous avons introduit sur le marché la traverse en acier sans rivets dans laquelle les éclisses pour maintenir les rails sont estampées de la masse et trempées par ondulations.

En énonçant votre demande de renseignements prière de spécifier le calibre requis et de donner le croquis du rail.

THE old iron sleepers have been found objectionable and expensive on account of the rivets, which have been necessary to secure the lips upon the sleeper, frequently becoming loose by reason of the jar and friction, which necessitates their being taken up and relaid.

To obviate this the STEEL RIVETLESS SLEEPER has been introduced in which the lips or jaws to hold the rail are STAMPED OUT OF THE SOLID AND STIFFENED BY CORRUGATION.

The required gauge should be stated and sketch of rail sent with all enquiries.

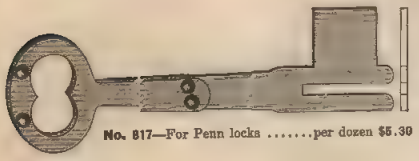
LAS traviesas antiguas de hierro se las ha encontrado defectuosas y costosas á causa de los remaches que se requerian para sujetar las pestañas ó labios sobre la traviesa, que con frecuencia llegaban á ser aflojados á causa del traqueteo y de la fricción necesitando por esta razón tener que sacarlas y volverlas á colocar.

Para obviar ésto se ha introducido la traviesa de acero sin remaches en la que las garras ó labios para mantener firme el rail, se hallan estampadas del macizo y atiesadas por ondulación

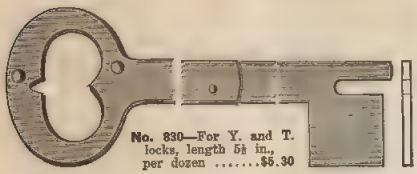
Cuando se envíen las consultas se deberá indicar el ancho de viá así como un bosquejo del rail.

KEY BLANKS

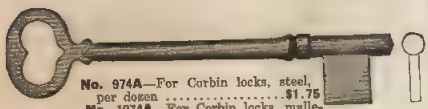
Illustrations Actual Size.



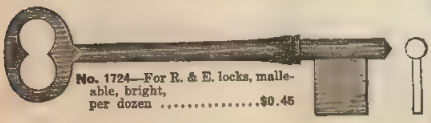
No. 817—For Penn locks .....per dozen $5.30



No. 830—For Y. and T. locks, length 5⅛ in., per dozen $5.30

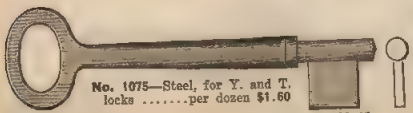


No. 974A—For Corbin locks, steel, per dozen $1.75
No. 1974A—For Corbin locks, malleable .....per dozen $0.45



No. 1724—For R. & E. locks, malleable, bright, per dozen $0.45

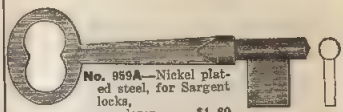
No. 1877—Nickel plated .....per dozen $0.45



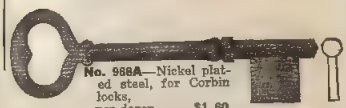
No. 1075—Steel, for Y. and T. locks .....per dozen $1.60
No. 1675—Malleable .....per dozen $0.45

No. 957A—Nickel plated steel, for Sargent locks, per dozen $1.60
No. 1957A—Malleable, plated .....per dozen $0.45

No. 0959—Nickel plated steel, for Sargent locks, per dozen $1.60
No. 01959—Malleable, plated .....per dozen $0.45

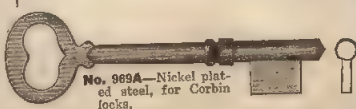


No. 959A—Nickel plated steel, for Sargent locks, per dozen $1.60
No. 1959A—Malleable, plated .....per dozen $0.45



No. 968A—Nickel plated steel, for Corbin locks, per dozen $1.60
No. 1968A—Malleable, plated .....per dozen $0.45

No. 0969—Nickel plated steel, for Corbin locks, per dozen $1.60
No. 01969—Malleable, plated .....per dozen $0.45



No. 969A—Nickel plated steel, for Corbin locks, per dozen $1.60
No. 1969A—Malleable, plated .....per dozen $0.45

ALL ABOVE, THREE DOZEN IN A BOX

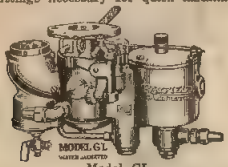
RAYFIELD CARBURETORS

BUICK & REO SPECIAL RAYFIELD CARBURETORS

The special RAYFIELD CARBURETORS for Buick and Reo cars are the standard model GL RAYFIELD in general construction, adapted to the Buick and Reo motors by competent engineers.

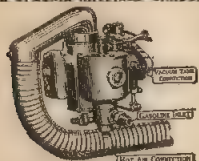
Both of the above models are sold on the RAYFIELD Guarantee to make the car start easier, accelerate faster, throttle lower, develop more power and speed, and save from 20% to 50% in fuel.

The following prices include the carburetor complete with all fittings necessary for quick installation:



Model	Year	Carburetor	Each
Buick D-44 and D-45	1916-17	FGL3	*$62.50*
Buick D-54 and D-55	1916	FGL3	*62.50*
Buick C-36 and C-37	1915	FGL3	*64.50*
Buick C-24 and C 25	1915	FGL2	*53.00*
Buick C-54 and C-55	1915	FGL3	*62.50*
Buick B-54 and B-55	1914	FGL3	*62.50*
Buick B-24 and B-25	1914	FGL2	*55.50*
Buick B-36 and B-37	1914	FGL3	*64.50*
Buick E-44-45-46 47	1918	FGL3	*62.50*
1915 Reo "4" FGL2 Carburetor			*48.80*
1916-17 Reo "4" FG2 Carburetor			*48.80*
1915-16-17-18 Reo "6" FGL3 Carburetor			*59.00*
1910-14 Reo "4" FG2 Carburetor			52.50
1918 Reo "4" FGL2 Carburetor complete with all necessary fittings			*71.30*

DODGE SPECIAL RAYFIELD CARBURETOR



The special RAYFIELD Carburetor for the Dodge car is the standard "Model M" RAYFIELD, particularly suitable to the Dodge motor, insuring the greatest possible efficiency and economy.

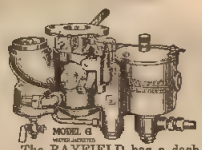
A special RAYFIELD Carburetor on a Dodge car is guaranteed to make it start easier, accelerate faster, throttle lower, develop more power and speed, and save from 20% to 50% in fuel.

Hot air is used to heat the Carburetor. A hot air connection is provided to fit the motor without changes.

Complete with all necessary fittings:

1915-1916-1917 Dodge Special FMR3 Carburetor, each *$47.50*

1918 FMR3 Carburetor ..... each *48.50*



The "Model FG" is a double-jet water jacketed carburetor. It has only two adjustments, one for low speed and the other for high, both controlling the supply of gasoline.

The RAYFIELD has a dash pot construction which injects additional gasoline (only when it is needed) when the motor is accelerated. This makes it possible to use an extremely economical running mixture and still have the very fast get-away and maximum power.

A Dash or Steering Post Control is furnished with all RAYFIELD carburetors. This control raises the nozzle needle, supplying a richer mixture for cold weather and cold motor conditions. When pulled up the entire distance it also engages the RAYFIELD primer (built integral with the carburetor) making possible utmost ease in starting even in the coldest weather.

MODEL G (WATER-JACKETED)

Model	Size	Each.
FG2 and FGL2	1 in.	*$46.50★*
FG3 and FGL3	1½ in.	*55.00★*
FG4 and FGL4	1¾ in.	*64.00★*

If the motor has pump circulation the "Model G" MUST BE USED.

The "Model FL" RAYFIELD carburetor is non-water-jacketed, otherwise the design and construction is the same as the Model FG. It should be used only on thermo-syphon and air-cooled motors.

Heat to the carburetor is necessary to properly vaporize the low grade fuel now in use.

Both hot air and hot water should always be used.

MODEL L (NON-WATER-JACKETED)

Model	Size	Each.
FL2 and FLL2	1 in.	*$42.50★*
FL3 and FLL3	1½ in.	*46.50★*

These include standard type of dash or steering post control.

The "Model L" carburetor is suitable only for use on thermo-syphon and air-cooled motors and is guaranteed on no other.

"Models FG and FL" are also furnished in sizes as listed above with the adjustments on the opposite side of carburetor. These models are left-hand and are known as FGL and FLL.

Always specify the make, model and year of car or motor when ordering. We will ship the necessary fittings for installation. Hot air outfits and other fittings are not included in the price of carburetor, and will be charged extra.

FLEXIBLE METAL TUBING

For conveying hot air to carburetor, strongly constructed, very flexible, easy to assemble. Furnished in electro galvanized steel, brass or copper. Asbestos packed.

	Inside.	Outside.	Per ft.
No. 5481	¾	¾	*$0.30*
No. 5482	⅞	1 1/32	.32
No. 5483	1	1 1/32	.36
No. 5484	1¼	1 5/16	.48
No. 5485	1⅜	1 9/16	.52
No. 5486	1½	1 11/16	.64
No. 5487	1¾	1 15/16	1.00

CUT TO LENGTH. CANNOT BE RETURNED

★ Items Marked Thus ★ Are Shipped from Factory Only.

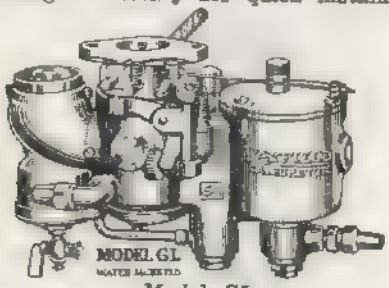
RAYFIELD CARBURETORS

BUICK & REO SPECIAL RAYFIELD CARBURETORS

The special RAYFIELD CARBURETORS for Buick and Reo cars are the standard model GL RAYFIELD in general construction, adapted to the Buick and Reo motors by competent engineers.

Both of the above models are sold on the RAYFIELD Guarantee to make the car start easier, accelerate faster, throttle lower, develop more power and speed, and save from 20% to 50% in fuel.

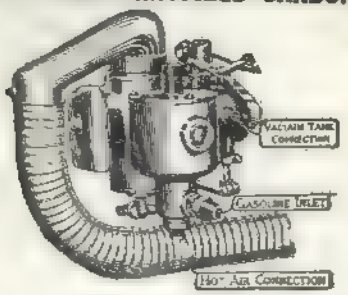
The following prices include the carburetor complete with all fittings necessary for quick installation:



Model GL

Model	Year	Carburetor	Each
Buick D-44 and D-45	1916-17	FGL3	*$62.50*
Buick D-54 and D-55	1916	FGL3	*62.50*
Buick C-36 and C-37	1915	FGL3	*64.50*
Buick C-24 and C-25	1915	FGL2	*53.00*
Buick C-54 and C-55	1915	FGL3	*62.50*
Buick B-54 and B-55	1914	FGL3	*62.50*
Buick B-24 and B-25	1914	FGL2	*55.50*
Buick B-36 and B-37	1914	FGL3	*64.50*
Buick E-44-45-46-47	1918	FGL3	*62.50*
1915 Ro "4" FGL2 Carburetor			*48.80*
1916-17 Reo "4" FG2 Carburetor			*48.80*
1915-16-17-18 Reo "6" FGL3 Carburetor			*59.00*
1910-14 Reo "4" FG2 Carburetor			52.50
1918 Reo "4" FGL2 Carburetor complete with all necessary fittings			*71.30*

DODGE SPECIAL RAYFIELD CARBURETORS



The special RAYFIELD Carburetor for the Dodge car is the standard "Model M" RAYFIELD, particularly suitable to the Dodge motor, insuring the greatest possible efficiency and economy.

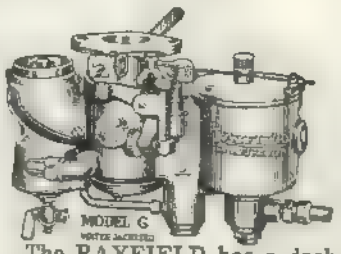
A special RAYFIELD Carburetor on a Dodge car is guaranteed to make it start easier, accelerate faster, throttle lower, develop more power and speed, and save from 20% to 50% in fuel.

Hot air is used to heat the Carburetor. A hot air connection is provided to fit the motor without changes.

Complete with all necessary fittings:

1915-1916-1917 Dodge Special FMR3 Carburetor, each *$47.50*

1918 FMR3 Carburetor ..... each *48.50*



The "Model FG" is a double-jet water jacketed carburetor. It has only two adjustments, one for low speed and the other for high, both controlling the supply of gasoline.

The RAYFIELD has a dash pot construction which injects additional gasoline (only when it is needed) when the motor is accelerated. This makes it possible to use an extremely economical running mixture and still have the very fast get-away and maximum power.

A Dash or Steering Post Control is furnished with all RAYFIELD carburetors. This control raises the nozzle needle, supplying a richer mixture for cold weather and cold motor conditions. When pulled up the entire distance it also engages the RAYFIELD primer (built integral with the carburetor) making possibble utmost ease in starting even in the coldest weather.

MODEL G (WATER-JACKETED)

Model	Size	Each.
FG2 and FGL2	1 in.	*$46.50★*
FG3 and FGL3	1¼ in.	*55.00★*
FG4 and FGL4	1½ in.	*64.00★*

If the motor has pump circulation the "Model G" MUST BE USED.

The "Model FL" RAYFIELD carburetor is non-water-jacketed, otherwise the design and construction is the same as the Model FG. It should be used only on thermo-syphon and air-cooled motors.

Heat to the carburetor is necessary to properly vaporize the low grade fuel now in use.

Both hot air and hot water should always be used.

MODEL L (NON-WATER-JACKETED)

Model	Size	Each.
FL2 and FLL2	1 in.	*$42.50★*
FL3 and FLL3	1¼ in.	*46.50★*

These include standard type of dash or steering post control.

The "Model L" carburetor is suitable only for use on thermo-syphon and air-cooled motors and is guaranteed on no other.

"Models FG and FL" are also furnished in sizes as listed above with the adjustments on the opposite side of carburetor. These models are left-hand and are known as FGL and FLL.

Always specify the make, model and year of car or motor when ordering. We will ship the necessary fittings for installation. **Hot air outfits and other fittings are not included in the price of carburetor, and will be charged extra.**

FLEXIBLE METAL TUBING

For conveying hot air to carburetor, strongly constructed, very flexible, easy to assemble. Furnished in electro galvanized steel, brass or copper. Asbestos packed.

	Inside.	Outside.	Per ft.
No. 5481	⅜	½	*$0.30*
No. 5482	½	1 1/32	*.32*
No. 5483	1	1 5/32	*.36*
No. 5484	1¼	1 7/16	*.48*
No. 5485	1½	1 9/16	*.52*
No. 5486	1¾	1 11/16	*.64*
No. 5487	1¾	1 15/16	*1.00*

CUT TO LENGTH. CANNOT BE RETURNED

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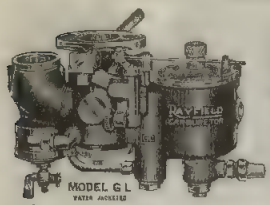
CARBURETORS

MODELS GL AND LL

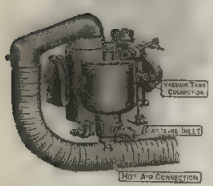


Water jacketed; has only two adjustments, which are simple and accessible; one for low speed and one for high, both controlling the supply of gasoline. Automatic injector feature operated by dash pot pump below the air valve injecting through the metering pin nozzle to supply additional amount of fuel for acceleration. Complete with all fittings necessary for installation.

Left Hand Models	Each
No. A-900-78—For Buick, D44, D45, 1916 17; size 1 inch	✱$76 50
No. A-900-76—For Buick, E and H, 44-50, 1918-21; size 1¼ inch	✱ 77 64
No. A-900-13—For Reo, 6 cylinder, 1915-19 model M; size 1¼ inch	✱ 76 89
No. A-900-94—For Studebaker, 4 cylinder, 1916-17-18; size 1 inch	✱ 84 14
No. A-900-79—For Oakland, 6 cylinder, 32-32B, 34-34B models, 1916-17; size 1 inch	✱ 58 50
No. A-900-60—For Overland models 83-83B, 1916-17; size 1 inch	✱ 50 64
No. A-900-75—For Chevrolet, 490 model, 1916-17-18-19-20-21; size 1 inch	✱ 50 64
No. A-900-50—For Maxwell, magneto 25, 1915-19; size 1 inch	✱ 50 64
No. A-900-116—For Maxwell, Atwater Kent equipped, 1915-19, battery 25; size 1 inch	✱ 50 64

One in a carton; weight each 12 lbs.

MODEL M, DODGE SPECIAL



Particularly suitable to the Dodge motor, insuring the greatest possible efficiency and economy.

Side outlet type, with special hot air elbow and connection to replace original equipment on Dodge cars; give motor greater acceleration, flexibility and reserve power.

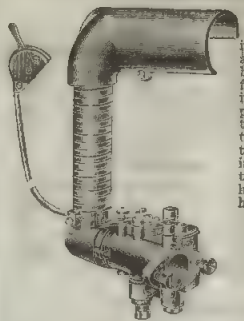
Right Hand.	Each
No. A-800-14—For Dodge cars, 1915-16-17 all models; size 1¼ inch	✱$45 00
No. A-800-64—For Dodge cars, 1918-21 all models; size 1¼ inch	✱ 45 00

One in a carton; weight each 10½ lbs.

✱F. O. B. Illinois Factory Only.

CARBURETORS

RAYFIELD, DASH CONTROL, MODEL "UF," FOR ALL MODELS FORD CARS



Plain tube type, having no loose fittings to adjust or readjust. Has but two adjustments; one for low and one for intermediate speeds. The predominant feature of this carburetor is the thermostatic hot-air control principle, which is involved in its construction, making it an absolute impossibility to overheat in the summer time.

	Each
No. A-UF—Complete with all fittings for installation	$40 50

One in a carton; weight each 10 lbs.

KINGSTON, FOR FORD CARS

Model L 4

Designed and built especially and used as regular equipment for Ford cars; (Spitfire Nozzle) equipped with improved spray nozzle providing super carburation, quicker getaway, economy and power in all weather and hill climbing conditions

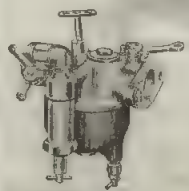
No.	A-L4
List, Each	*$6 00*
In lots of 1 to 24, Each	11 10
In lots of 24 to 49 Each	10 80
In lots of 50 or more, Each	10 50

One in carton; weight each 9½ lbs.

CARBURETOR FLOATS—Kingston. Each

No. A-1KCF—To be used with No. A-2KFR Carburetor... $2 10

Packed loose.



Ford Special.

No.	A-3KFS
List, Each	*$7 50*
In lots of less than 12, Each	16 89
In lots of 12 or more, Each	15 75

One in a carton; weight each 8 lbs.

FOR BUICK CARS

Designed and built especially for the Buick car. Scientifically solves the problem of thorough carburetion for the "Little 6" Buick. Delivers every atom of power and punch in the fuel to the motor; increases the mileage per gallon. Is extremely flexible and insures a quick get-a-way, also maximum economy, maximum flexibility and absolute dependability of the motor.

No.	A-7KB
List, Each	*$10 50*
In lots of less than 12, Each	37 14
In lots of 12 or more, Each	34 65

One in a carton; weight each 2 lbs.

SOLDERLESS COMPRESSION COUPLINGS

DOLE, DOUBLE

TEES

Tubing two ends ⅛ inch male iron pipe thread other end.

No.	A-T-35	A-T-36
Outside diam., inches	¼	5/16
Weight each, ozs	2	2
1 to 100, Each	$0 60	72
100 or more, Each	48	57

Packed loose.

BUSHINGS

Tubing one end, female iron pipe thread other end.

No.	A-B41
Pipe thread, in.	⅛
Outside dia., in.	¼
Wt. each, ozs	2
1 to 100, Each	$0 3o
100 or more, Each	30

Packed loose.

DOLE, ASSORTMENTS

Consists of 110 pieces: unions, elbows, tees, bushings, sleeves and priming cups; sizes that are in general use.

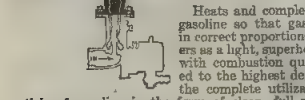
Per Ass't

No. A-D100—Size box 18½x7¾x2 inches $43 50

One assortment in a wood box; wt. 10 lbs.

MANIFOLDS

WILMO, Increases Gasoline Mileage 42% to 54%.



Heats and completely vaporizes gasoline so that gasoline and air in correct proportions enter cylinders as a light, superheated mixture, with combustion quality developed to the highest degree. Insures the complete utilization of every particle of gasoline in the form of clean, full power gas. It provides a warm mixture at first few turns of the motor.

Made of one piece gray iron. Replaces the exhaust and intake pipes. Easily and quickly installed.

	Each
No. A-1-MWM—Maxwell 25, 1916-17	✦$25 50
No. A-2-OWM—Overland 59	✦ 38 01
No. A-4-OWM—Overland 69	✦ 38 01
No. A-5-OWM—Overland 79	✦ 38 01
No. A-6-OWM—Overland 81-83	✦ 38 01
No. A-7-BWM—Buick 4 34-35	✦ 25 50
No. A-8-SWM—Studebaker 17-18-4	✦ 38 01
No. A-9-SWM—Saxon 6-1916	✦ 38 01
No. A-11-OWM—Oakland 6-32-1916-17	✦ 34 50
No. A-12-BWM—Buick 6-D44-45	✦ 56 01
No. A-13-SWM—Studebaker 17-18-6	✦ 56 01

Packed loose; average weight 15 lbs.

✦F. O. B. Illinois Factory Only.

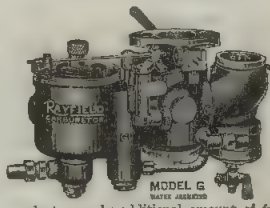
CARBURETORS

RAYFIELD, DASH CONTROL

The basic principle and general construction which has made the Rayfield known as the world's best carburetor, is continued in accordance with original design. From time to time refinements have been incorporated to accomodate the many improvements in modern motor construction and the constant deterioration in the quality of fuel.

The dash control, when properly used, will render easy starting; furnish a richer mixture when motor is cold, and maintain a correct mixture under the most extreme atmospheric changes. When adjustments are correctly made they should not be changed, as the dash control will take care of cold weather as well as cold motor conditions. All Rayfield carburetors are equipped with a strainer trap at bottom of float chamber, which should be drained occasionally. The dash pot can be flushed through drain cock.

MODEL G

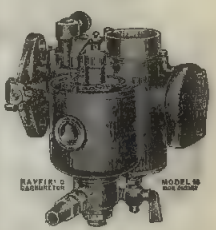


Water jacketed; has only two adjustments, which are simple and accessible; one for low speed and one for high, both controlling the supply of gasoline. Automatic injector feature operated by dash pot pump below the air valve injecting through the metering pin nozzle to supply additional amount of fuel for acceleration. Has two air intakes for breaking up and vaporizing gasoline. Complete with all fittings necessary for installation.

Right Hand.	Each
No. A-900-58—For Reo, 4 cylinder, 1915-19 R and S models; size 1 inch	✦$52 89
No. A-900-84—For Studebaker, 6 cylinder, 1916-17-18 models; size 1¼ inch	✦ 79 89
No. A-900-127 For Studebaker, 6 cylinder, 1919-21 model; size 1½ inch	✦ 87 75

One in a carton; weight each 12 lbs.

MODEL M, FOR HUPMOBILE



Designed to supply the demand for a side outlet carburetor resulting from the construction of motors having integral intake passages, thereby eliminating the exposed manifold. Fuel is delivered to the combustion chambers at a high temperature, insuring better vaporization. Has two intake valves which are interconnected and automatically operated. Fuel is supplied through two nozzles; one supplies all gasoline required when motor is idling, and additional gasoline for quick acceleration and high speed is supplied through the other nozzle, which is controlled by a tapered metering pin. Complete with all fittings for installation.

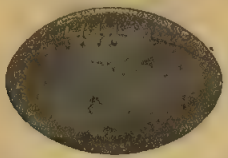
Right Hand.	Each
No. A-800-36—For Hupmobile, 1915-16-17 all models; size 1¼ inch	✦$70 89

One in a carton; weight each 18½ lbs.

✦F. O. B. Illinois Factory Only.

REACH RUGBY FOOT BALLS

Reach foot balls are made of carefully selected materials Exacting workmanship and rigid inspection assure perfection in construction All balls are sewed with strong linen thread, waxed thread being used in the heavier grades. Canvas lining, woven expressly for the purpose, prevents stretching and assures correct proportions. Each ball complete with pure rubber bladder and lace.



Official Varsity; made of the finest special tuffide pebble grain leather; perfect shaped and endorsed by the leading colleges, universities and athletic associations; leather laced, lacing needle and a special rubber bladder.

NO.	EACH
E5	$9.00

Intercollegiate; made of selected pebble grain leather; true in all proportions and perfect shape; complete with rubber bladder, lace and needle.

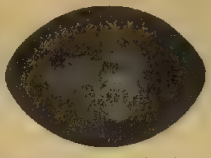
NO	EACH
5	$7.50

Rugby Match Foot Ball; an excellent ball made of first quality, pebble grained leather. Correct in the details of size and weight. A high grade ball at a moderate price.

NO.	EACH
5R	$6.50

Scholastic Rugby Foot Ball; constructed to stand rough usage. Made of pebble grained cowhide leather and is regulation size and weight. This ball is known for quality and service

NO	EACH
[illegible]	$6 00



Special Rugby Foot Ball; made of a very good grade of pebble grained cowhide leather. A rugged ball with the best of wearing and playing qualities. Designed particularly for high grade amateur use.

NO.	EACH
5K	$5 00

Amateur Rugby Foot Ball. This is a very good ball for boys. Made of pebbled grain leather with special canvas lining

NO.	EACH
5S	$2.50

Practice Rugby Foot Ball; made of pebbled leather, canvas lined. Youths size. Correct shape, good wearing qualities.

NO.	EACH
5M	$2.25

Youths Rugby Foot Ball; made for the smaller boys. Smooth, brown grain leather, correct shape.

NO.	EACH
50	$2 00

REACH ATHLETIC GOODS

WRIST SUPPORTERS

No. 60

Nos. 61 and 64

Made of the highest grade of materials and well finished; brown grain leather, double strap and buckle leather lined.

NO.	EACH
60	$0 50

Fine Russia calf leather, single strap and buckle

NO	EACH
61	$0.35

Drab finish calfskin, single strap and buckle.

NO.	EACH
64	$0.25

ANKLE SUPPORTERS

Finest materials, with a patent diverted seam; laced; finest Russian calfskin.

NO.	PER PAIR
L	$1 50

Fine quality sheepskin.

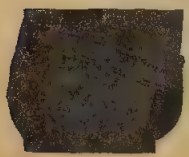
NO	PER PAIR
K	$1.25

BIKE JOCKEY STRAP OR SUPPORTERS

All elastic, no buckles; clean, comfortable, porous. Three sizes: Small—22 to 28 inch waist; medium—30 to 38 inch waist; large—40 to 48 inch waist.

NO.	EACH
5	$0 65

SUPPORTERS

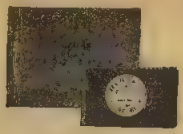


Abdominal Guard and Supporter

Aluminum, light, strong, well ventilated, sanitary and can be washed after using; wide elastic bands. Used by all the players of American and National leagues, and endorsed by leading boxers, wrestlers, football players.

NO	EACH
76	$3.00

SCORING TABLETS, BOOKS AND GUIDES



Scoring Tablets

Celluloid, for recording runs and outs, size 3x1⅝ inch.

NO	EACH
ST	$0.30

Score Books

NO		EACH
18B	Pocket size, paper cover, 7 games	$0.10
28B	Pocket size, paper cover, 22 games	.60
38B	Pocket size, cloth cover, 50 games	.75
48B	Club size, cloth cover, 30 games..	1.75

Official Base Ball Guide

Contains all rules and regulations; complete records of the American, National and Minor leagues; everything about baseball.

NO.	EACH
OG	$0.25

UMPIRES' INDICATORS

Celluloid; for recording number of strikes and balls; size 3x1½ inch.

NO.	EACH
UI	$1.00

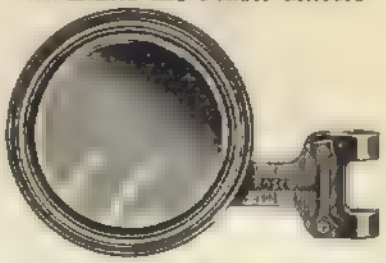
"Rearvu" Mirrors

"Rearvu" Mirrors are best grade of beveled plate glass. Brackets are constructed so that mirrors may be tipped to right or left, up or down, giving a full rear view.

Type A brackets are for enclosed cars.
Type B brackets are for open cars.

With Type A bracket.....each, $3.50
With Type B bracket.....each, 3.50
With Type C bracket (narrow type) for windshields up to ⅝ in.each, 3.50

Windshield and Fender Mirrors



No. 207B

No. 307B

Windshield Type

Beveled clear glass. All black or black and nickel finish. Diameter 5½ in. Length of bracket 6½ in.

No. 207B...each, $3.00

Fender Type

Beveled clear glass. Diameter 5½ in.

No. 307B...each, $3.00

Dash Board Cutters

A tool for cutting circular holes in all metal or wood dash boards for inserting clocks, speedometers, etc. A necessary item to an efficient garage or accessory store. Can be used in either a hand brace or in an electric drill.

Each $5.00

Clear Vision Windshield Cleaners

Consists of a spring wire frame with broad pointed rubber shoe which prevents wabbling. A steel frame with two parallel wiping strips of pure rubber fastens to the wire frame with a cotter pin. Finished in a high grade baked rubber enamel.

Each $0.65

Doctors' Cross Radiator Ornament

Height 4 in., width 3 in. Green center, with frame of cross, outside tire and base gold.

No. 8063G .....each, $2.00

Stem Wind, Thirty Hour Clocks

Panama

Adapted to small cowl boards, a No 16 size watch is used

Base . . in., 3
Height . . in., ⅝

Black and nickel

Each $4.75

One in a Box

Outlook Windshield Cleaners

An unusually efficient windshield cleaner.

It is equipped with a rubber roller which protects the glass and keeps the tension even, so that the wiper is held firmly, snugly, uniformly against the glass at all times.

The tension may be adjusted by adjusting the rubber roller.

Type 1 Type 2

Winged Wheel Radiator Ornaments

Height . . in., 3½
Width . . in., 4½
Gold or nickel finish.

No. 6935.....each, $2.00

Stem Wind, Thirty Hour Clocks

Frisco

Beveled crystal, concealed winding stem. Sets flush with dash.

Dial . . . . in., 2½
Base.. .. .... .in., 2⅝
Length of clock behind cowl ring . in., 1¼
Cowl ring.....in., 3⅝

Black and nickel

No 2 .....each, $5.50

One in a Box

Type 1 Fits practically any open car. Fastens over windshield frame ... .each, $2.00

Key Wind, Eight Day Clocks

Standard eight-day movement with non glaring silver etched metal dial

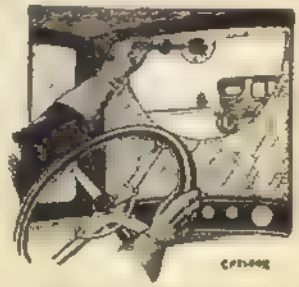
Dial . . in., 2¼
Base .. . . .in., 2½
Cowl Ring .in., 3½
Length of clock behind ring.in., 1⅝

New Haven Cowl.....each, $12.25

Rim Wind, Rim Set, Eight Day Clocks

Dial .. .in., 2½
Base . .in., 2½
Cowl Ring .in., 3½
Length of clock behind ring.in., 1¼
Black and nickel

No. 12B Cowl .....each, $14.50



Type 2 Fastens through the glass. Suitable for any type car. Neat and attractive ...each, $2.00

Windshield Weather Strips

This Windshield Weather Strip is furnished in 42 in. lengths and packed 15 lengths to a box. It can also be furnished in any length up to 10 ft. on special order. Every car owner should carry a length of this for an emergency as it absolutely prevents rain and snow from beating in between the cracks of the shield.

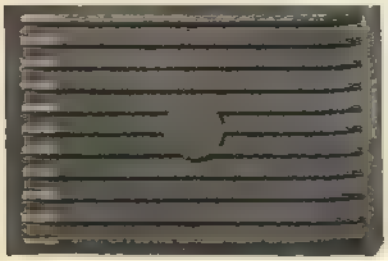
No. 97 Each.....$0.75

Windshield Weather Strips

Made especially to fit offset windshield on Ford car. Comes in 37 in. lengths; packed twelve lengths to a box. Can be furnished in any lengths up to ten feet on special orders.

No. 109 .....each, $0.85

Cherokee Running Board Mats



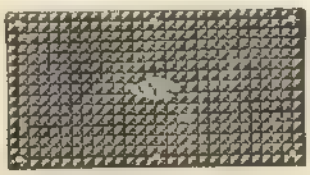
Cherokee Running Board Mats are made of the highest quality all rubber composition having a glossy black finish which remains so during the entire life of the mat.

They prevent dirt from being carried into the car and assure safety in alighting.

Size 7¼ x 11 inches with reinforced eyelets.

Each $1.00

Aluminum Heel Plates



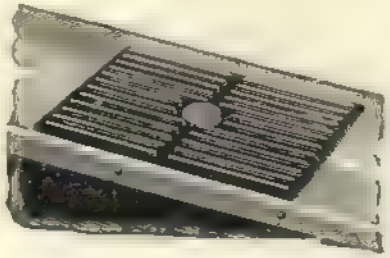
Pyramid style, made of aluminum, easily attached by six screws or split rivets.

6x10¼ in. .....each, $0.60
5x 8 in. ..... each, .40

Stanwood Safety Step Plates

The different types of plates perform the same office for the automobile that the vestibule mat does for the house and will appeal to and insure contentment through cleanliness to those who care.

They are a winter necessity, a summer luxury and a hygienic requirement—a symbol of safety and car cleanliness. Will not become saturated with moisture.



Rubber molded on a perforated metal plate, 24 projecting ribs. Size 8 in. wide, 11½ in. long. Keeps the car clean. Assures safety. Adds to car refinement. Quickly applied.

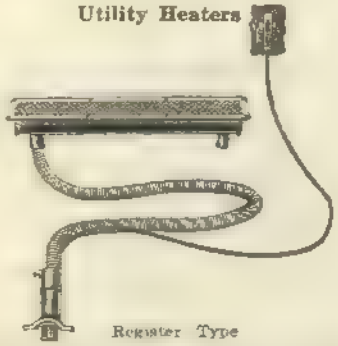
Type C..... each, $1.60

Stanwood Accelerator Heel Plates

A perforated metal plate entirely covered with rubber and provided with a series of longitudinal ribs firmly molded to the metal plate. Size of plate 4 in. wide, 11½ in. long.

Each $0.85

Utility Heaters



Register Type

Designed to fit cars too small for a foot rail type heater. This heater sinks below level of floor, all that shows being the nickel plated register.

Control can be located at driver's seat or in tonneau as preferred.

Utilizes the heat from the exhaust of the car to heat the car itself.

Noiseless in action and will furnish sufficient heat to warm car without becoming hot enough to burn shoes or robes.

Utility Register Type 27 in. long ....each, $30.00
Utility Jr. 17 in. long ....each, 22.50
Utility Jr. Buick Special ..each, 25.00

Automobile Blue Books

"America's Standard road guide since 1901." Gives detailed running directions for every mile to any place that can be reached by automobile—every bit of information both before starting and also en route to make every trip a success.

For every section of the country there is a corresponding 1921 Automobile Blue Book.

All volumes are uniform in style, size and binding, average 1000 pages, printed on special thin paper, with hundreds of maps and illustrations, in limp "Royal Blue" binding, stamped in gold.

Vol. 1 New York State, including Long Island, Ontario and adjacent Quebec, with extension routes into adjacent New England, Pennsylvania, New Jersey and Ohio.

Vol. 2 Connecticut, Massachusetts, New Hampshire, Rhode Island, Vermont, Maine, Quebec, New Brunswick, Nova Scotia and New York State east of Hudson River.

Vol. 3 Pennsylvania, New Jersey, Delaware, Maryland, Virginia, West Virginia and District of Columbia, with extension routes into North Carolina, Tennessee, southern New York State and eastern Ohio.

Vol. 4 Ohio, Indiana, Kentucky and Lower Peninsula of Michigan, with extension routes to Chicago, Clinton, St. Louis, Nashville, Buffalo and Pittsburgh.

Vol. 5 Iowa, Illinois, Missouri, Southern Wisconsin, Western Kentucky and Western Indiana, with extension routes to St. Paul, Minneapolis, Memphis, Little Rock and Topeka.

Vol. 6 Florida, Georgia, Alabama, North Carolina, South Carolina, Mississippi, Tennessee and Eastern Louisiana, with extension routes to Washington, Louisville, Cincinnati and Lexington.

Vol 7 Colorado, Nebraska, Kansas Texas, Oklahoma, Louisiana, Arkansas, New Mexico, Southern Wyoming and Eastern Utah, with extension routes to Phoenix, Grand Canyon, St. Louis, Salt Lake City, and Clinton

Vol. 8 California, Nevada, Utah and Arizona, with extension routes into Oregon and New Mexico and to Yellowstone Park, Cheyenne, Denver and El Paso.

Vol. 9 Washington, Oregon, Idaho, Montana, Wyoming, North Dakota, South Dakota, Northern Nebraska, Alberta, Saskatchewan, Manitoba and British Columbia, with extension routes to San Francisco, Salt Lake City, Denver and Minneapolis.

Vol. 10 Wisconsin, Minnesota, Upper Peninsula of Michigan, Northern Iowa and Northern Illinois, with extension routes into eastern part of the Dakotas, also to Port Arthur, Winnipeg, St. Louis, Kansas City and St. Joseph, Mo.

Any of the above volumes .....each, $4.00

Vol. T Transcontinental Blue Book. Including the main, heavy trunk lines of travel for use of long distance tourists, particularly for coast to coast tourists. The volume is absolutely limited to these main highways and no other roads or side routes are given.

Each $5.00

Vol. A New York Metropolitan Blue Book. An intimate guide to New York City and surroundings within a radius of 50 miles.

Each $3.00

Holders with Transparent Face

	Each
In genuine leather, Royal Blue finish...	$3.50
In imitation leather, Royal Blue finish....	2.50

Utility Heaters

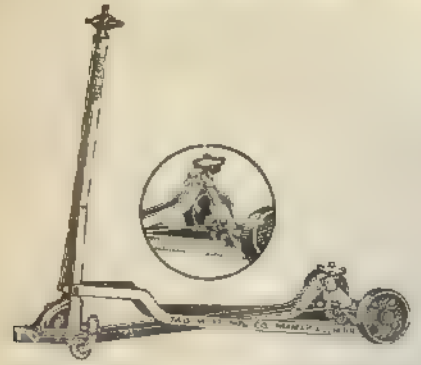
Foot Rail Type

An ornamental foot rail heater, utilizing the heat of the exhaust to heat the car. Finished in nickel, reliable and heats car without cost.

Utility 27 in. long.....each, $20.00
Utility Front seat heater, 17 in... .....each, 12.50
Utility Jr. For Fords.....each, 9.00
Utility Deluxe For 8 cyl. cars.... .....each, 25.00

GARAGE JACKS

RED DEVIL DOLLY JACKS



Made of electric steel castings and mild steel bars; steel roller bearings; a big quick lift, roller caster, to swing front or rear of heaviest car or truck; a turn table for any spot in garage; long enough to reach under running boards or rear bumper and spare tire rack; low enough to pass under the raised wheels; indispensable in crowded garages; washrack, unloading freight shipments of automobiles, handling cars in warehouses, salesrooms and numerous other places.

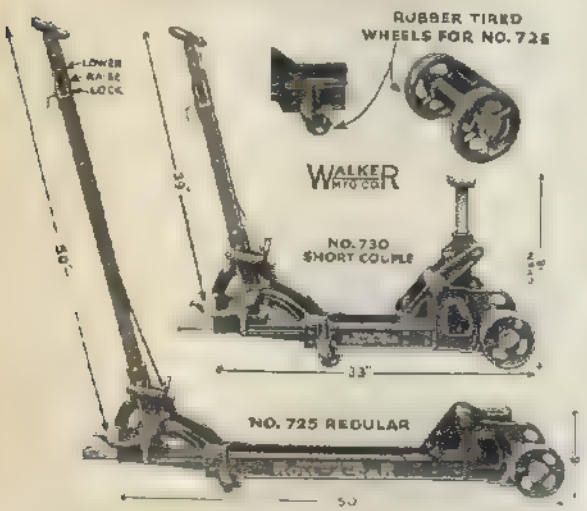
Red Devil Dolly Jacks; range of adjustment 8 to 14½ inches; lifts 4 inches at one stroke; diameter of wheels 8¼ inches; wheel tread 2 inches; length of truck 54 inches; width of track, outside 15 inches; distance between wheels 11 inches; weight 125 pounds. ..... Each $45.00

NEW WAY JACKS

For quick action in lifting and shifting cars or trucks length of frame and wheels over all 40 inches; pivoting wheels, guided and controlled by handle; lifting capacity 5000 pounds; lifting standard composed of two sections, one telescoping within other, and operated by ratchet lift; extremely heavy and well constructed; lifting mechanism is of hardened steel; maximum lift 19 inches; minimum height 9 inches; wheels are equipped with roller bearings and caster under front is equipped with set of ball bearings.

Weaver New-Way Jacks; weight 100 pounds Each $32 50

WALKER ROLL-A-CAR JACKS



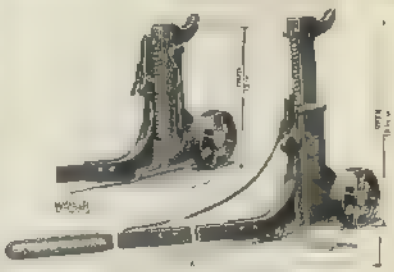
For lifting and shifting cars or trucks; can be placed in position under car in few seconds; control latch on handle gives three absolute controls, raising, locking and reverse; foot pedal at base raises or lowers rack bar by slight pressure of operator's foot; car quickly raised by pumping main handle up and down; each stroke of handle gives ¾-inch raise; main frames of malleable iron; lifting pawls, high carbon drop forged steel, heat treated; front and rear wheels of malleable iron; springs of oil tempered steel; high carbon steel rack bars; cap of drop forged heat treated steel

No. 725—Roll-A-Car Jacks; height 8 inches; raise 10 inches; length 50 inches; cap. 5000 pounds; weight 117 pounds ..... Each $50.00

No. 726—Roll-A-Car Jacks; same as No. 725 except rubber tires..... Each 60 00

No. 730—Roll-A-Car Jacks; same as No. 725 except short coupled; especially designed for taking automobiles out of freight cars..... Each 50.00

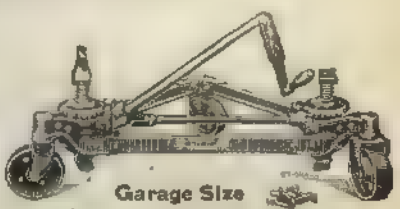
WALKER JUMP JACKS



Especially designed for tire service work; to operate, catch hold of long handle, roll jack underneath axle of car, pull chain attached to handle of car, lifting rack bar against axle; automatically locking racking in place; pressing down on handle shoves wheels underneath car, automatically raising it to proper height; quickly lowered by raising handle.

Walker Jump Jacks; height 13 inches; raise 6 inches; 6-foot handle; cap. 1 ton; weight 30 pounds Each $12 00

AUTO TWIN-JACKS



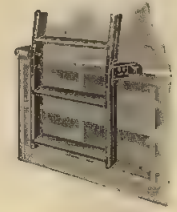
Provides efficient and practical means of handling complete, or dismantled automobiles in garage, repair shop, storage room, paint shop, etc.; one man can readily manipulate a car in any desired manner. Casters and lifting mechanism are fully equipped with ball and roller bearings; very heavy loads can be raised and transported with extreme ease; jacks are designed to take either front or rear axle of car, even though equipped with truss rods; screw hoisting mechanism prevents any possibility of accident; no treacherous ratchets to jar out of engagement, or to be accidentally tripped off by workman while under car.

Weaver Auto Twin Jacks; small car size; 1⅛ in. screws, 28 inches apart; 34 inches between wheels; length handle 34 inches; cap. 4000 pounds; weight 50 pounds..... Each $15 00

Weaver Auto Twin Jacks; heavy type; 1¼-inch screws, 28 inches apart; 34 inches between wheels; length handle 40 inches; cap. 8000 pounds; weight 110 pounds..... Each 24 00

ROLLING STORE OR SHELF LADDERS

A Medium Golden Oak Finish is regularly supplied, but we can furnish Lighter or Darker to match Samples, at No Extra Charge. A 9-inch Extra Deep Top can also be furnished, if desired, at No Extra Charge. Ladder is made of selected Kiln Dried Lumber, Rubbed, Oiled, Filled and Varnished; Sides are 3½ in. wide, Steps are 4 in. deep, and Ladder is 12 in. wide inside. Each Stay Bolt is mortised into Side Pieces and fastened with four Screws; Three Stay Bolts give Sides Extra Strength.



RELIABLE

STRAIGHT SIDE

Our most popular Style, recommended wherever Shelving will permit, i. e., where there is no Base Shelf, or other Projection. Throws practically all the weight on floor, instead of on Shelving or Ceiling. No Track required on Floor.

Track is ⅞ in. Round Steel Tube on Special Brackets, same construction as in Reliable Barn, Garage, Parlor and Fire Door Hangers.

Hangers are adjustable, bearing perfectly at any angle, and permitting free movement on uneven floor; four wheels prevent Binding or Derailing, 2 in Hard Paper Noiseless Wheels, with Brass Bushings.

Floor Travellers are Rubber Tired; 4 in. in Diameter.

In ordering, give Height from Floor to Center of Track (2-20 plus 4-40), Width or Projection of Base Ledge (5-50), Length of Track, and Number of Brackets (about 4 ft. apart, as Uprights permit.

Each

+No. F741A—Ladder, Complete with Fixtures . . . $39.60
Weight 4½ Lbs. per Foot

BENT SIDE

Similar to No. F741A, but with a Bend like **Shelf Base Ladder No. F741E.** Intended for use where Projection of Base Shelf is too great to take **Straight Side No. F741A** satisfactorily; but, wherever Height from Base Shelf or Counter Ledge to Track (2-20) is 6 ft. or more, and Projection of Base Shelf (5-50) is not over 16 in. the **Straight Side Ladder** is generally preferred as it is easier to ascend and descend and takes but little more Floor Space.

Track is ⅞ in Round Steel Tube, with Special Brackets.

There should be 12 in. Head Room above Track. This can be reduced to 7 in., if necessary, but must be so noted in ordering.

Hangers are the same as Hangers of **No. F741A Ladder.**

Floor Travellers same as in No. F741A Ladder.

In ordering, give Height from Floor to Center of Track (2-20 plus 4-40), Width or Projection of Base Ledge (5-50), Length of Track, and Number of Brackets (about 4 ft. apart, as Uprights permit).

Each

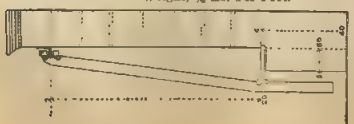
+No. F741D—Ladder, Complete with Fixtures $43.20
Weight 4½ Lbs. per Foot

Per Set

+No. F741B—Upper and Lower Fixtures only, for Nos F741A and F741D Ladders (regularly furnished for 12 in. Ladder) . $18.00
Weight 13 Lbs. Per Set

Per 100 Ft

+No. F741C—Tubular Track; ⅞ in. Diam., Complete with Brackets $21 60
Weight, ¾ Lb. Per Foot.



SHELF BASE

Especially for conditions which require that Ladder operate independently of both Ceiling and Floor Made with extra strong Fixtures, Track and Brackets, because all the weight is carried by Track.

Track is 1⅞ in. Diam. Round Steel Tube on Special Brackets, same construction as in Reliable Barn, Garage, Parlor, and Fire Door Hangers.

Hangers are Malleable Iron, with great strength and wide Bearing on both Track and Base Shelf; Wheels are 3¼ in. in Diam., Steel cased with hard fibre Tread, noiseless, and running with minimum of Friction. Lower Wheels of Upper Fixtures prevent Derailing or Binding.

In ordering, give the following measurements, (see Illustration below): 4-40, 5-50, 2-20, Length of Track, and Number of Brackets (about every 3 ft. as Uprights permit).

Each

+No. F741E—Ladder, Complete with Fixtures $36.00
Weight 4 Lbs. per Foot

Per Set

+No. F741F—Upper and Lower Fixtures only, for No. F741E Ladder (regularly furnished for 12 in. Ladder) $10.80
Weight 8½ Lbs. per Set

Per 100 Ft.

+No. F741H—Tubular Track; 1⅞ in Diam., Complete with Brackets $28 80
Weight 1¾ Lbs. per Foot

ROUND TRACK TROLLEY

For use with unusually high Shelving where Side Ladders will not meet requirements.

Track is Double Tube, or two round ⅞ in. Steel Rails suspended by Patent Hangers; same construction as in Reliable Barn, Garage, Parlor, and Fire Door Hangers. Brackets regularly furnished for 2 ft. Spacing, but may be Spaced as desired

Upper Fixtures are self adjusting, made carefully of Malleable Iron, with four Steel Cased Wheels with Hard Fibre Tread, operating easily and noiselessly and incapable of jumping the Track.

Floor Travellers are 3½ in. in Diam., and also have Hard Fibre Tread.

In ordering, give Height of Ceiling and Length of Track wanted.

Each

+No. F741J—Ladder, Complete with Fixtures . . . $34.20
Weight 4 Lbs. per Foot

Per Set

+No. F741K—Upper and Lower Fixtures only, for No F741J Ladder (regularly furnished for 12 in. Ladder) $10.80
Weight 10 Lbs. per Set

Per Foot

+No. F741L—Double Tubular Track, Complete with Brackets $0.45
Weight 1¾ Lbs. per Foot

Illustration to left, printed to show how to measure, in ordering Store Ladders.

2 to 20 is Distance from Ledge or Base Shelf to Center of Track.

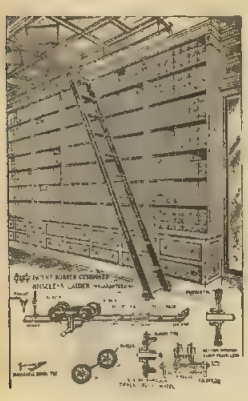
4 to 40 is Distance from Floor to Ledge or Base Shelf.

5 to 50 is Projection of Ledge or Base Shelf

+Entire Page for Factory Shipment Only; F. O. B. Danville, Ill.

ROLLING STORE OR SHELF LADDERS

For Hardware, Shoe, Drug, Grocery and General Stores, Jobbing Houses, Large Office Vaults, Libraries, Book Stores, Factories, Machine Shops and any place where High Shelving is to be easily, quickly and safely reached



No. F742C

No. F742D

No. F742E

No. F742F

MYERS CUSHION TIRED

For Shelving with narrow or no Base Ledge (wide counter at bottom forces Ladder too far away from Shelving). Easiest to mount; Both Hands free to carry Goods; Does not knock off slightly projecting Boxes; etc

Track is Double Angle Steel Rail, either suspended by jointed or rigid Hangers, or screwed close to ceiling with flanged Plates, thus leveling an uneven surface without any blocking, bridging, or other difficulty.

Ladder is constructed of strictly clear Georgia Pine, nicely finished, filled, and varnished; sides are 5 in. wide, open paneled; Steps are 5 in. deep, supported by special malleable Tees; Ladder is 12 in. wide.

Trolley is self-adjusting, of Malleable Iron, with turned Steel Bearings; 3 in. Anti-Rattler Wheels, Lathe finished and Rubber Tired.

Floor Travelers are 5 in. in diameter, composed of metal sides with Rubber Cushion Tires; Steel Axle runs through both Legs

Rubber Tread of both Hangers and Floor Travelers makes ladder almost noiseless.

In ordering, give exact Height of Ceiling and Length of each Track. If Height of Ceiling varies, give Height at each end and center of each Run of Track.

Each

✚**No. F742A—Ladder**, complete with Fixtures, but without Track or Brackets $46.00

Weight 40 to 50 Lbs., according to Length

Per Foot

✚**No. F742B—Track**, complete with Hangers $0.68

Weight 2 Lbs. per Foot

✚F. O. B. Ashland, Ohio

MILBRADT

For all kinds of High Shelving where Base Shelf is narrow, Roller Arms can be made longer, or placed at bottom to run against Base. Take up least possible Space; Noiseless; Light Push will propel Ladder Length of ordinary store.

Side Ladders are 17 in. wide, Sides 2½ in. wide, Top Shelf 7⅛ in. deep, Steps 3½ in deep; Trolley Ladders are 13½ in wide, Sides 3½ in. wide, Steps 4¼ in. deep. Widths given are at Top, and increase ¼ in every Step downward Ladders are of Oak with all Iron Parts Aluminum Bronzed. Finished in natural wood, but can be furnished to match any Sample, for which an extra charge of $1.00 is made; Ladders made of Birch, finished mahogany or any other color $2 00 extra per Ladder.

Each

✚**No. F742C—Trolley Ladder**; Strongly built, Runs on No. F742H Steel Track, fastened to Ceiling; Especially for Hardware Stores or Wholesale Houses, where Heavy Goods are handled; Base Ledge must be narrow enough to permit easy reaching; Easy to climb. $35 00

✚**No. F742D—Bent Ladder**; Preferable for Shelving with wide Base, as it will run close, Rubber rollers 35 00

✚**No. F742E—Bent Ladder**; for use where Shelving is not very strong, or where it does not run down to Floor; Floor Travelers relieve Track and Shelving of most of Weight; Top Travelers self-adjusting to any unevenness of Floor..... 36.00

✚**No. F742F—Bent Ladder**; Similar to No. F742D, but has Swinging Arms attached to Ladder that run against Strip on Shelving; Used where there is no ledge on Shelving 36 00

Average Weight of Ladders, 50 Lbs. Each

TRACK

Per Foot

✚**No. F742H—Trolley Track**, for No. F742C Ladder; complete with Lag Screws and Brackets $0.70

✚**No. F742J—Hardwood Track**, for No. F742E Ladder; complete with Screws..... .50

✚**No. F742K—Round Steel Track**, 1 in. Diam. outside, for Nos. F742D and F742F Ladders, Regular Weight, for use where Brackets can be fastened 4 ft. or less apart.. .70

✚**No. F742L—Round Steel Track**, 1 in. Diam. outside, for Nos. F742D and F742F Ladders; Extra Strong, for use where Brackets must be fastened 4 to 5 feet apart.. .80

Weight Steel Track, 1 Lb.; Wood Track, ½ Lb per Foot

BRACKETS

Each

✚**No. F742M—For Steel Track**, where Shelving is built with solid Uprights or Pilasters; are screwed to front edges of Uprights $0.90

Note—For other Construction of Shelving, we can furnish other Brackets.

✚F. O. B. St. Paul

HOW TO ORDER

Trolley Ladders: Give height from floor to ceiling

Bent or Straight Ladders: Give height from floor to top of base or counter shelf; width of base shelf to front edge of uprights or partition in shelving, height from base shelf to top shelf or cornice on which the track is to be fastened.

In all cases give exact length of Track required, as well as number of Brackets wanted. (To make a solid track, brackets should be four feet or less apart). For further information, send for Special Catalog.

✚Not carried in stock, can only be furnished by shipping direct from Factory

U. S. REVOLVERS

DOUBLE ACTION, rubber stock.

Shoots 22 short or long rim fire, 32 S. & W. and 38 S. & W. cartridges.

22 CALIBER, 7 SHOTS
NICKEL PLATED, RIM FIRE.
No. 1622—2¾ **in.** barrel, w't 8 oz. .....each $7.00

32 CALIBER, 5 SHOTS
NICKEL PLATED, CENTER FIRE.
No. 1632—2½ **in.** barrel, w't 12 oz. .....each $7.00

38 CALIBER, 5 SHOTS
NICKEL PLATED, CENTER FIRE.
No. 1638—2½ **in.** barrel, w't 17 oz. .....each $7.00

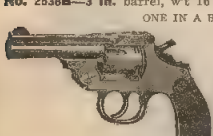
DOUBLE ACTION, automatic, hammer, rubber stock.

Shoots 32 S. & W. short and 38 S. & W. Center fire cartridges.

U. S. revolvers are guaranteed durable, made of the best material, correctly adjusted, and in every respect effective and accurate.

32 CALIBER, 5 SHOTS
NICKEL PLATED.
No. 2532—3 **in.** barrel, w't 14 oz. .....each $15.50
BLUED.
No. 2532B—3 **in.** barrel, w't 14 oz. .....each $15.50

38 CALIBER, 5 SHOTS
NICKEL PLATED.
No. 2538—3 **in.** barrel, w't 16 oz. .....each $15.50
BLUED.
No. 2538B—3 **in.** barrel, w't 16 oz. .....each $15.50
ONE IN A BOX



DOUBLE ACTION, automatic, hammerless rubber stock.

Shoots 22 short or 22 long rim fire, 32 S. & W. short, center fire and 38 S. & W. center fire cartridges.

22 CALIBER, 7 SHOTS
NICKEL PLATED.
No. 2722—3 **in.** barrel, w't 13 oz. .....each $14.00
BLUED.
No. 2722B—3 **in.** barrel, w't 13 oz. .....each $14.00

32 CALIBER, 5 SHOTS
NICKEL PLATED.
No. 2732—3 **in.** barrel, w't 13½ oz. .....each $14.00
BLUED.
No. 2732B—3 **in.** barrel, w't 13½ oz. .....each $14.00

38 CALIBER, 5 SHOTS
NICKEL PLATED.
No. 2738—3 **in.** barrel, w't 19 oz. .....each $14.00
BLUED.
No. 2738B—3 **in.** barrel, w't 19 oz. .....each $14.00

U. S. REVOLVERS

Gold finished cylinder and pearl handle, double action, automatic, hammer, nickel plated

Shoots 22 short or 22 long rim fire, 32 S. & W. short, center fire and 38 S. & W. center fire cartridges.

22 CALIBER, 7 SHOTS
HAMMER.
No. 2722GCP—3 **in.** barrel, w't 15 oz. .....each $17.60

32 CALIBER, 5 SHOTS
HAMMER.
No. 2732GCP—3 **in.** barrel, w't 14 oz. .....each $17.60
HAMMERLESS.
No. 2532GCP—3 **in.** barrel, w't 14 oz. .....each $19.00

38 CALIBER, 5 SHOTS
HAMMER.
No. 2738GCP—3 **in.** barrel, w't 19 oz. .....each $17.60
HAMMERLESS.
No. 2538GCP—3 **in.** barrel, w't 17 oz. .....each $19.00

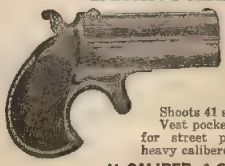
BABY HAMMERLESS

IMPROVED MODEL 1910

Double action, folding trigger, extra small frame, all parts interchangeable, rubber stock, 1⅞ in. barrel, 4 in. over all.

22 CALIBER, 6 SHOTS—SHOOTS 22 SHORTS ONLY
NICKEL PLATED.
No. 200S—Lots of twelve .....each $ 7.00
No. 200—Less than twelve .....each 7.50
No. 200P—**Fine quality pearl stocks** ....each 10.00
BLUED.
No. 200BS—Lots of twelve .....each $ 7.00
No. 200B—Less than twelve .....each 7.50
No. 200BP—**Fine quality pearl stocks** ..each 10.00
ONE IN A BOX

REMINGTON DERRINGERS



RIM FIRE, checkered, rubber stock, length over all 4½ in.

Shoots 41 short rim fire cartridges. Vest pocket size, especially handy for street protection. Gives two heavy calibered shots at short notice.

41 CALIBER, 2 SHOTS
BLUED.
No. 4B—3 **in.** barrel, w't 11 oz. .....each $18.90
ONE IN A BOX

IVER JOHNSON REVOLVERS

Safety Hammer, Automatic Double Action, Regular Rubber Stock.

22 CALIBER, 7 SHOTS
NICKEL PLATED, LONG RIM FIRE.
No. 3722—3 in. barrel, w't 13 oz. .....each $16.00
No. 3922—5 in. barrel, w't 14½ oz. .....each 17.00
No. 6022—6 in. barrel, w't 14½ oz. .....each 17.50
BLUED, LONG RIM FIRE.
No. 3722B—3 in. barrel, w't 13 oz. .....each $16.00
No. 3922B—5 in. barrel, w't 13 oz. .....each 17.00
No. 6022B—6 in. barrel, w't 14½ oz. .....each 17.50

32 CALIBER, 5 SHOTS
NICKEL PLATED.
No. 3332—2 in. barrel, w't 13 oz. .....each $16.00
No. 3732—3 in. barrel, w't 13½ oz. .....each 16.00
No. 3832—4 in. barrel, w't 13 oz. .....each 16.50
No. 6032—6 in. barrel, w't 14 oz. .....each 17.50
BLUED.
No. 3732B—3 in. barrel, w't 13½ oz. .....each $16.00
No. 3832B—4 in. barrel, w't 13 oz. .....each 16.50
No. 3932B—5 in. barrel, w't 14½ oz. .....each 17.00
No. 6032B—6 in. barrel, w't 14 oz. .....each 17.50

38 CALIBER, 5 SHOTS
NICKEL PLATED.
No. 3738—3½ in. barrel, w't 18½ oz. .....each $16.00
No. 3838— 4 in. barrel, w't 18 oz. .....each 16.50
BLUED.
No. 3738B—3½ in. barrel, w't 18½ oz. .....each $16.00
No. 3838B—4 in. barrel, w't 18 oz. .....each 16.50
No. 3938B—5 in. barrel, w't 18½ oz. .....each 17.00
No. 6038B—6 in. barrel, w't 20 oz. .....each 17.50

I. J. Model 1900, Double Action, Octagon Barrel, Regular Rubber Stock.

22 CALIBER, 7 SHOTS
NICKEL PLATED, LONG RIM FIRE.
No. 1422—2½ in. barrel, w't 8 oz. .....each $7.50
BLUED, LONG RIM FIRE.
No. 1422B—2½ in. barrel, w't 8 oz. .....each $7.50

32 CALIBER, 5 SHOTS
BLUED.
No. 1532B—2½ in. barrel, w't 12 oz. .....each $7.50

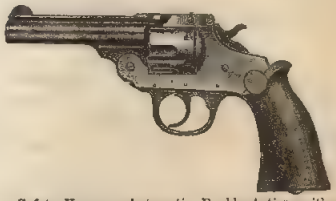
38 CALIBER, 5 SHOTS
BLUED.
No. 1538B—2½ in. barrel, w't 14 oz. .....each $7.50

Safety Hammerless, Automatic, Double Action, Regular Rubber Stock.

22 CALIBER, 7 SHOTS
NICKEL PLATED, LONG RIM FIRE.
No. 3522—3 in. barrel, w't 13 oz. .....each $17.50
BLUED.
No. 3522B—3 in. barrel, w't 13 oz. .....each $17.50

32 CALIBER, 5 SHOTS
NICKEL PLATED.
No. 3532—3 in. barrel, w't 14 oz. .....each $17.50
No. 3632—4 in. barrel, w't 14 oz. .....each 18.00
BLUED.
No. 3532B—3 in. barrel, w't 14 oz. .....each $17.50
No. 3632B—4 in. barrel, w't 14 oz. .....each 18.00

38 CALIBER, 5 SHOTS
NICKEL PLATED.
No. 3538—3½ in. barrel, w't 19 oz. .....each $17.50
No. 3638—4 in. barrel, w't 18 oz. .....each 18.00
BLUED.
No. 3538B—3½ in. barrel, w't 19 oz. .....each $17.50
No. 3638B—4 in. barrel, w't 18 oz. .....each 18.00
No. 3438B—5 in. barrel, w't 20 oz. .....each 18.50



Safety Hammer, Automatic, Double Action, with ONE-PIECE WESTERN WALNUT STOCK.

22 CALIBER, 7 SHOTS, Shoots 22 Short or Long.
BLUED.
No. 6022BG—6 in. barrel, w't 14½ oz. .....each $19.20

32 CALIBER, 5 SHOTS, Shoots 32 S. & W. Shorts.
NICKEL PLATED.
No. 3732G—3 in. barrel, w't 13 oz .....each $17.70

38 CALIBER, 5 SHOTS, Shoots 38 S. & W. Shorts.
BLUED.
No. 3838BG—4 in. barrel, w't 18 oz. .....each $18.20

SPECIAL LARGE FRAME

32 CALIBER, 6 SHOTS, Shoots 32 Colt New Police, 32 S. & W. and 32 S. & W. Long.
NICKEL PLATED.
No. 3832SG—4 in. barrel, w't 20 oz. .....each $18.20
BLUED.
No. 3832SBG—4 in. barrel, w't 20 oz. .....each $18.20
No. 3932SBG—5 in. barrel, w't 21 oz. .....each 18.70
No. 6032SBG—6 in. barrel, w't 22 oz. .....each 19.20

22 Caliber Revolvers are Adapted for 22 Short or Long Rim Fire, 32 Caliber for 32 S. & W. Short Center Fire, 38 Caliber for 38 S. & W. Center Fire Cartridges.

U. S. REVOLVERS

DOUBLE ACTION, rubber stock.

Shoots 22 short or long rim fire, 32 S. & W. and 38 S. & W. cartridges.

22 CALIBER, 7 SHOTS

NICKEL PLATED, RIM FIRE.

No. 1622—2½ in. barrel, w't 8 oz. .....each $7.00

32 CALIBER, 5 SHOTS

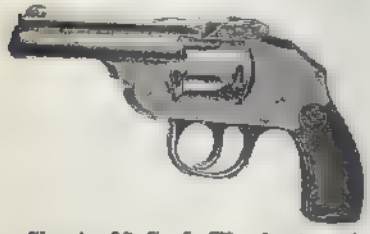
NICKEL PLATED, CENTER FIRE.

No. 1632—2½ in. barrel, w't 12 oz. .....each $7.00

38 CALIBER, 5 SHOTS

NICKEL PLATED, CENTER FIRE.

No. 1638—2½ in. barrel, w't 17 oz. .....each $7.00



DOUBLE ACTION, automatic, hammer, rubber stock.

Shoots 32 S. & W. short and 38 S. & W. Center fire cartridges.

U. S. revolvers are guaranteed durable, made of the best material, correctly adjusted, and in every respect effective and accurate.

32 CALIBER, 5 SHOTS

NICKEL PLATED.

No. 2532—3 in. barrel, w't 14 oz. .....each $15.50

BLUED.

No. 2532B—3 in. barrel, w't 14 oz. .....each $15.50

38 CALIBER, 5 SHOTS

NICKEL PLATED.

No. 2538—3 in. barrel, w't 16 oz. .....each $15.50

BLUED.

No. 2538B—3 in. barrel, w't 16 oz. .....each $15.50

ONE IN A BOX

DOUBLE ACTION, automatic, hammerless rubber stock.

Shoots 22 short or 22 long rim fire, 32 S. & W. short, center fire and 38 S. & W. center fire cartridges.

22 CALIBER, 7 SHOTS

NICKEL PLATED.

No. 2722—3 in. barrel, w't 13 oz. .....each $14.00

BLUED.

No. 2722B—3 in. barrel, w't 13 oz. .....each $14.00

32 CALIBER, 5 SHOTS

NICKEL PLATED.

No. 2732—3 in. barrel, w't 13½ oz. .....each $14.00

BLUED.

No. 2732B—3 in. barrel, w't 13½ oz. .....each $14.00

38 CALIBER, 5 SHOTS

NICKEL PLATED.

No. 2738—3 in. barrel, w't 19 oz. .....each $14.00

BLUED.

No. 2738B—3 in. barrel, w't 19 oz. .....each $14.00

U. S. REVOLVERS

Gold finished cylinder and pearl handle, double action, automatic, hammer, nickel plated.

Shoots 22 short or 22 long rim fire, 32 S. & W. short, center fire and 38 S. & W. center fire cartridges.

22 CALIBER, 7 SHOTS

HAMMER.

No. 2722GCP—3 in. barrel, w't 15 oz. .. ...each $17.60

32 CALIBER, 5 SHOTS

HAMMER.

No. 2732GCP—3 in. barrel, w't 14 oz. .....each $17.60

HAMMERLESS.

No. 2532GCP—3 in. barrel, w't 14 oz. .....each $19.00

38 CALIBER, 5 SHOTS

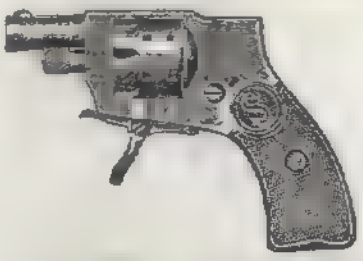
HAMMER.

No. 2738GCP—3 in. barrel, w't 19 oz. .....each $17.60

HAMMERLESS.

No. 2538GCP—3 in. barrel, w't 17 oz. .....each $19.00

BABY HAMMERLESS



IMPROVED MODEL 1910

Double action, folding trigger, extra small frame, all parts interchangeable, rubber stock, 1⅜ in. barrel, 4 in. over all.

22 CALIBER, 6 SHOTS—SHOOTS 22 SHORTS ONLY

NICKEL PLATED.

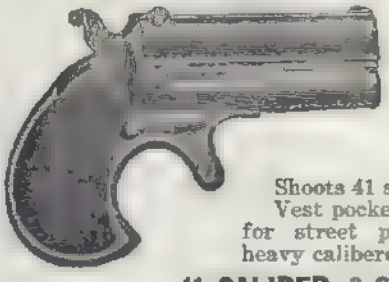
No. 200S—Lots of twelve .....each $ 7.00
No. 200—Less than twelve .....each 7.50
No. 200P—Fine quality pearl stocks ....each 10 00

BLUED.

No. 200BS—Lots of twelve .....each $ 7.00
No. 200B—Less than twelve .....each 7.50
No. 200BP—Fine quality pearl stocks ..each 10.00

ONE IN A BOX

REMINGTON DERRINGERS



RIM FIRE, checkered, rubber stock, length over all 4⅜ in.

Shoots 41 short rimfire cartridges. Vest pocket size, especially handy for street protection. Gives two heavy calibered shots at short notice.

41 CALIBER, 2 SHOTS

BLUED.

No. 4B—3 in. barrel, w't 11 oz. ....each $18.90

ONE IN A BOX

IVER JOHNSON REVOLVERS

Safety Hammer, Automatic Double Action, Regular Rubber Stock.

22 CALIBER, 7 SHOTS

NICKEL PLATED, LONG RIM FIRE.

No. 3722—3 in. barrel, w't 13 oz. .....each $16.00
No. 3922—5 in. barrel, w't 14½ oz. .....each 17.00
No. 6022—6 in. barrel, w't 14½ oz. .....each 17.50

BLUED, LONG RIM FIRE.

No. 3722B—3 in. barrel, w't 13 oz. .....each $16.00
No. 3922B—5 in. barrel, w't 13 oz. .....each 17.00
No. 6022B—6 in. barrel, w't 14½ oz. .....each 17.50

32 CALIBER, 5 SHOTS

NICKEL PLATED.

No. 3332—2 in. barrel, w't 13 oz. .....each $16.00
No. 3732—3 in. barrel, w't 13½ oz. .....each 16.00
No. 3832—4 in. barrel, w't 13 oz. .....each 16.50
No. 6032—6 in. barrel, w't 14 oz. .....each 17.50

BLUED.

No. 3732B—3 in. barrel, w't 13½ oz. .....each $16.00
No. 3832B—4 in. barrel, w't 13 oz. .....each 16.50
No. 3932B—5 in. barrel, w't 14½ oz. .....each 17.00
No. 6032B—6 in. barrel, w't 14 oz. .....each 17.50

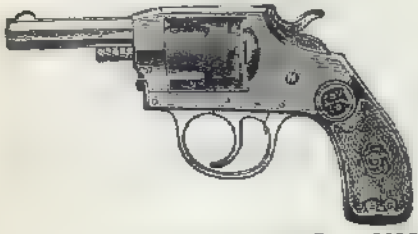
38 CALIBER, 5 SHOTS

NICKEL PLATED.

No. 3738—3½ in. barrel, w't 13½ oz. .....each $16.00
No. 3838— 4 in. barrel, w't 13 oz. .....each 16.50

BLUED.

No. 3738B—3½ in. barrel, w't 13½ oz. .....each $16.00
No. 3838B—4 in. barrel, w't 13 oz. .....each 16.50
No. 3938B—5 in. barrel, w't 13½ oz. .....each 17.00
No. 6038B—6 in. barrel, w't 20 oz. .....each 17.50



I. J. Model 1900, Double Action, Octagon Barrel, Regular Rubber Stock.

22 CALIBER, 7 SHOTS

NICKEL PLATED, LONG RIM FIRE.

No. 1422—2½ in. barrel, w't 8 oz. .....each $7.50

BLUED, LONG RIM FIRE.

No. 1422B—2½ in. barrel, w't 8 oz. .....each $7.50

32 CALIBER, 5 SHOTS

BLUED.

No. 1532B—2½ in. barrel, w't 12 oz. .....each $7.50

38 CALIBER, 5 SHOTS

BLUED.

No. 1538B—2½ in. barrel, w't 14 oz. .....each $7.50

Safety Hammerless, Automatic, Double Action, Regular Rubber Stock.

22 CALIBER, 7 SHOTS

NICKEL PLATED, LONG RIM FIRE.

No. 3522—3 in. barrel, w't 13 oz. .....each $17.50

BLUED.

No. 3522B—3 in. barrel, w't 13 oz. .....each $17.50

32 CALIBER, 5 SHOTS

NICKEL PLATED.

No. 3532—3 in. barrel, w't 14 oz. .....each $17.50
No. 3632—4 in. barrel, w't 14 oz. .....each 18.00

BLUED.

No. 3532B—3 in. barrel, w't 14 oz. .....each $17.50
No. 3632B—4 in. barrel, w't 14 oz. .....each 18.00

38 CALIBER, 5 SHOTS

NICKEL PLATED.

No. 3538—3½ in. barrel, w't 19 oz. .....each $17.50
No. 3638—4 in. barrel, w't 18 oz. .....each 18.00

BLUED.

No. 3538B—3½ in. barrel, w't 19 oz. .....each $17.50
No. 3638B—4 in. barrel, w't 18 oz. .....each 18 00
No. 3438B—5 in. barrel, w't 20 oz. .....each 18.50

Safety Hammer, Automatic, Double Action, with ONE-PIECE WESTERN WALNUT STOCK.

22 CALIBER, 7 SHOTS, Shoots 22 Short or Long.

BLUED.

No. 6022BG—6 in. barrel, w't 14½ oz. .....each $19.20

32 CALIBER, 5 SHOTS, Shoots 32 S. & W. Shorts.

NICKEL PLATED.

No. 3732G—3 in. barrel, w't 13 oz. .....each $17.70

38 CALIBER, 5 SHOTS, Shoots 38 S. & W. Shorts.

BLUED.

No. 3838BG—4 in. barrel, w't 18 oz. .....each $18.20

SPECIAL LARGE FRAME

32 CALIBER, 6 SHOTS, Shoots 32 Colt New Police, 32 S. & W. and 32 S. & W. Long.

NICKEL PLATED.

No. 3832SG—4 in. barrel, w't 20 oz. .....each $18.20

BLUED.

No. 3832SBG—4 in. barrel, w't 20 oz. .....each $18.20
No. 3932SBG—5 in. barrel, w't 21 oz. .....each 18.70
No. 6032SBG—6 in. barrel, w't 22 oz. .....each 19.20

22 Caliber Revolvers are Adapted for 22 Short or Long Rim Fire, 32 Caliber for 32 S. & W. Short Center Fire, 38 Caliber for 38 S. & W. Center Fire Cartridges.

REMINGTON AUTOMATIC PISTOL

No. 52—Pocket model hammerless, 32 cal. 8 shots, length 6⅝ in., width or thickenss 9/10 in., w't unloaded 21 oz., finish, browned (a durable dull black) stocks hard rubber .....each $31.50

Extra Magazines, for No. 52, 32 cal. automatic pistol, each $2.00

Stocks, hard rubber .....each $31.50

No. 51—Pocket model, hammerless, .380 caliber, 8 shots, length 6⅝ in., width or thickness 9/10 in., w't unloaded 21 oz., finish, browned (a durable dull black.)

Extra Magazines, for No. 51, 380 cal. automatic pistol, each $2.00

ONE IN A BOX

Self-Aiming and Completely Safe.

Capacity of magazine, seven cartridges; an additional cartridge can be carried in the chamber, ready to fire instantly when the safety lever is forward. This is two more cartridges than can be carried in any revolver of similar caliber.

Hammerless, with side ejection. Automatic grip safety prevents firing unless handle is grasped and trigger pulled. Permits carrying full cocked with similar safety.

Thumb-operated safety lever adds safety when pistol is laid away or carried. Also serves as an indicator, it and grip safety both showing whether or not hammer is cocked.

Magazine-removal automatic safety rear lock prevents firing if a cartridge is left in chamber when magazine is removed.

Breech remains positively locked until bullet has left the muzzle—not a blow-back action. Positive prevention of shellhead blowouts and breech escape of powder gas.

Each time trigger is pulled, fires one shot, automatically ejects empty shell, and reloads ready to fire. Accuracy and stopping power above police requirements. Especially designed for quick straight shooting—the first self-aiming pistol.

HARRINGTON & RICHARDSON AUTOMATIC PISTOL

No. 32H—.32 caliber, hammerless, 8 shots, 3½ in. barrel, length over all 6½ in., blued finish, w't 22 oz., each $27.00

Extra Magazines, for No. 32H, 32 cal. ....each $1.70

Use 32 cal. automatic smokeless cartridges.

ONE IN A BOX

Simplicity of construction, strength and reliability of mechanism, coil or spiral springs throughout reduce liability of breakage to a minimum.

Three safety devices are provided, one operated by the thumb of right hand and two are entirely automatic, thus insuring absolute safety in handling and carrying.

When the safety lever is in the down or normal position the word "Safe" is visible and the pistol cannot be discharged. By throwing the lever up with thumb the "Safe" is obscured and the pistol is ready for instant use.

The handle must be firmly grasped, compressing the grip safety, when the trigger is pulled to discharge the arm.

The grip safety positively locks the sear and the firing pin cannot be released until the grip safety is pressed in. It is impossible to fire the pistol by a jar of any kind.

The third safety, operated by the magazine, makes discharge impossible when the magazine is removed from the pistol. In all automatic pistols the hammer or firing pin is cocked after first shot has been fired and three is always a cartridge in the chamber until the last cartridge contained has been shot. In this pistol the possibility of unintentional discharge after removal of magazine is eliminated.

COLT REVOLVERS

POCKET POSITIVE, double action, jointless frame, simultaneous ejection, positive lock, center fire, rubber stock.

Use 32 Colt Police Positive, also 32 S. & W. short and long cartridges only.

32 CALIBER, 6 SHOTS

BLUED.

No. 7232B—2½ **in.** barrel, w't 15 oz. .....each $37.00
No. 7332B—3½ **in.** barrel, w't 16 oz. .....each 37.00

NICKEL PLATED.

No. 7332—3½ **in.** barrel, w't 16 oz. .....each $37.00

ONE IN A BOX

POLICE POSITIVE SPECIAL, jointless frame, simultaneous ejection, positive lock, center fire, rubber stock, double action.

For 38 cal. revolvers use 38 cal. long or short Colt's or 38 S. & W. special full, mid range and gallery load cartridges. 32-20 cal. revolvers are adapted for 32-20 or 32 W. C. F. Winchester rifle cartridges.

32-20 CALIBER, 6 SHOTS

BLUED.

No. 7432WB—4 **in.** barrel, w't 22 oz. .....each $40.30
No. 7532WB—5 **in.** barrel, w't 23 oz. .....each 40.30
No. 7632WB—6 **in.** barrel, w't 24 oz. .....each 40.30

38 CALIBER, 6 SHOTS

NICKEL PLATED.

No. 7238S—4 **in.** barrel, w't 22 oz. .....each $40.30
No. 7138S—5 **in.** barrel, w't 22 oz. .....each 40.30

BLUED.

No. 7238SB—4 **in.** barrel, w't 22 oz. .....each $40.30
No. 7138SB—5 **in.** barrel, w't 22 oz. .....each 40.30
No. 7338SB—6 **in.** barrel, w't 23 oz. .....each 40.30

ONE IN A BOX

COLT REVOLVERS

POLICE POSITIVE TARGET, jointless, solid frame, swing-out cylinder, simultaneous ejection, positive lock, rubber stock, double action, fitted with target sights.

No. 7932BT uses 32 Colt Positive, also 32 S. & W. short and long cartridges only.

22 W. R. F. CALIBER, 6 SHOTS

BLUED.

No. 7922BT—6 **in.** barrel, block rear sight adjustable for windage, removable bead front sight, blade fastened by screw, w't 22 oz. .....each $43.50

22 CALIBER, 6 SHOTS

BLUED.

No. 7922SBT—6 **in.** barrels, **rim fire, short, long and long rifle,** block rear sight, adjustable for windage, removable bead front sight, blade fastened by screw, w't 22 oz. .....each $43.50

32 CALIBER, 6 SHOTS

BLUED.

No. 7932BT—6 **in.** barrel, w't 19 oz. .....each $43.50

ONE IN A BOX

POLICE POSITIVE, double action, jointless frame, simultaneous ejection, positive lock, center fire, rubber stock.

For 38 Colt's Police Positive and 38 S. & W. cartridges only.

32 CALIBER, 6 SHOTS

BLUED.

No. 7832BP—4 **in.** barrel, w't 18 oz. .....each $38.20
No. 7732BP—5 **in.** barrel, w't 20 oz. .....each 38.20
No. 7932BP—6 **in.** barrel, w't 22 oz. .....each 38.20

For 32 Colt's Police Positive and 32 S. & W. cartridges only.

38 CALIBER, 6 SHOTS

NICKEL PLATED.

No. 7238—4 **in.** barrel, w't 20 oz. .....each $38.20

BLUED.

No. 7238B—4 **in.** barrel, wt 20 oz. .....each $38.20
No. 7138B—5 **in.** barrel, w't 22 oz. .....each 38.20
No. 7338B—6 **in.** barrel, w't 24 oz. .....each 38.20

ONE IN A BOX

SINGLE SHOT RIFLES

REMINGTON U. M. C. No. 6

Take-Down, Hammer

20 inch Remington steel tapered barrel, case hardened frame, walnut stock and fore end, steel butt plate, new design open front, rear and tang peep sights. Barrel detached by loosening thumb screw, length over all 34 inches, length taken down 20½ in. Weight about 3½ to 4 lb

No. 6. For .22 caliber short, long and long rifle rim fire cartridges ..... each, **$10.46**

No. 6. For .32 caliber short and long rim fire cartridges ..... each, **10.46**

REMINGTON U. M. C. No. 4

Take-Down, Hammer

22½ inch octagon steel barrel, tapered, carefully bored and rifled; walnut stocks and forearm; forged, case hardened frame; steel butt plate; automatic shell ejector which throws shell from chamber when breech is opened. Weight 4¼ lb. Length over all 38½ in., length taken down 22½ in.

No. 4. For .22 caliber short and long rim fire cartridges ..... each, **$15.54**

No. 4. For .32 caliber short and long rim fire cartridges ..... each, **15.54**

WINCHESTER MODEL 1904

Bolt Action, .22 Caliber, Take-Down

21 inch round barrel, adjustable rear and bead front sight with bright alloyed tip. Schuetzen butt stock 13½ inches long with blued steel rifle butt plate, blued steel trigger guard bolt action with rebounding lock. Length over all 39½ inches, weight about 4 pounds.

Model 1904. For 22 caliber short, long and extra long rim fire cartridges . . . . . each, **$12.46**

WINCHESTER MODEL 1902

Bolt Action, .22 Caliber, Take-Down

18 inch round barrel, straight grip stock, length of pull 13½ inches, drop at comb 1⅝ inches, drop at heel 2⅝ inches, rubber butt plate, length over all 33½ inches, new design trigger guard, open rear sight. When cocked the action is locked against opening until the firing pin falls. Weight about 3 pounds.

Model 1902. For .22 caliber short, long and extra long rim fire cartridges..... . . . each, **$10.38**

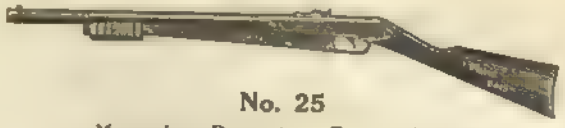
WINCHESTER THUMB TRIGGER

Take-Down, .22 Caliber

18 inch round steel barrel, bolt action, with rebounding lock. The gun is cocked by pulling rearward on the firing pin which is made with a knurled head. Trigger is located on the upper side of the grip at the rear of the bolt, and is operated by pressing down with the thumb. Stock is made of highly finished plain walnut with straight grip and rubber butt plate. Open rear sight and Winchester patented front sight having a bright alloyed tip. Weight 3 pounds.

Thumb Trigger. For .22 caliber short, long and extra long rim fire cartridges.....each, **$9.74**

DAISY AIR RIFLES



No. 25

Magazine Repeater, Pump Action

Magazine holds 50 shot and rifle can be fired at the rate of 30 shots per minute, firing from the shoulder with forced feed. Metal parts in gun blue, walnut stock hand polished. Adjustable sights.

No. 25. Length 38 inches, weight 3¼ lb.....per doz., **$60.00**

Half dozen in a box

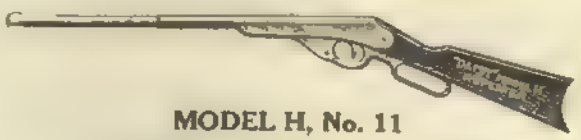
MODEL B, No. 3

Magazine Repeater, Lever Action

Magazine holds 1,000 shot and loads by operating the lever. Shoots with great force and precision. Turned genuine walnut stock with blued steel butt plate.

No. 3. Length 36 inches, weight 2⅝ lb.....per doz., **$36.00**

Half dozen in a box



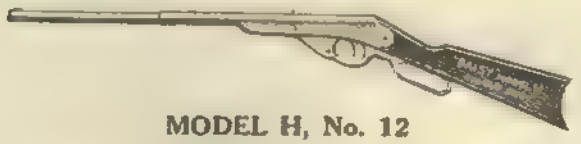
MODEL H, No. 11

Automatic Repeater, Lever Action

Magazine holds 350 shot. A very sturdy gun-like air rifle. Single piece nickel plated steel barrel, nickeled mountings, walnut stock.

No. 11. Length 31½ inches, weight 1¾ lb ...per doz., **$27.00**

One dozen in a box



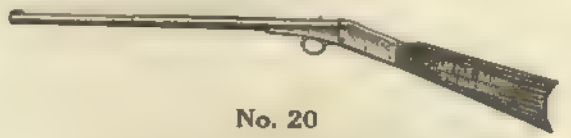
MODEL H, No. 12

Single Shot, Lever Action

Single piece nickel plated steel barrel, nickeled mountings, walnut stock, shoots air rifle shot or 17-100 darts

No. 12. Length 31½ inches, weight 1¾ lb....per doz., **$24.00**

One dozen in a box



No. 20

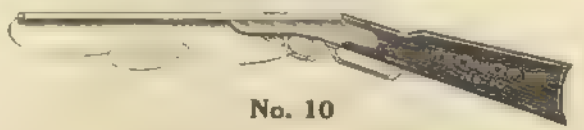
Single Shot, Break Action

Made entirely of steel, handsomely blued and fitted with black walnut stock. Shoots air rifle shot.

No. 20. Length 29 inches, weight 1¾ lb.....per doz., **$13.00**

One dozen in a box

POP GUNS



No. 10

Shoots a cork and makes a loud noise. Made entirely from steel, nickel plated, fitted with walnut stock. Supplied with cork and string.

No. 10. Length 17 inches, weight ⅞ lb.....per doz., **$5.40**

REPEATING RIFLES

SAVAGE MODEL 1899, HI-POWER HAMMERLESS

Lever Action

Chambered for .22 Hi-Power center fire cartridges.

Featherweight take-down pattern, 20 inch Hi-pressure steel, specially round tapered, with integral sight base; plain straight walnut stock and forearm; corrugated steel shotgun butt plate; nickel silver bead front and flat topped sporting rear sights; magazine holds 5 shots

***.22 Savage Hi-Power.** Weight about 6½ pounds, each, **$55.00**

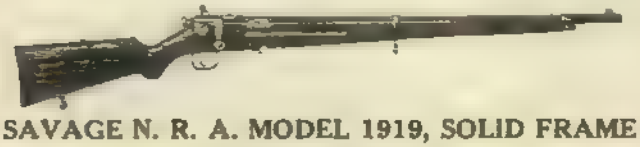
SAVAGE MODEL 1899, .250-3000 HAMMERLESS

Lever Action

Chambered for .250 Hi-Power center fire cartridges.

22 inch Hi-Pressure steel barrel, featherweight type, round tapered, with integral sight base; walnut stock with full pistol grip, checkered; checkered forearm; corrugated steel shotgun butt plate; flat top sporting rear and nickel silver bead front sights; magazine holds 5 shots

***.250-3000 Savage.** Weight about 7 pounds.....each, **$60.00**



SAVAGE N. R. A. MODEL 1919, SOLID FRAME

Bolt Action

Chambered for .22 rim fire, long rifle cartridges.

25 inch round Savage steel barrel, full military stock, oil finish, pistol grip, with bands and swivels for sling; marine corps front sight, wind gauge aperture rear sight; 5 shot, detachable box magazine. This rifle is designed primarily for target work, and is especially adapted for National Rifle Association competitions

***N.R.A. 1919 Savage.** Weight about 7 pounds.....each, **$35.00**

SAVAGE MODEL 1914, HAMMERLESS

Take-Down, Slide Action

Chambered for .22 short, long and long rifle rim fire cartridges.

24 inch Savage special steel octagon barrel, solid breech and top, American walnut stock, with pistol grip and corrugated steel butt plate; tubular magazine, holds 20 short, 17 long or 15 long rifle cartridges; length taken down 27½ inches.

Model 1914. Weight about 5¾ pounds.....each, **$32.30**

*Not carried in stock; will ship from factory

SINGLE SHOT RIFLES

SAVAGE JUNIOR MODEL 1904

Take-Down, Bolt Action

Chambered for .22 short, .22 long and .22 long rifle rim fire cartridges

Designed after the latest military bolt action rifles; ejects empty shells automatically; 18 inch round blued steel barrel, fitted with metal bead front and open rear sights; American walnut stock, nicely finished; blued frame and mountings, blued steel butt plate, polished bolt; length of trigger pull 12⅞ inches, length over all 33¼ inches.

Model 1904. Weight about 3 pounds.....each, **$9.75**

STEVENS FAVORITE

Take-Down

Chambered for .22, .25 or .32 rim fire cartridges.

24 inch round steel barrel, fitted with Rocky Mountain front and sporting rear sights; case hardened frame, solid breech block, oiled walnut stock and fore end, rubber butt plate; weight 4½ pounds.

No. 17 Favorite. .22 caliber.... each, **$12.50**
No. 17 Favorite. 25 caliber . . . each, **12.50**
No. 17 Favorite. .32 caliber each **12.50**

STEVENS CRACK SHOT

.22 Caliber, Take-Down

Especially designed for smokeless powder; 18 inch round barrel, blued frame, lever action, full oval walnut stock, carbine butt plate, knife blade front and open rear sights; adapted for C. B. caps, .22 short, long or long rifle rim fire cartridges

No. 26 Crack Shot. Weight 3¼ pounds.....each, **$8.00**

STEVENS LITTLE SCOUT

.22 Caliber, Take-Down

18 inch round barrel, case hardened frame, blued steel butt plate, nickel silver knife edge front sight and open rear sight; adapted for C. B. caps, .22 short, long or long rifle rim fire cartridges.

No. 14½ Little Scout. Weight 2¼ pounds.....each, **$7.00**

HAMILTON RIFLES

Take-Down

Chambered for .22 short and .22 long rim fire cartridges.

16 inch tapered steel barrel, open adjustable rear and knife blade front sight, flat gumwood stock and forearm, walnut finish; length over all 30 inches.

No. 27 Hamilton. Weight 2½ pounds. ..... each, **$3.75**

RENNIE, FORRESTT

Shipbuilding, Engineering & Dry Dock Company Ltd.

Works: WIVENHOE, ESSEX.

DRY DOCK 247 Feet. SHEER LEGS UP TO 40 Tons.

VESSELS UP TO 2,000 Tons D.W.

Machinery up to 1,000 I.H.P.

Cale sèche de 75 mètres. *Grues à flèche variable de 40 tonnes.*
Constructeurs de bateaux jusqu'à 2,000 tonnes de portée en lourd
Constructeurs de Moteurs jusqu'à 1 000 H.P.

Dique seco de 75 metros. Grúa de tije a Cabri s hasta 40 toneladas
Vapores hasta 2,000 toneldas de registro bruto.
Maquinaria hasta 1,000 caba los indicados

VESSELS FOR EXPORT ABROAD AND FOR RE-ERECTION.

Manufacturers of: -

Hand Steering Gears, Steam and Hand Capstans, Hand Windlasses, Winches, Forgings, Castings, Woodwork, Cabin Fittings, Folding Lavatories, Steering Wheels, Lifeboats, Launches.

Bateaux pour exportation—Bateaux démontables.
Constructeurs de :—
Gouvernails à Main—Cabestans à vapeur et à main—Guindeaux à main—Treuils—Pièces de forge—Pièces en fonte Boiseries Accessoires de cabines—Toilettes pliantes—Gouvernails—Canot de sauvetage, vedettes.

Navios para exportación al extranjero y para reerección.
Constructores de :—
Aparejos de timón á mano, Cabrestantes á vapor y á mano, Malacates a mano, Molinetes, Piezas de forja, de fundición, Maderamen, Accesorios para cabinas, Retretes plegables, Ruedas de timón, Botes salvavidas, Lanchas.

Cables { "ENTERPRISE, LIVERPOOL."

SOLE SELLING AGENTS:
Agents exclusifs pour la vente
Agentes Unicos a Vender

Codes used { A.B.C. (5th Edition), Lieber's, Bentley's, Western Union

JONES BURTON & CO., Ltd.

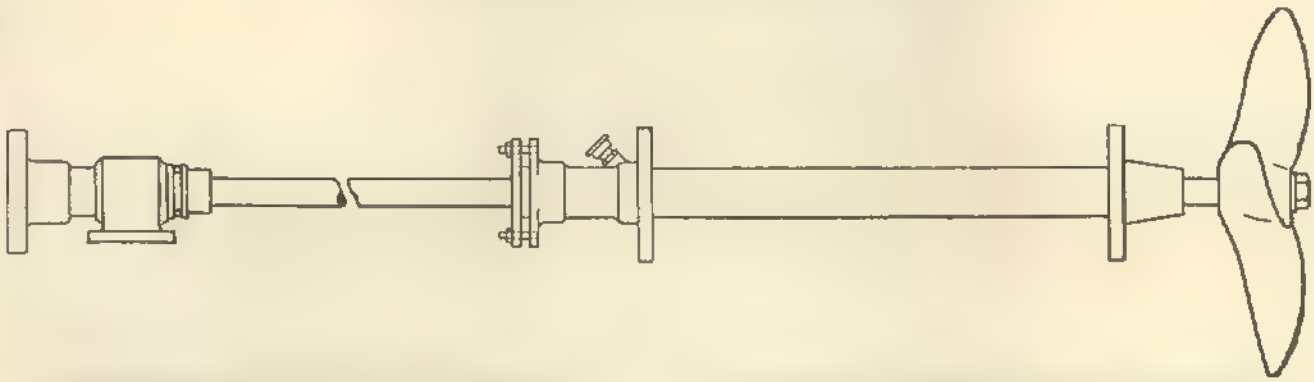
ENGINEERS, *INGENIEURS,* INGENIEROS,

LIVERPOOL.

Quotations for Complete Craft on Application.

Prix de petits bateaux complets cotés sur demande. Precios de Embarcaciones completos por vuelta del correo.

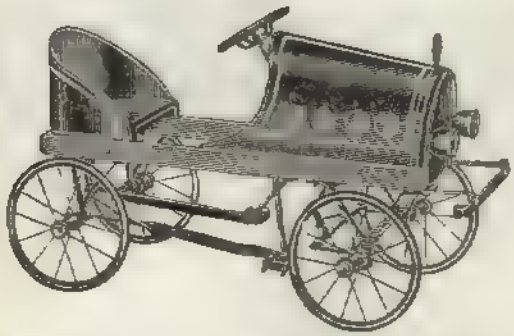
AJAX STANDARD STERN GEAR OUTFITS
:: :: WITH SOLID PROPELLERS. :: ::



MÉCANISMES DE MARCHE ARRIÈRE
ET
ÉQUIPEMENTS STANDARD POUR HÉLICES D'UNE SEULE PIÈCE.

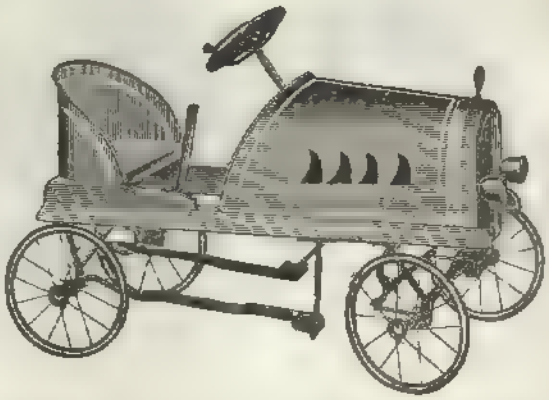
ENGRANAJES PARA CAMBIO DE MARCHA
Y
EQUIPOS STANDARD PARA HÉLICE SÓLIDA.

AUTOMOBILE WAGONS



No. N600—Body 11x30 in., stencilled Reo; finished in red, or blue with brilliant striping and decorating; wheels 10 in. with ⅞ in. rubber tires and nickel plated hub caps. Equipped with knuckle joint steering gear bumper, iron rim steering wheel, self starter button, two imitation wooden headlights and motormeter. Running gears finished in black enamel, wheels finished in bright red enamel, w't per doz. 456 lbs.,
per dozen $105.00

ONE IN A CRATE

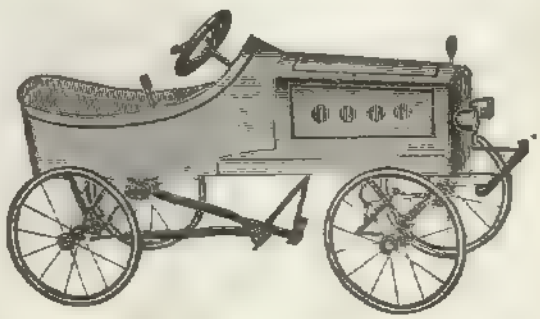


No. N384—Body 12x36 in., stencilled Paige; finished in red, grey, blue or yellow, with brilliant striping and decorations; wheels 10 in. with ⅞ in. rubber tires and nickel plated hub caps; equipped with shifting lever, knuckle joint steering gear, nickel plated gas lever attachment, motormeter, self starter button, two imitation wooden headlights; running gear finished in black enamel, wheels in red enamel, w't per dozen 588 lbs.,
per dozen $132.00

ONE IN A CRATE

No. N599—Body 11x30 in., stencilled Reo; finished in red, or blue with brilliant striping and decorating; wheels 10 in. with ⅞ in. rubber tires and nickel plated hub caps. Equipped with iron rim steering wheel, self starting button and motormeter. Running gears, finished in black enamel, wheels finished in bright red enamel, w't per doz. 456 lbs.,
per dozen $90.00

ONE IN A CRATE



No. N603—Body 13x38 in., stencilled Nash; finished in red, blue, yellow or gray with brilliant striping and decorating; wheels 12 in. with 1 in. rubber tires and nickel plated hub caps; equipped with shifting lever, knuckle joint steering gears, wood rim steering wheel with nickel plated gas lever attachments, motormeter, self starter button, two imitation wooden headlights, bumper, adjustable seat; running gears finished in black enamel, wheels finished in red enamel, w't per doz.
per dozen $165.00

ONE IN A CRATE

BRONCO is both a toy and a pet. The most sensible plaything a boy or girl can have. Rubber tires protect floors; no sharp corners to mar the furniture or tear clothes; no pinchy places. Comfortable saddle adjusts to three heights. Easy to steer. Safe and sound. Ready sellers.

No. T11—BRONCO

No. T15—BOBBY BRONCO

No. T14—BUSTER BRONCO

BRONCO

No. T11—Selected Western pine body, a thoroughly well made toy. Easy to pedal and easy to steer, attractively painted in colors. Disc steel rear wheels, artillery front wheel. Rubber tires. Extreme length 30 in., width 14½ in., height 23 in., seat height adjustable 16 to 18½ in. For child 3 to 6 year, w't 11 lbs. .....each $7.00
THREE IN A CRATE. WE DO NOT BREAK CRATES

BOBBY BRONCO

No. T15—Is expected to take a lot of hard knocks and its construction permits severe handling by young rough riders. Steel disc wheels with rubber tires are regular equipment. Extreme length 27 in., width 13 in., and seat height adjustable to 13¾-16 in., for children 3 to 6 years, w't 6 lbs. .....each $5.50
Attractively Painted in Colors.
THREE IN A CRATE. WE DO NOT BREAK CRATES

BUSTER BRONCO

No. T14—Is the rugged little brother to Bobby Bronco, and is identical in all respects except size. Extreme length 24 in., width 12 in., and seat height adjustable to 10½-13 in. For children 2 to 3 years, w't 5 lbs., each $4.20
Attractively Painted in Colors.
THREE IN A CRATE. WE DO NOT BREAK CRATES

REVO-NOC GUARANTEED SPARK PLUGS

In the REVO-NOC line of spark plugs we are offering to the automobile owner a "Guaranteed Product." The special design and construction features which make this guarantee possible assures the motorist of the continuous dependable service necessary to motor efficiency.

Construction Features.

Reinforced center electrode and multiple point construction of REVO-NOC plugs insure long life and a sure, steady spark. Loose assembly of center stem is another feature.

REVO-NOC porcelains are turned, not moulded, insuring against even the slightest variation and carry a heavy REVO-NOC brown glaze which seals against porosity and resulting oil seepage.

A Type for Every Motor

If complete combustion is to be obtained the spark must be delivered into the heart of the gas mixture—and this is impossible unless the proper type of spark plug is used. Few motorists realize the importance of this fact, which is the basic cause of decreased or increased gasoline mileage.

There is a REVO-NOC spark plug made especially for your motor—a guaranteed product of high merit.

DEALER'S DISPLAY CABINET OUTFIT

The outfit complete consists of—
7 Steel Display Cabinet lithographed in three colors.
1 Metal Sign lithographed in three colors (size 10x14).
150 Descriptive circulars.
50 Size Lists showing correct spark plug sizes.
100 REVO-NOC Spark Plugs in the following assortment—
48—**No. 5246**—½ in. Stan. 24—**No. 5247**—⅝in. S. A. E.
18—**No. 5248**—⅞ in. Exten. 10—**No. 5250**—¼ in. Long

No. T5245—Outfit complete ..... each **$58.00**

An Effective Merchandising Plan

The assortment idea consists of considerably more than the mere placing of REVO-NOC spark plugs on dealer's counter. It is in fact, a complete merchandising plan, offering in its entirety the three prime essentials which govern the marketability of any line:—

First—Attractive and forceful display.
Second—Effective consumer advertising literature.
Third—A product which actually carries the quality and serviceability claimed.

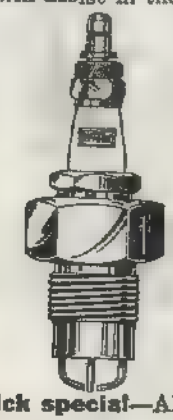
This Assortment fully covers all these essentials—providing not only for the convenience of dealer in the display and handling, but also a direct plan of co-operation which will assist in the sale of a heavy volume of spark plugs.

Special for Ford—Also recommended for Overland and Studebaker pleasure and commercial cars. Reo takes this thread with extension, w't per doz. 3½ lbs.

No. 5246—½ in. standard thread,
per box of 12 **$8.40**

Recommended for Cadillac, Chalmers, Hudson, Marmon, Maxwell, Packard, Paige and other cars requiring ⅝ in. S. A. E. threading, w't per doz. 3½ lbs.

No. 5247—⅝ in. S. A. E., box of 12 **$8.40**



Buick special—Also recommended for cars requiring deep penetration, such as Olds, Interstate, etc., w't per doz. 3½ lbs.

No. 5248—⅞ in. extension,
per box of 12 **$8.40**

Special type for use in cars with deep port or sleeve valve motors, such as Willys-Knight, w't per doz. 3½ lbs.

No. 5250—¼ in. long body,
per box of 12 **$8.40**

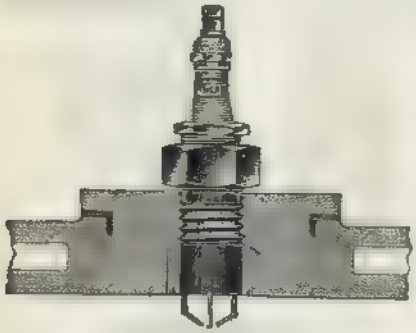
No. 5249—¼ in. long thread special for Dodge.
per box of 12 **$8.40**

Porcelains for all REVO-NOC plugs complete with center stems and gaskets, w't per doz. 1 lb.

No. 52—Assembled Porcelains only,
per box of 12 **$4.50**

POSITION OF SPARK PLUG IN CYLINDER

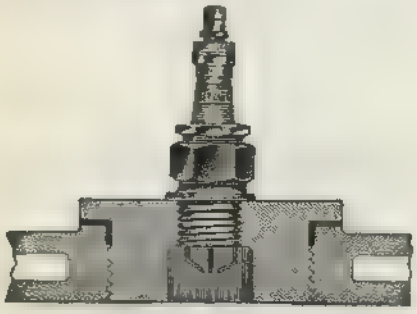
The correct position of the spark plug electrodes within the cylinder is an important item and the successful operation of an engine depends to a great extent upon the correct fitting of a spark plug.



RIGHT WAY

This illustration shows the correct position of the firing points of the plug in position in the cylinder.

The best results are obtained when the firing points are surrounded by the fresh gaseous mixture.



WRONG WAY

This illustration shows the improper fitting of a plug in the cylinder.

The recess between the firing points and the top of cylinder forms a pocket for burnt gas and permits carbon to accumulate rapidly, causing the plug to misfire.

Excessive oil in the combustion chamber, or too rich mixtures of gasoline will cause any spark plug to become fouled or short-circuited by carbon deposits. Unless you remove the cause of the trouble by giving proper attention to engine valves, pistons, rings, lubrication, carburetor adjustment, etc., cleaning will give you temporary relief.

It is also necessary to make any spark plug function perfectly to see that the gap between the electrodes (where the spark jumps) is kept adjusted to .020 to .032 inch. The requirements of any particular engine may vary—you may have to experiment to find just the right setting. When you have found it, keep your plugs always adjusted.

HERCULES JUNIOR SPARK PLUGS AND PORCELAINS

The HERCULES Junior also carries loose-assembled center stem; is manufactured from best of materials; compression tight; will not carbonize or foul; needs no atention after installation; built along scientific principles, both electrically and mechanically, by one of the oldest manufacturers of plugs.

Guaranteed by factory for TWO YEARS continuous service.

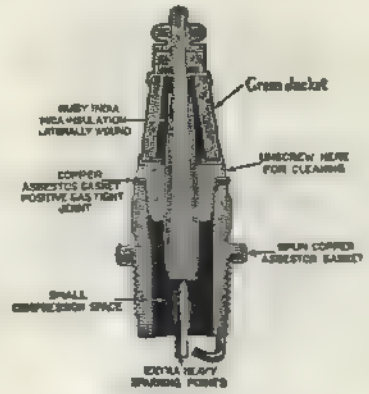
No. 5322—Jr., ½ in. plugs for Fords, w't per doz. 3½ lbs., per box of 12 ..$8.40

No. 5325A—Porcelains completely assembled, for all Hercules Jr., per box of 12 .....$4.00

SPLITDORF SPARK PLUGS

Ruby India Mica is used exclusively as insulation. Unlike porcelain, Ruby Mica is unaffected by heat, fibrous and tough, unbreakable and cannot slip or crack.

After the mica has been laterally wound around the electrode, it is forced into bushing so tightly that windings become, in effect, a solid mass, proof against oil and compression leakage—bushing then screwed into base with a copper asbestos gasket between. The same kind of gasket is used under base when screwed into cylinder.



No. 5272A—P179, ½ in. Ford Special w't per doz. 4 lbs., per box of 10 .....$10.00

No. 5273—P163, ⅝ in. S. A. E., w't per doz. 4 lbs. ....per box of 10 $11.60

No. 5273A—P165, ½ in. long, w't per doz. 4 lbs. ....per box of 10 $11.60

No. 5275—P126, motorcycle, metric, w't per doz. 4 lbs., per box of 10 .....$11.60

No. 5276—P785, ½ in. S. A. E. long body, w't per doz. 4 lbs., per box of 10 .....$11.60

No. 5277—P784, ½ in. long, Buick, w't doz. 4 lbs. .. per box of 10 $11.60

PORTABLE GARAGE JACKS

Excel

Made of high grade semi-steel; drop forgings; all wearing parts case hardened steel. Wide, heavy base, fitted with rollers for easy handling. Can be adjusted immediately to any part of frame or chassis. Equipped with toe extension 4½ inches from the ground, which permits getting under a broken axle.

NO.	Capacity	Lift	Leverage	Wt. Lbs.	EACH
20E	3000 lbs.	10½ to 24½ in.	60 in.	48 lbs.	$36.00

Toe Extension Lift, 4½ to 15 in.

Simplicity

This is one of the most practical, least complicated, and quickest acting garage jacks on the market. One downward push on the handle and the wheel is up in the air, ready for work. The car is held absolutely rigid. Jack cannot tip over, nor can car get away. There are three adjustments for height.

NO.	Capacity	Lift	Leverage	Wt. Each	EACH
6003	3000 lb.	5 in.	60 in.	30 lb.	$15.00

Rex

A scientifically designed, high powered Jack—quick in action—strong and heavily constructed—absolutely safe in operation—built without springs, cogs or ratchets. This jack rests firmly on a four-wheel suspension—no tipping or swaying of the car when raised

It wheels easily into position, no parts to drag. Positive in its action. It automatically locks in any lifted position. Just wheel it under the car and pull the lever. To lower it, grasp the handle and lift the lever.

Successfully operates under any part of the chassis of any car. Constructed of high grade, heat treated steel and malleable. Every part is designed to insure long life under hard usage. Wheel base 12 in., width, 5 in.

NO.	Collapsed Hgt.	Lifted Hgt.	Wt. Each	EACH
25R	5 in.	20½ in.	47 lb	$25.00

Marion

This Jack will not topple over or allow automobile to slip during the time it is being operated. Can positively be used under any make of automobile irrespective of the overhanging obstructions on a car such as large differentials, gasoline tanks, tire racks or bumpers. Made of malleable iron and steel. Strong and durable.

NO.	Capacity	Wt. Each	EACH
50M	50001b.	100 lb.	$32.00

RICHARD WHITE & SONS,

Telephone ... 25 WIDNES

WIDNES, ENGLAND.

Telegrams ... "RAILS, WIDNES"

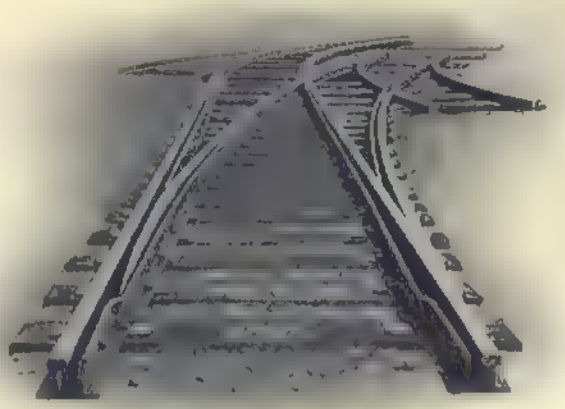
A.B.C. AND UNIVERSAL MINING CODE; MOREING AND NEAL CODE

RAIL MERCHANTS and MANUFACTURERS of POINTS and CROSSINGS

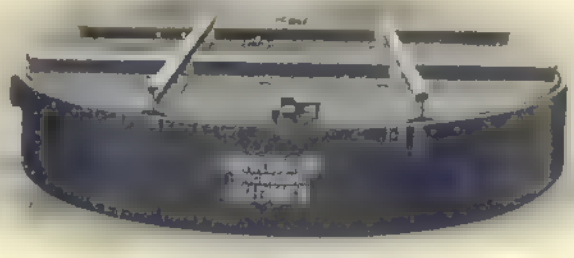
TO ANY SPECIFICATION.

Commerçants en Rails et Fabricants d'Aiguilles et Bifurcations pour tous les besoins.

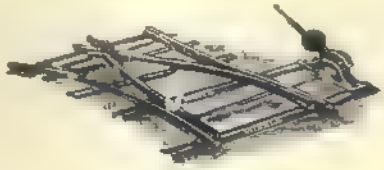
Comerciantes en Rieles y Fabricantes de Agujas y cruces para Rieles de Ferrocarriles según Especificaciones de Cualquier Exigencia



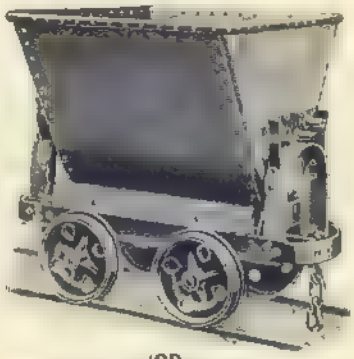
'AC
Points and Crossings, double checked throughout, made by us for H.M. Dockyard



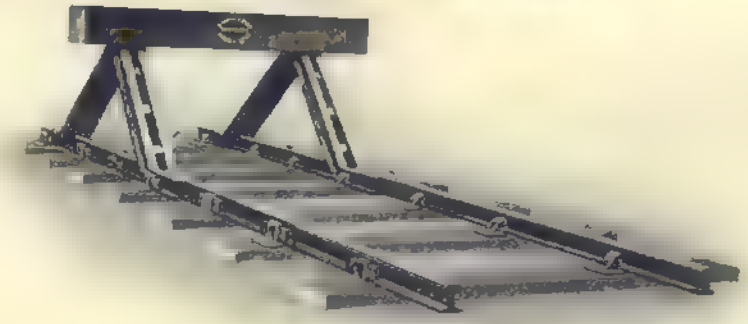
'IB
Turntables for all Rail Gauges



EF
Turnouts of all kinds.



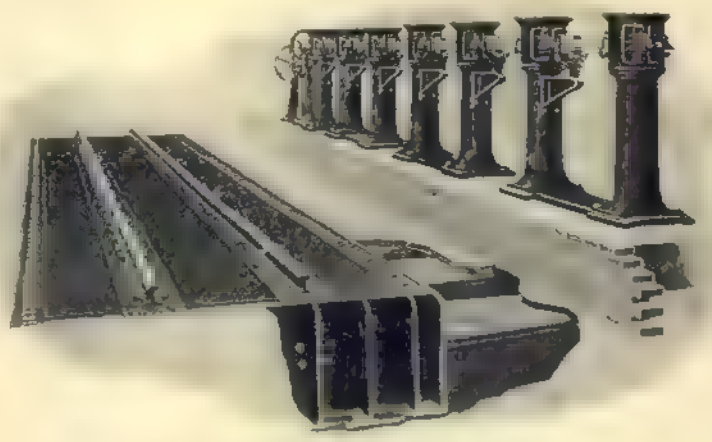
'OD
Tipping and Mining Wagons.



UX
Stopblocks for Ends of Sidings.

AVERY

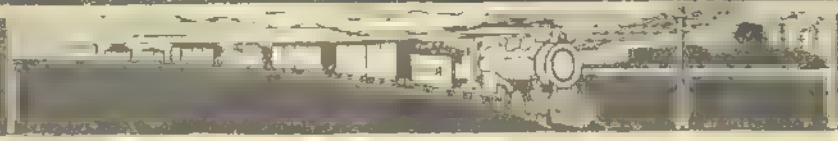
No. 125
RAILWAY TRUCK WEIGHBRIDGE.
Pont-Bascule pour les Wagons de Chemins de Fer
Puente-Báscula de Carro de Ferrocarril



No. 75.
LOCOMOTIVE ENGINE BALANCING TABLES.
Pont-Bascule pour les Locomotives.
Plataforma-Báscula para Locomotora

W. & T. AVERY, Ltd., Soho Foundry, BIRMINGHAM, England.

AVERY



AVERY

RIFLE CLEANING RODS

U. S. GOVERNMENT CLEANERS

Consists of a bristle brush and slotted wiper with detachable cord and weight. A separate slotted wiper is furnished for pulling through a dry cloth and for oiling purposes.

U. S. Government cleaners, .22, .25, .30, .32, .38 or .44 caliber, weight per dozen 1 pound. . . .per dozen, **$6.00**

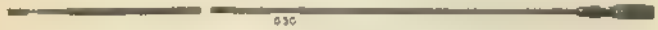
One in a canvas bag

No. 540

Four piece brass rod, ⅛ inch in diameter, slotted and notched, cocobolo swivel handle. Jointed and tapered for No. 560 bristle tip. Length 32 inches.

No. 540. .22 .25, .30 or .32 caliber, weight per dozen 2½ pounds . . . . . per dozen, **$9.00**

One in a cloth bag



No. 530

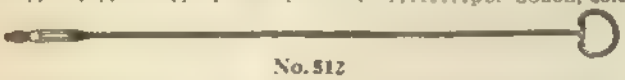
Solid brass rod, ⅛ inch in diameter, slotted and notched, cocobolo swivel handle. Length 32 inches

No. 530. .22, .25, .30 or .32 caliber. Weight per dozen 2 pounds .....per dozen, **$6.00**

No. 513

Solid brass rod, ⅛ inch diameter, slotted and notched, Stevens' patent ring handle. Length 32 inches.

No. 513. .22 caliber. Weight per dozen about 2 pounds .....per dozen, **$3.60**



No. 512

Coppered steel rod, flattened and slotted end, with jagged tip. Stevens' patent ring handle. Rod ⅛ inch in diameter. Length 32 inches.

No. 512. .32 caliber. Weight per dozen about 2 pounds .....per dozen, **$1.30**

No. 505

Twisted copper wire, ringed handle, pure bristle brush Length 27 inches.

No. 505. .22 caliber. Weight per dozen about 2 pounds .....per dozen, **$1.20**

PYRAMID SOLVENT

A non-acid nitro solvent that is absolutely free from moisture, for all firearms. Neutralizes and removes all the residue of smokeless or black powder and loosens metal fouling. Does not injure the barrel in any manner

Pyramid Solvent. 3 ounce cans..... .....per dozen, **$4.80**

One dozen in a box

GUN OILS

REM-OIL WINCHESTER 3-IN-ONE

Rem-Oil. 2½ ounce bottles.....per dozen, **$3.00**
Winchester. Light, 1 ounce bottles.....per dozen, **1.80**
Winchester. Heavy, 1 ounce bottles.....per dozen, **1.80**

3-in-One Oil

No. 1. 3-in-1, small 1 ounce bottles.....per dozen, **$1.80**
No. 3. 3-in-1, large 3 ounce bottles.....per dozen, **3.60**
No. 3½. 3-in-1, 3½ ounce cans.....per dozen, **4.80**
No. 8. 3-in-1, 8 ounce bottles.....per dozen, **6.00**

One ounce, two dozen in a box; other sizes, one dozen in a box

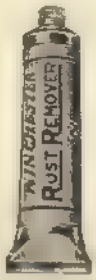
WINCHESTER UTILITY OILS

A light lubricant for use on sewing machines, electric fans, firearms, cream separators, etc. Also for cleaning and polishing cutlery, silver or metal ware

General Utility Oil. 3 ounce cans... per dozen, **$3.60**
General Utility Oil. 1 ounce bottles. . ..per dozen, **1.80**

One dozen in a box

RUST REMOVERS

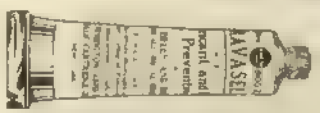


REMINGTON U. M. C. **WINCHESTER**

Remington U. M. C. In round tin boxes per dozen, **$3.00**
Winchester. In collapsible tubes . .per dozen, **3.00**

One dozen in a box

GUN GREASES



REMINGTON U. M. C. **WINCHESTER**

Remington U. M. C. In collapsible tubes per dozen, **$1.80**
Winchester. In collapsible tubes..... . per dozen, **1.80**

One dozen in a box

WINCHESTER AIR RIFLE SHOT

A special size shot which fits practically all standard air rifles. Made uniform in size and hardness. Packed in handy tubes for conveniently carrying in the pocket

Winchester Air Rifle Shot. 4 ounce tubes, 100 tubes in a case.....per case, **$10.00**

BLACK SPORTING POWDER

FG, FFG AND FFFG

25 pound kegs..... each, $
6¼ pound kegs. .. . . each
1 pound cans (25 in a case) . each, .

PRIMERS

WINCHESTER OR REMINGTON U. M. C.

No. 1W **No. 1** **No. 1½W** **No. 1½** **No. 2W** **No. 2**

No. 1W and 1. Improved primers, adapted to .32 extra long .22 .32 .38 and .44 Winchester, .38 extra long, .44 Evans and .45 70 Marlin cartridges.

No. 1W Winchester. 100 in a box . . ..per 1,000, **$3.80**
No. 1 Remington U. M. C. 100 in . ox . per 1,000, **3.80**
Weight 15 ounces per 1,000

No. 1½W and No. 1½. Improved primers, adapted to .32 S. & W. .32 short Colt, .32 long Colt, .38 short Colt, .38 long Colt, .38 M. & H., .38 S. & W., .41 short Colt, .41 long Colt and .44 M. & H. cartridges.

No. 1½W Winchester. 100 in a box . .. .per 1,000, **$3.80**
No. 1½ Remington U. M. C. 100 in a box . ..per 1,000, **3.80**
Weight 13 ounces per 1,000

No. 2W and No. 2. Improved copper primers, adapted to .41 .44 S. & W. Russian .44 S. & W. American, .44 Colt, .45 Webley .45 Colt .45 S. & W., .50 pistol cartridges and paper and brass shot shells

No. 2W Winchester. 100 in a box . .. per 1,000 **$3.80**
No. 2 Remington U. M. C. 100 in a box . per 1,000, **3.80**
Weight 17 ounces per 1,000

No. 3W **No. 2½** **New No. 4** **No. 33**

No. 3W and No. 2½. Improved primers Adapted for smokeless powders.

No. 3W Winchester. 100 in a box.... . .per 1,000, **$3.80**
Weight 17 ounces per 1,000

New No. 4. Winchester primers for Winchester Leader and Repeater shells with smokeless powders.

New No. 4 Winchester. 100 in a box.....per 1,000, **$5.50**

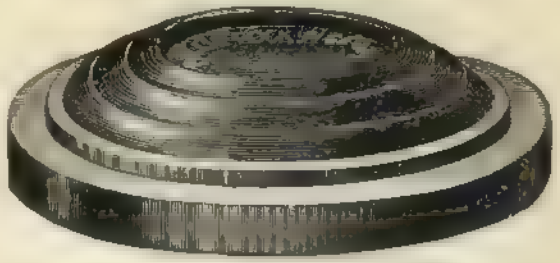
No. 33 Remington U. M. C. Primers for Remington U. M C. Nitro Club and Arrow shells, with smokeless powders.

No. 33 Remington U. M. C. 100 in a box.....per 1,000, **$5.50**
Weight 17 ounces per 1,000

PERCUSSION CAPS

F. L. Foil lined, sizes 10, 11, 12 and 13.....per 1,000, **$1.35**
100 in a box, 1,000 in a package

BLUE ROCK TARGETS



Blue Rock Targets or Clay Pigeons. 500 in a barrel, approximate weight per barrel 135 pounds . . . . . per 1,000, $.

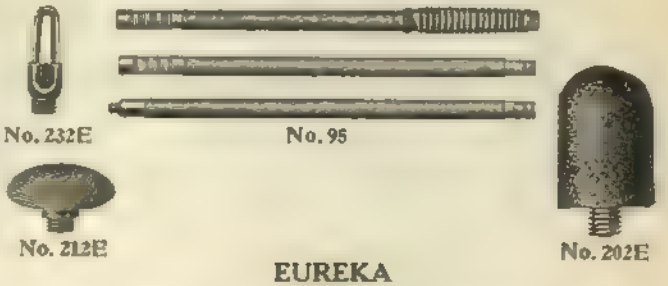
BLUE ROCK TRAPS

DU PONT HAND

Japanned malleable iron frame, heavy steel spring, will fit in suitcase or traveling bag. Trap is sprung by trigger and targets can be thrown in any direction. Spring can be adjusted to regulate distance from 25 to 80 yards.

DuPont Hand Traps, length of arm 16 inches, length over all 34 inches, weight 6¼ pounds.....each, $.

CLEANING IMPLEMENTS



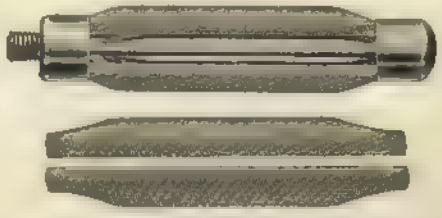
No. 232E **No. 95** **No. 212E** **No. 202E**

EUREKA

Jointed Cleaning Rods for Shotguns

Birchwood rods, brass trimmings, complete with one No. 232E wiper, one No. 212E steel wire brush with short shank, and one No. 202E red wool swab.

No. 95. Cleaning rods complete, 12, 16 and 20 gauge; length of each joint 12¾ inches, length over all 37 inches . . . . . per dozen, **$6.00**
No. 232E. Wipers only . ..per dozen, **1.25**
No. 212E. Brushes only . ..per dozen, **1.50**
No. 202E. Swabs only . . .per dozen, **1.50**



TOMLINSON SHOTGUN CLEANER

Brass wire sides, steel spring, capped ends, threaded to fit No. 95 cleaning rods.

Tomlinson Shotgun Cleaners. 12, 16 and 20 gauge, length over all 3¾ inches, complete with one pair extra brass sides.....per dozen, **$5.00**
One in a box, one dozen in a carton

CREAM PITCHERS

All of these pitchers are good quality pure white glazed china

R3055—3 styles, about 4 in. high, shape, pink and blue lustre, rose and violet clusters. Assrd 1 doz. in pkg . Doz. **$1.35**

R3051 3 styles, average height 3¾ in. pink, rose and green foliage clusters, gold or luster clouds and ornamnts. 1 doz. in pkg. Doz. **$1.40**

R3058—3 styles, 3¾ in high, panelled, bright colored floral sprays, gold stamped border, gold showered handle. Assrd. ½ doz. in pkg. Doz. **$1.95**

R3053—3 shapes and decors., 3¾ in high, pink, yellow, lavender and green rose clusters, shadow foliage and scroll ornamnts on luster border effect, luster or gold ornamented edge and handle. Assrd. ½ doz. in pkg Doz. **$2.10**

R3050—3 styles, 3¾ in. high, pink and yellow shaded roses, green leaves, gold edge and striped handle Assrd. ½ doz. in pkg Doz. **$2.20**

R3068—3 decors., 3½ in. high, indented panel, bright colored floral sprays, shadow medallions in border effect, luster ornamented hand es. Assrd ½ doz in pkg Doz. **$1.72**

R3064—5½ in high scroll indented borders, pink and yellow rose and buds, blue luster ornamented, blue and ivory luster back and handle. ½ doz. in pkg . . . Doz. **$2.25**

What Shall We Do?

What shall we do in case we happen to be out of one or more Holiday numbers you order? Shall we send you "the nearest like it" so as to fill your order complete?

Our Selection Will Please

WHEN YOU WANT GOODS QUICK—ORDER FROM BUTLER BROTHERS

MILK PITCHERS OR WATER JUGS—Tall Shape—All of these pitchers are good quality pure white glazed china

R3101—3 decors., 6¾ in. high, pink and yellow roses and green foliage band, green, rose and metallic blue luster neck, base and fancy handles, scroll embossed decorated front and back. Assrd. ½ doz. in pkg. Doz. **$4.15**

R3100—3 decors., 5¾ in. high, indented panel, pink, yellow, blue and green shaded floral sprays, luster embossed edges and fancy handles, bead embossed fancy base, decorated front and back. Assrd. ½ doz. in pkg Doz. **$4.25**

R3060—3 styles, 6¾ in high, pink and yellow tinted rose buds and lily of the valley sprays green leaves, gold shaded to green luster, embossed, scalloped edge and fancy handles Assrd ½ doz. in pkg Doz. **$4.25**

R3062—3 styles, 6¾ in. high, embossed panels and borders, bright colored floral sprays, green foliage, gold edges and striped handles. Assrd. ½ doz. in pkg Doz. **$3.75**

R3087—3 styles, 6¾ in high, poppy, wild rose, snowdrop, and violet sprays, small spray at back, maroon and green edges, colored striped handles. Assrd ¼ doz. in pkg. Doz. **$6.75**

R3102—3 decors., 6¾ in high, indented panels, pink, lavender and green rose and lilac sprays, pink, green and gold stamped borders with gold stamped floral sprays and medallions, luster decorated fancy handles Assrd ¼ doz. in pkg. Doz. **$4.50**

R3103—3 styles, 6¾ in high, panelled and plain shapes, tinted rose and bud clusters with foliage mem ts of blue, green and rose luster scroll embossed borders and fancy handles. Assrd. ½ doz in pkg. Doz. **$4.95**

R3088—3 styles, 7¼ in high, square shape, scroll embossed tops and base, green, pink and blue tinted banded border large American Beauty roses, violets and lily-of-the-valley, autumn rose cluster, tinted handles. Assrd ½ doz. in pkg . . . Doz. **$5.85**

SYRUP PITCHER

Good quality light weight pure white glazed china

R3577—4¼ in high, hand finished, white enamel outlined pink lavender and green tinted roses cluster shadow foliage on pastel tinted background, wide cola gold edges and striped handle. 2 in pkg. Each, **75c**

"BLUE WILLOW" ALLERTON'S FAMOUS English Semi-Porcelain (OPEN STOCK)

"Allerton's Ltd." trademarked. English semi-porcelain all pieces full size, absolutely guaranteed against crazing. Famous "Fenla" blue willow allover pattern with silver bloc decoration. No Package Charge.

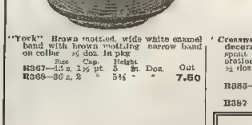
R20090—42 pc. set.
6 tea cups & saucers(12 pcs.)
12 plates, 6 each 5 & 7 in.
1 baker, 7 in.
1 bowl, 8½'s.
1 dish or platter, 8 in.
6 fruits, 4 in.
1 cov'd sugar (2 pcs.)
1 cream pitcher
6 bread & butter plates.
Dish set about 40 lbs.
SET (42 pcs.) **$9.75**

R20096—50 pc. set.
6 tea cups & saucers(12 pcs.)
18 plates, 6 each 4, 5 & 7 in.
6 cups & saucers
1 baker, 7 in.
1 bowl, 8½'s.
1 dish or platter, 10 in.
6 fruits 4 in
1 cov'd sugar (2 pcs.)
1 cream pitcher
1 cov'd dish, 7 in. (2 pcs.).
Each set about 46 lbs.
SET (50 pcs.) **$13.75**

R20093—100 pc. set.
12 teas (24 pcs.)
36 plates 4 5 and 7 in
12 cups saucers
1 baker 7 in.
2 platters, 8 and 12 in.
12 fruits 4 in
1 sugar & creamer (3 pcs.)
butter (2 pcs.)
1 casserole (2 pcs.)
dish, 7 in (2 pcs.)
1 sauce boat (2 pcs.).
1 pickle dish
Each set, about 90 lbs
SET (100 pcs.) **$26.25**

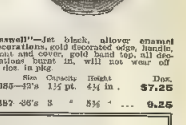
ROCKINGHAM TEA POTS

Well known imported English earthenware, strictly first selection, heavily glazed inside and out.



"York" Brown mottled, wide white enamel band with brown mottling narrow band on collar ½ doz. in pkg

	Size	Cap.	Height		
	Cups	Pts.	In.	Doz.	Ont
R367—4½ s.	2½ pt.	5	5½	"	7.50
R368—3½ s.	2	"	5½	"	"



"Cresswell"—Jet black, allover enamel decorations, gold decorated edge, handle, spout and cover, gold band top, all decorations burnt in, will not wear off ½ doz. in pkg

	Size	Capacity	Height	Doz.
R385—4½'s		1½ pt.	4¾ in .	**$7.25**
R387 4½'s		3	" 5¾ " . . .	**9.25**

Price Ticket Every Item in Your Store.

They Turn Shoppers Into Buyers.

EUROPEAN CHINA BERRY BOWLS & FRUIT DISHES

BERRY BOWLS—All of these bowls are fine quality light weight pure white glazed china

R2804—8 decors., 9¼ in. diam., band painted effect long stemmed pink and yellow rose, violet and forget-me-not clusters, green foliage, green and gold chained border beaded at all ends, edge beaded. Assld 4 dec in pkg. Each **48c**

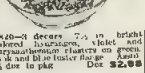
R2820—4 decors., 7½ in., bright colored hydrangea, violet and chrysanthemum clusters on green to pink and blue luster flange. Assld ½ doz in pkg. Doz **$2.98**

R2802—3 decors., 8¾ in., pink, lemon coffee, canary and green tinted floral clusters on blue, chocolate and pink tinted beaded embossed panelled flange, cut out edge. Assld ½ doz. in pkg. Doz. **$4.25**

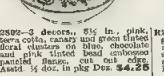
R2829—3 decors., 9 in., pink, green and canary rose, hydrangea and tulip clusters and sprigs, gold stamped floral ornaments in border effect, cut out edge. Assld ½ doz. in pkg. Doz. **$4.95**

R2813—3 decors., 9¼ in., trade-marked, pink and yellow tinted rose, apple blossom and leaf sprays, long stems and green foliage, luster indented panels, gold showered scalloped edge. Assld ½ doz. in pkg. Doz. **$5.96**

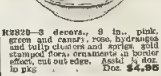
R2811—3 decors., 8½ in., hand painted effect pink and yellow rose clusters, green leaves and sprigs, green and buff tinted bands, black luster line, gold edges. Assld ½ in pkg. (Total $1.98) Each. **88c**



R2825—3 decors., 8½ in., yellow berry coffee and pink rose clusters and floral sprays, green foliage, gold stamped scroll and floral ornaments between, gold edge. Assld ½ doz. in pkg. Doz. **$4.00**



R2824—8 in., hand painted effect pink and yellow rose clusters, fern shadow foliage, gold stamped floral effect band embossed cut out edge. 3 doz. in pkg. Doz. **$4.50**



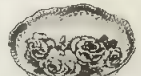
R2828—3 decors., 8½ in., hand painted effect lavender, rose, lemon and blue luster flange, green and gold stamped floral ornaments, cut out edge. Assld ½ doz. in pkg. Doz. **$4.86**

R2833—3 styles, aver. 9 in. diam., 6 decors., high grade, light weight, "R. S." trade-marked china, tinted floral sprays green and shadow foliage and green on light blue green and ivory tinted surface, gold edge. 3 doz. in pkg. Doz. **$9.00**

R2807—9½ in., rare ivory shaded white rose in border effect, light green foliage, gold stamped floral band beaded edge. In pkg. Each. **95c**

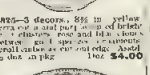
R2833—3 styles, aver. 8½ in., tinted pink rose clusters and sprays with foliage, shadow foliage and gold stamped medallions on dark green and ivory luster flange, gold edge. Assld. ½ doz. in pkg. Doz. **$4.10**

R2837—4 decors., aver. 8½ in. diam., tinted poppy rose and Dresden rose clusters, shadow foliage, floral sprays or gold stamped medallions on shadow luster panel and border, embossed cut out edges. Assld. ½ doz. in pkg. Doz. **$4.80**

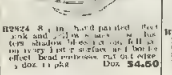


R2826—9½ in., pink and yellow roses, green foliage, shadow blossoms and leaves in border effect on chocolate and ivory luster flange. Assld. ½ doz. in pkg. Doz. **$5.10**

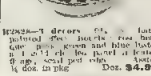
R2810—9½ in., hand finished lavender and pink rose and apple sprays, green foliage and long stems on pastel tinted ground, gold lace border, gold edge. Each in holly box. Each. **95c**



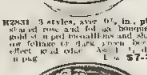
R2801—3 decors., 8½ in., yellow rose, pink roses with forget-me-nots in border effect, green and rose band and scroll embossed cut out edge. Assld. ½ doz. in pkg. Doz. **$4.25**



R2805—3 in trade-marked Dresden border floral bouquets, gold line edges. ½ doz. in pkg. Doz. **$4.75**



R2808—3 decors., 9 in., long stem yellow, lavender and pink tinted rose sprays, luster panels, green panel indent, gold beaded cut out edge. Assld. ½ doz. in pkg. Doz. **$6.75**



R2808—3 decors., 9½ in., pink and yellow tinted long stem rose sprays, green leaves, gold scroll and beaded scalloped edge. Assld. ½ doz. in pkg. Doz. **$9.00**

R2809—11 in., white enamel cut-out pink rose floral flare, lustered pastel tinted surface, gold stamped panel, ribbed edge, gold edge. Holds ½ doz. in pkg. Each **$1.79**

R2822—3 decors., 8½ in., tinted rose and lily sprays and wheat and conventional borders in green and gold. 1 doz. in pkg. Assld. ½ doz. in pkg. Doz. **$4.10**

R2803—9½ in., hand painted effect, long stem pink and yellow rose sprays, band and scroll embossed cut out edge. 1 doz. in pkg. Doz. **$4.60**

SAUCE OR FRUIT DISHES

All of these dishes are fine quality pure white glazed china.

R3000—4 decors., 5¾ in., pink and yellow roses, green leaves, gold medallion ornaments. Assld. ½ doz. in pkg. Doz. **$1.50**

R3008—5¾ in., bright colored pink rose sprays, green foliage, shaded green luster flange. Assld. ½ doz. in pkg. Doz. **$1.60**

R3012—5¾ in., pastel tinted rose and green foliage cluster on 4 in. fawn tinted band, black inner lattice, gold edge. 1 doz. in pkg. Doz. **$1.60**

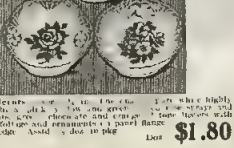
European China Berry Bowl Assortment

Real value that will afford you extra profit or make an excellent sale day item

R2811—4 decors., aver. 8½ in. diam., tinted poppy rose and Dresden rose clusters, shadow foliage, floral sprigs or gold stamped medallions on dainble luster shaded flange, embossed cut out edges. Assld. ½ doz. in pkg. Doz. **$4.80**

European China Sauce Dish Assortment

A value you can't afford to miss. An unusually fine assortment of the best decorations.



R3009—1 decors., aver. 5½ in. diam., fine white highly glazed china, pink and yellow rose sprays and green foliage cluster and conventional shadow foliage and ornaments, panel flange, cut out edge. Assld. ½ doz. in pkg. Doz. **$1.80**

Horsie Driving Reins

N25723—**DRIVING REINS** Made of ½-inch stitched, fancy colored oilcloth, with ¾ inch nickeled steel bells. 1 dozen in package not broken .. 3.84

N25724—**DRIVING REINS**—Made of ½-inch stitched, fancy colored oilcloth, with 1-inch nickeled bells and cowboy picture on breastpiece Has a total of twenty bells ¾ dozen in package, not broken..... 7.68

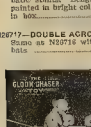
Performing Acrobats and Clowns

N26716 N26717

N26437—**CLOWN FIGURE ON WIRE** In revolving, spanish 10 inches long Packed 24 pieces in box..... 1.50

N26715—**ACROBAT TOY** -Wood handle with cord attached to figure, which will perform acrobatic stunts. Length 6 inches, painted in bright colors, 2 dozen in box..... 10.08

N26717—**DOUBLE ACROBAT TOY**—Same as N26716 with two acrobats 1.68



N27026—**THE GLOOM CHASERS**—Two funny little characters, Irish and German; made of card board and operated by pulling a couple of strings will Spar and Scrap. Size of open board 12x15 inches. Board folds in middle Each in envelope..... 3.92

"LA-LA-BY" BABY SWINGS

N27024 25

N27026 27

N27028 29

N27024—**"LA-LA-BY" SWING**—Made of heavy white duck, with four extra strong hangers of the same material capable of supporting 100 pounds. Taped holes for baby's legs. Folds perfectly flat. Can be hung anywhere. Every swing, together with a screw hook, is packed separately in a heavy paper envelope, with a guarantee of the swing printed on same..... 16.80

N27025—Same as N27024 Made of Baby Pink and Baby Blue duck, Assorted .. 21.00

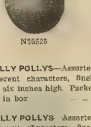
N27026—**"LA LA BY" SWING**—Made of white duck, with four extra strong and long hangers capable of supporting 100 pounds. Taped holes for baby's legs. The reclining back enables the baby to rest easily while awake or asleep. Folds perfectly flat when not in use. Every swing, together with a screw hook, is packed separately in a heavy paper envelope, with a guarantee of the swing printed on same..... 24.00

N27027 Same as N27026 Made of Baby Pink and Baby Blue duck .. 30.00

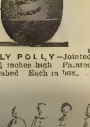
N27028—**BABY JUMPER SWING**—Made with patented "Removable Seat" for washing purposes. Fashioned of the best snow-white bleached duck with extra strong hangers, capable of supporting 100 pounds Adjustable to any height required and can thus be used to give the baby its first walking lesson. Every Jumper, together with a screw hook, is packed separately in a heavy envelope, with the guarantee of the article printed on the same... 30.00

N27029—Same as N27028 Made of Baby Blue, and Baby Pink, Assorted .. 33.00

ROLLY POLLYS



N26525

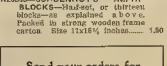


N26532

N26525—**ROLLY POLLYS**—Assorted, six different characters, finely painted, six inches high. Packed 1 dozen in box 4.00

N26526—**ROLLY POLLYS** Assorted, six different characters, finely painted, nine inches long. Packed 1 dozen in box..... 8.00

N26532 **ROLLY POLLY**—Jointed head, 9½ inches high Painted and varnished Each in box.. 9.00



N26833

N26833—**SCHOENHUT'S "ALPHI" BLOCKS**—Half-set, or thirteen blocks—as explained above. Packed in strong wooden frame carton Size 11x18½ inches..... 1.50 Each

N26831

N26831—**ROLLY POLLY** -Painted in colors and varnished 4 inches in height, assorted characters 1 dozen in box, not broken 4.20

Send your orders for Holiday Goods early, while our stocks are complete.

We do not break packages

Felt Caps

N26492 N26493 N27031

N26492—**FELT CAPS**— Round, red and black alternating panels. Metal button..... 1.80

N27031—**"BAMBINO" CAP**— Base ball, Infinia and word "Bambino" embroidered in white silk on the front of each cap. Trimmed with felt band. Alternating panels in assorted colors . 1.92

N26493—**FELT CAPS** — Round, trimmed with felt band. Felt covered button Alternating panels Assorted sizes and colors 3.84

N26494

N27032—**"BAMBINO" WITH VISOR** Same as N27031 with visor 3.92

N26494—**FELT CAP WITH VISOR**— Trimmed with felt band and felt covered button. Alternating panels Assorted sizes and colors 6.00

N27033—**CELLULOID VISOR "BAMBINO" CAP** Same as N27031 Embroidered in black, with celluloid visor. Assorted colors and sizes 1 dozen in box, not broken 7.00

N26495

N26495—**FELT CAP WITH TURNED UP EDGE**—Felt-covered button alternating panels Assorted colors and sizes 6.00

Arks and Menageries

N26444

N26443—**NOAH'S ARK** – Highly painted with imitation sanded roof, painted animals, 9x4½ inches Packed 4½ dozen in paper package ... 4.00

N26444—**NOAH'S ARK** Highly painted with imitation sanded roof, painted animals, 11 inches long, 5 inches high Packed 4½ dozen in package..... 7.92

N26445—**NOAH'S ARK**—Highly painted with imitation sanded roof, painted animals, 15 inches long, 8 inches high Packed 4½ dozen in package..... 15.68

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Shooting Gallery

N26837 — **SHOOTING GALLERY**—Substantially made and handsomely finished in colors. Complete with patented Rubber Ball Gun, shooting ⅝ inch hollow rubber balls, absolutely harmless. Size 13 x 13 x 4½ inches. 2.50

Jack in the Box

N26428

Each

N26438—**SURPRISE BOXES**—Assorted characters in box. When lid opens, figure jumps out. Size 2½ x 2½ inches. Packed one dozen in box 1.50

N25493—**SURPRISE BOX**—When lid opens, figure jumps out. Size 4 x 4 inches. Packed ½ dozen in box 3.64

Per doz.

N26530—**SANTA CLAUS SURPRISE BOX**—3½ x 3½ x 3¼ inches. Strong composition board, decorated to resemble a chimney. With voice. ½ dozen in package, not broken 4.00

Pin Wheels

N26436 N26745 N26447

Per doz.

N26817—**PIN WHEEL**—10 blades, with bell. 7 inches in diameter. Red, white, and blue flag decoration. 1 dozen in box, not broken 1.50

N25745—**4-POINT CELLULOID PIN WHEEL**—Diameter 8 inches. Nickel-plated bell. Diameter 1½ inches. Stick 12 inches long. One dozen in box..... 1.80

N26553—**PROPELLER WHEEL**—Double propeller. Each blade moves in opposite direction when in motion. Made of celluloid, mounted on natural wood stick 18 inches long. Assorted colors, 3 dozen in box, not broken 1.93

N26628—Same as N26553. Triple propeller 3 dozen in box, not broken 2.58

Schoenhut's Humpty Dumpty Circus

Figures are made of solid wood, leather, rubber, etc., jointed similar to a doll, but much stronger. Painted in enamel colors. The heads, arms and legs are movable, so that the figures can be set in an endless variety of positions.

N26135

N26549

Per doz.

N26632—**HUMPTY DUMPTY CIRCUS**—Set of four pieces. Clown, barrel, ladder and chair. With sheet of instructions in box, size 12¼ x 4¾ x 3¼ inches 12.00

Each

N26638—**HUMPTY DUMPTY CIRCUS**—Same as N26632—Jointed Trick Mule instead of Barrel. Also book of rhymes and illustrations Size of box 12¼ x 4¾ x 3¼ inches 3.60

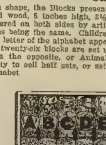
N26640—Same as N26638 and N26639. Five pieces, including Trick Elephant. Size of box 14¾ x 12¾ x 13¼ inches 4.20

N26641

Each

N26641 Same as N26638 and N26639. Eight pieces. Size of box 20½ x 11¾ x 3¾ inches 7.00

Big Game Hunter



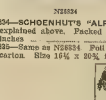
N26642

Each

N26642—**BIG GAME HUNTERS**—The figure representing a hunter is mounted on a spring wheel and held down behind the animal until the target on the front is hit, this causes the hunter to fly up in a standing position as shown in cut. Complete with little spring gun, and cartridge belt holding eight small wooden cartridges. Size 12 x 18½ inches 1.50

Schoenhut's Alphi Blocks

In shape, the Blocks present the semblance of human figures; they are made of hard wood, 6 inches high, 2¼ inches wide, and about ⅞ of an inch in thickness. Covered on both sides by artistic designs, reproduced in seven colors. No two designs being the same. Children are depicted on one side and animals on the other. One letter of the alphabet appears on each side of each block, so arranged that when the twenty-six blocks are set up from A to Z on the Children side, they will appear upon the opposite, or Animal side, Z to A. This arrangement gives an opportunity to spell half sets, or sets of thirteen blocks and still give a complete set of Alphabet.



N25534

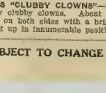
N25535

Per doz.

N26634—**SCHOENHUT'S "ALPHI" BLOCKS**—Half-set, or thirteen blocks—as explained above. Packed in strong wooden-frame carton. Size 12 x 16½ inches 3.30

Each

N26635—Same as N26534. Full set of 26 Blocks. Packed in strong wooden-frame carton. Size 16½ x 20¾ inches 6.00



Per doz.

N26636—**SCHOENHUT'S "CLUBBY CLOWNS"**—Composed of three blocks in the shape of happy clubby clowns. About 5½ inches square, ⅞ inches thick and mounted on both sides with a bright colored lithograph of the clowns. Can be set up in innumerable positions. Size of box, 8¾ x 12¾ inches 11.00

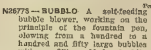
Bubble Blowers

N25800

Per doz.

N25800—**WIZARD BUBBLER JUNIOR**—Made entirely of wood. Plain finish reed stem. Blows miniature bubbles within bubbles. 3 dozen in box 7.50

N25801—**WIZARD BUBBLE BLOWER**—Made entirely of wood, bowl finished in fiber enamel; reed stem finished in jet black enamel, blows miniature bubbles within bubbles; each in a box; 1 dozen boxes in carton.. 17.00



Per doz.

N26773—**BUBBLO** A self-feeding bubble blower, working on the principle of the fountain pen, allowing from a hundred to a hundred and fifty large bubbles with one filling. Made of white wood, waterproofed, shellacked and polished. Each one put up in sanitary pouch, with directions 3 dozen in box, not broken 1.80

Per doz.

N26720—**BUBBLES**—Without soap stole, tin pipe and 6 tablets, each of which will make over 500 bubbles 1.60

Per doz.

N26721—**BUBBLE OUTFIT**—With 2 pipes and 7 tablets, each of which will make over 500 bubbles packed in fine lithographed top box, size 4¾ x 8¾ inches.. 4.00

Per doz.

N26931—**CINDERELLA BUBBLE OUTFIT**—Includes a cute little rubber apron, of fancy check and flower design, to prevent the child from getting wet. A bubble pipe, glass bowl, 4 inches of Ivory Soap. Each in an attractive box, 10⅝ x 10⅝ inches 3.50

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If It's SALES You Want

-Read This!

Merchandise that moves *out* of your store means money that moves *in*. Stovoil never lingers—dealer's shelves know it only for short intervals. *It* sells and sells and *sells!*

Why?

Because it is the only preparation in existence that successfully fights rust; because women everywhere know that for cleaning, polishing and removing rust from stoves and other metal surfaces it is a quick, sure worker; because over 90% of the operating gas companies use and recommend it; because it has been officially approved by every domestic science laboratory to whom it has been submitted; because it is well advertised in the leading women's magazines; because *it makes good on every claim made for it.*

Learn more about Stovoil. Know its profit possibilities for you. Dealers the country over have *proved* that Stovoil is one of those products that is made right, priced right, and sold right. Make us *prove* it to you—N-O-W!

Tom Tap

SUPERIOR LABORATORIES
Dept. 500
Grand Rapids, Mich.

TRADE MARK
TOM-TAP
STOVOIL
BRAND
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THE ENEMY OF RUST

EASIER IRONING

Less Time—Less Work and Less Expense

Royal

Self-Heating Iron

To iron with the old stove-heated irons is hot, tiresome, time-wasting work. Profit by offering your women customers the Royal Self-Heating Iron. It does an average ironing for less than two cents and can be used anywhere—in the coolest room, on the porch, or out under the trees.

The Royal further pleases because it is the right size and weight for easy ironing and because the heat can be regulated to suit all requirements. Every Royal fully guaranteed.

Selling Helps Free to Dealers

Royal Lithographed Window Trim
Royal Lithographed Counter Displays
Royal Colored Movie Slides
Cuts for newspaper advertising
Circulars for store use
Royal Salesmanship Manual (32 pages)

Above Selling Helps will be mailed promptly to any Royal Iron dealer on request.

Royal Self-Heating Iron Co.
603 WAYNE ST. BIG PRAIRIE, OHIO

Say you saw it in GOOD HARDWARE

QuiKwerK TOOLS

Carpenters' Wrecking Bars

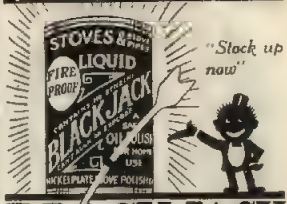
For prying, ripping, nail-pulling, wrecking, box opening. 12" to 36" long.

MOST people who continually use tools know that good tools *do pay*. And they like to do business with people that sell good tools. *Quality* in tool-making means everything. We're responsible for *that*. That's why QUIKWERK Tools are as good as they are—for your sake and ours. We all get further that way.

Order QUIKWERK Tools through your Jobber

THE WARREN TOOL & FORGE CO.
264 GRISWOLD ST.
WARREN, O.

QUICK-CLEAN-HANDY



BLACK JACK STOVE POLISH

House-cleaning time is Black Jack time

Check up now and see if your stock of **Black Jack Stove Polish**—(liquid and paste) is ample to take care of this month's demand.

Black Jack is the World's Champion all year 'round seller, but during housecleaning time it goes exceptionally fast.

Every month our national advertising tells hundreds of thousands of housewives that **Black Jack** is quick — clean — handy — fireproof—long lasting—covered by a money-back guarantee.

That's one reason why it will pay you to concentrate on the **Black Jack** line.

If you're not handling **Black Jack** now, order today from your jobber. If he can't supply you write direct to us. Mail coupon below for price list and attractive display sign

NICKEL PLATE STOVE POLISH CO.
Chicago, Ill.

Tear Off and Mail Today

Nickel Plate Stove Polish Co.,
Chicago, Ill.

Send me without cost or obligation complete price list of Nickel Plate Products and **Black Jack** Stove Polish Display Sign.

Name .....

Street .....

City ..... State.....

Jobber's Name .....

BALLOONS AND RUBBER ANIMAL TOYS

SEAMLESS RUBBER BALLOONS

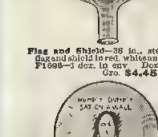
Strictly first quality stock, a splendid assortment of colors.

Round, Solid Colors — Asstd yellow, blue and green
Closing, in use. Doz.
F1675—15½ in. 1 gro. Gro. **$0.92**
F1676—19 in. 3 dz. **$0.17** **$1.95**
F1677—24 in. 2 " **.32** **3.65**
F1678—36 in. 1 " asstd. 1 doz. in pkg. **.65** **7.35**
Gro. **$9.35** Doz. **82c**

Dirigible, Solid Colors—Asstd. blue, red, yellow and purple
Size In pkg.
F1685—9x3 in. 1 gro Gro. **$9c**
F1686—12x3 in. 1 doz. in pkg. Doz. **$0.17** Gro. **$1.95**
F1709—24x6 in. 3 doz. in pkg. Doz. **$0.26** Gro. **$3.00**
F1688—36 in. Asstd 2 doz. in pkg. Gro. **$4.45** Doz. **39c**

Round, Gas—24 in circum., maroon, lavender, green and blue, extra heavy rubber guaranteed to stand up longer than any other balloon on the market
F1711 Asstd. 1 doz. in pkg.
Gro. **$4.10** Doz. **37c**

Mutt and Jeff—33 in. circum.; extra heavy Asstd. color stenciled Mutt and Jeff comics with words Asstd. 1 doz. in pkg.
F1690—Without valve Doz. **36c**
Gro. **$4.40**
F1692—With valve Doz. **42c**
Gro. **$4.50**



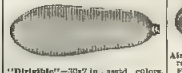
Flag and Shield—36 in., stenciled flag and shield in red, white and blue
F1696—1 doz. in env. Doz. **39c**
Gro. **$4.45**

6 Color Nursery Asst—38 in circum., stenciled pictures of Mother Goose, Humpty Dumpty, Old Woman in Shoe, etc
F1694—Asstd. 1 doz. in pkg
Gro **$4.45** Doz. **39c**

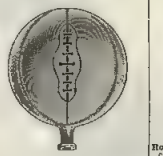
SEAMLESS RUBBER VALVE BALLOONS

Best materials, guaranteed

Round—36 in circum., asstd. colors, wood mouthpiece with rubber valve.
F1702—1 doz. in pkg. Doz. **37c**
Gro. **$4.15**



"Dirigible"—30x7 in., asstd. colors, metal mouthpiece with rubber valve, when thrown in air darts about like airship.
F1703—1 doz. in env. Doz. **38c**
Gro. **$4.35**



Football 32 in. circum. metal mouthpiece with rubber valve.
F1707—1 doz. in pkg.
Gro. **$4.35** Doz. **39c**

Juvenile Pictures—30x8 in., asstd colors with stenciled pictures, wood mouthpiece with rubber valve.
F1695—Asstd. 1 doz. in pkg.
Doz. **39c**
Gro **$4.45**

BALLOON STICK

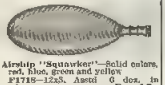
F1705—Best quality rattan for balloons, 12 in bd. ½ gro. in pkg.
Gro. **45c**

SEAMLESS RUBBER NOISY BALLOONS

Strictly first quality stock turned stem mouthpieces.

Round "Squawker"—15½ in circum., solid colors, red green, blue and yellow.
F1705—Asstd. 2 doz. in pkg.
Doz. **16c**
Gro **$1.80**

Round "Squawker"—28 in. circum., solid colors, blue, red and yellow.
F1708—Asstd. 2 doz. in pkg.
Doz. **34c**
Gro **$3.85**



Airship "Squawker"—Solid colors, red, blue, green and yellow
F1718—12x5. Asstd 6 doz. in box, . . . Doz. **16c**
Gro. **$1.85**
F1720—32x9 in Asstd. 1 doz. in pkg . Doz. **38c**
Gro **$4.45**

Round "Squawker" — 36 in. circum., solid colors, red, yellow, green and blue.
F1712—Asstd. 1 doz. in pkg.
Doz. **34c**
Gro. **$3.90**

BAG PIPE NOISY BALLOONS

Extra heavy rubber bag, inflates to very large size. Polished turned wood mouthpiece and pipe. Asstd. red, green blue and white.

F1724—28 in. circum., 8 in., 4 note pipe. 2 doz. in box Doz. **36c**
Gro. **$4.25**

Warning!

DON'T buy your BASEBALL GOODS for SPRING until you have seen the February issue of "OUR DRUMMER" catalogue

Warning!

BARKING DOG RUBBER NOVELTY

STAR VALUE

F3378—9½ in extra heavy red rubber bulb gilt dog's head embossed collar, imitates dog bark when bulb is squeezed. 1 doz in box Doz. **75c**

DYING PIG BALLOON

STAR VALUE

F1700—8x5 in heavy rubber, asstd. red green, blue and white, painted features, pipe cane wood legs, turned stained mouthpiece, slowly deflates with loud squealing sound and fails over 1 doz. in box. Doz. **78c**
Gro. **$9.00**

DYING CHICKEN BALLOON

F1735—8x5½ in., extra heavy rubber, tested red, green, blue and white, stenciled wings, heavy cardboard tail, shallow turned wood legs and mouthpiece and wood feet, glossy dull-dye with loud noise and falls over Asstd. 1 doz. in box
Gro. **$8.90** Doz. **87c**

RUBBER "HULA HULA" MAIDEN—Can Be Inflated

F1725—16" 10th. Heavy red rubber, black face, grotesque features, assid contrasting trim rubber fig, ornament valve, will stay inflated 24 hrs., can be used as bath tub toy. ½ doz. in box Doz. **$6.00**

"KRYING KEWPIE" DOLL BALLOON

F1685—Clear heavy rubber, inflates to 11 in., stenciled tinted features, heavy ribbon cardboard arms, legs and base, tinted wood mouthpiece, loud voice, each in printed envelope. 1 doz. in box Doz. **86c**

GRAY RUBBER ANIMALS

All made of good quality gray rubber

F1684—Boy on Horse, 5x5 in.; tinted and embossed features, whistle. ½ doz. in box Doz **$2.16**

F1687—4 styles, 5½x4 in., sheep, horse, cat and dog. Asstd. ½ doz. in box Doz. **$2.16**

"Starter" Variety Balloon Asst.

A specially selected assortment of the very best shapes and colorings including many special numbers. Absolutely first-class goods—no "seconds." Every number is an exceptional value. Price tickets, ready to hang in store and large poster for window display FREE with each assortment.

Most of these goods can be sold at higher retail prices than noted and you can easily make this assortment net you 50%

F1731—Asst. consists of the following

		Retails for
½	gro. round, 15", in circum	1c
1	" sausage, 10x3	1c
1	" round, 18 in. circum.	2c
1	" sausage, 32x3	5c
1½	doz round, 30 in. circum	5c
1½	" sausage nursery 32x3	5c
1½	" sausage nursery, 38 in. circum	5c
1	" round 36 in. circum.	5c
1	" round squawker 36 in. circum	5c
1	" sausage, Juvenile pictures 28x6	5c

Total 8½ gro. asstd. colors and styles in heavy transparent ribbed cover cardboard display container with free price tickets. Hide store sign and affix window poster.

ASST (3¼ gro.) **$5.00**

SUNDRY TOYS

"ROSETTE" PIN WHEELS

F2411 4 paints, 4½ in., assid colors met blue, green, etc., heavy celluloid, beaded on each side, 10 in turned wood stick. 3 doz. in box
Doz. 42c
(Total $1.20)

GYROSCOPE TOP

F2418—3½x3¼ in. all steel, gilded and striped, wood stand and string, long spinner, each in cardboard box with instructions. 1 doz. in box.....Doz. $1.40

PARACHUTE AND SLING SHOT

F2441 Large size, heavy var. color linen paper parachute reinforced ends, 20 in. stained stick, heavy rubber sling shot with strong wire frame, middle shows parachute in air, each wrapped. 1 doz. in pkg
Doz. 85c

JACK STONES

Jacks Only—Oxidized finish, best quality.

Size in box	Total	Gro
F2942— 2 gro.	82c	20c
F2943— 3 "	88c	24c
F2943—3 "	80c	40c

Complete Set—5 nickeled jack stones and 1 solid rubber ball each set in muslin drawstring bag
F2946—2 doz. sets in pkg.
Doz. sets 42c
(Total 84c)

JUMP ROPE

F2815 6 ft. ea., heavy twisted white cotton rope fancy turned red and white stained handles. Assid 1 doz in pkg
Doz. 87c

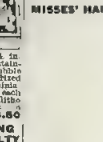
TOY RIDING WHIPS

Turned covered rattan, enameled in bright colors, assid color celluloid wound handles, wrist loop, tassel
1 doz. in pkg
F2931 36 in. Doz. $0.40
F2931 47 " .78

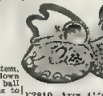
"REX ROTIVE" NOVELTY TOP

F2409 3 in. in bet of peg 2½ in. at top plated and polished tain bearing plate, wood top with rubber ring on rim in paper box to give twirls a color effect to top each in box. Banner free with each ½ gro.
1 doz. in pkg. Doz. $1.88
Gro. $21.00

MISSES' HAND BAGS



F5001 6 styles, movie characters, stems of cigar kiddie bar kiddies, two babies humpty dumpty and circus. Assid. 1 gro. pkg. Gro. 82c



F2810 Asst. Chick in assid colors, on pin bar and pull pin ring, heavy nickel plate frame, turned stem feather handles. Assid 1 doz. in box
Doz. $2.00

IMPORTED TRANSFER PICTURES

Good colors warranted to come off

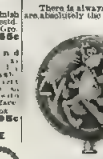
F5048—6 styles, Views of all nations Song Birds, Indian, Juvenile, Pretty Animals & Birds. 1 assid sheets to card, 6 sheets to card 1 gro. in pkg
Gro. 92c

MISSES' WRIST PURSE

F2855—3½x1¼ in., all leather strap with nickel plated buckle, snap clasp on purse, assid colors. Assid 1 doz. on display card in env
Doz. 78c

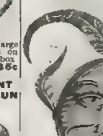
SEAMLESS RUBBER NOVELTY BALLOONS

There is always a big demand for novelty balloons. These are absolutely the latest sellers



Krazy Kat and Ignatz Mouse Semi transparent in assorted, attached cat and mouse, assid. red and purple.
F1701—Assid. 6 doz. in env.
Doz. 40c

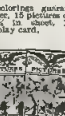
Krazy Kat, Ignatz Mouse and Officer Pup Transparent in various attached cartoon figures, assid red and blue.
F1704—Assid. 1 doz. in env
Doz. 84c



4 Color Indian 11 in. figure, assorted colors and designs with bow, assorted feathers, 3 short feathers
F1703—3 doz. in env.
Doz. 70c

"Jazz Baby"—10x5½ in. stencilled doll features, concealed strawhorn metal valve, ribbon bow
F1710—4 doz. in env
Doz. 84c

WINDMILL TOY



F2540—Hi. set-up 15 in., all Kalvanized metal, heavy frame with crepe paper form eight blades and 3¾ in. rudder mail to set up liberal supply of bolts and nuts. Each in box. Every order includes expert sig. for your window display. 3 doz. pkg. in
Doz. $1.10
(Total $3.30)

IMPORTED KALEIDOSCOPE

When held to light and end is turned gives variegated geometrical designs, embossed, silver and colored; boxed

F8747 2 styles, 1½ in. 2 doz. in set
Doz. 78c
(Total $1.56)

F8743—2 styles, 3¼ in. 1 doz in box
Doz. $1.88

LITHO SNOW SHOVEL

F2967—27 in. over all, blade 6½x7½ in., heavy nickel litho design, 24 in. red stained waxed handle. Assid 1 doz in box
Doz. $1.10

"ROLBAK" TOY

F2878—2½ in. in tin ends, litho silhouette body, tin red arms when rolled on floor or down incline. 1 doz in box
Doz. 75c

SOAP BUBBLE OUTFITS

F2318 3 in. base, double turned wood bowl and mouthpiece, 4 brass tubes, blows double bubbles, each set in box. 1 doz sets in carton
Doz. sets 75c

F2319 5 in. long all metal steel and soap cup each set in box with 2 skein prepared soap and shaped stem. 1 doz sets in carton
Doz. sets 84c

F2443—"Cinderella," 4 in. heavy glass bowl, 6 in. stained and varnished bubble pipe, tape bound rubberized spout with tin ferrule, miniature cake of ivory soap, each set in 10½x6½ in. litho illustrated box. 1 doz. in box
Doz. $4.50

IMPORTED DANCING BALL PIPE NOVELTY

F6975—4 in. nickeled stem, ¾ in. wire bowl, when blown assid. color composition ball rises in air and returns to bowl. 6 doz in box
Doz. 39c

FAST SELLING NOVELTIES

Pewter Bird whistle—1¼ in. rates loud notes, pewter bird perched on top
F2351—1 gro. in box
Gro. 85c

Finger Ring—Gilt finish beside, medium size, assid color stones.
F2341 1 gro. in box.
Gro. 85c

Tub and Board—3 in. tub 1 in wash board, heavy tinned sheet iron, edges turned, rubbed with corrugated rubbing surface.
F3069—1 gro. sets in box
Gro. sets. 95c

BEAD NECKLACE

F2422—8½ in. long, extra large size assid. color beads on strong string. 2 doz. in box
Doz. $1.30
Gro. 65c

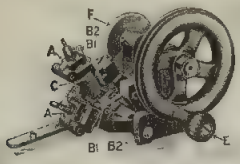
NOVELTY ELEPHANT WATER GUN

F2951—4½x2¼ in., heavy gilt metal, bulb center, shoots water through trunk
1 doz. in box
Doz. 85c

"OUTS" are beginning to appear even in our immense stocks due to the avalanche of orders we are getting in each day's mail. You will help us and help yourself if you tell us in case any item is out to send the nearest like it.

KEY CUTTING MACHINES

RUSSWIN



The Russwin key cutting machine will cut duplicates of all makes of pin tumbler cylinder, flat, double bit, solid and hollow ground keys by changing the cutter and gauge accordingly.

It is the only machine that will do this without complicated changes or adjustments and possible loss of accuracy.

Equipped with two types of cutters, one milling cutter (F) and gauge for cutting pin tumbler keys and two cutting saws and gauges for all other types of keys.

The hinged vice (A,A) holds both original key and blank to be duplicated in rigid and correct position; a shelf on the vice supports the bow on the cylinder key. On each vice there is a hinged stop which screws both as a top shoulder stop (B1) and a setting stop (B2); the shoulder is indispensible when cutting cylinder keys, all cutting from the original cylinder key should be started from the top shoulder. Stop (B1) insures accurate reproduction of the original key; the setting stop (B2) gives the correct distance from the cutter to the gauge (C) by resting the shoulder of one stop (B2) against the cutter and the shoulder of the other stop (B2) against the gauge (C).

Two gauges (CC) one for cylinder and one for other types of keys are furnished with this machine. After the original key and the blank to be cut are placed in position, raise lever (D) with the left hand, turning handle (E) until cutter engages and cuts into blank to be duplicated. Equipped with .035 and .062 inch saws.

Operates by hand or if desired by motor.

	Each
No. 50—Complete with saw and two cutters	+$92 25
Extra milling cutters	+ 16 20
Extra cutting saws	+ 4 50

One in a wood box; weight each 12 lbs.

DOOR PULLS

For Screen Doors, or Any Light Door.

Wrought steel; plate 7x2½ inches, with deep beveled edges; grip 5 inches long.

	Per Dozen
No. 542—Antique copper finish	$5 55

Half dozen in a cardboard box, with screws; weight per dozen 3¾ lbs.

+F. O. B. Connecticut Factory Only.

DOOR PULLS

Wrought steel; length over all 5 inches.

	Per Dozen
No. 1650—Japanned	$1 35
No. 1660—Mottled old copper, with screws	1 50
No. 1680—Brass plated, with screws	1 50

Three dozen in a cardboard box; weight per dozen 1⅛ lbs

Wrought Steel.

	Per Dozen
No. 157—Japanned, length over all 5½ inches; weight per dozen 1 lb	$1 95
No. 257—Japanned; length over all 6¾ inches, with screws; weight per dozen 1½ lbs	2 70
No. 457—Japanned; length over all 8⅞ inches, with screws; weight per dozen 2¾ lbs	9 75
No. 167—Antique copper; length over all 5½ inches, with screws; weight per dozen 1 lb	3 60
No. 467—Antique copper; length over all 8⅞ inches, with screws; weight per dozen 6½ lbs	12 00

No 157, ½ dozen; balance one dozen in a cardboard box.

Cast iron, extra heavy; length over all 6 inches.

	Per Dozen
No. 110J—Japanned	$3 15

One dozen in a cardboard box; weight per dozen 5½ lbs.

Wrought steel.

	Per Dozen
No. 265—Japanned; very heavy; length over all 10½ ins., with screws; weight per dozen 10½ lbs	$12 75

Half dozen in a cardboard box.

SCREEN DOOR PULLS AND WINDOW LIFTS

Wrought steel; 3½x⅝ inches.

	Per Gross
No. 111-J—Japanned finish	$7 50
No. 116—Antique copper finish, with screws	9 15
No. 118—Dull brass finish, with screws	9 15

Three dozen in a cardboard box; weight per dozen 3 lbs.

	Per Gross
No. 500—Steel wire, brass plated; length over all 4⅝ inches	$4 35

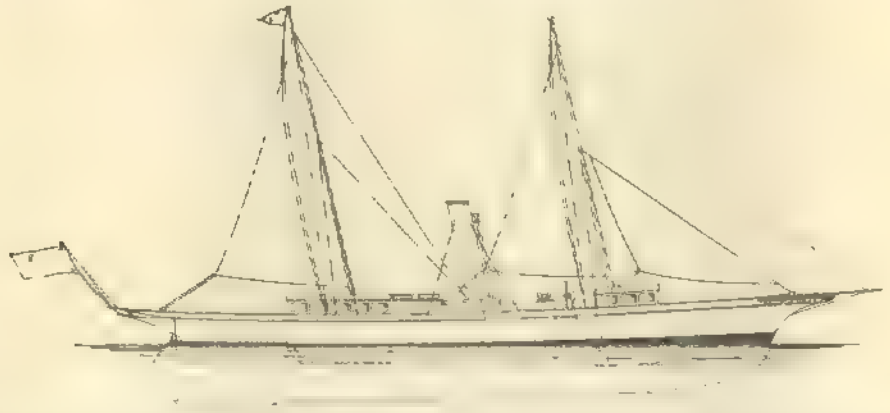
Half gross in a cardboard box; weight per box 3 lbs.

Code / *Code* / Código } A.B.C. (5th EDITION)

Telegrams / Télégrammes / Telegramas } "NEPTUNE, BIRKENHEAD"

A. Rutherford & Co

ESTABLISHED 1853.



SHIPBUILDERS & REPAIRERS, ENGINEERS & BOILERMAKERS,

227, Royal Liver Building, LIVERPOOL.

Neptune Works, BIRKENHEAD.

CONTRACTORS TO THE WAR OFFICE, ADMIRALTY & OTHER GOVERNMENT DEPARTMENTS.

The above Firm will be pleased to tender prices for any class of TUG or BOAT and submit design.

IMMEDIATE DELIVERY OF STEAM LAUNCH ENGINES READY FOR SHIPMENT.

Maison Fondée en 1853

CONSTRUCTION ET RÉPARATION DE NAVIRES
Ingénieurs, Chaudronniers.

Fournisseurs du Ministère de la Guerre et de la Marine ainsi que des autres Ministères.

La maison remettra avec empressement des soumissions pour toute espèce de REMORQUEURS et NAVIRES et fournira des plans.

LIVRAISON IMMÉDIATE DE MOTEURS POUR VEDETTES À VAPEUR PRÊTS POUR L'EXPORTATION.

Casa Fundada en 1853.

CONSTRUCTORES NAVALES Y REPARACIÓN DE NAVIOS
Ingenieros, Construcción de Calderas.

Contratistas del Ministerio de la Guerra, Almirantazgo y otros departamentos del Gobierno Britanico.

La casa arriba indicada se complacerá en hacer propuestas para toda clase de REMOLCADORES y BOTES y someter planos, etc.

ENTREGA INMEDIATA DE MOTORES PARA LANCHAS Á VAPÓR LISTAS PARA EMBARQUE.

TELEGRAMS *Télégrammes* "MIDYARD, GLASGOW."

ON THE ADMIRALTY LIST.
FOURNISSEURS DE L'AMIRAUTÉ.

TELEPHONE *Téléphone* GOVAN 688 (4 LINES).

ALEXANDER STEPHEN & SONS, LTD.,

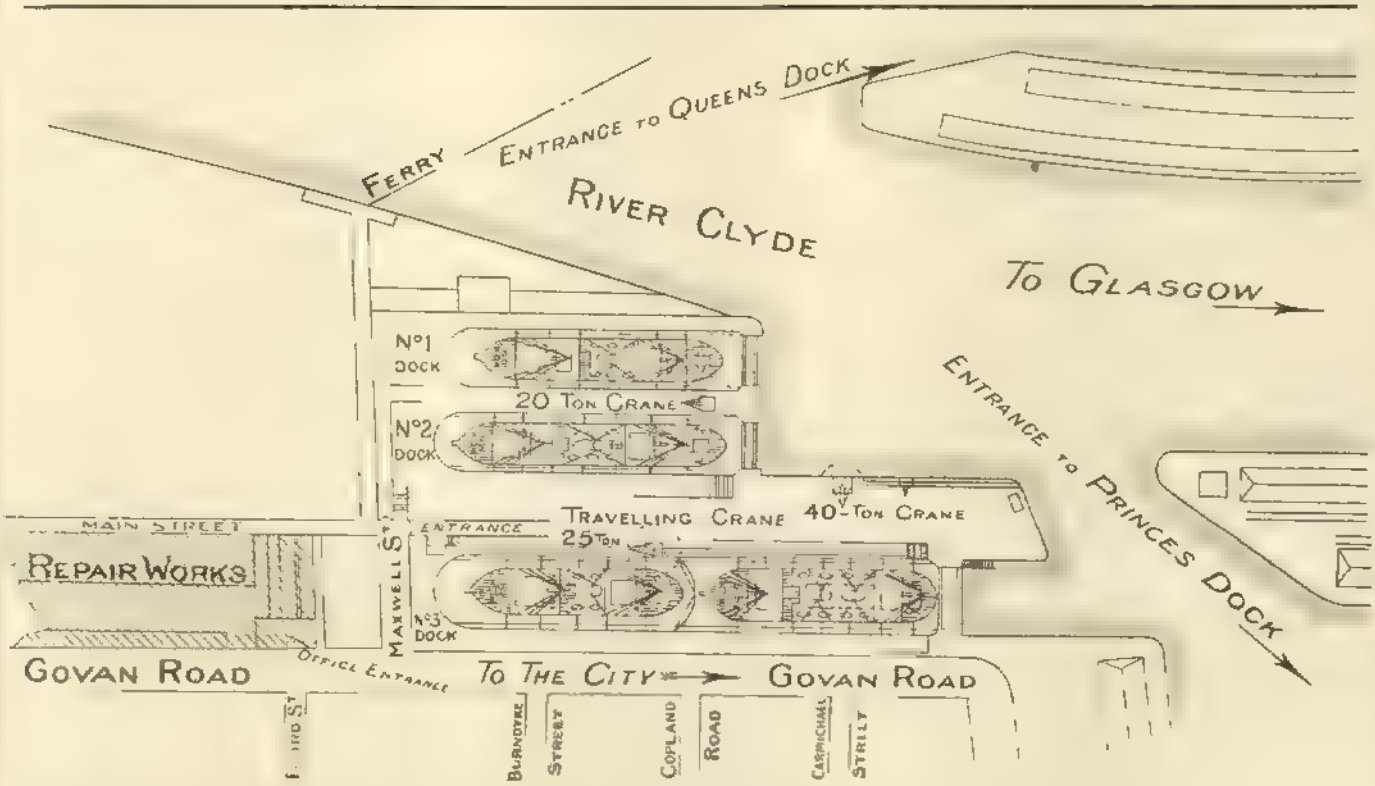
Shipbuilders — Engineers — Boilermakers.

CONSTRUCTEURS NAVALS — INGÉNIEURS — CHAUDRONNIERS.

GOVAN GRAVING DOCK REPAIR WORKS.

Vessels Docked and Painted and Repairs of all kinds Executed to Hulls, Machinery and Boilers with Up-to-Date Appliances including Oxy-Acetylene Cutting and Electric Welding Plants.

Mise en cale sèche, peinture et réparation de navires de toutes espèces réparation aux coques, machineries et chaudières, effectuées au moyen d'un matériel moderne comprenant le dernier appareil oxy-acétylénique et la soudure électrique



OFFICES AND REPAIR WORKS ADJOIN THE LARGEST GRAVING DOCKS ON CLYDE AND ARE CONVENIENTLY SITUATED TO THE PRINCIPAL DISCHARGING, LOADING AND COALING BERTHS, THUS ENSURING CLOSE SUPERVISION AND ECONOMY OF TIME.

Les bureaux et les chantiers de réparation sont contigus aux plus grands bassins de radoub de la Clyde et sont situés à proximité des principaux quais de chargement et de déchargement et quais à charbon, ce qui permet une surveillance continuelle et une économie de temps.

Kontorer og reparationsværksteder lige ved den største grave-dok i Clydefloden og meget heldigt beliggende til de vigtigste losse, lade og kulpladser, og som derfor muliggjør nøiagtig oversigt af alt arbeide og enbetydelig tidsbesparelse

SAD IRONS

ASBESTOS LAUNDRY SETS

All exposed parts are nickel plated; cores are aluminum bronzed; handle black enameled wood with bolt and nut passing through entire length

No. 70. Consists of one No. 71 hood, with handle and lock complete; two No. 72 cores, weighing with hood attached, 7 pounds each; one No. 72 core, weighing with hood attached, 6 pounds; and one asbestos covered stand; one set in a lock cornered, sliding cover box; weight per set, 22 pounds .....per set, **$4.00**

Three sets in a case

DOVER LAUNDRY SETS

All exposed metal parts are nickel plated; cores are aluminum bronzed; black enameled wood handle.

No. 60. Consists of three cores; nickel plated hood, with lock and handle, and asbestos covered stand each core weighing 4½ pounds one set in a lock cornered, sliding cover box; weight per set, 15 pounds..per set, **$3.50**

Three sets in a box

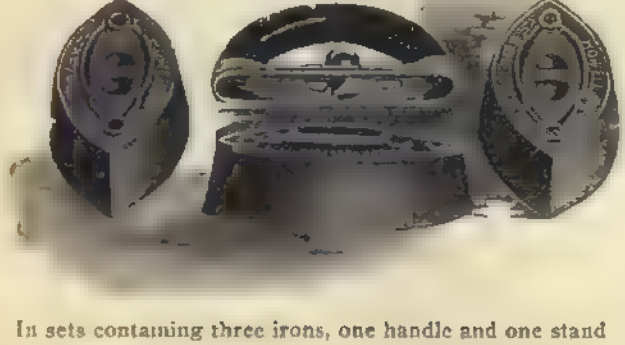
DOVER LACE IRONS

All exposed parts are nickel plated; cores are aluminum bronzed; black enameled wood handle.

No. 918. Cast iron core, nickel plated and polished face; asbestos lined hood, with lever lock; weight 1 pound each.....per dozen, **$2.50**

One half dozen in a case

MRS. POTTS SAD IRONS



In sets containing three irons, one handle and one stand

No. 55. Polished cast iron cores, with aluminum bronzed tops in sets of one each, Nos. 1, 2 and 3; handle, with hardwood grip and japanned spreader and stand; weight per set, 15 pounds.....per set, **$3.00**

Six sets in a case

SAD IRONS

ROYAL SELF-HEATING IRONS

Heated by gasoline

Easy to light, heats quickly and easy to regulate. Has nickel plated brass reservoir, cone-shaped needle valve with burner extending full length of the iron. Handle is protected by shield which prevents handle getting hot

Royal. Cast iron core with nickel plated and polished face and sides, weight 6¼ pounds.....each, **$4.50**

One in a box

COMMON SAD IRONS

Cast iron planed and polished face, wrought handle.

Common Sad Irons. Weights 5, 6, 7 and 8 pounds.. . . ..per pound, $.

PRESSING IRONS

Cast iron, polished face and sides, heavy wrought handle

Pressing Irons. Weights 12, 15, 18 and 20 pounds..... ..per pound, $...

TAILORS' GOOSE

Cast iron, planed and polished face and sides, heavy wrought handle

Tailors' Goose. Weights 12, 14, 16, 18 and 22 pounds.. . ...per pound, $..

SAD IRON HANDLES

MRS. POTTS

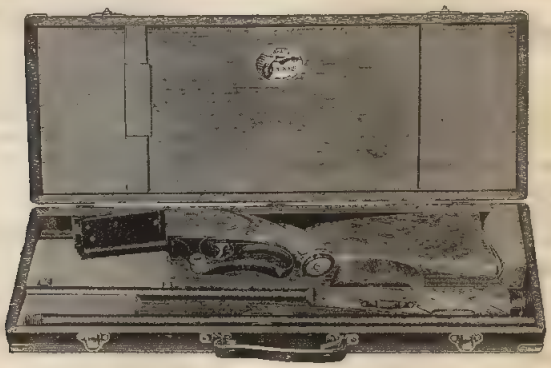
Mrs. Potts. Walnut stained grip, japanned cast iron stretcher, weight per dozen 11 pounds....per dozen, **$3.00**

One half dozen in a package

Savage Bolt-Action Repeating Rifle Sporting Model 1920

No. 7625—Sporting Model 1920, solid frame **.250-3000 caliber,** 22 inch tapered high pressure steel barrel with integral front sight base, checked pistol grip stock and fore-stock, pistol grip capped, oil finished one-piece stock, corrugated trigger, corrugated steel shot gun butt-plate, white metal front and flat top sporting rear sights, magazine capacity five cartridges, w't each 6 lbs. ..... each $84.00

SAVAGE COMBINATION KITS



The Savage Combination Kit is a combination of the Model 1899, 300 Savage take down, pistol grip, 24 in. barrel, rifle and the 410 gauge 24 in. shot gun barrel, put up in an attractive black leatherette carrying case with cleaning rod. This kit offers the retailer an effective display outfit and the consumer a convenient carrying case, as well as a case in which to keep the rifle and extra shot gun barrel when not in use. For this outfit the factory selected the most attractive style of Model 1899 Savage take down rifle with extra full, checkered pistol grip stock and forarm, 24 in. barrel, (our No. 7330TD), chambered for the new .300 Savage Cartridge. There will be NO DEVIATION from the style or caliber of rifle Cases are not sold separately and will be furnished only on orders specifying complete units of a .800 Savage rifle and extra 410 gauge shot gun barrel as described above. Price of the .300 Savage Combination Kit will be the combined prices of rifle and extra 410 ga. barrel with no additional charge for the case.

No. 40—Savage Combination Kit containing one M1899-300 cal. Savage take down rifle, checkered pistol grip stock and forearm, 24 in. barrel, cleaning rod and 410 gauge extra shot gun barrel, complete with carrying case, w't 13 lbs., each $97.20

REMINGTON HIGH POWER BOLT ACTION SPORTING RIFLES

MODEL 30

No. 2130—.30 Caliber, chambered for the U. S. Government service cartridge .30 Caliber Springfield Model of 1906, army type, bolt action, special high pressure steel, tapered barrell 24 in., one piece pistol grip stock; forged steel, grooved butt plate, thumb operated safety device, new model sportingx peep rear sight, adjustable for all ranges from point blank up to 550 yyards;Kerr Service Type sling strap and loop, magazine capacity five cartridges, w't 8 lbs., each $105.55

REMINGTON REPEATING

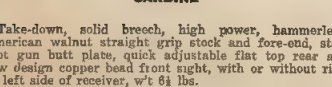
Take-down, solid breech, high power, hammerless, American walnut pistol grip stock and fore-end, steel shot gun butt plate, quick adjustable flat top rear and new design copper bead front sight, w't about 6½ lb.

22 IN. "ORDNANCE" STEEL BARREL, SIX SHOTS

No. 1425—.25 Remington caliber .....each $80.25
No. 1430—.30 Remington caliber .....each 80.25
No. 1432—.32 Remington caliber .....each 80.25
No. 1435—.35 Remington caliber .....each 80.25

22½ IN. REMINGTON STEEL BARREL, 12 SHOTS

No. 1438—.38 W. C. F. caliber .....each $80.25
No. 1444—.44 W. C. F. caliber .....each 80.25



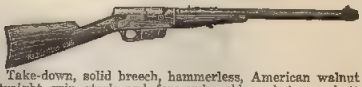
CARBINE

Take-down, solid breech, high power, hammerless, American walnut straight grip stock and fore-end, steel shot gun butt plate, quick adjustable flat top rear and new design copper bead front sight, with or without ring on left side of receiver, w't 6¼ lbs.

18½ IN. REMINGTON STEEL BARREL, 10 SHOTS

No. F2425—.25 Remington caliber★ .....each $78.70
No. 2430—.30 Remington caliber .....each 78.70
No. 2432—.32 Remington caliber .....each 78.70
No. F2435—.35 Remington caliber★ .....each 78.70
No. 2438—.38 W. F. C. caliber .....each 78.70
No. 2444—.44 W. C. F. caliber .....each 78.70

REMINGTON AUTOMATIC



Take-down, solid breech, hammerless, American walnut straight grip stock and fore-end, rubber shot gun butt plate, adjustable buckhorn step rear, and special shaded steel bead front sights, light trigger pull, w't 7¾ lbs.

22 IN. "ORDNANCE" STEEL BARREL, 5 SHOTS

No. 30—.30 Remington caliber .....each $100.75
No. 32—.32 Remington caliber .....each 100.75
No. 35—.35 Remington caliber .....each 100.75

CARTRIDGE LOADING CLIPS

No. 6000—For Remington automatic rifles, .30, .32 and .35 caliber .....per dozen $2.40

When ordering clips specify caliber desired.

ALL ABOVE ONE IN A CASE

Carry a line of goods upon which you can rely.

The dealer who carries H. S. B. & Co. Brands marks his store as a place where the better goods are sold.

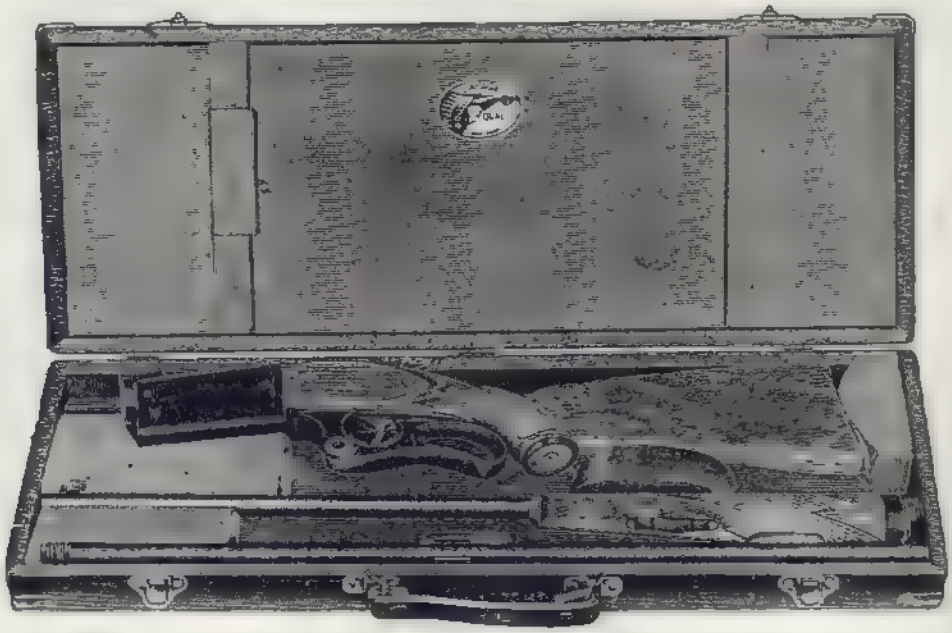
A house with over sixty-seven years' experience stands back of our brands.

★ Items Marked Thus ★ Are Shipped From Factory Only.

Savage Bolt-Action Repeating Rifle Sporting Model 1920

No. 7625—Sporting Model 1920, solid frame .250-3000 caliber, 22 inch tapered high pressure steel barrel with integral front sight base, checked pistol grip stock and fore-stock, pistol grip capped, oil finished one-piece stock, corrugated trigger, corrugated steel shot gun butt-plate, white metal front and flat top sporting rear sights, magazine capacity five cartridges, w't each 6 lbs. ..... each $84.00

SAVAGE COMBINATION KITS



The Savage Combination Kit is a combination of the Model 1899, 300 Savage take down, pistol grip, 24 in. barrel, rifle and the 410 gauge 24 in. shot gun barrel, put up in an attractive black leatherette carrying case with cleaning rod. This kit offers the retailer an effective display outfit and the consumer a convenient carrying case, as well as a case in which to keep the rifle and extra shot gun barrel when not in use. For this outfit the factory selected the most attractive style of Model 1899 Savage take down rifle with extra full, checkered pistol grip stock and forarm, 24 in. barrel, (our No. 7330TD), chambered for the new .300 Savage Cartridge. There will be NO DEVIATION from the style or caliber of rifle. Cases are not sold separately and will be furnished only on orders specifying complete units of a .300 Savage rifle and extra 410 gauge shot gun barrel as described above. Price of the .300 Savage Combination Kit will be the combined prices of rifle and extra 410 ga. barrel with no additional charge for the case.

No. 40—Savage Combination Kit containing one M1899-300 cal. Savage take down rifle, checkered pistol grip stock and forearm, 24 in. barrel, cleaning rod and 410 gauge extra shot gun barrel, complete with carrying case, w't 13 lbs., each $97.20

REMINGTON HIGH POWER BOLT ACTION SPORTING RIFLES

MODEL 30

No. 2130—.30 Caliber, chambered for the U S. Government service cartridge .30 Caliber Springfield Model of 1906, army type, bolt action, special high pressure steel, tapered barrell 24 in., one piece pistol grip stock; forged steel, grooved butt plate, thumb operated safety device, new model sportingx peep rear sight adjustable for all ranges from point blank up to 550 yyards;Kerr Service Type sling strap and loop, magazine capacity five cartridges, w't 8 lbs., each $105.55

REMINGTON REPEATING

Take-down, solid breech, high power, hammerless, American walnut pistol grip stock and fore-end, steel shot gun butt plate, quick adjustable flat top rear and new design copper bead front sight, w't about 6¾ lb.

22 IN. "ORDNANCE" STEEL BARREL, SIX SHOTS

No. 1425—.25 Remington caliber .....each $80.25
No. 1430—.30 Remington caliber .....each 80.25
No. 1432—.32 Remington caliber .....each 80.25
No. 1435—.35 Remington caliber .....each 80.25

22½ IN. REMINGTON STEEL BARREL, 12 SHOTS

No. 1438—.38 W. C. F. caliber .....each $80.25
No. 1444—.44 W. C. F. caliber .....each 80.25

CALIBRE

Take-down, solid breech, high power, hammerless, American walnut straight grip stock and fore-end, steel shot gun butt plate, quick adjustable flat top rear and new design copper bead front sight, with or without ring on left side of receiver, w't 6½ lbs.

18½ IN. REMINGTON STEEL BARREL, 10 SHOTS

No. F2425—.25 Remington caliber★ .....each $78.70
No. 2430—.30 Remington caliber .....each 78.70
No. 2432—.32 Remington caliber .....each 78.70
No. F2435—.35 Remington caliber★ .....each 78.70
No. 2438—.38 W. F. C. caliber .....each 78.70
No. 2444—.44 W. C. F. caliber .....each 78.70

REMINGTON AUTOMATIC

Take-down, solid breech, hammerless, American walnut straight grip stock and fore-end, rubber shot gun butt plate, adjustable buckhorn step rear, and special shaded steel bead front sights, light trigger pull, w't 7¾ lbs.

22 IN. "ORDNANCE" STEEL BARREL, 5 SHOTS

No. 30—.30 Remington caliber .....each $100.75
No. 32—.32 Remington caliber .....each 100.75
No. 35—.35 Remington caliber .....each 100.75

CARTRIDGE LOADING CLIPS

No. 600G—For Remington automatic rifles, .30, .32 and .35 caliber .....per dozen $2.40

When ordering clips specify caliber desired.

ALL ABOVE, ONE IN A CASE

Carry a line of goods upon which you can rely.

The dealer who carries H. S. B. & Co. Brands marks his store as a place where the better goods are sold.

A house with over sixty-seven years' experience stands back of our brands.

★ Items Marked Thus ★ Are Shipped From Factory Only.

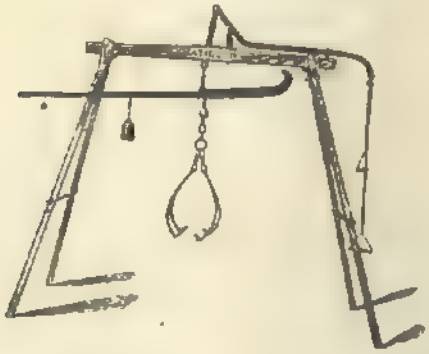
SCALE BEAMS

Standard pattern, forged steel, hardened bearings and parts; japanned black, gold striped; white filled figures and graduations, with two japanned cast iron poises.

Capacity, pounds	200	300	400	600
Poises, pounds	1 & 4	2 & 8	3 & 12	8 & 16
Each	$4.50	7.50	9.00	12.00
Weight, pounds	10	18	30	38

Six in a case

*COTTON SCALES



Selected hardwood frame, varnished, securely bolted, wrought steel cross bar between legs, wrought steel lever chain, down hauls and cotton hooks, cast poises, japanned beam.

Cotton Scale. Capacity 1 pound to 700 pounds, complete with frame, beam, chain, down hauls and hooks; weight 200 pounds.....each, $...

STEVEDORE OR CARGO TRUCKS

Designed for railroad, dock and steamship use. Constructed on substantial lines to stand hard usage.

Handles are of hardwood. All iron parts are extra heavy and well bolted and riveted together. The lower cross bar is extra wide and extends at sides to form the wheel guards.

Large diameter wheel, heavy axles, cast iron axle boxes Long nose, iron braced legs.

No.	278
Each	$21.10
Handles, length, inches	60
Width at nose, inches	17 4
Nose length, inches	9
Wheels, inches	12 x 3
Axle, inches	1¼
Weight, pounds	148

*Not carried in stock; will ship from factory.

WAREHOUSE TRUCKS

No. 272

No. 272A

NEW YORK PATTERN

For general store and warehouse use

No. 272, Half Strapped

Nos.	1	2	3	4
Each	$7.50	9.25	10.90	12.90
Handles, length, inches	48	51	54	60
Width at nose, inches	13	14	15	16
Nose length, inches	5½	6½	7¼	7¼
Axle, inches	⅞	⅞	1	1
Wheels, inches	6 x 2	8 x 2½	8 x 2½	10 x 2½
Weight, pounds	40	58	72	91

No. 272A, Full Strapped

Nos.	21	22	23	24
Each	$8.35	10.25	12.00	14.15
Handles length, inches	48	51	54	60
Width at nose, inches	12	14	16	16
Nose length, inches	5½	6½	7¼	7¼
Axle, inches	⅞	⅞	1	1
Wheels, inches	6 x 2	8 x 2½	8 x 2½	10 x 2½
Weight, pounds	40	60	75	96

No. 202-4

WESTERN PATTERN

Designed for use of railroads, packing houses and many other industries

They are well balanced and easy to operate

All wood parts are hardwood and heavily ironed. Two center straps, large diameter wheels.

No.	202–4
Each	$16.00
Handles, length, inches	60
Width at nose, inches	23
Nose length, inches	6½
Axle, inches	1 ⅛
Wheels, inches	11 x 2½
Weight, pounds	134

TRUCKS

No. 214, Daisy

No. 216, Bag

LIGHT WAREHOUSE AND BAG

For handling light cases and bags of small dimensions. They are well constructed

Nos.	214	216
Each	$5.00	6.10
Handles, length, inches	46	42
Width at nose, inches	12	11⅞
Nose length, inches	4½	4½
Axle, inches	¾	⅞
Wheels, inches	6x1½	6x1½
Weight, pounds	31	29

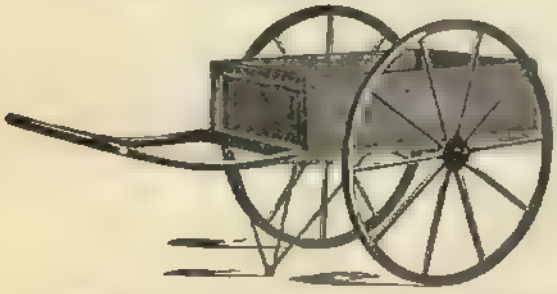
*GROCERY TRUCKS

Made throughout of oak. Frame is very substantial. Bolsters and axles are well braced. Turns in its own length

Roller bearings in large wheels. Removable handles and package rack

No. Q2182. Length over all 65½ inches; platform 60 inches long, 36 inches wide, 14 inches high; rack 17 inches high; front wheels 12x2 inches; caster wheels 6x1¼ inches; axle 1⅛ inch square; weight 200 pounds.....each, **$38.60**

HAND CARTS



Hardwood box and handle, top of box strapped, wood wheels with steel tires; nicely painted, striped and varnished.

No. 310-1. Box 36x21x9 inches; wheels 36x1⅜ inches; tread 29½ inches; length over all 70 inches; weight 95 pounds .....each, $....

No. 310-2. Box 60x36x9 inches; wheels 36x1⅜ inches; tread 44½ inches; length over all 93½ inches; weight 200 pounds.....each, ..

*Not carried in stock; will ship from factory.

TRUCKS

*WAREHOUSE TRUCKS

Made of hardwood throughout, substantial platform. Handles of 1 inch round steel. Large diameter fifth wheel.

Nos.	01855	01856
Each	$30.50	35.10
Platform, feet	3x5	3x5
Height, inches	15½	19¼
Wheels, inches	11x2½	14x2½
Axles, inches	1¼	1¼
Weight, pounds	260	320

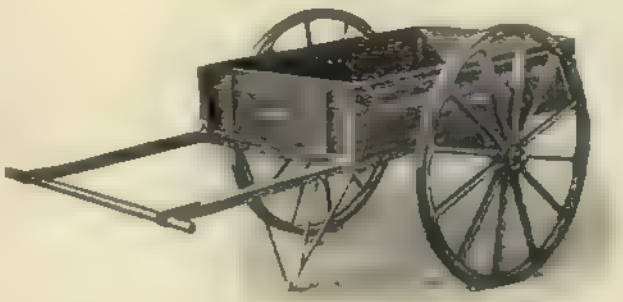
SINGLE HANDLE TRUCKS

All Iron

Will handle a keg of nails or a large barrel. Handle is ⅞ inch round, extending down and forms a nose

No. C3100. Length of handle 44 inches, width at nose 13½ inches; width over all 26 inches, wheels 7½x2 inches; axle 1⅛ inches; weight 40 pounds.....each, **$15.00**

HAND CARTS



Hardwood box and handle, top of box strapped; wood wheels, with steel tires, 2½ inch wheel in foot; nicely painted, striped and varnished; removable ends.

No. 262. Box 44x27¼x8 inches; wheels 36x1½ inches; tread 36⅞ inches; length over all 76¼ inches; weight 142 pounds.. . . . . each, $.

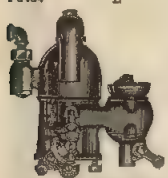
*Not carried in stock; will ship from factory.

SCHEBLER CARBURETORS

The MODEL "L" Carburetor is designed for high speed motors, where low throttling, rapid acceleration, maximum power and speed are required. The lift needle type carburetor is designed so that the amount of fuel entering the motor is automatically controlled by means of a raised needle working automatically with the throttle. The supply of gasoline can be adjusted for low, intermediate and high speed, each adjustment being independent and not affecting either of the others. The model "L" is furnished with a jacket around the throttle, which can be connected with the hot water when a circulating pump is used, and a bend for taking warm air from around the exhaust manifold into initial air opening of the carburetor, by means of the hot air drum and tubing.

Model "L"

No.	Model	Size, in.	W't each, lbs.	Each.
F5432	"L"	1	7	*$25.00★*
F5433	"L"	1¼	7½	*26.00★*
F5434	"L"	1½	8½	*31.50★*


Model "L"—Dash Control.

The MODEL "L" Carburetor is manufactured with a dash control air valve, it being operated by a lever which is controlled by a switch on the dashboard or steering post of the car. A dashboard or steering column adjuster will be furnished with these carburetors when so ordered. Complete with dash or steering column control, hot air drum and tubing.

No.	Size, in.	Model	Control	W't, lbs.	Each.
F5435	1	"L"	Dash	8	*$30.50★*
F5436	1¼	"L"	Dash	8½	*31.50★*
F5437	1½	"L"	Dash	9½	*37.00★*

SPECIAL SCHEBLER CARBURETOR OUTFITS

These special carburetor outfits are furnished complete with all fittings, controls, etc., necessary to enable you to attach easily to your car. They are put up in special boxes ready for immediate shipment.

No.	W't, lbs.	Each.
F5442—Model "A," for Fords	9	*$24.00★*
F5446—Maxwell, model 25, for 1915-16-17-18	8¾	*33.30★*
F5447—Overland, model 83	7½	*29.20★*
F5448—Buick, light six	12	*31.16★*
F5449—Buick, big six	12	*31.60★*
F5450—Saxon, for models A-1914; B-1915; "14;" 1916; B-5-R, 1917	10	*34.80★*

NOTE—In Ordering Repair Parts for Carburetors Always State Size.

The MODEL "R" Carburetor is for use on both four and six-cylinder motors. It is a single jet raised needle type of carburetor, automatic in action. The air valve controls the lift of the needle and automatically proportions the amount of gasoline and air at all speeds. This carburetor is designed with an adjustment for low speed; as the speed of the motor increases, the air valve opens, raising the gasoline needle and automatically increasing the amount of fuel. There are two adjustments, the low speed needle adjustment, which is made by turning the air valve cap, and an adjustment on the air valve spring for changing its tension. An eccentric operated either from the steering column or from the dash, which acts on the needle valve and insures easy starting. By raising the needle from the seat in this way, an extremely rich mixture is furnished for starting, and for heating up the motor in cold weather. A choker in the air bend is also furnished.

Model "R"

No.	Model	Size, in.	W't, lbs.	Carburetor only	With Dash Control, Hot-Air Drum and Tubing
F5443	"R"	1	6¾	*$27.20★*	*32.70★*
F5444	"R"	1¼	7	*29.20★*	*34.70★*
F5445	"R"	1½	7¾	*31.50★*	*37.00★*

AIR VALVE CONTROLS

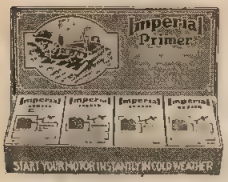
The Dashboard Controls for the air control of the carburetor should be attached in some convenient place on the dashboard of the car. The steering column control should be installed on the steering post. In making these installations it is sometimes necessary to use a bell crank to take care of some offset in the line of connection. As the steering column control is made with different sized bands for attaching, the circumference of the steering post should be given. The steering column control is furnished standard with five feet of tubing and wire. Both types of dashboard controls are furnished standard with three feet of tubing and wire.

No. F5451—Extra controls, w't complete 2 lbs., each ..... *$4.20★*

Specify Type Desired.

★ **Items Marked Thus ★ Are Shipped from Factory Only.**

IMPERIAL PRIMERS



Every outfit is equipped with a self closing Plunger Pump. To draw up the gas, simply pull out the plunger and then release it. The plunger pump does the priming and shutting off.

Starting the car in cold weather in most cases is difficult. The gas must be lifted from the line and placed in a vaporized form at intake valves, so the first flash of the spark plugs ignites it and starts the motor. This Self Closing Primer will do this.

It is not necessary to readjust your carburetor in cold weather. The same running mixture employed in the summer can be used and will supply a rich, fireable, vaporized spray of gasoline for starting. Not necessary to use the choker. Installing instructions included in each outfit.

No. 6087—59D—For Fords, w't each 7 lb. .....each $6.00

No. 6088—58D—For all cars except Fords, w't each 2 lbs., each $7.10

IMPERIAL PRIMER DISPLAY CASE

Put up in a very attractive case.

It is only necessary to handle two styles of primers as they will take care of all cars. Primers are a necessity in the cold weather.

This display case contains:

2 No. 6087 Primers for Fords

2 No. 6088 Primers for all cars except fords

No. F6089—W't each 6½ lbs., each★ $26.20

ONE IN A BOX

STEWART VACUUM SYSTEMS

This System assures an even and perfect feed of gasoline to carburetor. It is small tank under hood on dash or motor and connected to intake manifolds, carburetor and gasoline supply reservoir. The motors suction through manifold drains gasoline from reservoir on rear to small vacuum tank, from which gasoline falls in a positive, smooth flow to carburetor.

Eliminates feed troubles common to other systems. Over the steepest grades and roughest roads it maintains a perfect feed of gasoline.

Standard equipment on ninety-five per cent of all cars. Can be quickly and easily installed on any make of car or truck. W't each 6 lbs.

No. F6841—116—For small cars, such as Dodge and Chevrolet. Reserve capacity, 1.82 pints, each★ $18.00

No. F6842—122—For cars similar in size to Buick. Reserve capacity, 2.12 pints,★ .....each $18.60

Other models for passenger cars

No. F6843—113—Reserve capacity, 2.67 pints,★ .....each $18 00

No. F6844—127—Reserve capacity, 4.19 pints,★ .....each $18.60

Heavy Duty

For motor trucks, has a larger capacity than that of type for passenger cars. Built in two sizes three and three-fourths pints, and five pints.

The Heavy Duty System has also quicker filling and empting facilities, due to Venturi type air valve and double flapper outlet valve. This model will respond to the heaviest truck demands.

Also built for service on tractors, large stationary engines, motor boats, etc. A perfect automatic gasoline feed, w't each 7½ lbs.

No. F6845—138—Reserve capacity, 5.25 pints,★ .....each $19.34

No. F6846—147—Reserve capacity, 4.41 pints,★ .....each $22.68

ONE IN A BOX

EQUIPMENT PARTS FOR STEWART VACUUM SYSTEM

With the exception of Parts for Model 148.

In ordering be sure to specify part number in order to avoid error.

No. F2762—Vacuum Check Valve—113-A-B-F-G-K-P., 116-A-B-F-H., 122-D-F., 127-A-B★ ...each *$0.35*

No. F2815—Lavigne Solderless Coupling—113-A-F-H-K., 116-A., 127-A., each★ *$0.35*

No. F2816—Lavigne Solderless Coupling Elbow—113-A-F-H-K., 116-A., 127-A★ .....each *$0.50*

No. F3911—Top Cover Casting, Assembled Complete without Float—All Models, except Heavy Duty, each★ *$1.00*

No. F3830—Cover Gasket—All Models dozen★ *$1.50*

No. F3912—To Cover Assembled Complete with Float (All Models, except Heavy Duty)★ .....each *$3.50*

No. F3973—Gasoline Strainer Assembly—122-A-B★ ....each *$0.75*

No. F4975—Outside Shell Assembly—113-A-B-F-H-J-L-R★ each *$2.75*

No. F6383—Vent Tube Extension—113-A-B-C-G-H-J-K-L-P-R-S., 116-A-B-E-H., 122-D-E ★ ..each *$0.30*

No. 7308—Vacuum Valve Nipple—113-C★ .....dozen *$0.30*

No. F7485—Inner Shell Assembly—All Models★ .....each *$2.50*

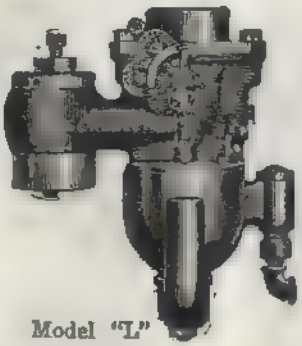
No. F12084—Drain Pet-Cock—113-C-F-G-H-J-K., 125-C-D., 113-S., each★ *$0.15*

No. F10870—Flapper Valve Assembly—All Models★ .....each *$1.25*

Parts not listed above can be supplied direct from factory.

★ Items Marked Thus ★ Are Shipped From Factory Only.

SCHEBLER CARBURETORS


Model "L"

The MODEL "L" Carburetor is designed for high speed motors, where low throttling, rapid acceleration, maximum power and speed are required. The lift needle type carburetor is designed so that the amount of fuel entering the motor is automatically controlled by means of a raised needle working automatically with the throttle. The supply of gasoline can be adjusted for low, intermediate and high speed, each adjustment being independent and not affecting either of the others. The model "L" is furnished with a jacket around the throttle, which can be connected with the hot water when a circulating pump is used, and a bend for taking warm air from around the exhaust manifold into initial air opening of the carburetor, by means of the hot air drum and tubing.

No.	Model	Size, in.	W't each, lbs.	Each.
F5432	"L"	1	7	*$25.00★*
F5433	"L"	1¼	7½	*26.00★*
F5434	"L"	1½	8½	*31.50★*

Model "L"—Dash Control.

The MODEL "L" Carburetor is manufactured with a dash control air valve, it being operated by a lever which is controlled by a switch on the dashboard or steering post of the car. A dashboard or steering column adjuster will be furnished with these carburetors when so ordered. Complete with dash or steering column control, hot air drum and tubing.

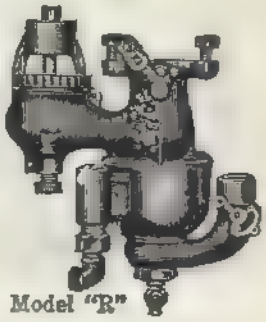
No.	Size, in.	Model	Control	W't, lbs.	Each.
F5435	1	"L"	Dash	8	*$30.50★*
F5436	1¼	"L"	Dash	8½	*31.50★*
F5437	1½	"L"	Dash	9½	*37.00★*

SPECIAL SCHEBLER CARBURETOR OUTFITS

These special carburetor outfits are furnished complete with all fittings, controls, etc., necessary to enable you to attach easily to your car. They are put up in special boxes ready for immediate shipment.

No.	W't, lbs.	Each.
F5442—Model "A," for Fords	9	*$24.00★*
F5446—Maxwell, model 25, for 1915-16-17-18	8½	*33.30★*
F5447—Overland, model 83	7½	*29.20★*
F5448—Buick, light six	12	*31.16★*
F5449—Buick, big six	12	*31.60★*
F5450—Saxon, for models A-1914; B-1915; "14;" 1916; B-5-R, 1917	10	*34.80★*

NOTE—In Ordering Repair Parts for Carburetors Always State Size.


Model "R"

The MODEL "R" Carburetor is for use on both four and six-cylinder motors. It is a single jet raised needle type of carburetor, automatic in action. The air valve controls the lift of the needle and automatically proportions the amount of gasoline and air at all speeds. This carburetor is designed with an adjustment for low speed; as the speed of the motor increases, the air valve opens, raising the gasoline needle and automatically increasing the amount of fuel. There are two adjustments, the low speed needle adjustment, which is made by turning the air valve cap, and an adustment on the air valve spring for changing its tension. An eccentric operated either from the steering column or from the dash, which acts on the needle valve and insures easy starting. By raising the needle from the seat in this way, an extremely rich mixture is furnished for starting, and for heating up the motor in cold weather. A choker in the air bend is also furnished.

No.	Model	Size, in.	W't, lbs.	Carburetor only	With Dash Control, Hot-Air Drum and Tubing
F5443	"R"	1	6½	*$27.20★*	*32.70★*
F5444	"R"	1¼	7	*29.20★*	*34.70★*
F5445	"R"	1½	7½	*31.50★*	*37.00★*

AIR VALVE CONTROLS

The Dashboard Controls for the air control of the carburetor should be attached in some convenient place on the dashboard of the car. The steering column control should be installed on the steering post. In making these installations it is sometimes necessary to use a bell crank to take care of some offset in the line of connection. As the steering column control is made with different sized bands for attaching, the circumference of the steering post should be given. The steering column control is furnished standard with five feet of tubing and wire. Both types of dashboard controls are furnished standard with three feet of tubing and wire.

No. F5451—Extra controls, w't complete 2 lbs., each ..... *$4.20★*

Specify Type Desired.

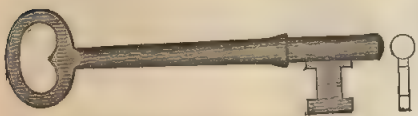
★ Items Marked Thus ★ Are Shipped from Factory Only.

KEY BLANKS

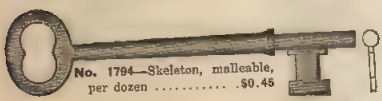
Illustrations Actual Size.

SKELETON

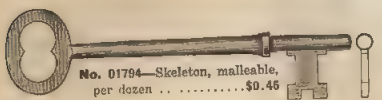
No. 998—Wachter, steel, thin bit, will fit most rim and mortise locks without filing.. .....per dozen **$1.60**



No. 1790—Skeleton, malleable .....per dozen **$0.45**



No. 1794—Skeleton, malleable, per dozen **$0.45**

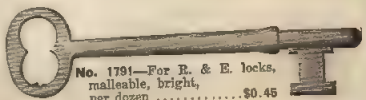


No. 01794—Skeleton, malleable, per dozen **$0.45**

No. 1794A—Nickel plated .....per dozen **$0.45**

No. 1795—Per dozen **$0.45**

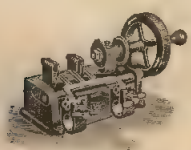
No. 1794B—Per dozen **$0.45**



No. 1791—For R. & E. locks, malleable, bright, per dozen **$0.45**

ALL ABOVE, THREE DOZEN IN A BOX

SEGAL RECTIFYING KEY CUTTERS



Single piece vise giving absolute trueness of cut. Holds groove keys in the groove so that cut is accurate. Operated by hand or power, dimensions 14 in. long, 8 in. wide, 7½ in. high.

No. 800—Equipped to cut flat keys such as trunk, letter box, padlock keys, etc., as well as cylinder keys., each **$35.00**

No. 900—Equipped to cut cylinder key only, each **$25.00**

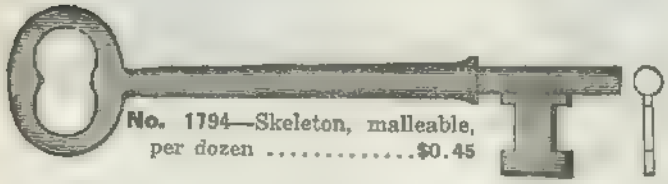
KEY BLANKS

Illustrations Actual Size.

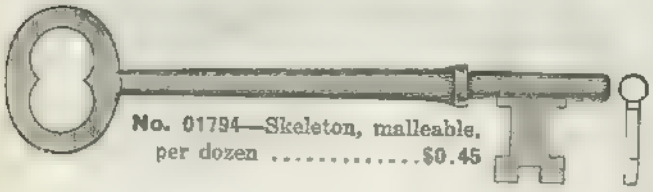
SKELETON

No. 998—Wachter, steel, thin bit, will fit most rim and mortise locks without filing.....per dozen **$1.60**

No. 1790—Skeleton, malleable .....per dozen $0.45



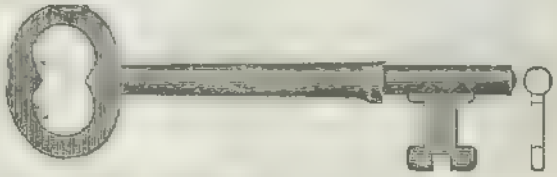
No. 1794—Skeleton, malleable, per dozen $0.45



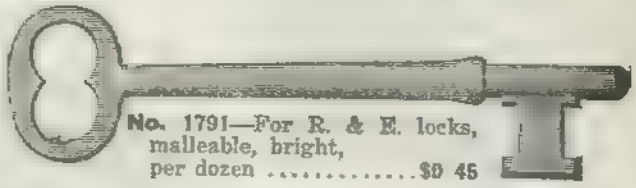
No. 01794—Skeleton, malleable, per dozen $0.45

No. 1794A—Nickel plated .....per dozen $0.45

No. 1795—Per dozen $0.45



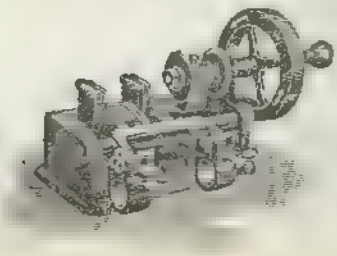
No. 1794B—Per dozen $0.45



No. 1791—For R. & E. locks, malleable, bright, per dozen $0 45

ALL ABOVE, THREE DOZEN IN A BOX

SEGAL RECTIFYING KEY CUTTERS



Single piece vise giving absolute trueness of cut. Holds groove keys in the groove so that cut is accurate. Operated by hand or power, dimensions 14 in. long, 8 in. wide, 7½ in. high.

No. 800—Equipped to cut flat keys such as trunk, letter box, padlock keys, etc., as well as cylinder keys., each $35.00

No. 900—Equipped to cut cylinder key only, each **$25.00**

KEY BLANKS

Illustrations Actual Size.

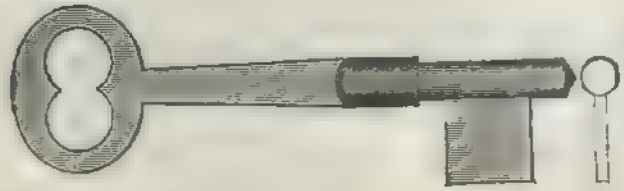
LOCK

No. 1076—Steel, for Y. & T. locks .....per dozen $1.60
No. 1676—Malleable .....per dozen $0 45

No. 1772—For R. & E. locks, malleable, bright,
per dozen $0.45

No. 1087A—Steel, for Y. and T. locks ...per dozen $1.60
No. 1687A—Malleable .....per dozen $0.45

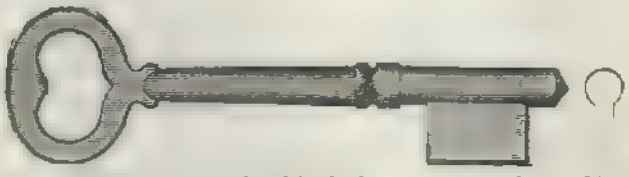
No. 1042—For R. & E. locks, steel..... per dozen $1.60
No. 1642—For R. & E. locks, malleable ..per dozen $0.45



No. 982A—For Reading locks, steel .....per dozen $1.60
No. 1982A—For Reading locks, malleable, per dozen $0.45

No. 975B—Steel for **Barrows** locks ....per dozen $1.60
No. 1975B—Malleable, for **Barrows** locks, per dozen .45

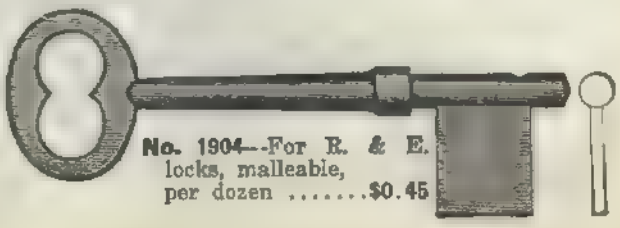
No. 1029A—Steel, for **R. & E.** locks . . per dozen $1.60
No. 1629A—Malleable, for **R. & E.** locks,
per dozen ..... .45



No. 970A—Steel, for **Corbin** locks .....per dozen $1.60
No. 1970A—Malleable, for **Corbin** locks ..per dozen .45

No. 1910—Malleable for R. & E locks, per dozen ..$0.45

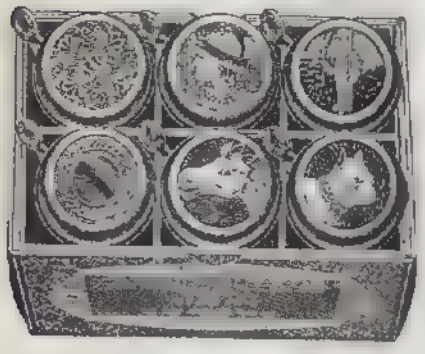
No. 1917—For R. & E. locks, malleable ..per dozen $0.45



No. 1904—For R. & E. locks, malleable,
per dozen $0.45

BICYCLE BELL ASSORTMENT

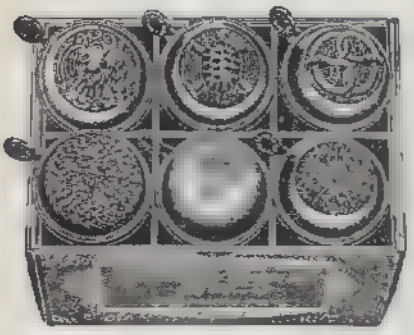
MASCOT



Any one of the bells can be sold independently of assortment. Bells individually boxed in a container.

No. 1670—Consists of 12 handsome 2½ in. bells decorated in brilliant colors with unique mascot designs, flat top steel gongs electrically welded to hub of bell, tone unusually pure and free from clatter, w't per ass't 4 lbs., per ass't of 12 Bells....$7.80

ZOO BELL ASSORTMENT



This assortment has proven to be very popular. The gongs are made of the best bell metal and brilliantly ornamented colors. The tones are sharp and musical.

ONE ASSORTMENT IN A CONTAINER

No. 1671—Assortment contains 12 bells, consisting of the following:

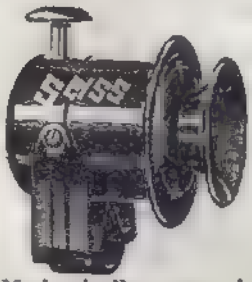
3 No. FDL,	3 No. 332B,
2 Turtle design,	1 Serpent,
1 Cherub,	1 Fox,

1 Jewel design.

The gongs are 2⅜ in. in diam., w't per asst. 4½ lbs.,
per assortment $8.60

ONE ASSORTMENT IN A BOX

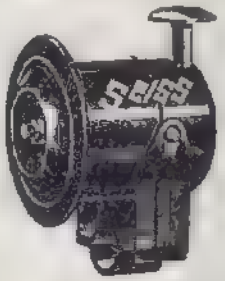
BICYCLE HORNS



Mechanically operated.

No. 1675—3½×3¾ in., all wearing parts heat treated, finished in all black with baking enamel, toothed wheels passing over a hardened special steel adjusting contact point, universal bracket constructed so as to attach to either frame tube or handle bar cross tube, positive and simple in action, no small spring, ratchet or pawls to engage, a real push horn with auto tone, w't per doz. 12 lbs., per dozen $24.00

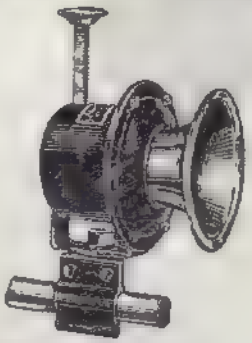
ONE IN A PACKAGE



Neat and compact horn of standard push type. Positive and simple.

No. 1676—Mechanically operated, finished in all black with baked enamel, with bracket to attach to handle bar, toothed wheels pass over a hardened special steel adjusting contact point, w't per doz. 12 lbs. .....per dozen $16.80

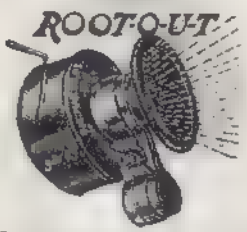
MOTORCYCLE HORNS



No. T6038—115—Stewart, hand operated, finished in black enamel with nickel plated bell, complete with brackets to attach to handle bar or frame, w't each 4 lbs.,
each $6 70

ONE IN A SUBSTANTIAL WOOD BOX

BICYCLE AND JUVENILE AUTO HORNS



This horn makes a lot of noise for its size. Operated with a small wire crank. Children use their toy wagons, Kiddie Kars and Velocipedes because it looks and sounds like an auto horn. Each Root-Out is furnished with an adjustable clamp for attaching, any convenient place on the bicycle, or juvenile vehicle. Finished in black enamel baked.

No. 1677—Root-O-u-t, w't per doz. 2½ lbs. .....per dozen $3.60

HALF DOZEN IN A BOX

Clears the way with a turn of the crank. The sound is produced by a toothed wheel coming in contact with a roller point on the diaphragm producing a loud and far reaching signal. Toothted wheel and roller contact are tempered. Finished in black enamel baked. Furnished with adjustable nickled bracket for attaching to the bicycle or juvenile vehicle.

No. 1678—Clear-O-u-t, w't per doz. 4 lbs. .....per dozen $9.60

HALF DOZEN IN A BOX

SIREN ALARMS

No. 1680—High grade stamped steel frame, highly polished, outer drums of polished brass, nickel plated, ball bearing shaft with heavy fibre roller which runs on tire, being practically indestuctible, chain attachment, screen presed in., all parts interchangeable, w't per doz. 15 lbs., per dozen $18.00

ONE IN A BOX

UNION CARBIDE

Prices on Application

No. F2.

No. F10.

"HALF-INCH" is specially selected and specially sized for use in automobile generators, bicycle lamps, motorcycle generators, hunters' lamps, fishing lamps, camping lamps, watchmen's dark lanterns' steam boiler inspection lamps, hand lanterns and numerous other small pieces of portable Acetylene apparatus designed for the use of Carbide of this size.

Because of its high gas yield, special selection, uniform size, freedom from dust, and its uniform quality, is most economical and satisfactory for use in apparatus for which this size of Carbide is adapted.

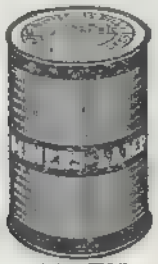
Each can is equipped with a compression top which can easily be replaced in position, so that the Carbide remaining in the can will be thoroughly protected from air and moisture.

Will keep indefinitely if protected from air and moisture.

No. F2—In 2 pound cans★ .....per case $.....

No. F10—In 10 pound cans★ .....per case .....

24 TWO-POUND CANS; 6 TEN POUND CANS IN A CASE WE DO NOT BREAK CASES OF TEN POUND CANS



No. F25.

No. F100.

"MINERS' LAMP" is specially selected and perfectly adapted for use in miners' lamps.

Because of its high gas yield, special selection, uniform size, freedom from dust, and its uniform quality, is the most economical and satisfactory Carbide for use in miners' lamps.

Packed in substantial sheet steel drums.

This very convenient 25-pound drum enables the dealer to get Carbide into the hands of the miner in an unbroken package, with no labor—no scooping, weighing or wrapping—and with no loss of Carbide from spilling or exposure.

No. F25—In 25 pound drums★ .....per 100 lbs. $.....

No. F100—In 100 pound drums★ .....per 100 lbs. .....

4 TWENTY-FIVE POUND DRUMS IN A CASE WE DO NOT BREAK CASES

Prices on other sizes of carbide not listed above can be had on application.

BICYCLE BELLS

No. 1660 Hibbard—2¾ in., nickel plated and polished, wrought steel gong, bevel beading, push button, continuous alarm, w't per doz. 6½ lbs., per doz. **$12.70**

ONE DOZEN IN A BOX

No. 1661 Hibbard—2 in., nickel plated electric rotary alarm, bell metal gong, handsomely ornamented with fleur-de-lis design, bevel bead, w't per doz. 6 lbs., per dozen **$9.70**

ONE DOZEN IN A BOX

HIBBARD nickel plated and polished, rotary electric alarm, bevel beaded, wrought steel gong.

Nos.	**1662**	**1663**
Size, in.	2	2¼
W't, doz., lbs.	2½	3½
Per dozen	$3.40	6.30

ONE DOZEN IN A BOX

No. 1664—Bronko, 3 in., nickel plated and polished bell metal gong, rotary electric alarm, operated by a lever, fastened to handle bar by lock clamp, w't per doz. 8 lbs., per dozen $19.80

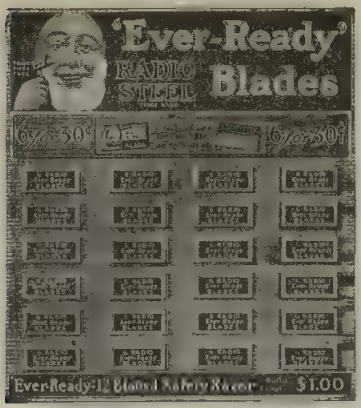
ONE IN A BOX

No. 1665—Hibbard, 2¾ in., heavily nickel plated and polished, wrought steel continuous ringing chime, rotary electric alarm, alarm continuous during forward and backward action of the lever, w't per doz. 6½ lbs., per dozen **$12.70**

ONE IN A BOX

★ **Items Marked Thus ★ Are Shipped from Factory Only.**

SAFETY RAZOR BLADES
EVER-READY



For Ever-Ready Safety Razors.

"Ever-Ready" blades are neatly arranged on an attractive display card, card contains 24 packages, 6 blades to package, making 1 gross blades.

24 Packages on a Display Card.

No.	6C
In lots of 144 packages, Per Pkg	$0 81

6 To a Package.

No.	6ERP
In lots of less than 144 packages, Per Pkg	$0 87
In lots of 144 packages or more, Per Pkg	81

STROP AND STROPPERS
EVER-READY—AUTOMATIC

Strops automatically, precisely and efficiently.

Merely insert the blade in its position—pass the device up and down the strop several times and the edge of the blade is renewed.

Made of brass, heavily nickel plated, without springs or delicate parts to get out of order. Genuine horsehide leather strop. Per Doz.

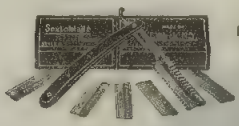
No. 1ERS—Length of strop 14 ins.; width 1¼ ins. $36 00

One in a cardboard box; wt. per doz., about 5 lbs.

SAFETY RAZORS
SEXTOBLADE

The Sextoblade razor combines the virtues of a regular razor with those of a perfect "Safety Razor". It is modeled after the standard razor, both in shape and balance, and can instantly be used as a regular razor if desired. The natural diagonal stroke, the ease and convenience of stropping, the quick simple replacement of blade are a few of the advantages to the Sextoblade.

Style A.

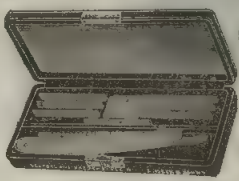


Each

No. A—Complete with black handled razor including 6 blades; put up in a plain leatherette covered box in a sealed carton $3 00 6 00

Weight each about 6 ozs.

Style B.



Each

No. B—A seven day outfit, complete with white handled razor and 7 blades; put up in a neat leather covered plush and satin lined case in a sealed carton $4 00 7 95

Weight each about 9 ozs.

Style C.

Each

No. C—Complete with white handled razor and 7 blades; put up in a soft leather folding case, plush lined; in a sealed box $4 50 9 00

Weight each about 6 ozs.

Style D.

Each

No. D—Traveling outfit complete with white handled razor and 9 blades, and collapsible shaving brush and soap in nickel plated container; put up in a leather covered case, plush and satin lined; in a sealed box $6 50 13 05

Weight each about 10 ozs.

RAZOR STROPS
SEXTOBLADE, CUSHION

Each

No. 209—Size 10¼x1¾ inches; with polished wood handle; each in leatherette scabbard; especially intended for Sextoblade blades $1 00 2 01

Half dozen in a cardboard box; weight each ¼ lb.

SAFETY RAZOR BLADES
FOR SEXTOBLADE SAFETY RAZORS

	Per Pkg.
No. 3SB—Three blades in a package	$0 50 67

Twelve packages in a carton; weight per carton ½ lb.

SAFETY RAZORS
ENDERS

Solid nickel silver frame; steel handle with knurled center, nickel plated; lgth. 4 ins. Blades are extra quality steel, carefully ground and highly tempered.

Complete with package of 5 blades, in a hinged case, covered with imitation leather, purple silk plush lined, with button clasp; size case 4 x 2 long, 2 in. wide and ⅝ in. high.

No.	12E
In lots of 1 to 3 dozen, Per Dozen	$24 00
In lots of 3 to 6 dozen, Per Dozen	22 50
In lots of 6 to 12 dozen, Per Dozen	21 60
In lots of 1 to 5 gross, Per Gross	252 00

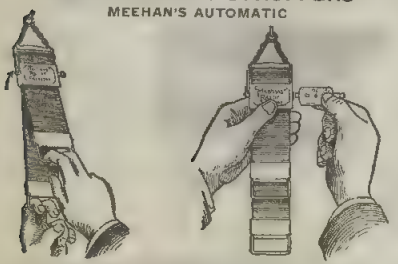
One in a box; weight per dozen 2½ lbs.

SAFETY RAZOR BLADES
FOR ENDERS SAFETY RAZORS

	Per Package of 5 blades
No. 5E	$0 69

Twenty packages in a carton.

SAFETY RAZOR STROPPERS
MEEHAN'S AUTOMATIC



Strops and sharpens Junn Premote, Durham Duplex, Gillette Military, Enders, O. V. B. and Keen Kutter, and in fact all wafer safety razor blades.

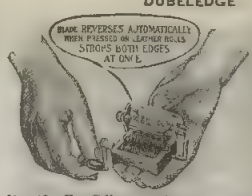
Strop made of black cotton webbing, especially woven for sharpening safety razor blades. All metal parts solid brass, nickel plated. Sharpens both sides at the same time.

Chain and ring hanger, removable metal hand hooks on either end of strop, special holders for the different styles of blades with each strop.

	Each	Per Doz.
No. 1M—Length of strop 16 in.; width 2¼ in	$3 00	31 50

One in a cardboard box; weight per dozen 5½ lbs.

SAFETY RAZOR STROPPERS
DUBELEDGE



A small, compact, heavily nickel plated and easily operated stropper. The sharpening rollers are wound spirally with a strip of horse-hide, sharpening the blade with a diagonal stroke. Blade reverses automatically sharpening edges without removing the blade from the machine.

	Per Dozen
No. 4G—For Gillette blades	$49 50
No. 6DD—For Durham Duplex blades	60 00
No. 5EG—For Ever Ready or Gem Junior blades	49 50

One in a cardboard box; wt. per doz. 4 lbs.

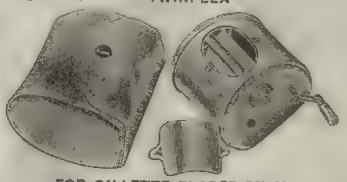
ZIG ZAG AUTOMATIC STROPPER

Stropper equipped for sharpening all standard safety razor blades. Highest grade of leather, suitable for this purpose, used. Metal handle, roughened grip. Cutting of strop impossible, as the slightest change of stroke reverses the blade holder. The curve in the strop gives a barber's stroke. Every stropper guaranteed.

	Per Doz.
No. 1ZZ—Length of strop, 14 in.	$49 50

One in a carton, half dozen in a display box; wt. per doz. 4 lbs.

TWINPLEX



FOR GILLETTE BLADES ONLY

Nickel plated case, 2¾x2¾x1⅛ in.; disappearing handle.

Quick and positive in action. Strops both edges at once, reverses itself and strops other side. The blade is easily inserted and released. The disappearing handle is a clever improvement which considerably reduces the size of the Twinplex.

Metal Nickel Plated Case, Satin Lined.

No.	G200
In less than 1 dozen lots, Each	$11 40
In 1 dozen lots, Each	10 80
In 2 dozen lots, Each	9 20

In Black Leatherette Case.

No.	G600
In less than 1 dozen lots, Each	$11 40
In 1 dozen lots, Each	10 80
In 2 dozen lots, Each	9 20

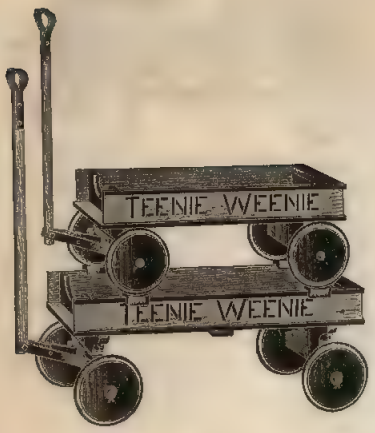
FOR DURHAM DUPLEX BLADES ONLY

In Black Leatherette Case.

No.	D650
In less than 1 dozen lots, Each	$11 40
In 1 dozen lots, Each	10 80
In 2 dozen lots, Each	9 20

Packed in a cardboard box; weight per dozen about 8 lbs.

TENNIE WEENIE COASTERS



Sturdy little wagons built to stand rough treatment by the little folks.

Wheels solid hard maple painted red, bodies natural varnish finish, trimmed in red. Bolsters ⅞ in. hard maple, 5/16 in. iron axles, nickel plated hub caps loop grip handles, heavy wrought iron tongue holders. Well braced throughout.

WITHOUT RUBBER TIRES

Nos.	N290	N291
Size of body, in.	9½×20	10½×24
Size of wheels, in.	4½	5
W't per doz., lbs.	96	162
Per dozen	$27.00	40.00

WITH ¼ IN. RUBBER TIRES

Nos.	N2906	N2916
Size of body, in.	9½×20	10½×24
Size of wheels, in.	5	5½
W't per doz., lbs.	96	162
Per dozen	$36.40	48.00

ONE-SIXTH DOZEN IN A CARTON

SHERWOOD BABY GRAND COASTERS

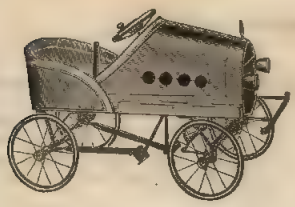
Designed especially for the little folks, too small for the speedy [illegible] Spring Coaster. Low build for safety, strength with lightness, and adaptability to the many uses the childish imagination can devise for it, are the main features of this little wagon. Body and handle natural varnish, running gear red. Size of body 9×18 inches, wheels 5 inches. Height set up 8½ inches.

No. N18—Without Rubber Tires, w't per doz. 106 lbs., per dozen $38.40

No. N186—With 5 in. double disc, rubber tired wheels, w't per doz. 110 lbs. ..... per dozen 43.50

ONE IN A CARTON

AUTOMOBILE WAGONS



No. N601—Body 12x20 in., stencilled Dodge; finished in red, gray, blue or yellow with brilliant striping and decorating; wheels 10 in. with ¾ in. rubber tires, with nickel plated hub caps; equipped with shifting lever, knuckle joint steering gear, wood rim steering wheel with nickel plated gas lever attachments, motormeter, self starter button, two imitation wooden headlights and bumper; running gears finished in black enamel, wheels finished in red enamel, w't per doz. 540 lbs., per dozen $135.00

No. N6010—Black finished body and ivory finished wheels with ball bearings and ¾ in. rubber tires, equipped with horn, w't per dozen 555 lbs., per dozen $195.00

ONE IN A CRATE

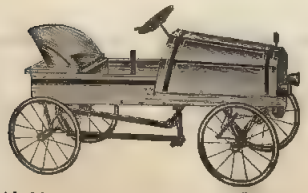
Stencilled No. 6, finished in red, gray, blue or yellow with brilliant striping and decorating. Barrel hubs with ¾ in. rubber tires and nickel plated hub caps.

Equipped with shifting lever, gas tank, two spare tires, nickel plated gas lever attachment, self starter button, two imitation wooden headlights. Running gear and wheels in black enamel.

No. N387—Wheels 14 in., w't per doz. 660 lbs., per dozen $249.60

No. N386—Body 13x43 in., wheels 12 in. and with knuckle joint steering gear, w't per doz. 636 lbs., per dozen $218.40

ONE IN A CRATE



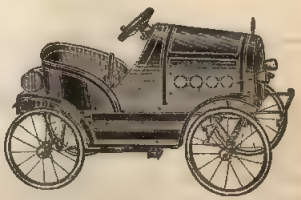
Finished in red, gray, blue or yellow with brilliant striping and decorations. Wheels 12 in. barrel hub, with ¾ in. rubber tires and nickel plated hub caps.

Equipped with shifting lever, knuckle joints steering gear, nickel plated steering rod, with wood wheel and nickel plated gas lever attachment, motormeter, self starter button, two imitation wooden headlights, seat adjustable to two positions. Running gear and wheels in black enamel.

No. N392—Body 13x42 in., w't per dozen 660 lbs., per dozen $256.80

No. N391—Body 14x36 in., shipping w't per doz. 588 lbs., per dozen $175.20

ONE IN A CRATE



Body 15x38 in., stencilled Overland. Finished in red, gray, blue or yellow, with brilliant striping and decorating. With ¾ in. rubber tires and nickel plated hub caps.

Equipped with shifting lever, gas tank, knuckle joint steering gear, nickel plated gas lever attachment, motormeter, self starter button, two imitation wooden headlights and bumpers. Running gears finished in black enamel. Wheels in red enamel.

No. N6020—12 in. ball bearing wheels, fenders and horn, w't per doz. 880 lbs. .....per dozen $285.00

No. N602—12 in. wheels, **without ball bearings, fender and horn,** w't per doz. 540 lbs. .....per dozen $195.00

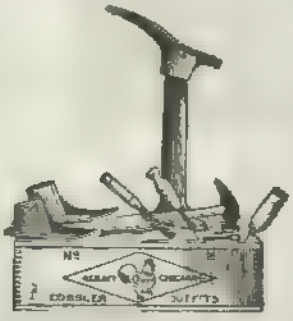
ONE IN A CRATE

COBBLERS' OUTFITS

No. N10—Consisting of 27 articles, as enumerated below, packed securely in a wood box, w't per doz. 121 lbs., per dozen $27.50

Contents.

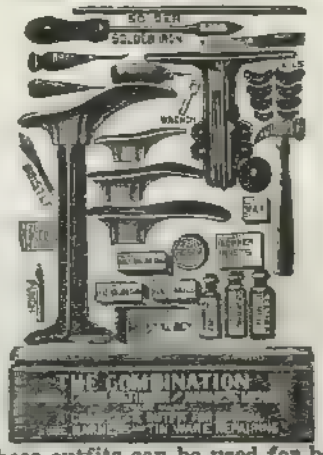
1 men's last.
1 boys' last.
1 iron stand for lasts.
1 pr. men's half soles.
1 pr. boy's half soles.
1 pr. women's half soles.
1 shoehammer.
1 shoe knife.
1 peg awl halft.
1 peg awl.
1 sewing awl haft.
1 sewing awl.
1 stabbing awl haft.
1 stabbing awl.
1 paper 4-8 clinch nails.
1 paper ⅝ clinch nails.
1 paper ½ heel nails.
1 paper shoe tacks.
4 prs. heel plates, assorted.
1 bottle rubber cement.
1 bottle leather cement.
1 ball shoethread
1 paper needles (6).
1 ball wax.
Directions for half-soling.



No. N5—Cruso, consisting of 15 articles, as enumerated below, packed securely in a wood box, w't per doz. 83 lbs. .....per dozen $15.80

1 men's last
1 boys' last
1 women's last
1 stand for lasts
1 shoe hammer
1 shoe knife
Directions.
1 peg awl haft
1 peg awl
1 sewing awl haft
1 sewing awl
1 paper clinch nails
1 paper heel nails

COMBINATION OUTFITS



These outfits can be used for boots, shoes, rubber, harness and tinware.

No. N15—Consisting of 44 articles, as enumerated, packed securely in a wood box, w't per doz. 142 lbs., per dozen $33 50

Contents.

1 men's last
1 boys' last
1 women's last
1 child's last
1 iron stand for lasts
1 shoehammer
1 shoe knife
1 peg awl haft
1 peg awl
1 sewing awl haft
1 sewing awl
1 stabbing awl haft
1 stabbing awl
1 paper 4-8 clinch nails
1 paper ⅝ clinch nails
1 paper 6-8 clinch nails
1 paper ½ heel nails
4 prs. heel plates ass't'd
1 bottle rubber cement
1 bottle leather cement
1 ball shoe thread
6 harness needles
1 ball wax
1 harness and saw clamp
1 harness and belt punch
1 box slotted rivets, ass't'd
1 soldering copper
1 bar solder
1 box resin
1 piece tin
Directions for using.

LAP LASTS

Round Toe, Cast Iron, Japanned

Nos.	21	22
Size	Medium	Large
Size, in.	2¾-4½ 3-5¼	3½-5½ 3¾-5¾
W't per doz., lbs.	33	42
Per dozen	$5.20	7.00

LOOSE

REVONOC STANDS AND LASTS

Made of "Semi-Steel," strong, durable and well fitted.

The warrant covering these stands and lasts is very broad, if one breaks merely notify us and the factory will send one to replace.

No. 11—Set consists of 3 lasts, 6, 7½ and 9 in., and 1 stand 15 in. high, w't per doz. 110 lbs., per dozen $13.50

No. 12—Set consists of 4 lasts, 6, 7½, 9 and 10½ in., and 1 stand 24 in. high, w't per doz. 180 lbs., per dozen $21.60

LASTS

Extra lasts for Nos. 11 and 12 sets.

Nos.	15	16	17	18
Size, in.	6	7½	9	10½
W't per doz., lbs.	15	18	27	39
Per dozen	$2.00	2.40	3.60	5.40

LOOSE

STANDS AND LASTS

Japanned malleable iron, adjustable lasts.

No. 6—Set consists of 3 lasts, 6, 7 and 9 in., and 1 stand 15 in. high, w't per doz. 87 lbs., ..per dozen $18.00

No. 4—Set consists of 4 lasts, 6, 7, 9 and 10 in., and 1 stand 24 in. high, w't per doz. 112 lbs., per dozen $31.50

ELECTRIC FLOOR LAMPS

FULL SIZE FLOOR LAMPS

All these floor lamps are wired complete, have 3 pull chain sockets, 6 ft silk cord with plug, and 24 in. shades. Each base crated, aver. wt. 35 lbs., with shade in separate carton, wt. 6 lbs. BASES AND SHADES ARE INTERCHANGEABLE. Order any shade or base and make up your own combination. Bulbs are not included

Mahogany Finish Base—68 in. high, 24 in. silk shade, silk lined gold braid trim, 4 in. silk fringe.

2C3315—Complete with rose top shade, blue floral panels. Each. **$17.50**

2C3317 - Base only. Each. **$7.50**

2C3318—Shade only, rose top blue floral panels. Each **$10.00**

2C3319—Shade only, green top rose floral panels. Each. **$10.00**

Mahogany Finish Base 68 in high 24 in. rayer dome silk shade silk lined gold & black braid, 4 in. silk fringe braid in panels 4 in. silk fringe.

2C3323—Complete with old rose shade. Each. **$21.00**

2C3324—Complete with copper blue shade . . Each. **$21.00**

2C3325—Base only Each. **$7.50**

2C3326—Shade only, old rose. Each. **$13.50**

2C3327—Shade only, copper blue. Each. **$13.50**

Mahogany Finish Turned Base—68 in high 24 in silk dome silk lined, chrome & gold braid trim 4 in. silk and ruffle fringe Gary 3 in. silk and ruffle fringe Gary

2C3316 — Complete with rose shade, finish. Each **$25.00**

2C3311 — Complete with blue shade rose finish. Each **$25.00**

2C3312—Base only. Each. **$10.65**

2C3315—Shade only, rose shade 24 in. silk. Each. **$15.00**

2C3314—Shade only, blue shade with rose finish. Each **$15.00**

Solid Mahogany Base—Colonial fluted, 68 in. high, fancy 24 in. shade, fine satin top with deep rose border, rose silk lined, 4 in. double silk fringe of old rose over blue.

	Each.
2C3320—Complete	**$35.00**
2C3321—Base only .	**14.00**
2C3322—Shade only. . .	**21.00**

JUNIOR SIZE FLOOR LAMP

2C3328— ½ size, 63 in high burnished silver and black finish wired complete, 3 pull chain sockets, long silk tassel pulls, 6 ft parallel cord and plug, 24 in. sun-dial shade, silver gray silk top and rose silk lined, wide silver braid and black velvet stars trimming, 6 in double fringe of gray and black Base crated, shade packed in separate carton Each. **$27.50**

COUCH OR CHAIR READING LAMP

4 ft 9 in high, mahogany finish, colonial base, curtomized brass arm adjustable at base and socket finished in black, pull chain socket, black, pull socket, wired complete, 6 ft parallel cord, with base crated shade packed in separately in carton

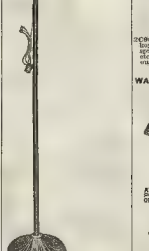
2C3329 Complete with blue silk over shade, rose silk lined, with adjustable reading top and bottom Each. **$12.00**

2C3330—Complete with old rose silk dome shade 24 in. silk lined to match, portable 3 light gold cord, base in gold finish

2C3331—Arm and base only. Each. **$7.50**

"FLEX-LITE" ELECTRIC FLOOR LAMP

A very convenient lamp for reading and fine work Adjusts to any angle Bulbs are not included with this lamp



2C3170—20 in high, Bausch finish, adjustable to any height, heavy weight, all brass, wired complete, key socket, 6 ft. ornamental parallel cord, fine fabric covered plug. 1 in crate, 25 lbs. . . . . Each, **$4.95**

READING LAMPS—Adjustable

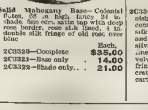
BRASS ELECTRIC PORTABLE LAMP

2C8924—10 in high, solid brass key socket, adjustable shade, spring clamps to chair, desk, bed, etc., 6 ft. cord, swivel plug, without bulb. 1 in pkg Each, **$1.25**

WALLACE ELECTRIC PORTABLE LAMP

2C3782—13 in high solid brass, satin finish, adjustable shade, push button socket, spring in base clamps to back of chair, bed, dress-ing table, etc., 6 ft. ornamental parallel cord, without bulb, 1 in carton, 1½ lbs Each. **$2.50**
Less of 13, " **$2.40**

ADJUSTABLE BRASS ELECTRIC DESK LAMP

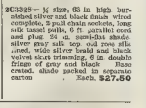


2C8549—11 in high, weighted base, adjustable at base and socket, 7 ft cord, swivel plug, key socket, without bulb. 1 in pkg Each, **$2.15**

ADJUSTABLE DESK LAMP

2C9048½—10 in high, Fascarine relief finish, 8½ in solid brass shade, cast metal base, adjustable Frame, 6 ft. panelled cord, key socket, **without bulb**, 1 in carton . . . . . Each, Cut

IVORY DESK AND BOUDOIR READING LAMP



2C3187—13½ in high, ivory finish, floral floral decorations, Pyralin cord, silk shade cover, 10 in fine quality silk lined shade, 6 ft. parallel cord, pull chain socket, 6 ft. parallel cord, swivel plug, without bulb. 1 in case. Each, **$9.00**

ONE PRICE. The bed-rock of this business is ONE PRICE We have no method, if we had the will, to charge one set of prices to some customers and another set to other customers.

ELECTRIC LAMPS TABLE & BOUDOIR

These lamps have fancy cast metal stands and overlaid shades in artistic designs, panel inserts are of amber and green glass. The lamps are wired complete, with pull chain sockets, silk cord and swivel plug, and are ready for use (no bulbs).

2C3166—3 styles, 1 light, one style 21 in. high, dull gold finish 14½ in round shade, 6 panels one style 23 in high, sprayed bronze finish 12 in hexagon shade, 6 amber panels, push button sockets cord . . . . . Each, $4.00

2C3169—2 light, 23½ in. high, plated brushed brass finish, 10 in round art shade, 6 panels, Benjamin plug 1 in barrel Each $9.50

2C3161—2 light, 24 in high, plated Florentine finish, bronze & gold, 16 in convolute, 6 panels, Benjamin plug 1 in barrel Each, $9.85

2C3418—2 light, 24 in high, antique brass finish, 17 in in shade, Benjamin plug 1 in case. Each, $9.50

2C3163—2 lights, 22½ in. high, plated Jap gold finish, 13 in shade, 6 panels Benjamin plug 1 in wood case Each, $10.75

2C3164—2 light, 24 in high, antique gold finish, 18½ in round scolle shade, 9 blue glass panels, green glass skirt, Benjamin plug 1 in barrel Each, $11.50

2C3165—2 light, 22½ in. high, plated old gold finish, 17 in octagonal shade 8 panels, Benjamin plug 1 in wood case Each, $11.50

2C3167—2 light, 23 in high, mercury finish, 18½ in. round shade, 6 panels, green panels in skirt, Benjamin plug 1 in wood case. Each $12.25

2C3186—2 light, 25 in high antique gold finish, 16 in hexagon shade, 6 panels, red glass skirt, Benjamin plug 1 in barrel Each, $12.50

2C3416—3 light, 24 in high, antique gold finish, 16½ in scenic shade, amber blue panels, green border, 6 in. brass switch stems, Benjamin plug Each, 1 shipping case, 10 lbs. Each, Net, Gross, Out.

2C3169—2 light, illuminated base, 24 in high, Empire gold finish, 18 in round shade, 6 panels, 6 colored, lens fitted with bulbs, Benjamin plug, 3 in barrel. Each, $19.00

2C3170—2 lights, 24 in high, vase shape stand, bronze plated finish, hammered brass, 20 in round shade, 6 panels, Benjamin plug 1 in wood case . Each, $19.00

Never be satisfied until EVERY SINGLE ARTICLE in your store carries a plainly marked, plain figure price ticket.

MAHOGANY BASE SILK SHADE TABLE LAMPS

These lamps are wired complete, have 2 pull chain sockets, 6 ft. of parallel cord and plug.

2 light, 24 in high, mahogany finish base, 18 in silk shade, 4 in silk fringe, gold lace and braid trimmed, gold tassel, pendants 3 in case

2C3175 With old rose shade Each, $10.00

2C3179—With copen blue shade Each, $10.50

2 light, 26 in. high, mahogany finish base, 18 in. fancy shape shade, 4 in silk fringe, gold braid and lace panel inserts. 1 in carton.

2C3177—With copen blue shade, old rose lining Each, $12.60

2C3178—With old rose shade, blue lining Each, $12.60

ELECTRIC BOUDOIR LAMPS

These lamps are wired complete, have 6 ft. parallel silk cord with swivel plug and push button sockets. Popular trade pullers that will add beauty to your store as well as extra profits to your purse.

10½ in. high, beaded triple silk shade, gun metal finish, silk shades, gun metal frame brass shade holder, white cord. 1 in carton, 12 lbs.

2C3179—With old rose silk shade

2C3180—With blue silk shade Each, $2.25

2C3182—12 in high, mahogany finish wood base, 8 in hexagon blue silk shades, floral work rose, gold braid trim, Benjamin plug, 3 in carton Each, $2.65

2C3183—13 in. high, mahogany finish wood base, 8 in scalloped silk shades, red rose and colored floral braid pencilled with gold, Benjamin plug 3 in carton. Each, $2.75

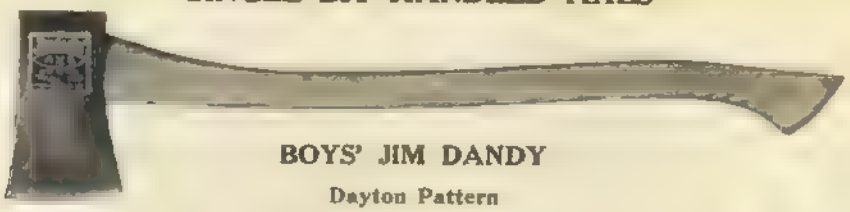
2C3181—12 in. high, ivory finish base paneled with tinted flowers 4 panel rose silk shade, white cord, Benjamin plug 1 in carton. Each, $3.15

2C3184—14 in. high, ivory finish, deep carved hexagonal shade 6 amber glass panels, decorations on shade and base, tinted in brown, green and red, white cord, Benjamin plug 1 in carton. Each, $4.90

2C3188—16 in high, ivory finish cast metal lattice design base 6x6 in square 4 panel shade of amber glass overlaid with wreath and medallion design, white cord, Benjamin plug. 1 in carton Each, $5.65

2C3185—14 in. high, 7 in round amber glass shade overlaid with silver and black festooning ma rose glass in skirt, Benjamin plug 1 in carton Each, $6.15

SINGLE BIT HANDLED AXES



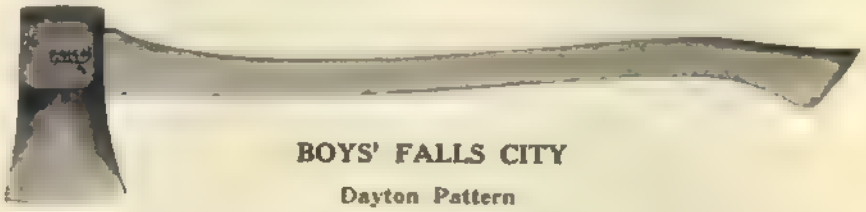
BOYS' JIM DANDY

Dayton Pattern

Best refined crucible steel black natural gas finish, tempered bit, polished cutting edge, handled with 28 inch oval hickory handle.

Jim Dandy Boys'. Width of bit 3¾ in., weight each 2¼ lb..... .....per dozen, $ . .

One half dozen in a box



BOYS' FALLS CITY

Dayton Pattern

Solid steel hand hammered, phantom bevel, painted blue, polished bit and poll; handled with 28 in. oval hickory handle.

Falls City Boys'. Width of bit 3¾ in., weight each 2¼ lb..... .....per dozen, $.....

One half dozen in a box

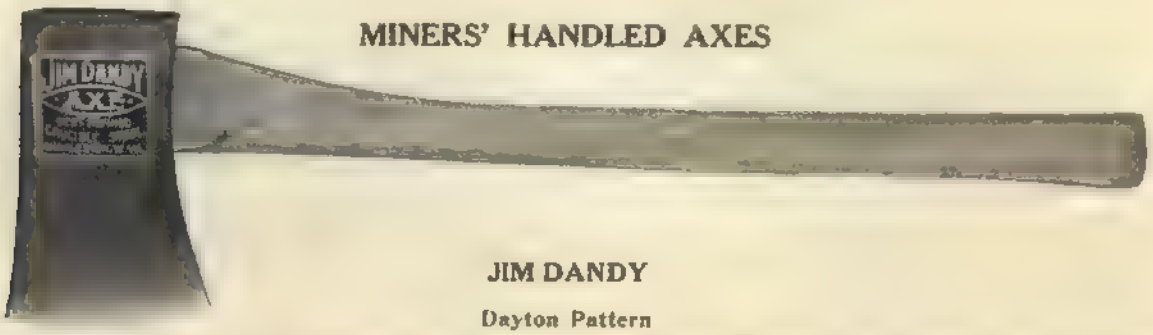
COLLINS CAMP AXES

Dayton Pattern

Collins Camp Axe. Solid crucible steel, full polished, nail slot in blade, handled with select second growth hickory handle, width of bit 3½ in., length of handle 14 in., weight each 1¾ lb.....per dozen, $..

One half dozen in a box

MINERS' HANDLED AXES



JIM DANDY

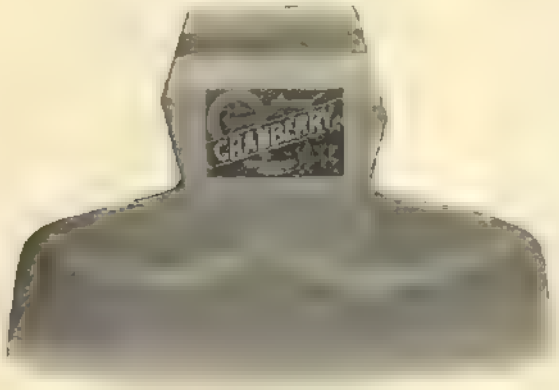
Dayton Pattern

Best refined crucible steel black natural gas finish, tempered bit polished cutting edge handled with No. 2, 26 inch oval hickory handle.

Jim Dandy Miners'. Width of bit 4½ in., weight each 4 lb..... .....per dozen, $.....

One half dozen in a box

BROAD AXES



CRANBERRY

Wisconsin Pattern

Superior quality cast steel, silver and gold finish, polished bit and poll.

Assorted weights, lb..... 6 to 7
Weight per dozen, lb..... 75
Per dozen .....$

One half dozen in a box

BROAD AXES

KEENER'S CHOPPER

Wisconsin Pattern

Hand forged, extra quality crucible cast steel, superior chemical black finish, flint edge temper, polished bit and poll.

Assorted weights, lb..... 6 to 7
Weight per dozen, lb..... 75
Per dozen ..... $

One half dozen in a box

CRANBERRY ADZES

HOUSE CARPENTERS'

Hand forged steel body, half head, superior quality cast steel bit, hardened head, ground and sharpened bit, body silver and gold finish, bit and head polished.

Cut, in.	3	4	4½
Wt. per dozen, lb	38	42	45
Per dozen .....$			

One half dozen in a box

SHIP CARPENTERS'

Hand forged steel body, spur head, superior quality cast steel bit, ground and sharpened bit, body silver and gold finish, bit and spur polished.

Cut, in	3½	4	4½
Wt. per dozen, lb.	38	40	42
Per dozen . .$			

One half dozen in a box

RAILROAD

Hand forged steel body, full head, superior quality cast steel bit, ground and sharpened bit, body silver and gold finish, bit and head polished

Cut, in.	3½	4	4½
Wt. per dozen, lb.	41	44	47
Per dozen . .$			

One half dozen in a box

TRACK ADZES

IMPERIAL

A special tool for track laying and all heavy woodwork around mines and lumber plants. Polished blade and poll, finished blue. Extra long octagon poll for driving spikes. Eye made to fit regular sledge handle

Weight 3¾ lb each. . . . . per dozen, **$24.00**

BARK SPUDS

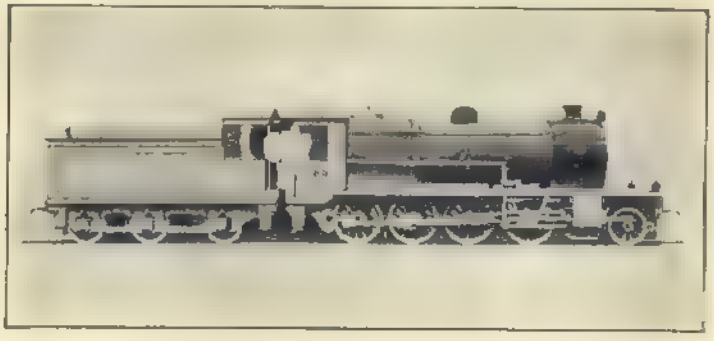
Blade is forged from best high carbon steel. Handle is turned from well seasoned hardwood

Without handles, weight per dozen 20 lb...per dozen, $ ..
With handles, weight per dozen 36 lb.....per dozen. ..
Extra handles, weight per dozen 16 lb.....per dozen, ..

TRADE MARK

LOCOMOTIVES

OF EVERY DESCRIPTION.



HEAVY MAIN LINE, NARROW GAUGE, RACK, COLLIERY, AND ELECTRIC LOCOMOTIVES. :: :: ALSO COMPONENT PARTS.

LOCOMOTIVES DE TOUS TYPES.

Lourdes, pour voie principale, voie étroite, voie à crémaillère, pour charbonnages.

Locomotives électriques.
Ainsi que toutes pièces de locomotives

LOCOMOTORAS DE TODA CLASES

Pesadas, para vía principal, para vía estrecha, para vía de cremallera, para hulleras, Locomotoras eléctricas.

Así como todas piezas de locomotoras.

SIR W. G. ARMSTRONG, WHITWORTH & CO., LTD.,

NEWCASTLE-UPON-TYNE.

LONDON OFFICE:

8, GREAT GEORGE STREET, WESTMINSTER, LONDON, ENGLAND.

Cablegrams. "ZIGZAG, PARL., LONDON"

SLEIGH BELLS AND BODY STRAPS

GENUINE SWEDISH

Rough.

Nos.	6X	10X	12X
Size, in.	2¼	2½	3¼
W't, doz., lbs.	6	9	12
Per dozen	$12.40	22.30	25.60

SWEDISH STRAPPED

Rough.

No. 40—Length 18 in., 4 bells, w't 3 lbs. .....per strap $8.10

No. 60—Length 26 in., 6 bells, w't 4½ lbs. .....per strap $11.80

Polished.

Nos.	4P	6P
Length, in.	18	26
No. of bells	4	6
W't, lbs.	3	4½
Per strap	$6.80	10.90

ROUND LOOSE

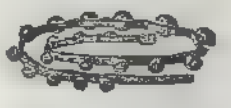
Polished and coppered.

Nos.	1	2	3	4
Size, in.	1⅛	1¼	1⅜	1½
W't per doz., lbs.	⅝	1	1⅛	1¼
Per dozen	$1.20	1.60	2.10	2.50

Nos.	5	6	7	8
Size, in.	1⅝	1¾	1⅞	2⅛
W't per doz., lbs.	1⅜	2	2⅛	2⅜
Per dozen	$2.80	3.30	4.10	4.70

Nos.	9	10	11
Size, in.	2⅜	2⅝	2⅞
W't per doz., lbs.	3½	4⅛	5⅛
Per dozen	$5.70	6.80	7.80

BODY STRAP



Polished, for body or neck strap.

No. 059—Size of bells 1¼ to 2⅛ in., 19 bells, w't 5 lbs., per strap $8.60

No. 069—Size of bells 1¼ to 2⅛ in., 23 bells, w't 6 lbs. ..per strap $5.90

BODY STRAP

Article bells, rolled nickel plated wrought steel, plain black leather straps, riveted buckle and billet.

No.	789	
Size of bells, in.	1¼	
No. of bells	30	
W't, lbs.	2½	
Per strap	$4.90	

Nos.	794	1201
Size of bells, in.	1¼	1½
No. of bells	30	42
W't, lbs.	2½	3½
Per strap	$5.40	6.50

No. 1727—31 white silver Arctic bells, 7½ ft. plain black leather strap, rivteed buckle and billet, size of bells, eight 1¼ in., eight 1½ in., six 1⅝ in., four 1¾ in., four 1⅞ in., one 1⅝ in., w't per strap 3½ lbs., per strap $6.50

SHAFT CHIMES

Wrought steel bells, beaded gongs, japanned iron strap.

No. 862—Rolled brass plated, w't per pr. 3 lbs. .....per pair $1.50

ONE PAIR IN A BOX

SLEIGH BELLS AND BODY STRAPS

GENUINE SWEDISH

Rough.

Nos.	8X	10X	12X
Size, in.	2¼	2¾	3¼
W't, doz., lbs.	6	9	12
Per dozen	$12.40	22.30	25.60

SWEDISH STRAPPED

Rough.

No. 40—Length 18 in., 4 bells, w't 3 lbs. .....per strap $8.10

No. 60—Length 26 in., 6 bells, w't 4½ lbs. .....per strap $11.80

Polished.

Nos.	4P	6P
Length, in.	18	26
No. of bells	4	6
W't, lbs.	3	4½
Per strap	$6.80	10.90

ROUND LOOSE

Polished and coppered.

Nos.	1	2	3	4
Size, in.	1½	1½	1⅝	1¾
W't per doz., lbs.	¾	1	1¼	1⅝
Per dozen	$1.20	1.60	2.10	2.50

Nos.	5	6	7	8
Size, in.	1⅞	1¾	1¾	2⅛
W't per doz., lbs.	1¾	2	2¼	2½
Per dozen	$2.60	3.30	4.10	4.70

Nos.	9	10	11
Size, in.	2¼	2½	2¾
W't per doz., lbs.	3¼	4¼	5¼
Per dozen	$5.70	6.80	7.80

BODY STRAP

Polished, for body or neck strap.

No. 059—Size of bells 1½ to 2½ in., 19 bells, w't 5 lbs., per strap $8.60

No. 069—Size of bells 1½ to 2½ in., 23 bells, w't 6 lbs. ..per strap $5.90

BODY STRAP

Article bells, rolled nickel plated wrought steel, plain black leather straps, riveted buckle and billet.

No.	789	
Size of bells, in.	1½	
No. of bells	30	
W't, lbs.	2¾	
Per strap	$4.90	

Nos.	794	1201
Size of bells, in.	1½	1¾
No. of bells	30	42
W't, lbs.	2¾	3½
Per strap	$5.40	6.50

No. 1727—31 white silver Arctic bells, 7½ ft. plain black leather strap, riveted buckle and billet, size of bells, eight 1½ in., eight 1¼ in., six 1⅛ in., four 1½ in., four 1⅜ in., one 1⅝ in., w't per strap 3½ lbs., per strap $6.50

SHAFT CHIMES

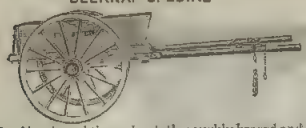
Wrought steel bells, beaded gongs, japanned iron strap.

No. 862—Rolled brass plated, w't per pr. 3 lbs. .....per pair $1.50

ONE PAIR IN A BOX

CONTRACTORS' DUMP CARTS

BELKNAP SPECIAL



Made of hardwood throughout, thoroughly braced and bolted. Each side board is screwed to its sill by four anchor bolts, the front of the bed is bound together by two heavy tie rods, which also pass through cross cleats on the front gate, securing the latter in place. The front end gate is fitted between heavy strips on each side-board. All wearing parts are protected. The wheels are standard, wide tread, 5 ft., 4 inches from outside to outside of tires. The carts are provided with all necessary chains and hooks.

	Each
No. 100BS 2 inch steel axle; length bed 5 ft. 3 inches; depth of bed 16 ins.; width at front 35¼ ins.; width at back 39¼ ins; diam. wheels 56 ins.; size tire 3x5 ins	✣$315 00

Shipped K. D.

DRAG ROAD SCRAPERS

—BLUE RIBBON—SPECIAL—

With Runners.

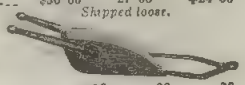
Stamped from single sheet especially hardened heavy steel. Heavy steel bails, with swivel; hardwood handles. Will scour in practically all kinds of soil.

Nos.	1BR	2BR	3BR
Length, inches	31	31½	32
Width, inches	33	29½	25
Depth, inches	10	9½	8¾
Capacity, cubic feet	7	5	3
Weight each, lbs	97	90	80
Each	$30 00	27 60	✣24 60

Shipped loose.

—CYCLONE—

With Runners.

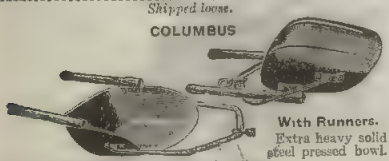


One piece steel bowl. Steel bail with swivel. Hardwood handles.

Nos.	1C	2C	3C
Length, inches	33½	31½	32
Width, inches	32	29	25
Depth, inches	11½	11½	10¾
Capacity, cubic feet	7	5	3
Weight each, lbs	70	60	60
Each	$24 75	24 00	23 25

Shipped loose.

COLUMBUS



With Runners.

Extra heavy solid steel pressed bowl.

Steel bail with swivel. Hardwood handles.

Nos.	10	20	30
Length, inches	33½	31½	32
Width, inches	32	29	25
Depth, inches	11½	11½	10¾
Capacity, cubic feet	7	5	3
Weight each, lbs	112	95	80
Each	$32 55	29 10	25 95

Note—No. 30 is strictly a ditching scraper, with extra long nose.

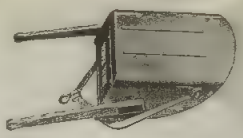
Shipped loose.

✣Dump Carts—F. O. B. Kentucky Factory Only.

✣Scrapers—F. O. B. Ohio Factory Only.

DRAG ROAD SCRAPERS

SLUSSER



With Runners.

Steel bowl, with square back, and bottom sufficiently rounded at back to prevent the dirt from sticking. Heavy steel bail, with strong swivel and fastenings. Hardwood handles.

Nos.	1S	2S	3S
Length, inches	33	32	32
Width, inches	31½	29	25
Depth, inches	11	10	9½
Capacity, cubic feet	7	5	3
Weight each, lbs	91	87	75
Each	✣$26 25	✣25 20	✣24 45

Shipped loose.

WHEEL ROAD SCRAPERS

KILBOURNE & JACOBS

Pressed Bowl.

Bowls are best steel plates, 1/16 inch thick; bottoms are oil tempered; working parts soft steel, with K & J improved wheels. The bowl is one solid piece of steel. All scrapers bored for automatic front-end gate; furnished without end gate.

No.	Wood Wheels 2W	Steel Wheels 2S
Size of bowl, inches	38½x37x13½	38½x37x13½
Width of track, in.	55	55
Diam. of wheels, in.	40	40
Capacity, cubic ft.	13	13
Weight each, lbs	644	644
Each	✣$219 75	✣232 50

No. 20—Tree and yoke extra ..... Per Set $18 00

Shipped loose, K. D.

FRONT END GATES

FOR WHEEL ROAD SCRAPERS

K. & J. Automatic.

When scraper is lowered to fill, the axle arms raise the gate, and when scraper is lifted into carrying position the gate falls into place by its own weight; preventing any loss of load.

For scraper No.	2
Each	✣$20 25

Shipped loose.

✣F. O. B. Ohio Factory Only.

SMITH'S DOCK COMPANY, LIMITED.

THOMAS & WILLIAM SMITH, LIMITED. — **ESTABLISHED 1756.** *Maison fondée en 1756.* Casa establecida en 1756.

H. S. EDWARDS & SONS. :: :: :: — **ESTABLISHED 1773.** *Maison fondée en 1773* Casa establecida en 1773.

EDWARDS BROTHERS. :: :: :: :: — **ESTABLISHED 1892.** *Maison fondée en 1892.* Casa establecida en 1892.

The original Firm of Thomas & William Smith was established at St. Peters in the year 1756, where wooden shipbuilding and repairing was carried on. The present Firm of Smith's Dock Co., Ltd., is an amalgamation which took place in 1899 of the Firm of Thomas & William Smith with the old established Firms of H. S. Edwards & Sons and Edwards Bros. Members of both families are still on the Board of Smith's Dock Co., Limited.

Les débuts de la Maison remontent à la fondation de la maison Thomas & William Smith, qui s'établirent à St. Pierre en 1756, et qui entreprirent la construction et les réparations de navires en bois. La Maison actuelle Smith's Dock Co., Ltd., provient de la fusion accomplie en 1899, de la firme fondatrice, avec la vieille maison H. S. Edwards & Sons et la maison Edwards Bros. Le conseil d'administration de la maison Smith's Dock Co., Ltd., comprend encore des membres de ces deux familles.

La Casa original de Tomás y Guillermo Smith fue establecida á St Peters en 1756, donde se realizaba la construccion y reparación de buques de madera.

La Casa actual de Smith's Dock Company, Limited, resulta de una fusión verificada en 1899 de la casa de Tomás y Guillermo Smith con las acreditadas casas de H. S. Edwards & Sons y Edwards Bros. El consejo de administración de Smith's Dock Company Limited, todavía comprende miembros de las dos familias.

SMITH'S DOCK COMPANY, LIMITED,

High Docks, SOUTH SHIELDS. **Pontoons, NORTH SHIELDS.**
Bull Ring, NORTH SHIELDS. **River Tees Dockyard, SOUTH BANK-on-TEES.**

DURING THE GREAT WAR SMITH'S DOCK COMPANY have executed war damage repairs to all classes of war vessels, from the smallest mine-layer to the largest battleship.

PENDANT LA GRANDE GUERRE LA MAISON "SMITH'S DOCK COMPANY" a exécuté la réparation d'avaries causées par la guerre sur des navires de toutes les catégories, depuis le plus petit bateau poseur de mines jusqu'au plus grands cuirassés d'escadre.

DURANTE LA GRAN GUERRA LA "SMITH'S DOCK COMPANY" ha ejecutado reparaciones de [illegible] á todas clases de buques empleados en el servicio de la guerra, desde el más pequeño sembrador de minas hasta el más grande acorazado.

Navire patrouilleur armé de canons, classe du s.s. "KIL." 26 navires de ce type ont été construits en 1917-1918 par la Maison "SMITH'S DOCK COMPANY, Ltd."
Dimensions : [illegible] Ces navires ont été pourvus de machines à triple expansion et de 2 chaudières multitubulaires à foyer d'un seul côté.

H.M. "KIL" class of Patrol Gunboats. 26 vessels of this description were built in 1917-18 by Messrs. SMITH'S DOCK COMPANY, Ltd.
Dimensions: 182 ft. 6 in. × 30 ft. × 16 ft. 6 in. Vessels were fitted with Triple Expansion Engines and 2 Single-Ended Multitubular Boilers.

Cañoneros de patrulla de clase H.M. "KIL." 26 buques de esta clase fueron construidos durante 1917-1918 por la "SMITH'S DOCK COMPANY."
Dimensiones: [illegible] Estos buques [illegible] dos calderas multitubulares con hogares á una cabeza.

Admiral SIMS says:

"I have pleasure in quoting for your information the following letter from Rear-Admiral Hugh Rodman, U.S. Navy. 'The work carried out on battleships under my command by Smith's Dock Company, Ltd., of South Shields, has been most satisfactory in all respects to me and to the Commanding Officers of the Vessels concerned. In every case the work was promptly taken in hand and efficiently and expeditiously carried on to completion.'"

Many telegrams and letters of appreciation have also been received from the British Board of Admiralty

L'amiral SIMS déclare :

"J'ai le plaisir de vous communiquer le passage suivant d'une lettre que m'adresse le [illegible] Amiral Hugh Rodman de la Marine de Guerre des Etats-Unis d'Amérique : 'Les travaux confiés à la Maison Smith's Dock Company, Ltd., à effectuer à des navires de guerre de l'escadre sous mon commandement, ont été exécutés de la manière la plus satisfaisante sous tous les rapports, aussi bien à mon propre point de vue, qu'à celui des officiers commandant les navires en question. En chaque occasion, les travaux ont été entrepris et menés à bien avec la plus grande promptitude et de façon irréprochable'".

Nous avons également reçu de nombreuses lettres et télégrammes de félicitations émanant du Ministère de la Marine Britannique.

El almirante SIMS dice:

"Me es grato citar para su gobierno la carta siguiente del contra almirante Hugh Rodman de la Armada de los Estados Unidos. 'Los trabajos ejecutados por la Cía. Smith's Dock Company, Ltd. [illegible] los acorazados bajo mi mando [illegible] estado satisfactorios en todos los conceptos, tanto á mi modo de ver como á los oficiales comandantes de los acorazados referidos. En cada caso el trabajo fué emprendido prontamente y completado eficiente y expeditamente.'"

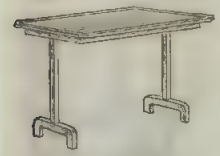
También se han recibido muchos telegramas y cartas de estimación del Ministerio del Almirantazgo Británico.

SODA FOUNTAIN AND RESTAURANT FURNITURE

SANI-PRODUCTS

Sani-Onyx table tops are made by melting crushed Onyx at a temperature of 2600 degrees Fahrenheit, they are absolutely impervious to water, liquids and even the strongest acids.

Sani-Metal is made of a combination of iron and porcelian enamel. It can be cleaned instantly with a damp cloth and has the radiantly white appearance suggestive of that fresh cleanliness so much desired in establishments serving food and drinks.



Tables.

Sani-Onyx top with Sani-Metal base. Especially designed for soda fountain and restaurant use.

Nos.	308	309	310
Size top, inches	24x36	30x48	30x60
Height, inches	30½	30½	30½
Weight each, lbs	63	67	78
Each	✣$114 75	✣146 25	✣171 00

One in a crate.

Sani-Onyx top; hardwood base; mahogany finish. Suitable for soda fountain and restaurant use.

Nos.	3M	4M	5M	6M
Size top, inches	24x36	36x36	30x48	36x72
Height, inches	30	30	30	30
Weight each, lbs	49	52	56	59
Each	✣$78 75	✣103 50	✣111 00	✣157 50

One in a crate.

Sani-Onyx top with Sani-Metal base. Especially designed for soda fountain and restaurant use.

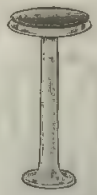
Nos.	7	8	9
Size top, inches	30x30	30x48	30x60
Height, inches	29½	29½	29½
Weight each, lbs	50	56	61
Each	✣$85 56	✣120 00	✣142 50

One in a crate.

F. O. B. Illinois Factory Only.

SODA FOUNTAIN AND RESTAURANT FURNITURE

SANI-PRODUCTS



Revolving Stools.

Sani-Metal base, porcelian enameled. Hardwood seat set in a 12 inch Sani-Metal ring. Especially designed for soda fountains and restaurant use. Has bolt holes in bottom of base for attaching to floor.

Height 25 inches.

	Each
No. 411R-GO—Hardwood seat; golden oak finish	✣$19 20
No. 411R-M—Hardwood seat; mahogany finish	✣ 19 20

Height 27 inches.

	Each
No. 412R-GO—Hardwood seat; golden oak finish	✣$19 80
No. 412R-M—Hardwood seat; mahogany finish	✣ 19 80

Crated; weight each 12 lbs.

Sani-Metal base and seat; porcelain enameled throughout. Has bolt holes in bottom of base for attaching to floor. Suitable for soda fountains and restaurant use.

Height 25 inches.

	Each
No. 405R-WE—White enamel finish	✣$21 00
No. 405R-M—Mahogany finish	✣ 23 10

Height 27 inches.

	Each
No. 406R-WE—White enamel finish	✣$21 15
No. 406R-M—Mahogany finish	✣ 23 25

Crated; weight each 19 lbs.

RESTAURANT STOOLS

Japanned iron base; revolving seat; 25 inches high; diameter seat 10 inches.

	Per Dozen
No. $1525—Golden oak seat	$94 50
No. $1625—Mahogany seat	94 50

Packed loose; shipping weight per dozen about 120 lbs.

COUNTER STOOLS

Hardwood seat; polished, with nickel plated rings; black enameled iron pedestal.

Nos.	621	625	630
Height, in	21	25	30
Diameter seat, in	12	12	12
Weight each, lbs	15	17	18
Per Dozen	✣$133 50	✣138 75	✣163 50

Hardwood seat; polished, with nickel plated rings; black enameled iron pedestal.

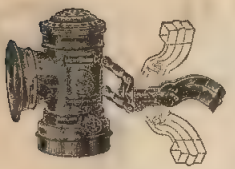
Nos.	721	725	730
Height, in	21	25	30
Diameter seat, in	12	12	12
Wt. each, lbs	10	12	15
Per Dozen	✣$103 95	✣107 25	✣111 00

Packed loose.

✣F. O. B. Illinois Factory Only.

BICYCLE LAMPS

OIL



No. 1640—Light Weight, brass, full nickel plated, height 6 in., 2½ in. lens, burning capacity 10 hrs., side lights green and ruby jewels, w't per doz. 12 lbs., Burns kerosene oil, per dozen $23 70

ACETYLENE GAS

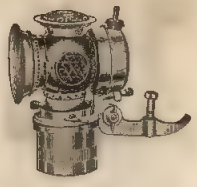
No. 1641—Search-light, brass, full nickel plated, automatic in action, will not jar out, height 8 in., 2½ in lens, w't per doz. 24 lbs., per dozen $70.70

ONE IN A BOX

H.S.B. & Co.
REV-O-NOC

We Stand Behind Our Brand.

ACETYLENE GAS



Can also furnish Universal type bracket if desired at the same price.

No. 1642—Solar, made from heavy gauge sheet brass. Embodies the wick feed system of water control which has proven the best automatic system of gas generation known. All parts such as water valve, wick tube, burner socket, nuts, etc. are made from brass tubing or rod and interchangeable. Lamp is 7 in. high, has removable aluminum reflector, double convex lens 2⅜ in. in diameter, ground and polished, 1½ in. ruby and green side glasses. Heavily nickeled and polished. Projects an intense white light 100 feet ahead. Supplied regularly with Shipp bracket, as shown in cut. This bracket is attached to the handle bar and is adjusted by removing the bolt in handle bar stem using the bolt that comes with the brackct. W't per doz. 25½ lbs. ....per dozen $72.00

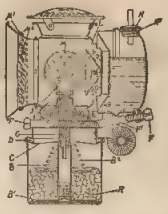
ONE IN A BOX

CARBIDE BURNERS

No. 1639—Fish tail flame, for lamps using large size lava tips, fits all standard bicycle lamps, w't, doz. 2 oz., per dozen $1.20

LOOSE

REPAIRS FOR NO. 218 SOLAR ACETYLENE GAS LAMPS



In ordering repair parts, please refer to cross section cut.

Nos.	Name of Part.	Per doz.
F2B	Screen tube	$1.10 4.10★
F2B1	Screen tube plate	2.00 2.00★
F2B2	Carbide spring	1.10 4.10★
F2C	Washer plate	2.00 2.00★
F2C1	Washer plate nut	2.00 2.00★
F2D	Rubber washer	2.00 2.00★
F2E	Fibre wick	2.00 2.00★
F2F	Wick tube cap	2.00 2.00★
F2F1	Wick tube	1.10 4.10★
F2G	Water valve	3.20 3.20★
F2G1	Water valve washer and nut	1.36 1.35★
F2H	Filler cap	2.00 2.00★
F2H1	Filler cap washer	.60 .60★
F2I	Tip holder	2.00 2.00★
F2J	Tip	2.00 2.00★
F2K	Ratchet screw	3.00 3.00★
F2L	Reflector	1.10 4.10★
F2M	Jewel—red or green	3.00 3.00★
F2M1	Lens doors	6.00 6.00★
F2M2	Lens	5.40 5.40★
F2N	Bracket complete	10.00 10.00★
F2O	Bracket side R. H.	3.00 3.00★
F2O1	Bracket side L. H.	3.00 3.00★
F2P	Clamp thumb screw	3.00 3.00★
F2Q	Clamp thumb screw nut	1.36 1.35★
F2R	Carbide tank	8.20 8.20★
F2S	Ratchet screw thumb nut	1.36 1.35★
F2T	Pivot bolt	2.00 2.00★
F2U	Pivot bolt nut	1.36 1.35★

★ Items Marked Thus ★ Are Shipped From Factory Only.

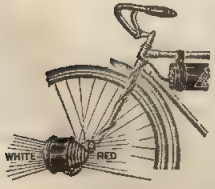
ELECTRIC LIGHTING OUTFITS

DELTA, black enamel finish, nickel trimmed, high grade red ruby jewel which throws light to rear serving both as head and tail light arranged to fit on handle bar or front fork, battery case of steel, bright black enamel finish, can be clamped to top or bottom of cross bar, switch located on end of case, **without batteries.**

No. 1630-38—Battery container for battery, shipping w't per doz. 25 lbs. .....per dozen **$40.00**

No. 1631-39—Battery container for **two** batteries, shipping w't per doz. 34 lbs. .....per dozen **$44.00**

ONE IN A BOX

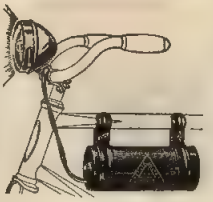


MODEL 60

No. 1632-60—1—Cell comb, head and tail lamps, finished in black enamel. Throws powerful light to front and red to rear. Fits any bicycle under axle nut, front left side. Rubber shock absorber at base of bulb. Takes bulb No. 444, 1—cell. **Without Batteries.** W't per dozen 20 lbs. .....per dozen **$36.00**

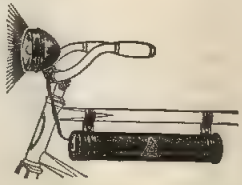
ONE IN A BOX

ELECTRIC LIGHTING OUTFITS



No. 1633-27—**Delta,** black enamel, nickel trimmed, holds one dry battery, switch mounted on cover of battery case, battery case of steeel, finished in black enamel, clamps firmly to cross bar, **without batteries,** w't per doz. 12 lbs. , per dozen **$36.00**

ONE IN A BOX



New type of tandem battery container, can be clamped wherever most convenient, above or below cross bar below tank or to frame. Wherever attached the strong clamps hold it rigid and prevent swaying. Simple to connect batteries. Printed directions with each lamp.

No. 1634-28A — **Delta,** finished in black baked enamel, operates on two dry batteries, diam. of lens 3 in., projects powerful light over 300 ft. ahead. Battery case made of heavy steel, switch located on front end of batttery case, Mazda bulb 2.8 volts (our No. 460) constructed to exact focus, no adjustment required, headlight clamps to handle bar, can be turned in any direction by means of swivel joint, **less batteries,** w't per doz. 80 lbs., per dozen **$40.00**

ONE IN A BOX

BULBS FOR ELECTRIC BICYCLE LAMPS

Ediswan Base.

Double Contact Ediswan Base.

Miniature Screw Base.

Miniature Screw Base.

Single Contact Ediswan Base.

No. 1645—1.5 volts miniature base, for No. 27 lamps .....each **$0.30**

No. 1646—2.8 volts miniature base, for Nos. 24, 28, 28A and 32 lamps, each **$0.30**

No. 1647—2.8 volts double contact Ediswan base, for No. 4 old lamps, each **$0.50**

No. 1648—2.8 volt, 2 C. P. single contact Ediswan base, for Nos. 45 and 50 lamps .....each **$0.50**

RUBY REFLECTORS

This rear signal light attaches to the rear stay of the bicycle. The lens is deep ruby, reflecting a light a very long distance.

No. 1650—W't each 3 ozs., each **$0.40**

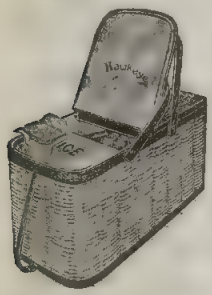
LOOSE

REFRIGERATOR BASKETS

HAWKEYE

Made in several sizes and are adapted to the home or sick room as well as for travelers' use.

Built like a first class refrigerator. The outside is imported reed, next to this there are several layers of the best insulating material. The inner lining is polished rust-proof metal, with removable ice compartment. The cover which is detachable, breaks on hinges in the center, allowing easy accessibility to either side of the basket. Inside of cover lined with zinc heavily nickel plated. Hardwood bottom covered with two coats of mineral paint. Two carrying handles and strap for holding the cover in position. The entire basket is finished in forest green. A small piece of ice keeps the contents cold for 24 hours.



HAWKEYE TONNEAU

This basket is light, neat, durable and shaped so that it can be placed under the robe rail in the tonneau of a car where it takes up little room and is within easy reach.

Highly polished, nickel plated zinc inner lining. Web straps for cover.

Each

No. T1—For party of five or six; 21 inches long, 10 inches wide, 12 inches deep; weight each 12 lbs..... $30 00

No. T2—For party of five to eight; 22 inches long, 10 inches wide, 11½ inches deep, weight each 14 lbs..... 36 00

No. T1 six in a crate; No. T2, 4 in a crate.

HAWKEYE REGULAR

This basket is very convenient for the fishing trip, as it will accommodate the lunch and tackle on the way out and the catch on the way back.

Polished metal inner lining guaranteed rust-proof. Webb strap for cover.

Each

No. R1—For party of two or three; 18 inches long, 12 inches wide, 8½ inches deep; weight each 8½ lbs..... $16 05

No. R2—For party of five or six; 20 inches long, 13 inches wide, 10 inches deep; weight each 10 lbs..... 24 00

Six in a crate.

HAWKEYE DE LUXE

This basket is made out of especially selected imported reed. Covers best quality 3-ply basswood. Lining nickel plated zinc with special insulator constructed of wool and asbestos between the lining and the body. Straps are of tanned leather with nickel plated lock buckles, hinges and all trimmings are nickel plated.

Each

No. D1—For party of two to five; 20 inches long, 12 inches wide; 10 inches deep..... $42 00

Wrapped in heavy paper; weight each 10 lbs.

AFRICAN WATER BAGS

Made of imported material especially treated, having the peculiar property of holding water and yet exuding enough moisture to prevent the sun from having any effect on the water inside the bag. These bags require no ice. Guaranteed to keep water cool for 48 hours.

Adapted to the needs of harvest and field hands, lumbermen, prospectors, surveyors, railroad men, boatmen, automobilists and every one who goes to the woods, desert or on the water, who wants a cooling drink of fresh water.

STANDARD STYLE

Double stitched, with galvanized metal mouth piece and cork stopper attached with linen cord. Has rope handle or sling.

Per Dozen

No. 1—1 gallon; weight per dozen 8¼ lbs..... $27 00
No. 2—2 gallons; weight per dozen 11 lbs..... 33 00
No. 3—3½ gallons, weight per dozen 12 lbs..... 49 50
No. 5—5 gallons; weight per dozen 18 lbs..... 63 00

Packed loose.

SANITARY STYLE

Open top, with slide to close.

Insures cleanliness and health. A bag that can be opened turned and cleaned inside as well as out. Has galvanized slide top, with a non-rustible fastening, which is easily removed for cleaning purposes. Bag is double stitched; has galvanized metal mouthpiece with cork stopper attached, with linen cord, and has long rope handle or sling.

Per Dozen

No. 11S—1 gallon; weight per dozen 12 lbs..... $31 50
No. 22S—2 gallons; weight per dozen 14 lbs..... 36 00
No. 33S—3½ gallons; weight per dozen 15 lbs..... 54 00
No. 55S—5 gallons; weight per dozen 18 lbs..... 67 50

Packed loose.

AUTOMOBILE STYLE

Sanitary, Slide Top.

Especially adapted for automobiles and motorcycles.

Double stitched, with galvanized metal mouth piece and cork stopper attached with linen cord; has wood bar across top, which keeps it in perfect shape while hanging on the car or cycle; rope handle or sling, attached to non-rust metal rings.

Per Dozen

No. 22SA—2 gallons..... $36 00

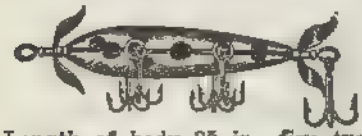
Packed loose; weight per dozen 11 lbs.

SOUTH BEND BAITS

UNDERWATER MINNOWS

Standard type of underwater minnow, used for casting or trolling. Equipped with spinner at both front and rear. Treble hooks are attached with countersunk screw-eye, trebles easily removed by simply unscrewing and lifting out. This bait, while primarily designed for all species of fresh water fish, has also proven effective for salt water species such as Striped Bass, Rovallo, etc.

FIVE TREBLE



Length of body 3⅝ in., five treble hooks, w't 1¼ ozs.

No. 905RAIN—Rainbow color, per dozen $10.80

No. 905GCB—Green cracked back, white belly .....per dozen $10.80

No. 905RH—Red head and white body, per dozen $10.80

No. 905R—Solid red color, with black nose .....per dozen $10.80

No. 905RSF—Scale finish with red blend .....per dozen $10.80

No. 906W—White body, red and green spotted decorations, per dozen $10.80

ONE IN A BOX
ONE DOZEN IN A CARTON

THREE TREBLE

3 in. body, three treble hooks, w't ⅝ oz.

No. 903RAIN—Rainbow color, per dozen $10.20

No. 903GCB—Green cracked back with white belly, per dozen $10.20

No. 903RH—Red head and white body, per dozen $10.20

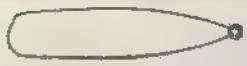
No. 903R—Solid red color, with black nose .....per dozen $10.20

No. 903RSF—Scale finish with red blend .....per dozen $10.20

No. 904W—White body, red and green spotted decorations, per dozen $10.20

ONE IN A BOX
ONE DOZEN IN A CARTON

PRACTICE CASTING WEIGHTS



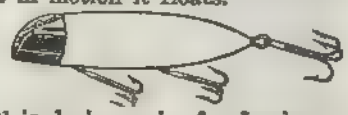
A very handy and useful article every angler will enjoy having. Just the thing for practicing casting on the lawn or at the lake. A wonderful help in teaching your friends and family how to cast. Enameled white.

No. 273—Length 3½ in., w't each ⅝ oz., per dozen $3.00

ONE IN A BOX

THE FAMOUS BASS-ORENO

Wobbler type of bait, used for casting or trolling. Has a wonderful erratic action, irresistible to game fish. In motion it dives, dashes, darts and wiggles much like an injured fish. Not in motion it floats.



3½ in. body, made of red cedar wood, and has a high finish enamel, w't each ⅝ oz. Equipped with three No. 1 Treble Hooks.

No. 973RH—Red head and white body, per dozen $10.20

No. 973Y—Yellow body with red and green spotted decorations, per dozen $10.20

No. 973R—Solid red color, with black nose .....per dozen $10.20

No. 973W—White body with red and green spotted decorations, per dozen $10.20

No. 973RAIN—Rainbow color, per dozen $10.20

No. 973F—Imitation frog color, per dozen $10.20

No. 973RHA—Red head and aluminum color body, per dozen $10.20

No. 973SF—Scale finish, per dozen $10.20

No. 973BH—Blue head and white body .....per dozen$10.20

No. 973RSF—Scale finish with red blend .....per dozen $10.20

No. 973G—Gold finish with red head, per dozen $10.20

No. 973YP—Yellow perch scale finish .....per dozen $10.20

No. 973MSF—Mullet scale finish, per dozen $10.20

NITE-LUMING

No. 973LUM—Body 3 in. long, enameled, ...per dozen $10.20

MIDGET SURF-ORENO

Surf-Oreno in a smaller size for lighter rods. Body length is 2¾ in. Equipped with two treble hooks.

No. 962RH—Red head and white body .....per dozen $10.20

No. 962W—White body with green and red spotted decorations, per dozen $10.20

No. 962RAIN—Rainbow color, per dozen $10.20

No. 962SF—Scale finish, per dozen $10.20

No. 962LUM—Nite luming finish, per dozen $10.20

No. 962GCB—Green cracked back with white belly, per dozen $10.20

ALL ABOVE ONE IN A BOX

BABE-ORENO

Weight each approx. ⅜ oz.; length 2¾ in. Equipped with one belly hook and one tail hook, both these being size No. 1 treble.

No. 972RH—Red head and white body, per dozen $10.20

No. 972Y—Yellow body with red and green spotted decorations, per dozen $10.20

No. 972R—Solid red color, with black nose .....per dozen $10.20

No. 972W—White body red and green spotted decorations, per doz. $10.20

No. 972RAIN—Rainbow color, per dozen $10.20

No. 972F—Imitation frog color, per dozen $10.20

No. 972RHA—Red head and aluminum color body, dozen $10.20

No. 972SF—Scale finish ..doz. $10.20

No. 972BH—Blue head and white body .....per dozen $10.20

No. 972RSF—Scale finish with red blend .....per dozen $10.20

No. 972G—Gold finish with red head, per dozen $10.20

No. 972LUM—Nite luming finish, per dozen $10.20

No. 972MSF—Mullet scale finish, per dozen $10.20

No. 972YP—Yellow perch scale finish .....per dozen $10.20

SURF ORENO

The Surf-Oreno is a surface bait which rides high on the water. Equipped with three treble hooks.

BODY 3¼ IN. LONG

Made of a special light wood.

No. 963RH—Red head and white body .....per dozen $10.20

No. 963W—White body with green and red spotted decorations, per dozen $10.20

No. 963RAIN—Rainbow color, per dozen $10.20

No. 963SF—Scale finish, per dozen $10.20

No. 963GCB—Green cracked back with white belly, per dozen $10.20

NITE-LUMING

No. 963LUM—Body 3¼ in. long, enameled, equipped with two spinners .....per dozen $10.20

ALL ABOVE ONE IN A BOX

SOUTH BEND BAIT ASSORTMENTS

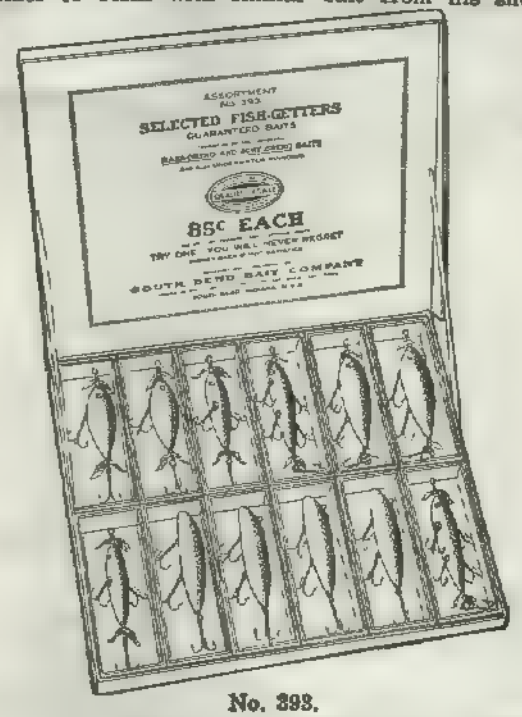
The size of each assortment box is 14x12½x1½ in. Golden rod yellow color box with red and black printing. The box has 12 compartments, each holding an individual box of one bait. The inside bottom of each compartment space has printed the description of bait it contained, thus enabling the dealer to refill with similar bait from his shelf stock.

No. 383.

Bass Oreno assortment consists of one each of the following:

No. 973RH—Red head and white body
No. 973Y—Yellow body with red and green spotted decorations
No. 973R—Solid red color, with black nose
No. 973W—White body with red and green spotted decorations
No. 973RAIN—Rainbow color
No. 973F—Imitation frog color
No. 973RHA—Red head and aluminum color body
No. 973SF—Scale finish
No. 973BH—Blue head and white body
No. 973RSF—Scale finish with red blend
No. 973G—Gold finish with red head
No. 973LUM—Nite-luming finish

No. 383—Assortment .....per assortment *$10.20*



No. 393.

Scale Fish Bait assortment consists of the following:

2—**No. 973RSF** Bass-Oreno Baits
2—**No. 973SF** Bass-Oreno Baits
2—**No. 963RSF** Standard Surf-Oreno Minnow
1—**No. 963SF** Standard Surf-Oreno Minnow
1—**No. 962RSF** Midget Surf-Oreno Minnow
1—**No. 962SF** Midget Surf-Oreno Minnow
1—**No. 903RSF** Underwater 3 treble Minnow
1—**No. 903SF** Underwater 3 treble Minnow
1—**No. 905RSF** Underwater 5 treble Minnow
1—**No. 905SF** Underwater 5 treble Minnow

No. 393—Assortment .....per assortment *$10.20*

WINDOW DISPLAY ASSORTMENTS

Beautifully lithographed in eight colors and standing 25 inches high, this full-of-color-and-action Window Display, together with the assortment of twenty-four baits, presents a most attractive trim for any tackle window. Assortment consists of:

12 only—No. 973 Bass-Orenos, 1 each, 12 standard colors
2 only—No. 963 Surf-Orenos, 1 each, colors W-SF.
2 only—No. 962 Midget Surf-Orenos, 1 each, colors RH-RSF.
2 only—No. 913 Panetella Minnows, 1 each, colors RH-RSF.
3 only—No. 903 Minnows, 1 each, colors GCBW-Rain-G.
1 only—No. 904 Minnow color W.
1 only—No. 925RH Midget Woodpecker.
1 only—No. 923RH Standard Woodpecker.

No. 377—Assortment of 24 minnows,
per assortment *$20.40*
ONE ASSORTMENT IN A CARTON

SOUTH BEND BAITS

TROLL-ORENO

For trolling for Muskie, Pike, etc., especially with a motor boat. Has same erratic, wobbling, diving motion as other members of the Oreno family.

Body is special shaped and 6¾ in. long with size 5-0 super-strong hooks and trimmings extra strong. Each bait is equipped with 5-in. removable piano wire leader.

No. 978SF—Scale finish, per dozen $24.00

No. 978RSF—Scale finish with red blend .....per dozen $24.00

No. 978RH—Red head and white body .....per dozen $24.00

No. 978R—Solid red color, with black nose .....per dozen $24.00

No. 978RAIN—Rainbow color, per dozen $24.00

No. 978RHA—Red head and aluminum color body, per dozen $24.00

ONE IN A BOX

MUSK-ORENO

Especially designed for Muskellunge and large Pike. It is a combination of the underwater and the surface type baits, diving, darting and zig-zagging in a minnow-like course when being reeled and floating when not in motion. Used for casting or for trolling.

Equipped with 5-inch removable piano wire leader. Body is 4½ in. long. Hooks are 1-0 super strong hollow point, with all trimmings extra heavy.

No. 976RH—Red head and white body .....per dozen $15.00

No. 976R—Solid red color, with black nose .....per dozen $15.00

No. 976W—White body with red and green spotted decorations, per dozen $15.00

No. 976RAIN—Rainbow color, per dozen $15.00

No. 976RHA—Red head and aluminum color body, per dozen $15.00

No. 976SF—Scale finish, per dozen $15.00

No. 976RSF—Scale finish with red blend .....per dozen $15.00

ONE IN A BOX

PANETELLA

An under water minnow of slender shape, very effective when game fish will not rise or be attracted by surface minnows. A wonderful fish getter in Florida and southern waters, 4½ in. long, w't 9-10 oz., three treble hooks.

No. 913SF—Green scale finish, per dozen $10.20

No. 913RSF—Scale finish, red blend, per dozen $10.20

No. 913RH—Red head, white body, per dozen $10.20

No. 913RAIN—Rainbow color, per dozen $10.20

ONE IN A BOX

MIDGET

Body is weighted and bait is of underwater type, equipped with front spinner, three No. 2 treble hooks and glass eyes.

No. 901RH—Red head and white body .....per dozen $9.00

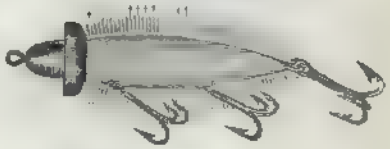
No. 901RHA—Red head and aluminum color body, per dozen $9.00

No. 901SF—Green scale finish, per dozen $9.00

No. 901RAIN—Rainbow color, per dozen $9.00

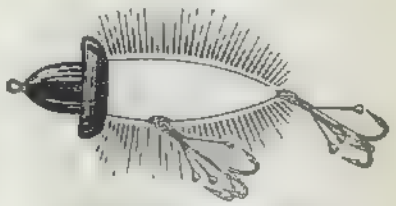
ONE IN A BOX

WOODPECKER



No. 924LUM—Nite-luming finish with red head, three treble hooks, length of body 3 in., w't ¾ oz., per dozen $10.20

ONE IN A BOX



MIDGET WEEDLESS

No. 926WDLS—Nite-luming finish with red head and white body. Equipped with two weedless treble hooks, length 3 in., w't ¾ oz., per dozen $12.00

ONE IN A BOX

VACUUM BAITS

Creates a vacuum, causing a spray which is mighty attractive to game fish.

Standard size, body length 2¾ in., by 2 in. wide at the head, w't approximately ¾ oz.

No. 1—White, red stripes, per dozen $12.00

No. 50—Dragon fly color, per dozen $12.00

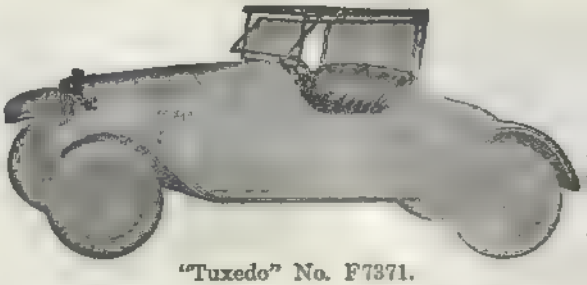
No. 60—Frog color, per dozen $12.00

ONE IN A BOX

Prices on Application.

SPECIAL BODIES FOR FORD CARS

"Symphony" No. F7370.



"Tuxedo" No. F7371.

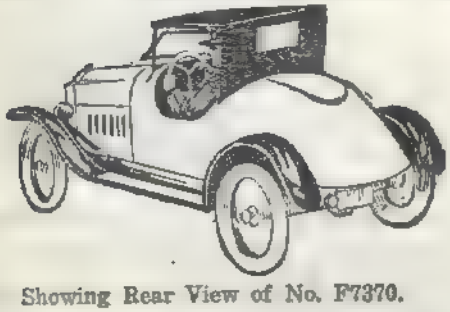
General Specifications:

Frame—Hardwood throughout, all joints properly made and securely fastened. Floor boards and dash furnished with all openings cut and wear plates furnished.
Body—22 gauge cold rolled body stock throughout.
Hood and Shell—22 gauge cold rolled body stock.
Top—Square type, collapsible, supported upon knock-down tubular frame; made of high grade pebbled finish top material; fitted with two-piece side curtains. Back of top and curtains equipped with square celluloid lights.
Windshield—Slanting, one-piece, ventilating type. Glass set in rubber in standard rolled frame.
Upholstery and Cushions—Manufactured leather pebbled or straight grain finish. French pleated and fully stuffed.
Cushion—Wood frame with oil tempered coil springs, fully stuffed and covered.
Painting—Primer, color and varnish coats. Stock colors red and brewster green. Hood and shell black baked enamel or same color as body at our option. Other colors extra and at a delay of three weeks in shipment.
Fittings—All bodies are fully equipped with necessary bolts and plates for attaching without alteration. All openings are cut in dash and floor. Floor and brake lever plates furnished. Fender irons standard equipment. Running board, dust-shield, fenders, and radiator not furnished. Bodies are built to fit any model T Ford Chassis.
IMPORTANT—In ordering, advise whether body is for old or new style radiator. Failure to do so means delay and expense.

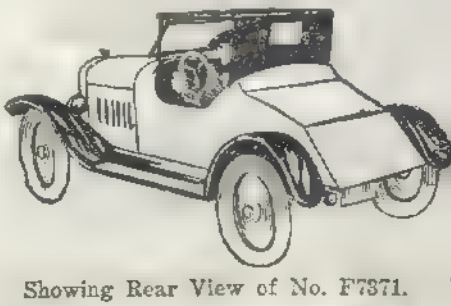
DETAILS OF SYMPHONY AND TUXEDO

Length overall, in.	120
Length overall, dash to back of cowl, in.	21
Length overall, dash to back of seat, in.	53
Extreme width of cowl, in.	37
Height of cowl from floor, in.	23
Height of seat from floor, in.	6
Height of back of seat, in.	22
Height of side of seat, in.	12½
Width of seat (outside measurement), in.	39
Width of seat (inside measurement), in.	36
Length, rear compartment bottom, in.	37
Width, rear compartment bottom, in.	37
Height, rear compartment bottom, in.	17
Size, rear compartment door, in.	17×36
Weight: crated, with top, windshield, hood and shell, lbs.	270
Without top and windshield, lbs.	250

Size of the crate, 94 in. long, 28 in. high, and 42 in. wide.



Showing Rear View of No. F7370.



Showing Rear View of No. F7371.

No. F7370—Symphony body complete—without top or windshield★ ..... each $162.00
No. F7370W—Symphony body complete—with windshield only★ ..... each 189.00
No. F7370TW—Symphony body complete—with top and shield★ ..... each 231.50
No. F7371—Tuxedo body—without top or windshield★ ..... each 120.00
No. F7371W—Tuxedo body—with windshield only★ ..... each 146.50
No. F7371TW—Tuxedo body—with top and shield★ ..... each 189.00

NOTE—Hood and shell of Tuxedo interchangeable with 1917-20 Ford model. Body alone without shell and hood purchased and applied to a standard model T chassis.

★ Items Marked Thus ★ are Shipped from Factory Only.

COMMERCIAL FENDERS
FOR FORD CHASSIS

When a Ford car is converted into a commercial car, a pair of these fenders are necessary as the fenders which are furnished with the Ford chassis will not allow a body to be put on. The fenders here shown are made of heavy gauge steel with two coats of lustrous black enamel, baked on. They match the front fenders and are easily attached. Two in a set.

Commercial fenders adapted for one ton Ford trucks, for use with all truck units and Smith Form-A-Trucks, extra heavy steel, two irons and apron, very rigid and strong.

No. F7431

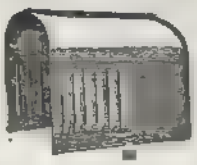
1 pair to a crate, w't 33 lbs.★ .....per pair $8.00
5 pair to a crate, w't 135 lbs.★ .....per pair 7.50

This Fender is designed to be used on Ford trucks, wherever a Ford has been remodeled into a delivery car. Easily installed. Finished in black enamel to match the front fenders furnished with Ford cars.

No. F7430

1 pair to a crate, w't 35 lbs.★ .....per pair $7.60
5 pair to a crate, w't 130 lbs.★ .....per pair 7.00

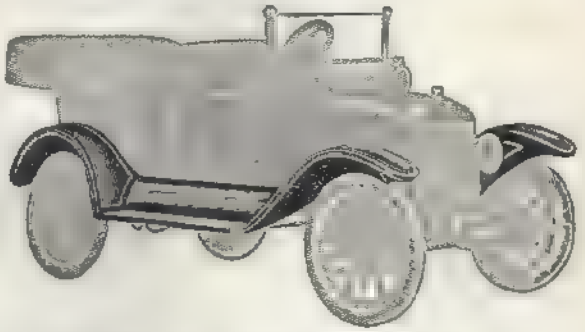
HOODS
—FOR FORD CARS—



Made of heavy gauge steel, finished with two coats of black enamel. Hood is of four-piece construction, hinged in center and on each side. This construction is in general use today and will last the life of the car. For all 1917 to 1921 Ford cars. Will change the appearance of a 1915-1916 Ford when used with our No. T7457 Radiator to that of a 1921 Model.

No. F7398—1721—1 pair to a carton, w't 22 lbs.,
each★ $6.70
No. F7399—5 pairs to a crate, w't 80 lbs.,
each★ 6.00

LAWCO INTERCHANGEABLE FENDERS



FOR 1917 TO 1921 FORD CARS

These Fenders are duplicates of the regular equipment on 1921 Ford cars and can be attached easily to all Models of 1917 and later. Made of the same gauge of material as used in the Ford Fender and finished with two (2) coats of high grade black enamel.

No. W7426—W't per set 85 lbs. .....per set $20.00

ONE SET IN A CRATE

RUNNING BOARD SHIELDS
LAWCO

The Shields are made to fit Ford cars manufactured from 1917 to 1921. Exact duplicates as furnished on 1921 cars, manufactured of heavy gauge steel finished in two coats of black enamel. These shields will fit all Model T Fords, 1911 to 1921 if our No. W7426 Fenders are used in connection with them on 1911 to 1917 Models.

No. W7427—1 pair to a crate, w't 31 lbs.,
per pair $6.70
No. F7428—5 pairs to a crate, w't 105 lbs.,
per pair★ $3.00

SHIPPING FACILITIES

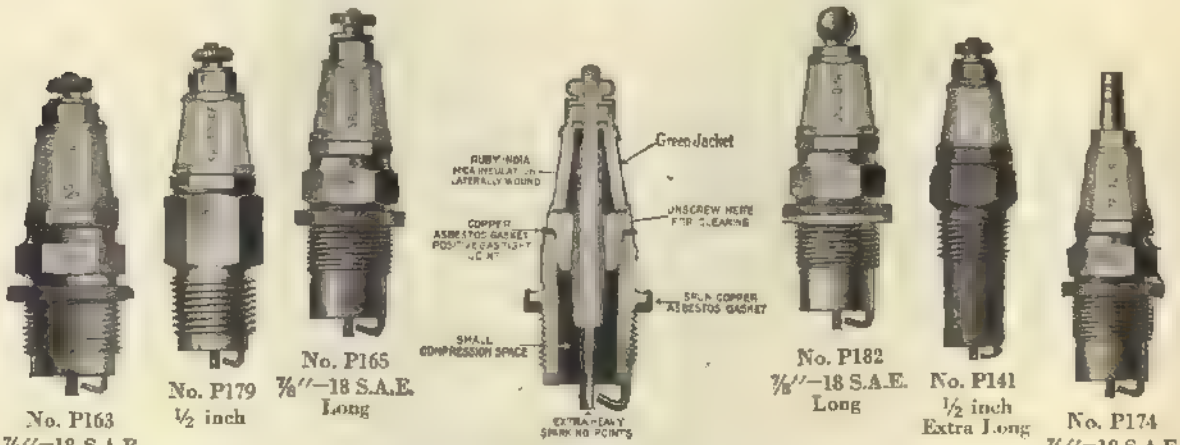
With our immense stock and very modern facilities for shipments we are enabled to fill orders with unequaled promptness. On some of the roads we have special through cars which enable us to reach distant points 24 hours ahead of shipments made in the regular way.

★ Items Marked Thus ★ Are Shipped From Factory Only.

SPLITDORF SPARK PLUGS

The Plug with the Green Jacket

Made in a variety of types—in standard sizes and of special dimensions to suit engines of every make—the keynote of the highest quality is sounded in the whole line of Splitdorf Plugs. They are as nearly soot-proof, leak-proof and unbreakable as human ingenuity can make them.



SECTIONAL VIEW

No. P163
⅞″—18 S.A.E.
Standard

No. P179
½ inch

No. P165
⅞″—18 S.A.E.
Long

No. P182
⅞″—18 S.A.E.
Long

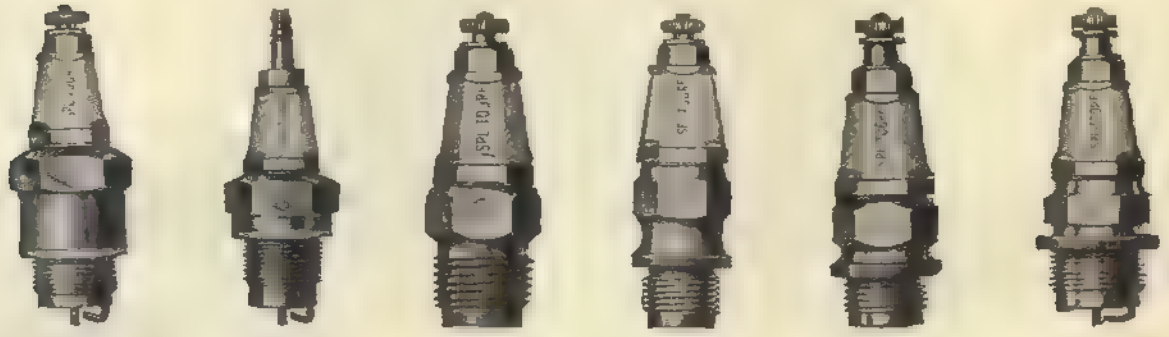
No. P141
½ inch
Extra Long

No. P174
⅞″—18 S.A.E.
Long

SPLITDORF

Imported mica of the highest grade known is used exclusively as insulation in Splitdorf Plugs, and this enables them to withstand the breaking-down effects of high-tension current.

SPLITDORF



No. P785
⅞″—18 S.A.E.
Long Body

No. P784
⅞″ 18 Long
Heavy Hex

No. P144
½ inch

No. P148
Auto Metric
Short

No. P126
Metric
Motorcycle

No. P157
⅞″ 18 S.A.E.
Motorcycle

Splitdorf Plugs were originally designed for the hardest kind of usage, and how well they have "stood up" to the terrific tests of speed and endurance in years of service in every make of internal combustion engine and in all quarters of the globe is testified to in the general demand for increasing millions of Green Jacket Spark Plugs.

Each $1.25

BETHLEHEM SPARK PLUGS

These plugs are constructed of the highest quality raw materials obtainable. All electrodes contain 98 per cent nickel. Porcelain cores on authoritative tests have exhibited three times the insulating strength and nine times greater tensile strength than other porcelains. Only India Ruby Mica is used. Steel parts are constructed of cold drawn bars. Each one is carefully heat treated and tested for tensile strength. The result of this superior workmanship is a perfect spark plug, combined with a rigid policy of trade protection. These are the points that make Bethlehem Spark Plugs a most profitable line for the dealer.

Single point plugs are absolutely gas tight and will stand up under the most severe conditions. Extra porcelain cores can be supplied for any type porcelain plug.

Two-Piece Construction

May be easily taken apart, cleaned with gasoline and reassembled.

Special for Ford Cars

½ inch, special for Ford cars, 11/16 hex. petticoat insulator, extra heavy porcelain for overcoming oil condition. Special mixture steel alloy used for electrodes for best conduction and resistance against heat.

No. 1.....each, $0.75

Special for Buick, Chandler, Etc.

⅞-18 with 1 in. hex. standard equipment on International Trucks, Weidley Motors, Cleveland Tractors, Sanford Trucks, Wichita Trucks, Dixie Flyer, Armleder Trucks and others.

No. 7.....each, $1.00

½ in. standard, special for Studebaker models taking ½ in. size. Also many cars, stationary and marine motors.

No. 6.....each, $1.00

⅞-18 with long body and 1⅛ in. hex. For Chandler, Hoyt, Moreland, Old Model White, Titan Trucks and Robinson Fire Trucks.

No. 27.....each, $1.00

⅞-18 long, 1⅛ in. hex. Special for Buick. Will fit all Buick models and is supplied with special thumb nut.

No. 29.....each, $1.00

Metric, 1 in. hex. For Essex, White Truck, Pierce-Arrow 1915 and Peerless 1915. Special for motorcycles and foreign cars.

No. 10 .....each, $1.00

Mica

Designed especially for use in air-cooled motors and are of mica; eliminating breakage and short circuiting of the plugs.

No. 61, ½ in. standard, 11/16 hex. for Henderson 1912.

No. 62, ⅞ in. 18-⅞ hex.

No. 63, metric, 11/16 in. hex.

No 101, ⅞ in. special for Franklin.

Nos. 61, 62, 63.....each, $1.00

No. 101 .....each, 1.25

One-Piece Construction

⅞-18 with ⅞ in. hex. Standard for majority of cars and trucks.

No. 07.....each, $1.00

½ in. long with ⅞ in. hex. For Reo and others.

No. 08.....each, $1.00

⅞ in. long with ⅞ in. hex. For Nash, Oldsmobile, Winton and others.

No. 019.....each, $1.00

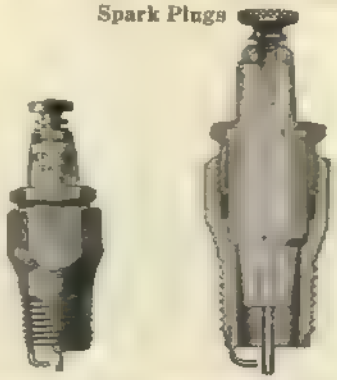
⅞-18 with 1⅛ in. hex. For Cadillac, Hudson, Packard, Paige, Pierce-Arrow, Peerless, Chalmers, etc.

No. 027.....each, $1.00

⅞ in. special length with 1⅛ in. hex. Special for Dodge, also recommended for latest model Continental Motors.

No. 029.....each, $1.00

Heavy Duty Special Porcelain Tractor Spark Plugs



Recommended for Fordson, Avery, Moline and all other tractors and heavy duty motors requiring a ½ in. standard pipe thread size. Especially designed and constructed to withstand heat and overcome excess oil and fouling. The rugged design and construction will withstand vibration and pounding of heavy duty motors. The center electrode is threaded part way and then firmly cemented in.

No. 12 ½ in. standard $1.25

DeLuxe Mica Tractor Spark Plugs

No. 92

Has been adopted as exclusive equipment on all International Harvester Tractors.

¾ in. regular. For some types of Holt, Case and Hart-Parr Tractors and others taking the ¾ in. pipe size in the regular length.

No. 91.....each, $3.50

¾ in. long. For International, some types of Hart-Parr and Case, and other tractors taking the extension type of tractor plug.

No. 92.....each, $3.50

⅞-18. For some types of Case, Holt and other tractors using a standard ⅞-18 S. A. E. spark plug.

No. 94.....each, $3.50

⅞ in. long. For some types of Holt, Mid West and other tractors using motors which require the extension length in ⅞-18 S. A. E. spark plug.

No. 95. .....each, $3.50

Regular Heavy Duty Mica Tractor Spark Plugs

The regular heavy duty mica tractor plug. The mica is wound and built up similar to other types of mica tractor plugs. The best India mica is used and each core is individually wound tight and held in place by a lock nut. A heavy well made shell and a heavy alloyed steel electrode wire are used.

No 81, ¾ inch regular.
No. 82, ¾ inch long.
No. 84, ⅞-18.
No. 85, ⅞ inch long.

Nos. 81, 82, 84, 85 .....each, $2.50

BAMBOO BAIT RODS

No. 112—4-piece, fancy Japanese bamboo, double brass ferrules, standing guide, reel bands, tube tip, capped butt, length 14 to 17 ft., in a paper bag, per dozen $52.80

No. 113—4-piece, fancy Japanese bamboo, double brass ferrules, standing guide, reel bands, tube tip, capped butt, length 20 ft., in a paper bag .....per dozen $60.00

No. 114—4-piece mottled Japanese bamboo, one tip, enameled grip, full nickel plated mountings, solid metal reel plate, silk wound tie guides, funnel tip, varnished, length 12 ft., in a paper bag .....per dozen $46.50

No. 197—4-piece, mottled bamboo, nickel plated trimmings, shoulder ferrules, wire tie guides, two-hole tip, solid metal reel seat, zylonite grip, length about 12 ft., in a paper bag .....per dozen $51.40

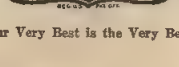
BAMBOO CASTING RODS

No. 16½J—2-piece, plain bamboo, nickel plated trimmings, large spiral wire guides, stirrup top, solid metal reel seat, nickel plated, zylonite grip, double shoulder ferrules, finger hook, lengths 5 and 5½ ft., in a paper bag .....per dozen $22 80

3-piece, Japanese bamboo, nickel plated trimmings, shoulder ferrules, solid metal reel seat, cork grip, finger hook, length 5½ ft., in a paper bag.

No. 16½J—Large heavy spiral wire guides and tip, per dozen $30.40

No. 17½J—Large Kalamazoo guides and tip, per dozen $32.00



Our Very Best is the Very Best.

SPLIT BAMBOO CASTING RODS

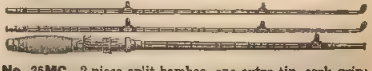
No. 21C—2 piece, nickel plated reel seat, veneered cork grip, shoulder ferrules, two ring spiral guides, ring top, silk windings, length 5 ft., in cloth bag, per dozen $41.40

No. 152—2 piece, nickel plated metal reel seat above cork grip, with finger hook, spiral casting guides, offset spiral casting tip, wound with red and black silk, in a cloth bag, length 5 ft. .....per dozen $41.40

No. 15MC—2-piece split bamboo, one tip, shaped maple grip, finished light color; the butt is about ⅗ the length of the tip, full nickel plated mountings, solid metal reel plate, finger pull, improved ferrule, welted, silk wound, one right German silver casting guides and casting tip, wound at intervals with scarlet silk, finely varnished, length 5 ft., in a partitioned cloth bag, per dozen $63.00

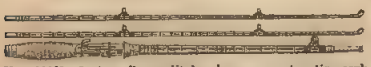
No. 115—2-piece, fine split bamboo casting rod, one tip only, solid cork grip, full nickel plated mountings, solid metal reel plate above the hand, improved ferrules, welted, large German silver two ring casting guids and a German silver casting tip; the butt is made about ⅖ of the length, giving the rod greater casting power, closely wrapped with scarlet and green silk, finely finished, length 5 ft., in a canvas partitioned bag, per dozen $104.40

No. 13DG—2-piece, split bamboo Weakfish rod, one tip, double black cord wound grips, full nickel plated mountings, solid metal reel plate, improved ferrule, welted, double hole tip and trumpet guides, closely wrapped with scarlet and green silk, finely varnished, length 6 ft., in a canvas partitioned bag .....per dozen $100.80

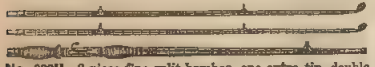


No. 25MC—2-piece split bamboo, one extra tip, cork grip; the butt is about ⅗ the length of the tip, full nickel plated mountings, solid metal reel plate, finger pull, improved ferrules, welted, silk wound, one ring German silver casting guides and casting tips, closely wound with scarlet and green silk, finely varnished, length 5 ft., in a partitioned cloth bag ....per dozen $108.00

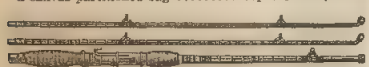
SPLIT BAMBOO CASTING RODS



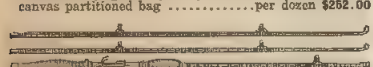
No. 400H—2-piece fine split bamboo, one extra tip, cork grip, made from selected cane, solid reel plate, finger pull, German silver improved ferrules, welted, silk wound agate guide on butt, balance German silver casting guides and German agate tips, closely wrapped with jasper and scarlet silk, finely finished, length 5 ft., in a partitioned cloth bag .....per dozen $153.00



No. 600H—2-piece fine split bamboo, one extra tip, double solid cork grip; the butt is about ⅗ the length of the tips, made from selected cane, German silver improved ferrules, welted, finger pull, silk wound German agate first guides, balance German silver one ring casting guides and German agate tips, closely wrapped with scarlet and orange silk, finely finished, length 5 ft., in a canvas partitioned bag .....per dozen $207.00

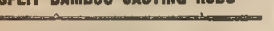


No. 100MC—2-piece fine split bamboo, one extra tip, double solid cork grip, made from selected cane; the butt is ⅗ the length of the tips, solid metal reel plate, finger hook, improved ferrules, welted, silk wound agate first guide on each tip, balance German silver one ring casting guides and agate casting tips, fancy cluster winds of scarlet and jasper silk, finely finished, length 5 ft., in a canvas partitioned bag .....per dozen $252.00



No. 1500H—2-piece fine split bamboo, one extra tip, double solid cork grip, made from fine selected cane, full German silver mountings, solid metal reel plate, finger hook, silk wound agate guides and agate tips, cluster wrappings of scarlet and green silk, finely finished, length 5 ft., in a canvas partitioned bag, per dozen $333.00

FINE SPLIT BAMBOO CASTING RODS



DOWAGIAC

Two piece, with solid satin cork grip of special Heddon design and forward grip, Heddon locking reel band, rods equipped with agate guides throughout, other guides fileproof metal, all metal ornamented and rod wound at close intervals with silk in design of three colors, furnished in 5 ft. length.

Jim Heddon's Favorite, in partitioned satin bag and waterproof case.

No. 6D—Length, ft.	4	5	5½
Per dozen	$211.20	211.20	229.20

Covered with four coats finest elastic waterproof varnish, put up in a partitioned satin bag in a waterproof leatherette case.

No. 10D—Length, ft.	4	5	5½
Per dozen	$237.60	237.60	246.50

KEVONOC SPLIT BAMBOO FLY RODS

3 piece, six strip split bamboo, nickel plated trimmings, shoulder ferrules, solid metal reel seat below cork grip, ring tie guides, fly tip, red and green silk wound, w't about 6¾ oz., in cloth bag.

No. 155 KEVONOC—With extra tip, length 9½ ft., dozen $48.60

No. 155 KEVONOC—Without extra tip, length 9 and 9½ ft., per dozen $37.80

No. 167 KEVONOC—3 piece and extra tip, six strip high grade split bamboo, nickel plated shoulder ferrules, solid metal reel seat below cork grip, snake guides, fly tips, closely wound with red and green silk, length 9½ ft., w't about 7¾ oz., in a cloth bag .....per dozen $135.40

No. 169 KEVONOC—3-piece and extra tip, fine quality six-strip split bamboo, nickel plated mountings, welted shoulder ferrules, either ring tie or snake guides, fly tips, solid metal reel seat below cork grip, very closely wound with red and green silk, cluster winding on butt, length 9½ and 10 ft., w't about 7 oz., on cloth covered form in cloth bag .....per dozen $76.60

4-piece, fly, shoulder ferrules, solid metal reel seat below fancy polished cork handle, ring tie guides, ring tip, nickel plated trimmings, red and black silk winding, length 7 ft., in a partitioned cloth bag.

No. 185 KEVONOC—Six strip split bamboo, length in bag 23 in. .....per dozen $48.60

No. 187 KEVONOC—Hexagonal split bamboo, length in bag 22 in. .....per dozen $115.20

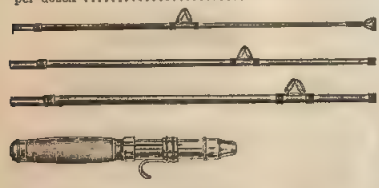
No. 293—3-piece, split bamboo, one extra tip, cork grip, nickel mountings, solid metal reel plate below the hand, improved ferrules, silk wound snake guides, closely wound snake guides, closely wound with red and black silk, finely varnished, lengths 9 and 9½ ft., in a flannel covered form and cloth bag .....per dozen $106.20

No. 211—3-piece split bamboo, one extra tip, cork grip, full German silver mountings, solid metal reel plate below the hand, German silver ferrules, welted, silk wound German silver snake guides and fly tips, closely wrapped with scarlet, black and white silk, finely varnished, length 9 ft., in a velvet covered form and canvas bag, per dozen .....per dozen $194.40

RICHARDSON'S STEEL FISHING RODS

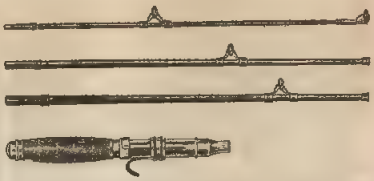
No. 700—8-piece, cork grip handle, reel seat above hand with reel lock, handle fitting heavily nickeled on brass, mounted with one nickel silver snake guide on each joint, nickel silver three-rng offset tip, enameled in black, 6½, 7½, 8½ and 9 ft., in a partitioned cloth bag, per dozen $43.20

No. 720—8-piece, cork grip handle, reel seat below hand with reel lock, handle fittings heavily nickeled on brass, mounted with one nickel silver snake guide on each joint, nickel silver three-ring offset tip, enameled in black, length 8 to 9 ft., in a partitioned cloth bag, per dozen $43.20



No. 600—3-piece, genuine ring-cork grip on handle, nickel fittings, enameled black, two-ring guides with three-ring tips, length 4½ to 5½ ft., in a cloth bag, per dozen $43.20

No. 220—8-piece, cork grip handle, reel seat below the hand, fittings heavily nickeled on brass, enameled in black, mounted with nickel silver snake guides, two guides on first joint and three guides on second and tip joints, nickel silver one-ring offset fly tip, length 8 to 9 joints, nickel silver one-ring offset fly tip, length 8 to 9 ft., in a flannel bag .....per dozen $79.90



3-piece, cork grip handle, reel seat above the hand, with reel lock and finger hook, handle fitting heavily nickeled on brass, enameled in black, lengths 4½ to 5½ ft., in a partitioned cloth bag.

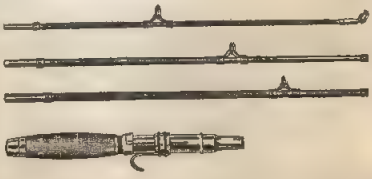
No. 780—Mounted with nickel silver ring casting guides set in nickel silver mountings, nickel silver offset tip to match .....per dozen $48.00

No. 752—Mounted with **crystal agate guide** on first joint and **crystal agate offset tip,** two nickel silver casting guides intermediate .....per dozen $56.00

No. 752A—Mounted with **genuine agate guide** on first joint, and **genuine agate offset tip,** two nickel silver casting guides intermediate .....per dozen $72.00

No. 754—Mounted with crystal agate guides on all joints, with crystal agate offset tip, mountings of nickel silver, matched in design, are used for agate guides and tips, per dozen $84.00

No. 754A—Mounted with genuine agate guides throughout, per dozen $96.00



3-piece, cork grip handle, reel seat above the hand with reel lock and finger hook, handle fittings heavily nickeled on brass, enameled in black, tip and second joints are reinforced.

No. 252—Mounted with crystal agate guide on first joint and crystal agate offset tip, two large nickel silver ring casting guides intermediate, length 4½ to 5½ ft., per dozen $88.00

No. 252A—Mounted with genuine agate guide on first joint and genuine agate offset tip, two large nickel silver ring casting guides intermediate, length 4½ to 5½ ft., per dozen $111.80

No. 254—Mounted with crystal guides on all joints, with crystal agate offset tip, length 4½ to 5½ ft., per dozen $96.00

No. 254A—Mounted with genuine agate guides on all joints, and with genuine agate offset tip, special mountings of nickel silver, matched in design, are used for the agate guides and tips, making very attractive rods, length 4½ to 5½ ft. .....per dozen $135.80

SPLIT BAMBOO FLY

No. 282—3-piece Colorado Special split bamboo, one extra tip, long solid cork grip, made from selected cane, full bronzed mountings serrated and hand welted ferrules, hand made reel plate below the hand, silk wound bronze steel snake guides, and fly tips, closely wrapped with jasper and scarlet silk, finely finished, lengths 9 and 9½ ft., is a velvet covered form and canvas bag,
per dozen $360.00

SPLIT BAMBOO TRUNK RODS

No. 180 [illegible]—4 piece, bait, six strip split bamboo, shoulder ferrules, solid metal reel seat above fancy polished cork handle, spiral wire guides, ring tip, nickel plated trimmings, red and black silk winding, length 7 ft., in a partitioned cloth bag, length in bag 23 in.,
per dozen $48.60

No. 186—4-piece split bamboo trunk, one extra tip, cork grip, nickel plated mountings, metal reel plate below the hand, improved ferrules, silk wound snake guides, silk wound at intervals with red and green silk, varnished, length 7 ft., in a partitioned cloth bag, per dozen $63.00

SUNDAY BAIT ROD

No. 72V [illegible]—3-piece, six-strip split bamboo, 13 in. joints, nickel plated trimmings, welted ferrules, winding of purple silk, trimmed with red, also extra winding between, making rod very strong, length 7 ft., in a partitioned cloth bag, per dozen $131.40

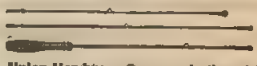
making a 6 ft. rod, cluster ring tip fits in 5th joint and one 3 ring tip, three snake guides, one 1 ring cork grip, German silver solid metal reel seat below

TELESCOPIC FLY

Reversible cork grip handle, locking reel band, can be used as a bait or fly rod.

No. 1109—Luckie, enameled indian brown, snake guides and one-ring tip, length extended 9 ft., telescoped 28 in., per dozen $52.80

UNION HARDWARE CO.'S STEEL FISHING RODS VIM BAIT



No. 495—Union Hardware Company's three joints with handle attached to butt joint, enameled in green varnished wood handle with beaded grip, snake guides, three-ring top, nickel plated reel band and ferrule. Reel seat above handle. In a cloth bag, one joint in a partition. Lengths 5½, 6½ and 8½ ft., w't per dozen 6 lbs., per dozen $20.00

SUNNY BROOK BAIT

No. 595—Union Hardware Company's three joints and butt, enameled in dead black—will not reflect light. Cork grip, reel seat above handle, one German silver snake guide on each joint, three-ring top, cloth bag, one joint in a partition. Lengths 5½, 6½ and 8½ ft, w't per dozen 5½ lbs. .....per dozen $28.00

SPECIAL CASTING ROD

No. 597—Union Hardware Company's, three joints and butt, enameled in green, cork grip, reel seat above handle, casting two-ring German silver guides, three-ring top; in cloth bag, one joint in a partition; lengths 4½, 5 and 5½ ft., w't per doz. 5½ lbs.,
per dozen $28.00

SPLIT BAMBOO FLY

No. 282—3-piece Colorado Special split bamboo, one extra tip, long solid cork grip, made from selected cane, full bronzed mountings serrated and hand welted ferrules, hand made reel plate below the hand, silk wound bronze steel snake guides, and fly tips, closely wrapped with jasper and scarlet silk, finely finished, lengths 9 and 9½ ft., is a velvet covered form and canvas bag,
per dozen $360.00

SPLIT BAMBOO TRUNK RODS

No. 180 [illegible]—4 piece, bait, six strip split bamboo, shoulder ferrules, solid metal reel seat above fancy polished cork handle, spiral wire guides, ring tip, nickel plated trimmings, red and black silk winding, length 7 ft., in a partitioned cloth bag, length in bag 23 in.,
per dozen $48.60

No. 186—4-piece split bamboo trunk, one extra tip, cork grip, nickel plated mountings, metal reel plate below the hand, improved ferrules, silk wound snake guides, silk wound at intervals with red and green silk, varnished, length 7 ft., in a partitioned cloth bag, per dozen $63.00

SUNDAY BAIT ROD

No. 72V [illegible]—3-piece, six-strip split bamboo, 13 in. joints, nickel plated trimmings, welted ferrules, winding of purple silk, trimmed with red, also extra winding between, making rod very strong, length 7 ft., in a partitioned cloth bag, per dozen $131.40

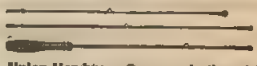
making a 6 ft. rod, cluster ring tip fits in 5th joint and one 3 ring tip, three snake guides, one 1 ring cork grip, German silver solid metal reel seat below

TELESCOPIC FLY

Reversible cork grip handle, locking reel band, can be used as a bait or fly rod.

No. 1109—Luckie, enameled indian brown, snake guides and one-ring tip, length extended 9 ft., telescoped 28 in., per dozen $52.80

UNION HARDWARE CO.'S STEEL FISHING RODS VIM BAIT



No. 495—Union Hardware Company's three joints with handle attached to butt joint, enameled in green varnished wood handle with beaded grip, snake guides, three-ring top, nickel plated reel band and ferrule. Reel seat above handle. In a cloth bag, one joint in a partition. Lengths 5½, 6½ and 8½ ft., w't per dozen 6 lbs., per dozen $20.00

SUNNY BROOK BAIT

No. 595—Union Hardware Company's three joints and butt, enameled in dead black—will not reflect light. Cork grip, reel seat above handle, one German silver snake guide on each joint, three-ring top, cloth bag, one joint in a partition. Lengths 5½, 6½ and 8½ ft, w't per dozen 5½ lbs. .....per dozen $28.00

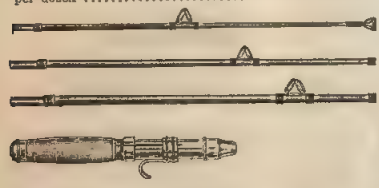
SPECIAL CASTING ROD

No. 597—Union Hardware Company's, three joints and butt, enameled in green, cork grip, reel seat above handle, casting two-ring German silver guides, three-ring top; in cloth bag, one joint in a partition; lengths 4½, 5 and 5½ ft., w't per doz. 5½ lbs.,
per dozen $28.00

RICHARDSON'S STEEL FISHING RODS

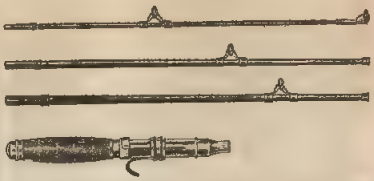
No. 700—8-piece, cork grip handle, reel seat above hand with reel lock, handle fitting heavily nickeled on brass, mounted with one nickel silver snake guide on each joint, nickel silver three-rng offset tip, enameled in black, 6½, 7½, 8½ and 9 ft., in a partitioned cloth bag, per dozen $43.20

No. 720—8-piece, cork grip handle, reel seat below hand with reel lock, handle fittings heavily nickeled on brass, mounted with one nickel silver snake guide on each joint, nickel silver three-ring offset tip, enameled in black, length 8 to 9 ft., in a partitioned cloth bag, per dozen $43.20



No. 600—3-piece, genuine ring-cork grip on handle, nickel fittings, enameled black, two-ring guides with three-ring tips, length 4½ to 5½ ft., in a cloth bag, per dozen $43.20

No. 220—8-piece, cork grip handle, reel seat below the hand, fittings heavily nickeled on brass, enameled in black, mounted with nickel silver snake guides, two guides on first joint and three guides on second and tip joints, nickel silver one-ring offset fly tip, length 8 to 9 joints, nickel silver one-ring offset fly tip, length 8 to 9 ft., in a flannel bag .....per dozen $79.90



3-piece, cork grip handle, reel seat above the hand, with reel lock and finger hook, handle fitting heavily nickeled on brass, enameled in black, lengths 4½ to 5½ ft., in a partitioned cloth bag.

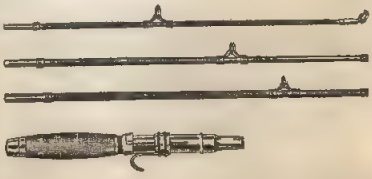
No. 780—Mounted with nickel silver ring casting guides set in nickel silver mountings, nickel silver offset tip to match .....per dozen $48.00

No. 752—Mounted with **crystal agate guide** on first joint and **crystal agate offset tip,** two nickel silver casting guides intermediate .....per dozen $56.00

No. 752A—Mounted with **genuine agate guide** on first joint, and **genuine agate offset tip,** two nickel silver casting guides intermediate .....per dozen $72.00

No. 754—Mounted with crystal agate guides on all joints, with crystal agate offset tip, mountings of nickel silver, matched in design, are used for agate guides and tips, per dozen $84.00

No. 754A—Mounted with genuine agate guides throughout, per dozen $96.00



3-piece, cork grip handle, reel seat above the hand with reel lock and finger hook, handle fittings heavily nickeled on brass, enameled in black, tip and second joints are reinforced.

No. 252—Mounted with crystal agate guide on first joint and crystal agate offset tip, two large nickel silver ring casting guides intermediate, length 4½ to 5½ ft., per dozen $88.00

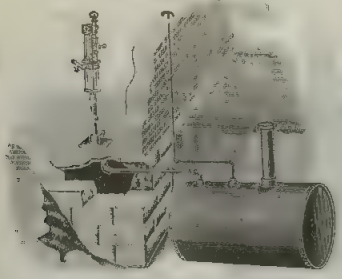
No. 252A—Mounted with genuine agate guide on first joint and genuine agate offset tip, two large nickel silver ring casting guides intermediate, length 4½ to 5½ ft., per dozen $111.80

No. 254—Mounted with crystal guides on all joints, with crystal agate offset tip, length 4½ to 5½ ft., per dozen $96.00

No. 254A—Mounted with genuine agate guides on all joints, and with genuine agate offset tip, special mountings of nickel silver, matched in design, are used for the agate guides and tips, making very attractive rods, length 4½ to 5½ ft. .....per dozen $135.80

LUBRICATING OIL OUTFITS

WESTERN SELF MEASURING, UNDERGROUND STORAGE SYSTEM



This outfit is designed to fill the demand for underground storage of lubricating oils. The tanks are built of either 14 or 16 gauge galvanized steel, welded throughout, fitted with brass foot valves, double fill pipes with lock cap and measuring stick. Pump is adjusted to measure quarts, pints or half-pints at a stroke and fitted with locking device and positive anti-drip nozzle.

Outfit with 14 Gauge Tank.

Nos.	Capacity Barrels	Capacity Gallons	Weight Lbs.	Each
A-14614-1	1	65	230	✣$207 90
A-14614-2	2	120	290	✣ 240 30
A-14614-3	3	170	350	✣ 272 70

Outfit with 16 Gauge Tank.

Nos.	Capacity Barrels	Capacity Gallons	Weight Lbs.	Each
A-14616-1	1	65	210	✣$194 40
A-14616-2	2	120	260	✣ 221 40
A-14616-3	3	170	310	✣ 248 40

One in a crate.

UNDERGROUND

An inexpensive underground storage outfit. The pump is inserted in the filler pipe and is held firmly in place by the fill pipe cap. The pump can be left this way and locked or taken out and extra lock cap screwed on.

	Each
No. A-65—55 gal. 18 ga. galvanized steel barrel, steel pump, with stuffing box, large steel plunger rod and heavy brass valves; **(padlocks not furnished)** ✣	✣$51 00
No. A-65P—Underground Pumps ✣	✣19 50
No. A-65B—Underground Barrel ✣	✣22 50
No. A-65PC—Filling Pipe and Cap ✣	✣10 50

Tank shipped loose; pump packed; weight complete 70 lbs.

✣Nos. A-14614 and A-14616—F. O. B. Missouri Factory Only.

✣Underground Outfit—F. O. B. Illinois. Factory Only.

VISIBLE FILLING GASOLINE STATIONS

SPRINGFIELD PERFECT

The Only Double Visible Filling Station Bearing Underwriters' Approval.

Cheat Proof and Fool Proof. No Waiting—One Cylinder Fills as the other Empties.

Power operated and entirely automatic in all its features, simply turn a valve, letting gasoline into car, as gasoline is always ready.

Motor has regulator attached, stopping and starting automatically. Station is self-filling and measuring, self-draining when closed and cannot flood.

Valve shows no leaks under high pressure test.

There is no pressure in glass cylinders and it is **impossible for pressure to accumulate from any cause** in any part of the station.

This station, once set and sealed, will give the same exact measure indefinitely.

Represents the highest attainment in filling stations, having no equal, in steady, perfect, rapid operation, correctness of measure and freedom from leaks.

Equipment Consists of:

1—Complete Springfield filling station with light globe (no wiring) and 10 feet listed gasoline hose with nozzle.

1—Combination vacuum pump, operated by direct connected enclosed motor.

1—Special 3 inch storage tank plug.

1—Vacuum regulator. Approved type. Standard motor used is ¼ horse power, 110 volt, 60 cycle, single phase, A. C. with a speed of 1800 R. P. M.

No storage tank is included in price given below.

	Each
No. A-EVFS—Handles 300 gallons of gasoline per hour ✣	✣$1425 00

Crated; shipping weight each 550 lbs.

EXTRA TANKS

KER-O-GAS

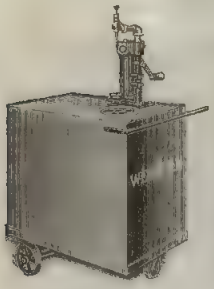
Especially designed to be used with above Filling Stations.

Nos.	Capacity Gallons	Dimensions inches	Shipping Wt. lbs.	Each
A-500KT	500	48x73	818	✣$345 00
A-840KT	840	54x84	1068	✣ 480 00
A-1040KT	1040	60x84	1251	✣ 510 00
A-1600KT	1600	60x181	1600	✣ 660 00

✣F. O. B. Illinois Factory Only.

PORTABLE LUBRICATING OIL TANKS

WESTERN



Single Unit.

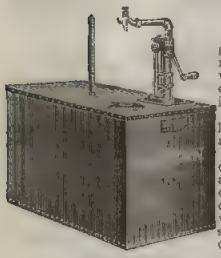
Tank is built of 14 gauge steel, all joints being welded, making a seamless tank that will withstand the strain and hard usage a tank of this kind is subjected to. Mounted on a welded angle iron frame, fitted with two 6 inch wheels and one 4 inch wheel with ball bearing swivel joint. Tank is fitted with metal stick gauge calibrated for each gallon of tank capacity and with 6 inch drip pan. Pump is adjusted to measure quarts, pints or half pints at a stroke. Fitted with positive anti-drip nozzle and with locking device.

Each

No. A-66—Capacity 60 gallons.. ..... ✤$229 50

One in a crate; shipping weight each 185 lbs.

WESTERN



Single Unit.

Tank built of 14 gauge galvanized steel, finished in rich dark olive green enamel with pump finished in black enamel with nickel trimmings.

Pumps are fitted with locking device and positive anti-drip nozzles.

The tank is fitted with drip-pan that has strainer and cast iron spider. The drip-pan is protected from dust and dirt by a cast swivel cover. The indicator shows at a glance how much oil is in the tank.

Fitted With Quart Stroke Pump.

Adjusted to measure quarts, pints or half pints.

Nos.	Capacity Barrels	Capacity Gallons	Weight Lbs.	Each
A-561-¼	1	65	160	✤$162 00
A-562-¼	2	120	220	✤ 194 40

Fitted With Half Gallon Stroke Pump.

Adjusted to measure half gallons, quarts or pints.

Nos.	Capacity Barrels	Capacity Gallons	Weight Lbs.	Each
A-561-½	1	65	185	✤$189 00
A-562-½	2	120	245	✤ 221 40

Fitted With Gallon Stroke Pump.

Adjusted to measure gallons, half gallons, quarts or pints.

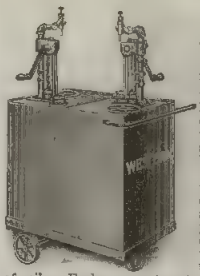
Nos.	Capacity Barrels	Capacity Gallons	Weight Lbs.	Each
A-561-1	1	65	200	✤$207 90
A-562-1	2	120	260	✤ 240 30

One in a crate.

✤F. O. B. Missouri Factory Only.

LUBRICATING OIL TANKS

WESTERN



Double Unit.

A double tank for two grades of oil.

Built of 14 gauge steel, all joints welded. The division wall being first riveted, then welded, making a break or leakage impossible. Mounted on a welded angle iron frame, fitted with two 6 inch wheels and one 4 inch wheel with ball-bearing swivel joint.

Both compartments are fitted with heavy galvanized cast iron drip pans fitted with strainer and cast iron spider, a ¾ inch pipe is screwed into bottom of drip pan and extends down within 1 inch of bottom of tank, preventing any waste of oil. Each compartment is fitted with metal stick gauge covered by polished brass screw cap. Pumps are adjusted to measure quarts, pints or half pints at a stroke. Fitted with positive anti-drip nozzle and with locking device.

Each

No. A-67—Capacity of each compartment 30 gallons ✤$432.00

One in a crate; shipping weight each 220 lbs.

BARREL PUMPS

MILWAUKEE, SELF-MEASURING

For Lubricating Oil or Kerosene Only.

Provides an inexpensive means of converting any ordinary steel barrel into a self-measuring outfit for retailing oils or kerosene.

Measuring stops are adjustable, and may be sealed by any inspector of measures, by means of a wire and lead seal. Provided with a spring lock, which by simple pressing the casting, it engages automatically.

Non-drip faucet prevents oil dripping out of the discharge pipe, after pumping ceases. Flange bushing has two sizes of threads on it, for screwing into 1½ in.; or 2 in.; threaded openings in any shipping barrel or drum. Thus it will fit any ordinary steel barrel. The suction pipe of the pump is inserted through the hole in the center of the bushing, as far as it will go into the barrel. Two thumb screws hold it firmly in position.

Each

No. A-11BP—Measure accurately a quart, pint or half-pint.....$63 45

Packed loose; weight each 25 lbs.

✤F. O. B. Missouri Factory Only.

Sales Stimulators

AMERICAN WHOLESALE CORPORATION

SPRING WINDING TOPS

Extra heavy gilt metal, red and green striping, strong spring winder.

T8136—Diam. 2 in. 1 doz. in box. (Gro. $9.00); Doz., **77c**

T8137—Diam. 2½ in. 1 doz. in box. (Gro., $10.20), Doz., **87c**

T8138—Diam. 4 in. 1 doz. in box. Doz. **$2.00**

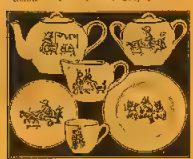
T8139—Diam. 5 in. Metal bell in box. Doz. **$2.25**

MISSES' TEA SETS

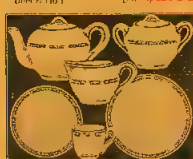
About $3.00 Value for $2.65

All pieces large enough for practical use. Pure white porcelain, decorations fired under glaze. Set comprises 23 pieces: 6 cups, 6 saucers, 6 plates, 6 cake plates, large cream pitcher, covered Sugar and Tea Pot. Packed in strong individual carton.

T1231—Gold Band decoration. Set, **$2.65**

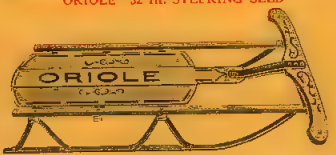


T1232—Lovers in Sweet decoration. Set **$2.65**



T1233—Floral blue border, gold stippled edges. Set, **$2.65**

"ORIOLE" 32 In. STEERING SLED



TO3010—32x12x6 in. Selected white ash top, varnished natural finish, best high carbon spring steel runners and knees; red painted. 1/6 doz. in bundle. Doz., **$8.75**

IMPORTED NOVELTY BASKET ASSORTMENT

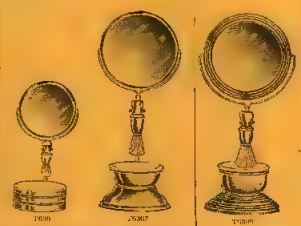
About $3.75 Value for $3.25 (nest of 5)

T1215—Round, nest of five, measuring to 14½x12 in.; fine woven split bamboo body and cover; reinforced bottom, mahogany gloss finish. Decorated with Chinese coins, asstd. colored beads, opalescent glass rings and fancy silk tassel and cord.

Per Asst. of Five **$3.25**

IMPORTED NICKEL SHAVING STANDS

Heavy stock, bright nickel finish swinging mirrors. Complete with opal lather mugs and brushes. Extraordinary values at the prices



T6309—Base 6 in., ht. 24 in. Extra heavy nickel over metal frame, adjustable mug holder. Doz. **$10.50**

T6306—Base 4½ in., ht. 9 in. Packed 1 doz. in box. Doz., **$2.25**

T6307—Base 4¾ in., ht. 18 in. Detachable nickel holder. Doz. **$7.50**

T6308—Base 5 in., ht. 13½ in. Extra heavy nickel frame. Doz. **$9.00**

T6311—Base 5 in., ht. 15 in. Extra heavy nickel ornamental frame and base. Doz., **$15.00**

T6310—Base 4½ in., ht. 10½ in. Detachable nickel mug holder, ornamental frame and base. Doz. **$16.50**

ROLY POLY FIGURES ON WHEELS

T506511—Ht. 3½ in., asstd. clown figures, painted and varnished in a variety of colors. 1 doz. in box. Gro. $9.00) Doz. **77c**

T506513—Ht. 6 in., 3½ in. wheels, ½ doz. in box. Doz., **$1.85**

METAL UTILITY BOXES

Daily increasing in demand, acceptable for linen boxes, work boxes, etc. Made of heavy black tin, inside lacquer finish, attractively decorated. Note our extremely low prices. Quantity you can offer these popular items at attractive prices. Send for list of assorted

T243—Capacity ½ lb., depth 2¾ in., diam. 3½ in., assd. green, red, pink and blue. 1 doz. in pkg. Doz **85c**

T244—Capacity 1 lb., depth 2¾ in., diam. 5 in.; black enameled, decorated on gold background. 1 doz. in pkg. Doz **85c**

T245—Capacity 1 lb., depth 2 in., diam. 7 in., green, red, blue and black set. 1 doz. in pkg. Doz **$1.85**

T246—Capacity 2 lb., depth 2¾ in., diam. 7 in., black enamel, decorated in gold and green. 1 doz. in pkg. Doz., **$1.85**

T247—Capacity 2 lb., depth 2¾ in., diam. 7 in., mottled designs in pink, blue, green and brown, scroll decoration. 1 doz. in pkg. Doz., **$1.95**

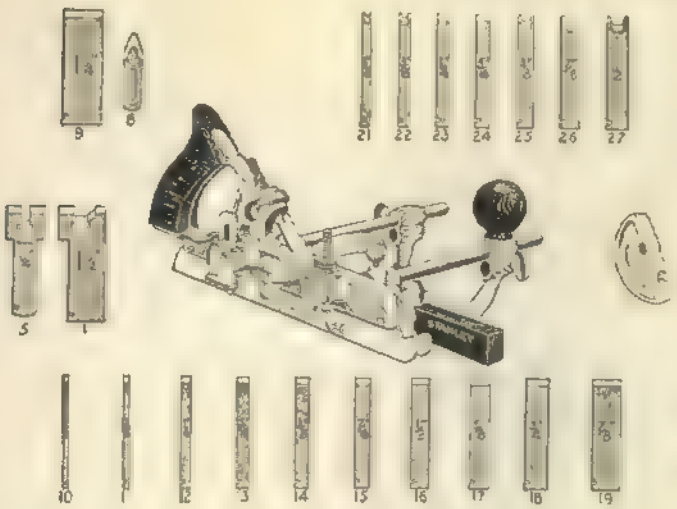
T248—Capacity 2 lb., depth 2¾ in., diam. 7 in.; Santa Claus design, typical head lithographed in seven colors. Big holiday seller. 1 doz. in pkg. Doz., **$2.10**

NICKEL SHAVING SET

About $3.95 Value for $3.50 Doz. Sets

T5261—Opal lather cup with pierced design nickel holder; lather brush with black enameled turned wood handle. 1 doz. in box. Doz. Set., **$3.50**

STANLEY "FORTY-FIVE" PLANES



Seven tools in one, in compact and practical form. 1. Beading and center beading plane. 2. Plow. 3. Dado. 4. Rabbet and fillister. 5. Match plane. 6. Sash plane. 7. Slitting plane.

The plane has two principal parts, a main stock and a sliding section. The main stock carries the handle, cutter adjustment, a slitting tool, depth gauge, and forms a bearing for one edge of the cutter. The sliding section slides on two arms secured in the stock and has a bearing for the other edge, allowing cutters of different widths to be used. A fence also slides on these arms for use when working as a plow, beader or fillister, to gauge the distance from the cutter to the edge of the board and to keep the cutter at right angles to same. When used as a fillister, the fence slides under the bottom of the plane and determines the width of cutter exposed to the work.

The plane is fitted with spurs for use across the grain, etc., and can be used either right or left hand.

With each plane are furnished twenty-one cutters, all of which are shown in the cut. The cutters, together with the plane, are packed in a neat steel box.

All metal parts are nickel plated. The handle, knob and fence are made of selected rosewood.

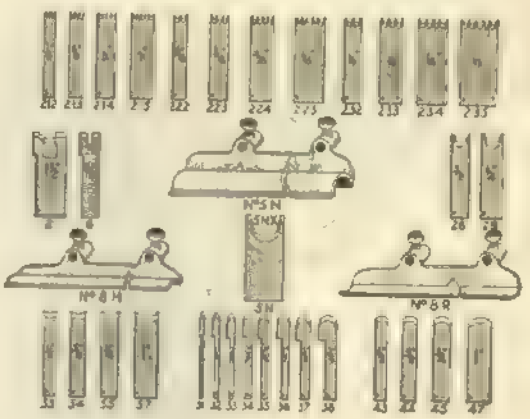
For beading at a distance from the edge of a board, attach cam rest (see cut at right of plane) to the front arm, between the sliding section and fence, to prevent the fence sagging. In certain work attach same to the rear arm, to prevent the plane from rocking.

No. 45. Nickel plated, with 22 cutters, complete weight 9½ lb. ..... each, **$30.00**

The following cutters are furnished with each plane. The list price is given in case duplicates should be required.

No.	Size	Style	Each
1	1⅛ in	Sash tool	$1.00
5	¼ in	Match tool	1.00
8		Slitting tool	.60
9	1⅝ in	Fillister	.50
10	⅛ in	Plow and dado tool	.30
11	3/16 in	Plow and dado tool	.30
12	¼ in.	Plow and dado tool	.30
13	5/16 in	Plow and dado tool	.30
14	⅜ in.	Plow and dado tool	.40
15	7/16 in.	Plow and dado tool	.40
16	½ in	Plow and dado tool	.40
17	5/8 in	Plow and dado tool	.40
18	¾ in	Plow and dado tool	.40
18½	7/8 in	Plow and dado tool	.50
19	7/8 in.	Plow and dado tool	.50
21	1/16 in	Beading tool	.30
22	3/32 in.	Beading tool	.30
23	⅛ in.	Beading tool	.30
24	5/32 in	Beading tool	.40
25	3/16 in	Beading tool	.40
26	7/32 in	Beading tool	.50
27	¼ in	Beading tool	.50

SPECIALS FOR "FORTY-FIVE" PLANE



Special Cutters for "Forty-Five" Plane

No.	Size	Style	Each
2	1⅛ in	Sash tool	$1.00
6	¼ in	Match tool	1.00
28	1/16 in	Beading tool	.60
29	3/32 in	Beading tool	.60
31	3/16 in	Fluting tool	.60
32	5/32 in	Fluting tool	.60
33	7/32 in	Beading tool	.60
34	3/8 in	Fluting tool	.60
35	7/16 in	Fluting tool	.60
36	½ in	Fluting tool	.60
37	5/8 in	Fluting tool	.60
38	¾ in	Fluting tool	.60
212	1/8 in	Reeding tool, 2 beads	.40
213	1/8 in	Reeding tool, 3 beads	.60
214	1/8 in	Reeding tool, 4 beads	.80
215	1/8 in	Reeding tool, 5 beads	1.00
222	3/16 in	Reeding tool, 2 beads	.40
223	3/16 in	Reeding tool, 3 beads	.60
224	3/16 in	Reeding tool, 4 beads	.80
225	3/16 in	Reeding tool, 5 beads	1.00
232	¼ in	Reeding tool, 2 beads	.40
233	¼ in	Reeding tool, 3 beads	.60
234	¼ in	Reeding tool, 4 beads	.80
235	¼ in	Reeding tool, 5 beads	1.00

SPECIAL BOTTOMS FOR "FORTY-FIVE" PLANE

In order to work hollows and rounds, or a nosing cutter in the No. 45 plane, it is necessary to substitute, for the sliding section, specially formed bottoms, which are called by the same name as the cutters they are designed to carry; that is: Hollows, rounds or nosing tools.

A hollow and its cutters will form a round on the moulding being worked. A round and its cutters will form a hollow. A nosing tool and its cutters will form what might be called an exaggerated round. It is very largely used for shaping the edges of stair treads. Hollows and rounds are made in four sizes and are usually sold in sets, a set comprising one hollow, one round and two cutters. The price of a nosing tool includes one cutter.

No. 6. Hollow and round, ½ in. cutters, work ¾ in. circle ..... per pair, **$2.80**

No. 8. Hollow and round, ⅝ in. cutters, work 1 in. circle ..... per pair, **2.80**

No. 10. Hollow and round, ¾ in. cutters, work 1¼ in. circle ..... per pair, **3.00**

No. 12. Hollow and round, 1 in. cutters, work 1½ in circle ..... per pair, **3.00**

No. 5. Nosing tool, 1¼ in. cutters, work 1¼ in. circle ..... each, **2.00**

STANLEY IRON PLANES

SKEW CUTTER COMBINATION

For plow, dado, fillister, matching and rabbet work; nickel plated, iron stock, rosewood handle and fence.

Skew cutters are the feature of this plane. It consists of a main stock carrying a spur, a depth gauge and a slitting cutter, a sliding section carrying a spur and forming an extra sole for the plane, and a fence (rosewood face) which can be set for either plow or fillister work.

No. 46. With rosewood fence and 12 cutters, one each plow and dado bits ⅛, ¼, ⅜, ⅜, ½, ⅝, ¾, ⅞ and 1¼ in.; fillister, 1⅜ in.; tonguing, ¼ in, and slitting cutter; length 10½ in., weight 5¾ lb.....each, **$23.50**

No. 47. Without rosewood fence; 7 cutters, one each dado, ⅜, ½, ⅝, ¾, ⅞ and 1¼, and slitting cutter; length 10½ in., weight 3¾ lb.....each, **18.50**

One in a box

CARRIAGE MAKERS' RABBET PLANES

Bottom of best gray iron, japanned inside, polished bottom and sides, English steel cutters; tempered, ground and polished; rosewood handle and knob

These planes are for the heavy framing required in mining work, for carriage or wagon building or any work of similar nature.

No. 18½. Adjustable, with smooth bottom; 2⅜ in. cutter; length 9 in., weight 3 lb.....each, **$12.70**

One in a box

No. 98

No. 99

SIDE RABBET PLANES

Nickel plated iron stock, rosewood knob

A reversible nose piece gives the tool a form whereby it will work up into corners when required.

No. 98. Right hand, length 4 in., cutter ½ in., weight ½ lb.....each, **$4.70**

No. 99. Left hand length 4 in., cutter ½ in., weight ½ lb.....each, **4.70**

One in a box

WOODWORKERS' ROUTER PLANES

Nickel plated iron stock, beech knobs, with open throat; for surfacing the bottom of grooves parallel with the other work

No. 71. Open throat, with ¼ and ½ in. steel bits; with throat attachment; length 7½ in., weight 2⅝ lb.....each, **$9.70**

One in a box

STANLEY IRON PLANES

BELT MAKERS' PLANES

Japanned iron stock, polished bottom, steel cutter, hardwood handle; adapted for chamfering down the ends or laps of belts; has adjustable throat.

No. 11. Length 5¾ in., cutter 2⅜ in., weight 3½ lb.....each, **$10.20**

One in a box

SCRAPER PLANES

Japanned iron stock, polished bottom and sides, steel cutter, rosewood handle; blade is adjustable endwise and for angle; can be locked in position desired.

No. 12. With 3 in. steel cutter, length 6¼ in., weight 3¾ lb.....each, **$10.70**

One in a box

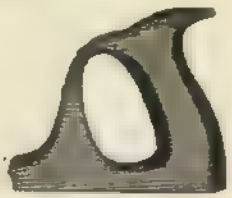
Japanned iron stock, polished bottom and sides, steel cutter, rosewood handle and knob; blade is adjustable endwise and for angle; can be locked in position.

No. D12. With 3 in. adjustable blade; length 9 in., weight 4 lb.....each, **$10.20**

One in a box

PLANE HANDLES

No. 10



No. 12

Beechwood, for common bench planes

No. 10. For jack planes, weight per dozen 2½ lb.....per dozen, **$1.00**

No. 12. For fore or jointer planes; weight per dozen 3½ lb.....per dozen, **1.50**

One dozen in a box

PLANE IRONS

Highest quality English steel; tempered, ground and honed; polished for bed rock and Bailey iron and wood planes.

Inches	For Plane	Single Each	Double Each	Weight Per Doz. Lbs Single	Weight Per Doz. Lbs Double
1¼	No. 1	$0.45	$0.80	2	3½
1⅝	Nos. 2, 2C, 602, 602C	.50	.85	2¼	4
1¾	Nos. 3, 3C, 20, 20C, 21, 22, 23, 25, 113, 603, 603C	.55	.90	2¾	5½
2	Nos. 4, 4C, 5, 5C, 9, 24, 26, 35, 604, 604C, 605, 605C	.60	.95	3	5¾
2⅛	No. 27	.65	1.00	3½	6½
2¼	Nos. 5½, 5½C, 27½, 605½, 605½C	.70	1.10	3¾	7
2⅜	Nos. 4½, 4½C, 6, 6C, 7, 7C, 11, 28, 29, 30, 31, 36, 604½, 604½C, 606, 606C, 607, 607C	.75	1.20	4	7½
2⅝	Nos. 8, 8C, 32, 34, 37, 608, 608C	.80	1.30	5¼	8

TACK HAMMERS

No. 10 C-V-B—5 oz., horseshoe pattern, magnetic, with claw, highest quality forged crucible tool steel, adze eye, polished, with select white hickory handles, head 4¾ in. long, length over all 11 in., w't per doz. 6¾ lbs. .....per dozen $16.00

HALF DOZEN IN A BOX
WE DO NOT BREAK BOXES

No. 310—Hibbard, 5 oz., horseshoe pattern, magnetic, with claw, extra uality forged crucible steel, adze eye, smooth charcoal black finish, with walnut stained hickory handles 4¾ in. head length over all 11 in., w't per doz. 6¾ lbs., per dozen $12.00

Horseshoe pattern, magnetic, without claw, highest quality forged crucible steel, polished, with select white hickory handles.

No. 33 C-V-B—5 oz., head, 4 in. long, length over all 11 in., w't per doz. 6¾ lbs. .....per dozen $16.00

No. 38 C-V-B—8 oz., head, 4½ in. long, length over all 11 in, w't per doz. 9¾ lbs. .....per dozen $18.00

HALF DOZEN IN A BOX
WE DO NOT BREAK BOXES

Horseshoe pattern magnetic without claw, extra quality forged crucible steel, smooth charcoal black finish, with walnut stained hickory handle.

No. 333—Hibbard, 5 oz., head, 4 in. long, length over all 11 in., w't per doz. 6¾ lbs. .....per dozen $12.00

HALF DOZEN IN A BOX
WE DO NOT BREAK BOXES

No. 32 C-V-B—5 oz. non-magnetic, with claw, highest quality forged crucible steel, adze eye, polished, with selected white hickory handle, 4¾ in., head, length over all 11 in., w't per doz. 6¾ lbs. per dozen $12.00

No. 332 C-V-B—5 oz. non-magnetic, with claw, extra quality forged crucible tool steel, adze eye, smooth charcoal black finish, with walnut stained hickory handle. 4¾ in. head, length over all 11 in., w't per doz. 6¾ lbs. .....per dozen $10.00

HALF DOZEN IN A BOX

TACK HAMMERS

No. 190—Il-a-noy, 5 oz., horseshoe pattern, magnetic, with claw, converted cast steel head, polished, hickory handle, head 4¾ in. long, length over all 11 in., w't per doz. 6 lbs. .....per dozen $7.50

HALF DOZEN IN A BOX
WE DO NOT BREAK BOXES

No. 192—Il-a-noy, 5 oz. plain pattern, non-magnetic, with claw, converted cast steel head, polished, hickory handles, head 4¾ in. long, length over all 11 in., wt per doz. 6 lbs. .....per dozen $6.00

No. 195—Il-a-noy, 5 oz., horseshoe pattern, magnetic, without claw, converted cast steel head, polished hickory handle, head 4¾ in. long, length over all 11 in., w't per doz. 6 lbs. .....per dozen $7.50

HALF DOZEN IN A BOX
WE DO NOT BREAK BOXES

No. 2—Stanley, magnetic, cast iron head, tinned, ash handle, with steel claw on end, head 4 in. long, length over all 11¾ in., w't per doz. 3¾ lbs., per dozen $3.20

ONE DOZEN IN A BOX
WE DO NOT BREAK BOXES

No. 57—Cast iron, 7 oz., nickel plated head, unpolished, plain hardwood handle, head 5¼ in. long, length over all 10¾ in., w't per doz. 5 lbs., per dozen $1.60

ONE DOZEN IN A BOX
WE DO NOT BREAK BOXES

No. 25—Standard, cast iron head, polished, hardwood handle with claw on end, head 3¾ in. long, length over all 11¾ in., w't per doz. 3¾ lbs., per dozen $2.00

ONE DOZEN IN A BOX
WE DO NOT BREAK BOXES

UPHOLSTERERS' HAMMERS

OSBORNE, French Pattern. The finest made, for expert upholsterers who want **the best.** Solid forged steel one-piece handle and head, full polished and well tempered, with oval handle grip, overlaid with genuine rosewood, riveted on. Length overall, 10¾ in.

Nos.	61–3	61–4	61–5
Size	3	4	5
Diam. of face, in.	7/16	½	⅝
Length of head, in.	6¼	6¾	7
W't, each, oz.	15	15½	16
W't per doz., lbs.	12	13	14
Per dozen	$48.00	48.00	48.00

BILL POSTERS HAMMER HEADS

Horseshoe pattern, highest quality forged crucible steel, strongly magnatized, full polished.

No. 500 C-V-B—5 oz., without handle, w't per doz. 4¾ lbs., per dozen $15.00

No. 800 C-V-B—8 oz., without handle, w't per doz. 6¾ lbs., per dozen $12.00

HALF DOZEN IN A BOX

EXTRAS FOR BILL POSTERS HAMMERS

No. 36BJ—Handles, 36 in., jointed, 2 sections, ribbed grip white ash, with polished brass screw socket, per dozen $24.00

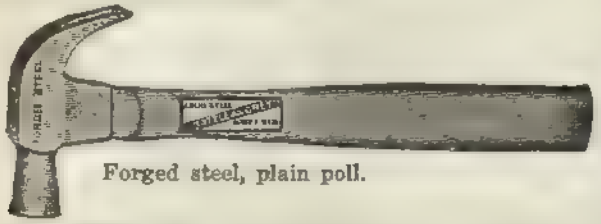
No. 10B—Card Holding Attachments, nickel plated spring steel, with rubber adjusting ring to put on handles for holding card to set first tack ....per dozen sets $2.40

LOOSE

HANDLED HAMMERS

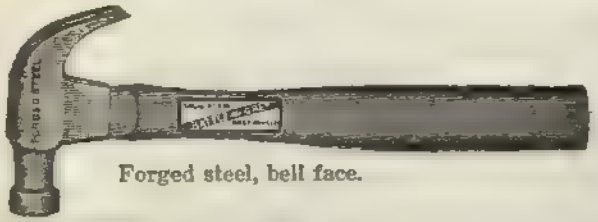
BATTLE GREY NAIL

The Cheapest Good Forged Steel Hamer on the Market. Suitable for all Ordinary Service About the House or Farm. **New galvanized rust proof finish.** Good sound straight-grained handles.



Forged steel, plain poll.

No. 21½—Battle grey, w't less handle, 16 oz., length over all, 13 in., w't per doz. 18 lbs. .....per dozen **$10.00**
ONE DOZEN IN A BOX. WE DO NOT BREAK BOXES



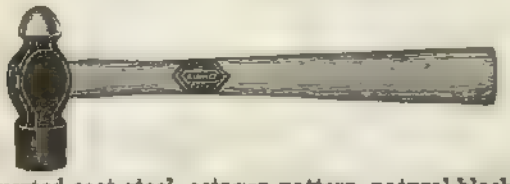
Forged steel, bell face.

No. 31½—Battle grey, w't less handle, 16 oz., length over all, 13 in., w't per doz. 18 lbs. .....per dozen **$10.00**
HALF DOZEN IN A BOX. WE DO NOT BREAK BOXES

Converted cast steel, bell face, natural black steel finish, except polished poll and top of claws, good hickory handle, not warranted.

No. 71½—W't less handle 16 oz., length over all, 13 in. w't per doz. 18 lbs. .....per dozen **$7.00**
ONE DOZEN IN A BOX. WE DO NOT BREAK BOXES

CALUMET BALL PEIN



Converted cast steel, octagon pattern, natural black steel finish, except polished ball and face, hickory handle. Not warranted.

Nos.	**803B**	**802B**	**801B**	**81B**
Size	000	00	0	1
W't less handle, ozs.	8	12	16	20
W't per doz., lbs.	10	13	16	21
Per dozen	**$4.00**	**4.00**	**4.50**	**5.00**

HALF DOZEN IN A BOX. WE DO NOT BREAK BOXES

CAST STEEL NAIL

IL-A-NOY

Converted cast steel, bell face, polished finish, except black neck, good hickory handle, not warranted.

No. 61½—W't less handle 16 oz., length over all, 13 in. w't per doz. 18 lbs. .....per dozen **$8.00**
HALF DOZEN IN A BOX. WE DO NOT BREAK BOXES

CAST IRON NAIL

Adze eye, octagon poll, nickel plated and buffed, hardwood finished handles.

No. 122—W't less handle 16 oz., w't per doz. 12 lbs., per dozen **$4.00**
HALF DOZEN IN A BOX. WE DO NOT BREAK BOXES

Adze eye, nickel plated and buffed hardwood finished handles.

Nos.	**110**	**122½**	**600**
W't, less handle, oz.	12	16	6
W't per doz., lbs	9	12	4½
Per dozen	**$3.00**	**3 60**	**2.00**

HALF DOZEN IN A BOX. WE DO NOT BREAK BOXES

SHOE

Cast iron, japanned, hardwood handle.

No. 91—Japanned Face, weight, each, 13 oz., length of handle, 9 in., w't per doz. 10 lbs. .....per dozen **$1.60**

No. 15—Polished Face, weight, each 15 oz., length of handle, 9 in., w't per doz. 12 lbs. .....per dozen **$2.40**
ONE DOZEN IN A BOX. WE DO NOT BREAK BOXES

CLIPPING MACHINES & KNIFE GRINDERS

STEWART'S HORSE CLIPPING MACHINES

Enclosed Gear—Ball Bearing

Gearing is enclosed in a dust-proof case and runs in oil. Has a solid tripod base, a strong upright, gears cut from solid steel made file hard; six feet of new style, light, easy running flexible shaft and Stewart's latest model cutting head.

NO.	Wt. Each	EACH
1	30 lb.	$16 00

Chicago

Hardened tool steel wearing parts; gears cut from solid steel; power is direct and positive. Mounted on a solid iron tripod. Has 6½ feet highest grade flexible shaft and Stewart's latest model cutting head.

NO.	Wt. Each	EACH
1902	70 lb	$21.00

1921

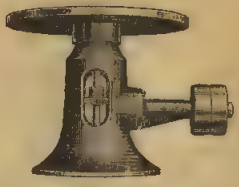
Hanging type motor suspended in trunnion yoke; has 7½ ft. flexible shaft, directly connected to armature shaft of motor. Will not operate sheep shear nor grooming head

1922

Pedestal type similar to No. 1921 except mounted on pedestal and will operate sheep shear but not grooming brush

NO.	Wt. Each	EACH
1921	65 lb.	$90.00
1922	100 lb.	100 00

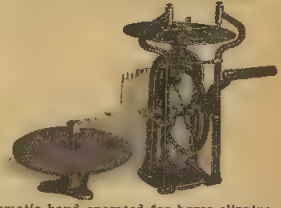
PRIEST'S SPECIAL POWER GRINDERS



A large power grinder for dealers, grinders and horse clipping establishments where they have a great many knives and where custom grinding is done.

NO.	Wt. Each	EACH
002	200 lb.	$60.00

AUTOMATIC HAND GRINDERS



Automatic hand operated for horse clipping or sheep shearing knives. Grinding disc is covered with emery cloth which can be renewed at small expense, making this grinder practically everlasting. Complete with emery cloth, liquid cement, clamp block and clamp rod. Diameter of disc, 14½ inches; height, two feet.

NO.	Wt. Each	EACH
2332	110 lb.	$35.00

Automatic hand power grinders for horse clipping machine knives only.

No. 1331

No. 1118

NO.	Wt. Each	EACH
1331	60 lb.	$19.75

ATTACHABLE HAND GRINDER

Hand knife grinder for attaching to Stewart's No. 1 horse clipping or No. 8 sheep shearing machines. Grinds all knives equal to new.

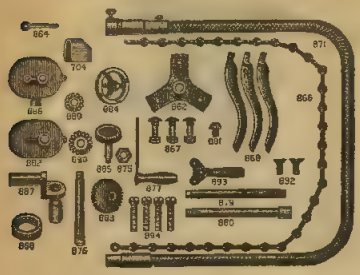
NO.	Wt. Each	EACH
1118	9 lb.	$6.50

GRINDER PASTE

NO.	Wt. Pkg.	PACKAGE
IGP	1 lb.	$0.45

STEWART'S CLIPPING MACHINE PARTS

STEWART HORSE CLIPPER PARTS



NO.	Name of Part	EACH
886	—Gear Case	$1.50
882	—Gear Case Cover	1 00
862	—Leg Bracket	.60
884	—Balance Wheel and Spindle	1.50
866	—Chain	2.10
865	—Chain Links	.10
867	—Bracket Studs and Nuts	.05
887	—Gear Case Casting	1 75
871	—Case without Chain	3.40
883	—Gear and Pinion	2 40
892	—Gear Case Cover Handle	.35
888	—Balls and Ball Cup	1.00
889	—Small Cog	.40
890	—Large Cog	.60
885	—Drive Gear and Spindle	2.00

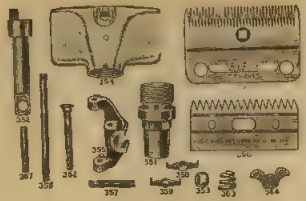
Parts not listed can be furnished from factory

LATEST MODEL CUTTING HEAD

For Stewart Horse Clippers

NO.		EACH
800	—Head, complete	$4.00

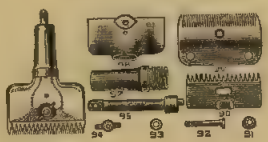
CUTTING HEAD PARTS



For Stewart's Latest Model Cutting Heads

NO.	Name of Part	EACH
351	—Taper Sleeve	$0.45
352	—Drive Pin	.40
353	—Drive Ball	.10
354	—Brace	.55
355	—Cross Head	.55
356	—Cross Head Pin	.10
357	—Guide Pins	.05
358	—Ball Boss	.05
359	—Socket Boss	.05
360	—Top Plate	1.15
361	—Bottom Plate	1.70
362	—Tension Bolt	.05
363	—Tension Spring	05
364	—Tension Nut	.05

OLD STYLE SINGLE TENSION CUTTING HEAD



For Stewart Horse Clippers

NO.	Name of Part	EACH
C1	—Patent Handle and Knife, complete	$4 00
C2	—Patent Knife, without Handle	2.85
C3	—Patent Handle only	1.15

OLD STYLE CUTTING HEAD PARTS

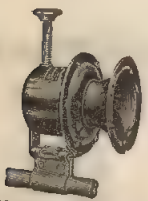
NO.	Name of Part	EACH
99	—Bottom Plate	$1 70
90	—Top Plate	1.15
93	—Eccentric Roll of Handle	.10
92	—Tension Bolt of Handle	05
91	—Tension Spring of Handle	.05
94	—Tension Nut	.05
95	—Pin and Shaft	.40
97	—Shank of Handle	.45
98	—Front Part of Handle	.55

STEWART HAND-OPERATED WARNING SIGNALS

One push of plunger creates 192 distinct sound impulses—more than any other signal. This, together with its exclusive, large-sized vibratone steel diaphragm, accounts for the Stewart's wonderfully effective warning. No matter how installed, signal can always be pointed straight ahead.

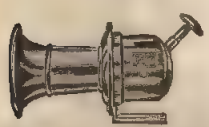
No. T6034—114—Double-supporting adjustable bracket and is self-lubricating. Finished in black enamel, w't each 5 lbs. .....each $6.68

ONE IN A BOX



No. T6038—115—Finished in black enamel with nickel plated bell, complete with brackets, w't each 4 lbs. .....each $6.68

ONE IN A BOX



This model is efficient in results. The push rod is set at a forty-five-degree angle, making possible a simplification of interior mechanism. One stroke of the plunger creates 84 sound impulses. It has a vibratone steel diaphragm.

No. T6036—151B—Black enamel finish, complete with bracket, w't each 3¼ lbs. .....each $4.68

ONE IN A CASE

STEWART MOTOR-DRIVEN WARNING SIGNALS

A slight pressure on the large push button sends out a flood of commanding sound waves.

It is economical in current consumption. Brushes are large, rear bearing provided with ball thrust, shaft can never get out alignment, felt-packed oil well gives perfect lubrication.

Has one-piece, seamless projector and back-cover. No solder, parts are riveted and bolted. Finished in hard-baked black enamel. Variety of brackets to fit any car. Outfit includes bracket, push button, terminals and five feet of double-strand electric cord, w't each 7 lbs.

No. F6039—136E—**For Underhood installation★** .....each $11.34

No. F6040—136C—**For Outside installation★** .....each $11.34

ONE IN A BOX

Specify Make, Year and Model of Car When Ordering.

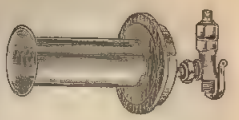
Motor is Stewart-built and embodies a new, improved design of magnetic circuit. Armature is large, gives greater power with less current, diaphragm is made of high grade tempered steel.

This new model is slightly smaller than the DeLuxe Stewart Motor-Driven Signal, No. T Model 136, being two and one-half in. shorter in length and having a diaphragm half a inch less in diameter.

No. F6041—163D—For Underhood installation, complete with bracket, push button, terminals and five feet of electric cord, w't each 3 lbs., each★ $8.50

ONE IN A BOX

BUELL TURBO HORNS



FOR ALL PASSENGER CARS AND MOTOR TRUCKS

The Buell Turbo Horn is made of aluminum and is a distinctive new type of warning signal utilizing the explosion pressure through priming-cup opening in cylinder head, using the same valve mechanism as the Buell Explosion Whistles.

The high pressure gas of the explosion is used to operate a small turbine which carries a cam engaging a diaphragm, as used in the motor-driven electric horn, the Buell Turbo Horn takes its mechanical power direct from the explosion of the cylinder instead of the devious circuit through engine, generator, battery and electric motor, each with its considerable loss of efficiency in transmission of power.

There is but one moving part in the Buell Horn, making it a signal with the maximum certainty of operation.

Comes complete with valves, steering wheel lever and enclosed wire control, 4½×7 in. over all.

(Less Spark Plug) When Spark Plug is wanted order our No. 6072-½ in.

No. 6073—½ in. pipe thread, w't each 2 lbs.....each $11.70

ONE IN A CARTON

Stewart No. 1 Ball Bearing Clipping Machine

Retail Price Reduced to **$12.00**

You Can Always Sell STEWART Clipping Machines

Needed right now and throughout the year for clipping cows — and for spring clipping of horses and mules. The dealer with a stock gets the business.

Put the Machines to Work For You

Take 'em out of the boxes—set 'em up in your window or on your floor. They are convincing salesmen that work for you continually.

Our advertising in the farm and dairy papers your customers read will bring them to your store. Many sales for Stewart Machines in your community — you can make them.

Stewart Electric Clipping Machine Hanging Type—All standard voltages Retail at **$80.00**

Ask Us For Advertising Helps

Forceful window cutouts and other display material—movie slides—cuts for ads and circulars—envelope folders.

Some one will get that business that's all around you—why not you?

Your jobber sells Stewart Machines
Send your order to him today

Stewart Electric Clipping Machine Pedestal Type - All standard voltages Retail at **$85.00**

CHICAGO FLEXIBLE SHAFT CO.
5614 Roosevelt Road, Chicago
32 Years Making Quality Products

Say you saw it in GOOD HARDWARE

FLORENCE
OIL COOK STOVES

National Demonstration Week
Make it your biggest of the year

THOUSANDS of dealers all over the country will have actual cooking demonstrations in their stores during Florence National Demonstration Week, from April 17 to 22. They will use the Florence Oil Cook Stove and the Florence Oven.

Are you going to take part in this National Demonstration Week? Those in your locality will expect you to participate.

Increased sales during the entire year will result from your demonstration We are ready to co-operate fully with you by sending announcement cards for your customers, dealer selling helps, newspaper electrotypes, lantern slides and other advertising material.

If you have not joined the Florence Family, ask for a registration blank at once. It is not too late.

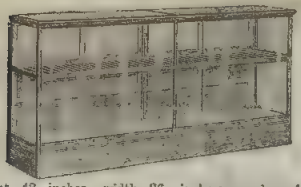
Get women into your store, and the Florence Oil Cook Stove and the Florence Oven will do the rest. Besides, they will act as selling agents for your other merchandise.

Write or Telegraph to
CENTRAL OIL & GAS STOVE CO.
363 School St., Gardner, Mass.

More Heat
Less Care

SHOW CASES

CIGAR CASES



Height 42 inches, width 26 inches; made of oak, golden oak finish, rubbed and polished. Shelves are oak finish. Bottom is veneered oak. Equipped with slatted deck and mastering pan. Top doors run on ball-bearing sheaves and are faced with mirrors; panel doors in lower deck. Double strength A glass front and ends. Glass in top 22 inches wide.

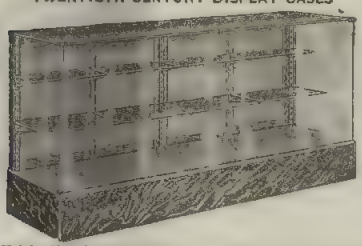
Prices on application.

With Bevel Plate Glass Top.

Nos.	200P-4	200P-6
Length, feet	4	6
No. lights, top	1	2
No. lights, front	2	4
Approx. shipping weight, lbs	220	330
Each	✤	✤

Shipped knocked down in a wood box.

TWENTIETH CENTURY DISPLAY CASES



Height 42 inches, width 26 inches. This case does not show any wood work on the top, front or ends, except the rear posts.

Wood work made of quartered oak, finished in any shade. The bottom is made of three-ply material and finished same as wood work in the bac..

The doors have composition board back and are faced with the best quality of nickel plate mirrors; supported on ball-bearing sheaves running on steel track and supplied with bevel dust strips in center. At each end they shut into rebate pockets. They are fitted with patented arrangement allowing them to be instantly lifted out for cleaning inside of case.

Cases supplied with 10 and 14 inch plate glass shelves supported on nickel plated adjustable brackets. Sizes 6 and 8 foot cases have shelves made in two lengths so they can be easily handled.

The top, front and ends, made of best grade American plate glass with all exposed edges ground and polished. Glass held together by neat nickel silver corners.

Creole Georgia Marble Base.

Nos.	1904-4	1904-6	1904-8	1904-10
Length, feet	4	6	8	10
Approx. shp'ng wt. lbs	400	600	800	1000
Each	✤$480 00	✤595 50	✤745 50	✤906 00

Shipped either knocked down or set up, boxed, unless otherwise ordered will be shipped set up.

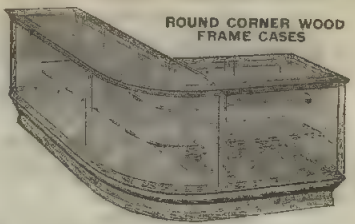
Above are outside measurements.

✤No. 200P—F. O. B. Georgia Factory Only.

✤Nos. 1904-4 to 1904-10—F. O. B. Missouri Factory Only.

SHOW CASES

ROUND CORNER WOOD FRAME CASES



Floor cases with round corners can be furnished to match any wood floor case shown in this catalog, with straight or receding base, with frame glass, shelves, doors, etc.; similar to any floor case illustrated. Round corners are used only in connection with cases with plate glass tops as below.

To arrive at the cost of this case, take the price of the case you desire and add for each round corner. Cases are always measured on the outside from ends to imaginary square corner.

Prices on application. Each

No. 16—Round corners only, each corner extra . . ✤----

Shipped set up; approximate weight 60 lbs. to running foot.

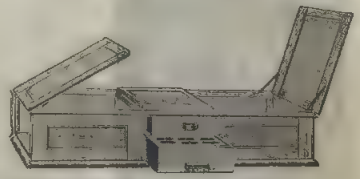
COMBINATION CIGAR CASES

Made of selected oak, dark, natural finish; automatic locking money drawer, susceptible of 88 changes. The case is locked when the money drawer is closed. Holds about 2000 cigars; pipes and other small articles can be put in drawer. Double strength A glass front, top and sides.

Each

No. 33A—Height 12 inches; width 23 inches; length 53 inches, approximate shipping weight 100 pounds.. ✤60 00

Shipped set up; boxed.



Made of selected oak, natural dark finish; automatic locking drawer, susceptible of 33 changes. Has top lift allowing customer to select his own purchase. Silver-toned cathedral gong. Case is locked when the money drawer is closed. Holds about 2000 cigars, pipes and other small articles can be displayed in drawer. Double strength A glass top, front and sides.

Each

No. 77—Height 12 inches, width 23 inches; length 53 inches; shipping weight 100 pounds ---------- ✤----

Shipped set up; boxed.

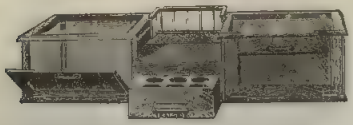
Above are outside measurements.

✤No. 16—F. O. B. Missouri Factory Only.

✤Nos. 33A and 77—F. O. B. Ohio Factory Only.

D 4

COMBINATION CIGAR CASES



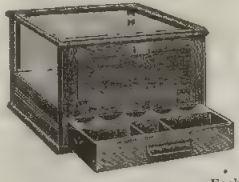
Made of selected oak, natural dark finish. Has two compartments, desk, book drawer, and automatically locking money drawer; susceptible of 33 changes. Silver-toned cathedral gong. Case is locked when money drawer is closed. Double strength A glass top, front and sides.

Prices on application.

Each

No. 78—Height 12 inches; width 23 inches; length 53 inches; shipping weight 100 pounds..... ✣

Shipped set up; boxed.



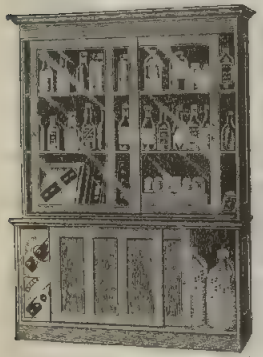
Made of selected oak, dark natural finish; self-locking money drawer with combination of 33 changes. Hinged door is locked when the money drawer is closed; cathedral gong; double strength A glass

Each

No. A20—Height 18 inches, 21 inches wide and 21 inches long; shipping weight 40 pounds..... ✣$36 75

Shipped set up; boxed.

WALL CASES



ECLIPSE

Made of oak, golden oak finish; for tobacco, and general merchandise. 7 feet 3 inches high, 14 inches deep at top and 20½ inches deep at bottom; base 32 inches high. Two glass slide doors in upper section and two panel slide doors in lower section. Doors slide on wood track and can easily be taken out for cleaning inside without disturbing display; two stationary wood shelves in upper part. Can also be used for hardware.

Nos.	316-5	316-6	316-8
Length, feet	5	6	8
Shipping weight, lbs	340	410	545
Each	✣$226 80	✣$245 25	✣$324 75

Shipped set up.

Above are outside measurements.

✣Cigar Cases—F. O. B. Ohio Factory Only.

✣Wall Cases—F. O. B. Missouri Factory, Only.

SIDE WALK CASES

Made of oak, medium golden oak finish. Glazed with double strength glass in front and sides. Zinc top and clear glass hinged door at back with lock and key. Fitted with two rabbed glass shelves and with handles and casters.

Height of base 18 ins.; height of glass case 54 ins.; height over all 72 ins.

Nos.	ARM	BRM	CRM
Width, ins	18	22	26
Depth, ins	18	22	26
Apprx. ship'g. wt., lbs	165	200	260
Each	✣$142 50	✣$147 75	✣$174 75

Shipped set up in a wood box.

UMBRELLA AND CANE CASES

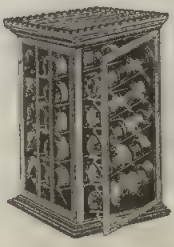
Made of oak, golden oak finish; top lid lifts and has stays to hold it in position when open; double strength A glass.

Each

No. 063-C—66 piece; height 46 in.; width 29 in.; depth 16 in.; approx. shipping wt. 125 lbs..... ✣$122 40

Shipped knocked down.

RIBBON CASES



Made of oak, golden oak finish. With doors on both sides for convenience in taking out stock.

Each

No. 1—Height 39 inches; 25 inches square at base; one door on both sides; holds 190 rolls, No. 9 ribbon; weight 120 lbs ✣$133 50

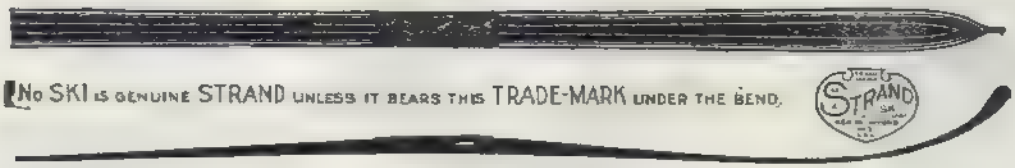
No. 2—Height 44 inches; width 40 inches; depth 26 inches; two doors on both sides; holds 380 rolls of No. 9 ribbon; weight 250 pounds..... ✣197 25

Shipped set up in a wood box.

✣Umbrella and Cane Cases—F. O. B. Georgia Factory Only.

✣Sidewalk and Ribbon Cases—F. O. B. Missouri Factory Only.

SKIS



NORWAY PINE

These Skis are made of the best quality selected stock, Norway and Yellow Pine, finished in natural wood with several coats of waterproof varnish and have fancy stripes. They are supplied with leather toe strap and rubber foot rests and are made in both boys' and men's sizes.

BOYS' AND GIRLS'

No. T4P—4 feet long .....per pair **$1.70**
No. T5P—5 feet long .....per pair **2.60**
No. T6P—6 feet long .....per pair **3.60**

LADIES' AND MEN'S

No. T7P—7 feet long .....per pair **$4.30**
No. T76P—7½ feet long .....per pair **5.00**
No. T8P—8 feet long .....per pair **5.30**

MAHOGANY FINISHED BIRCH

These are made of the best quality selected Birch, in a beautiful Mahogany finish, with fancy grooved white stripes. Equipped with leather toe strap and corrugated rubber foot rests.

BOYS' AND GIRLS'

No. T4MM—4 feet long .....per pair **$3.00**
No. T5MM—5 feet long .....per pair **4.00**
No. T6MM—6 feet long .....per pair **5.30**

LADIES' AND MEN'S

No. T7MM—7 feet long .....per pair **$6.60**
No. T76MM—7½ feet long .....per pair **7.90**
No. T8MM—8 feet long .....per pair **8.60**

QUARTER-SAWED WHITE ASH—BLACK FINISH

These are made of the very best selected quality edge grain Northern White Ash. Cut out of small tough trees. Finished in black with fancy grooved white stripes. Equipped with leather toe straps and corrugated rubber foot rests.

BOYS' AND GIRLS'

No. T5AB—5 feet long .....per pair **$5.30**
No. T6AB—6 feet long .....per pair **7.90**

LADIES' AND MEN'S

No. T7AB—7 feet long .....per pair **$9.20**
No. T76AB—7½ feet long .....per pair **10.60**
No. T8AB—8 feet long .....per pair **11.20**

LOOSE

SKI BINDINGS

These are made of steel and leather, the steel forming a side iron and the leather being adjustable, to the size of the wearer's foot.

No. 1—Cowhide, 1¼ lbs. .....per pair **$4.80**
No. 2—Leather, 1¼ lbs. .....per pair **3.70**

LOOSE

SKI POLES

No. T10—Men's, hardwood with rigid washer, 4 ft. 8 in. long, w't each 11 oz. .....each **$1.50**

No. T11—Men's, bamboo pole with flexible washer, 4 ft. 6 in. long, w't each 6½ oz. .....each **$1.80**

No. T12—Boy's, hardwood, with rigid washer, 4 ft. long, w't each ½ lb. .....each **$0.80**

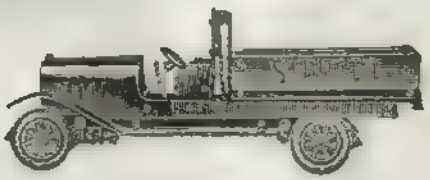
LOOSE

SHIPPING FACILITIES

With our immense stock and very modern facilities for shipments we are enabled to fill orders with unequaled promptness. On some of the roads we have special through cars which enable us to reach distant points 24 hours ahead of shipments made in the regular way.

STRUCTO TOYS

GIANT DUMP TRUCK



Length—18½ in. over all.

Wheel Base—12½ in.

Tread—5½ in.

Engine—Triple unit motor, slow speed. Carries full load, runs smooth and steady. Has sliding gear transmission, forward and reverse speeds, special load dumping attachment.

Finish—Red and black.

No. 14—W't each 8½ lbs. .....each **$16.00**

ONE IN A BOX

STRUCTO BUILT-UP TOYS

ROADSTER

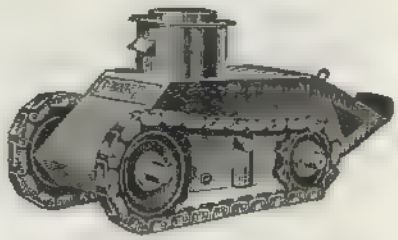
Has the long, low, racy, lines of the latest roadster.

10½ in. long, 8½ in. wheel base, 3½ in. tread. Equipped with artillery type wheels, white tire effect, red spokes, single unit Structo mechanical motor, powerful spring, with machine cut gears and substantial bearings. Auto travels long distance (built of steel solidly constructed) and may be guided in any direction with knuckle steering device.

No. 40—Finished in enamel of brilliant colors, red, trimmed with gold and black, w't each 2½ lbs., each **$4.70**

ONE IN A BOX

WHIPPET TANK



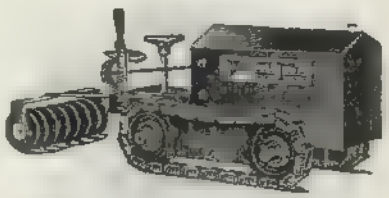
Designed like the famous Whippet Tank.

10½ in. long, 3½ in. wide, equipped with powerful slow speed motor, which drives the mechanical caterpillar smoothly over rugs, carpets or rough surfaces. Caterpillar traction has 2 in. sprocket in front and 1 in. sprocket in rear.

No. 48—Finished in French gray, trimmed with red and gold, w't each 3 lbs. .....each **$6.70**

ONE IN A BOX

CATERPILLAR TRACTOR



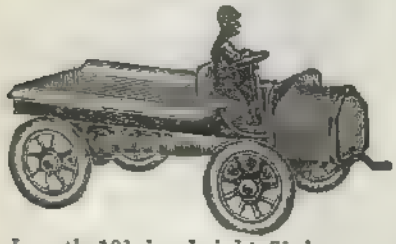
Actually runs on caterpillar.

11½ in. long, 3½ in. tread, equipped with powerful Structo Motor, having controls speed of travel. Equipped with mechanical caterpillar, composed of individual links securely fastened together and travels over steel sprockets.

No. 44—Finished in brilliant colored green, trimmed with red and black, w't each 2½ lbs. .....each **$6.70**

ONE IN A BOX

GILMOTOR TRUCK



Length 10½ in., height 3⅜ in.

It is the duplication of regular trucks used by inter-city and transportation companies. It cranks in front like a regular truck. Equipped with wound spring coil drive which propels it at a good speed for a considerable distance. Lithographed in attractive, bright colors.

No. 77P—Each $1.40

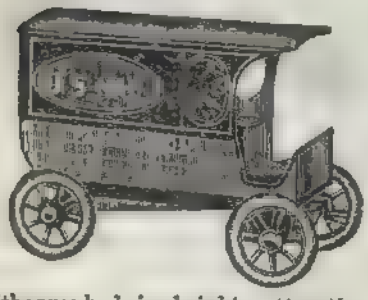
GILMOTOR RACER

Length 9½ in., height 3⅜ in.

This is a duplicate of the sport racing car, cranking in front like the real thing. It is equipped with wound spring coil drive. Lithographed in clear, bright colors with adjustable front axle so that auto can travel in a circle.

No. 76P—Each $1.40

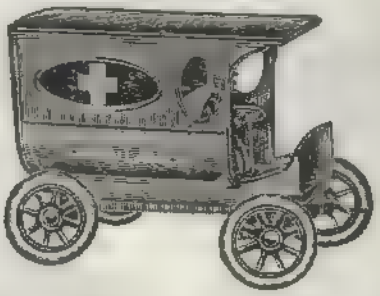
MAIL WAGON



Lithographed in bright, attractive colors, with lithographed driver. Improved and mechanically correct spring wound motor, substantially made of heavy material. Correct in design; realistic appearance, separately packed in lithographed boxes.

No. 78P—Length 9⅜ in., height 5⅜ in., w't 1 lb. .....each $1.40

GILMOTOR RED CROSS AMBULANCE

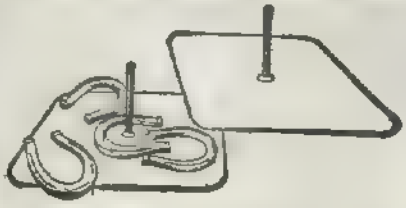


Length 9⅜ inches, height 5⅜ inches.

A real Red Cross Ambulance, lithographed in the realistic white and red. Equipped with wound spring coil drive. Cranks in front like a real auto and will run on the floor for several minutes. The European war has made this a specially popular mode.

No. 74P—Each $1.40

"PITCH EM" HORSE SHOE GAME



Indoor game, play in the parlor or on the lawn.

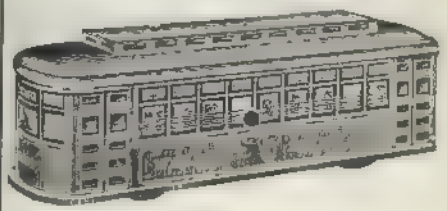
No. 1—Horse shoes of best rubber on flexible steel, four to a set, two metal bright green enameled plates, with nickel plated upright posts, w't per doz. sets 85 lbs., per dozen sets $24.00

ONE SET IN A BOX; ONE DOZEN SETS IN A CASE

H.S.B. & CO. REV-O-NOC

We Stand Behind Our Brand.

TOY AUTOMATIC STREET CARS



REVERSIBLE

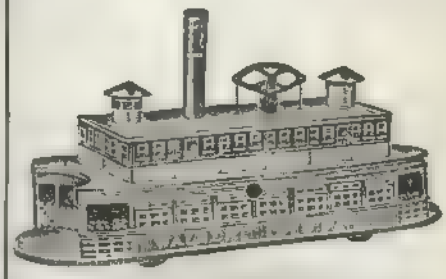
Travels approximately 80 feet, will reverse and travel in opposite direction bell continously powerful spring. Motors of all toys guaranteed against mechanical imperfections.

Painted yellow. Highly decorated. 14 in. long, very substantial, being made of heavy metal.

No. 18—W't per doz. 48 lbs., per dozen $78.00

ONE DOZEN IN A CARTON

TOY AUTOMATIC FERRY BOATS



REVERSIBLE

Will travel over 80 feet, when it strikes an object it will stand for two seconds, rings a bell with a ships ding-dong and reverses, traveling in opposite direction. Rings bell as it travels. Reversing as often as it strikes an object. Walking beam moves up and down while it travels. Powerful spring. Motor guaranteed against mechanical imperfections.

Painted red. Highly decorated. Looks like a real Ferry and acts like a real Ferry. 14 in. long. Very substantially built of heavy metal.

No. 19—W't per doz. 48 lbs., per dozen $78.00

ONE DOZEN IN A CARTON

IMPORTED TOYS

COTTON SHEEP

Wood bodies, covered with white cotton batting paper collar and saddle, stained wood platform.

T4367 — 17x14 in. platform, ht. 6 in. 1 doz. in box. (Gro., $3.80. Doz. 32c

T4368—Platform 25x7 in., ht. 7½ in., sheep with young. 1 doz. in box. (Gro., $3.30). Doz., 32c

SHEEP PENS

T6833—14x12¾ x 9¾ in., red and green painted pen with wood wheels, cotton sheep with tinsel on tree. 1 doz. in box. (Gro., $2.75. Doz. 25c

T3980—Platform 24x6 in., ht. of pen 3 in. stained green and red. 1 doz. in box. (Gro., $3.50) Doz., 32c

T3978—Platform 24½ in., ht. of pen 3 in., stained green and red. 1 doz. in box. (Gro., $7.80). Doz., 65c

TOY SHEEP

Solid wood bodies covered with cotton felt, painted features

T6977—Ht 2 in. 3 doz. in box. (Gro., $3.00). Doz., 27c

T6978—Ht 3½ in., stain color and bell. 3 doz. in box. (Gro. $7.50) Doz. 65c

T6979—Ht 4½ in., stain color and bell. 1 doz. in box. Gro. $10 00 Doz. 85c

HORSES AND CARTS

Painted and varnished wood carts and wheels, dappled horse on platform, unfinished leather harness for mane and tail

T6418 Length 3 in., yellow stained wood cart, solid wheels, dappled horse, 1 doz. in box Gro. $4.25 Doz. 38c

T6448—Length 10½ in., large stained wood cart, solid green wheels, dappled horse, fur mane and tail. 1 doz. in box. (Gro., $10.00) Doz., 85c

T6935—STAR VALUE. Length 17 in., 4 doz. in box Doz., $1.95

T6936—Length 20½ in. ½ doz. in box Doz., $4.15

HORSES ON PLATFORM

Well formed hollow bodies, painted and dappled but with leather harness, white fur mane and tail, wheels on stained and varnished wood platform.

T4691—Platform 13½x8½ in., ht. of horse 5½ in. 1 doz. in box (Gro., $4.20). Doz., 37c

T4692—Platform 20½ in., ht. of horse 8½ in. 1 doz. in box (Gro., $10.00). Doz., 85c

T4693—Platform 30½ in., ht. of horse 10½ in. ½ doz. in box. Doz., $2.15

FELT COVERED HORSES

Hollow composition bodies, perfectly modeled, covered with good quality brown felt in imitation leather harness, white fur mane, long flowing tail.

T6825½—Platform 2 x 1 in., ht. of horse 7 in. 1 doz. in box Doz. $1.05

T6826—Platform 31x8 in., ht. of horse 10 in. 1 doz. in box Doz. $3.00

T6936—Platform 38 x10½ in., ht. of horse 12 in. ½ doz. in box Doz., $4.25

T6934—Platform 24 x12 in., ht. of horse 13½ in. 1/6 doz. in box Doz. $6.60

TOY ELEPHANTS

Moulded hollow composition bodies, perfect in every detail, covered with fine quality felt to imitate the natural color, real bristles, trimmed with white bead, leather collar and headgear trimmed with nickel buttons and gilt bells

T6813 Ht. 4½ in., length 6 in. ¼ doz. in box Doz. $2.25

T6814 Ht. 5½ in., length 7½ in., with yoke Each $1.00

T6820 Ht. 10½ in., length 12 in., with yoke Each $1.50

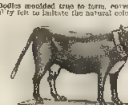
T6821—Ht. 12 in., length 15 in., with yoke Each $2.00

T6822 Ht. 15 in., length 18 in., with yoke Each $2.50

T6823—Ht. 17 in., length 21 in., with yoke Each $3.25

FELT COVERED COWS

Bodies moulded true to form, covered with good quality felt to imitate the natural colors.



T6832—Platform 2 x 1½ in., ht. 2 in. ½ doz. in box Doz. $1.70

T6833—Platform 3½ in., ht. of cow 2 in. ½ doz. in box Doz. $2.28

T6834—Natural Value. Platform 3½x1 in., ht. of cow 2½ in. 1/6 doz. in box Doz. $4.26

T6835—Natural Value. Platform 4½x2¾ in., ht. of cow 3 in. Doz. $6.75

T6836—Natural Value. Platform 5½x3 in., ht. of cow 3½ in. Doz. $9.00

T6837—Platform 4½ x2½ in., ht. of cow 3 in. Doz. $1.90

T6845—Platform 6½ x3½ in., ht. of cow 4½ in. Doz. $3.60

T6846—Platform 8½ x4½ in., ht. of cow 5½ in. Doz. $6.75

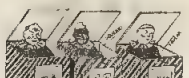
SURPRISE BOXES

Large assortment of colored boxes, strong pine boxes with 6 light lids, covered with fancy paper, concealed figures with bellows body

T6901—Size 8x8x3 in., 1 doz. in box. (Gro., $7.50). Doz., 65c

T6906—Size 9½x5½x4½ in., 1 doz. in box. (Gro., $9.00). Doz., 77c

T6902—Size 8½x8½x8½ in., 1 doz. in box. (Gro., $9.00). Doz., 77c



T6903—Size 6½ in. square. ½ doz. in box Doz., $1.65

FUR GOATS WITH VOICE

Covered with genuine fur, composition heads, glass eyes, wood horns.

T6824—Platform 2 2x6½ in., ht. of goat 4½ in. 1 doz. in box. Doz., $1.95

T6825—Platform 2½x8 in., ht. of goat 5½ in. ½ doz. in box Doz. $2.65

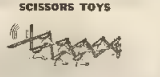
T6826—Platform 3 x9 in., ht. of goat 6½ in. ½ doz. in box Doz. $3.15

T6827—Platform 3½x11 in., ht. of goat 7½ in. 1/6 doz. in box. Doz., $6.75

FUR MONKEYS

T6668—Ht. 4½ in., composition body covered with fur, painted features, jointed limbs, wire jumper. 1 doz. in box. Gro. $3.50 Doz. 30c

SCISSORS TOYS



T6915—Length 22 in., stained wood, with 8 jointed figures, 1 doz. in box. (Gro., $7.50) Doz. 65c

NOVELTY CHICKEN HOUSE

White pine house with hinged door, ship. wood. Chicken with bellows voice. Spring door releases crowing rooster

T6897 STAR VALUE. House 3½x4½ in. 1 doz. in box (Gro., $9.00) Doz. 77c

T6898—House 4½ x 5½ in. 1 doz. in box. Doz. $1.95

T6899—House 4½x6½ x7½ in. ½ doz. in box Doz. $3.50

ASSORTMENT OF BELLOWS TOYS

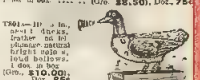
T6678—Ht. 4 in., 6 stock assd., stands on bellows base, painted in bright colors. 1 doz. asst. in box. (Gro., $3.50) Doz., 32c

T6919—Ht. 6 in., 6 assd. birds, painted in right colors. 1 doz. assd. in box (Gro., $4.00 Doz., 35c

T6685—Ht. 5½ in., 6 assd. carved wood birds, painted colors, extra head among colors. 1 doz. assd. in box (Gro., $8.50), Doz. 75c

T6911—STAR VALUE. Ht. 8½ in., 6 assd. size, composition bodies, painted and varnished. 1 doz. in box. (Gro. $8.50), Doz., 75c

T6914—Ht. 9 in., natural chicks, feather on tail, plumage natural bright reds, hold bellows. 1 doz. in box (Gro., $10.00), Doz., 85c



T6912—STAR VALUE. Ht. 8½ in., 6 assd. sizes, painted and varnished, composition bodies, 1 doz. assd. in box.....(Gro., $10.00), Doz. 92c

T6913—Whistling Bird. Ht. 6½ in., stained base, double action bellows, fur and feather plumage in natural colors. 1 doz. in box (Gro. $10.00, Doz. 92c

NOVELTY CUP AND BALL

T6245—Length 10 in., smooth varnish finish, assd. colors, ball attached to string. 1 doz. in box. (Gro., $10.50); Doz. 90c

BASEBALL PLAYER

T7986½—Ht. 10 in., jointed knees, red and blue felt uniform, composition head, painted cap, black eyebrows, white stock, white long voice. 1 doz in box Doz. $1.95

SQUEAKING FIGURES

T6643— Ht. 6¼ in., asstd. comic heads, bellows body. 1 doz. in box
(Cwt. $4.20) Doz. 37c

T6644— Ht. 6 in., whistling boy, composition head painted features, stronger spring bellows body. 1 doz. in box
(Cwt. $8.50) Doz. 75c

ACCORDION FIGURE

T6644— STAR VALUE. Ht. 6½ in., carved wood figure of girl and duck attached to accordion with strong bellows. Makes clear distinct tones when in use.
Doz., $2.15

QUACKING DUCKS

T6645— STAR VALUE. Ht. 6 in., length 7½ in., asstd. colored felt body on 4 metal wheels. Quacks when drawn along by tin in box.
Doz. $2.25

T6646— Ht. 7 in., length 9¼ in. ½ doz. asstd. in box. Big Value
Doz. $3.75

HORSE AND DONKEY

T6625— Ht. 4½ in., length 6 in., felt covered cardboard paper saddle, imitation leather bridle, fur mane. 1 doz. asstd. in box.
(Cwt. $9.00) Doz. 77c

FELT COVERED DOGS

T6628— Ht. 6 in., length 8½ in., covered with white curly felt, glass eyes, plaid collar and wool pompon. ½ doz. in box
T6634— Ht. 8½ in. length 8½ in. ½ doz. in box.
Doz. $4.10

NOVELTY DOG HOUSES

T6641— House 3x2x5½ in., made of white pine, white fur covered dog with voice. 1 doz. in box. Item. $10.00) Doz. 85c
T6642— House 3½x3½x6 in. 1 doz. in box.
$7.95

ASSORTED STUFFED TOYS

1 doz. in box. Well formed bodies, covered with fancy fur printed in natural colors, glass eyes, hair lash, ribbon collar
T6588 Asstd. Cat, Dog and Rabbit. Length 9 in. 1 doz. in box
(Cwt. $10.00) Doz. 85c
T6589— Asstd. as T6588. Length 8 in., ½ doz. in box. Doz. $2.15
T6592— Asstd. as T6590. Length 9½ in., ½ doz. in box. Doz. $4.15

STUFFED ANIMALS

T6631— Cat and Dog, asstd. 5½x7 in., finished covered, striped in natural colors, glass eyes, hair features, with voice. 1 doz. in box.
(Cwt. $8.50) Doz. 75c
T6632— Asstd. as T6631, 8x11½ in. ½ doz. in box.
Doz. $2.10

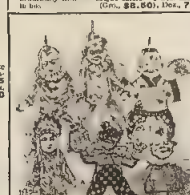
T6642— Ht. 6½ in., length 9 in. perfect model covered with half cloth, painted details, metal glass eyes, imitation collar and chain on four wheels. 1 doz. in box
Doz. $1.65

TOY WHIPS

T7840— Length 30 in., paper wound covered with fancy paper braided cloth whang end. 1 doz.
T7850— Length 40 in., paper and cotton braided cloth whang end. 1 doz.
Doz. $2.00 Doz. 27c
T7851— STAR VALUE. Length 40 in., paper and cotton braided cloth whang end. 1 doz. in bundle
(Cwt. $2.50) Doz. 32c
T7852— Length 40 in., bright tone wood handles, nickel trimmed, genuine leather braided lash, whistle end. 1 doz. in bundle
(Cwt. $7.00) Doz 65c

COMICAL JUMPING JACKS

T6709— Six kinds asstd., ht. 12 in., made of extra heavy cardboard stamp cut and string acted, beautifully lithographed in bright colors. 1 doz. asstd. in box.
(Cwt. $8.50) Doz. 75c



T6706— Six kinds asstd., ht. 16 in. 1 doz. in box
$7.65

HIGH GRADE STUFFED TOYS

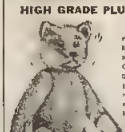
With "Nothing Patented" movable heads, adjustable to any position.

T6857 Ht. 9¾ in., tinted finish, fine quality red felt jacket, black trousers, plaid head, black and felt, tinted felt face and ears, glass eyes, wig voice
Each, $1.25
T6875— Ht. 18½ in., body non-spill covered with good quality thick brown plush, jointed position limbs, tinted felt covered face, head and ears, large glass eyes, with voice
Each, $1.75

POPULAR TEDDY BEARS

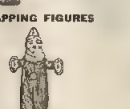
Fine quality soft brown plush covered, jointed head, arms and legs, glass eyes, with voice
T7974 14 in. sitting on box
T7974 16 in. sitting on box
T7975 18 in. sitting on box
T7976— 20 in. sitting on box
T7977 24 in. sitting on box
T7978 30 in. sitting on box
T7979 36 in. sitting on box
T7980 42 in. sitting on box
Doz. $4.25
Doz. 6.50
Doz. 7.20
Doz. 9.00
Doz. 10.80
Doz. 13.80
Doz. 15.00
Doz. 18.00

HIGH GRADE PLUSH BEARS



With "Nothing Patented" movable heads, adjustable to any position. Covered with good quality golden brown plush, jointed limbs, silk covered heads and feet, glass eyes, with features. Each on box
T6860 Ht. 10 in. Doz. $8.25
T6861 Ht. 14 in. Doz. $12.00
T6862— Ht. 18 in. Doz. $18.00
T6863 Ht. 20 in. Each $2.80

CLAPPING FIGURES



T6458— Ht. 7½ in., asstd. composition clown heads, painted and varnished. Stand, pressure moves arms and beats cymbals. 1 doz. in box
(Cwt. $7.00) Doz. 65c

T6490 T6491 T6492

T6490— Ht. 8 in., asstd. colored felt clown figure, varnished face, wool hair and collar. 1 doz. in box
(Cwt. $10 80) Doz. 92c
T6491— Ht. 9½ in., asstd. clown, varnished, colored wool hair, felt hat and collar. 1 doz. in box
Doz. $1 15
T6492— Ht. 11 in., attractive clown, varnished, felt and fur trimmed suit, wig. Stand, pressure action, moves arms and beats cymbals. 1 doz. in box
Doz. $2.25

PLUSH MONKEYS

Shaggy brown plush covered bodies, felt face, glass eyes, tin ear, fancy red flannel suit, string attached. Each on box

T6855— Ht. 6½ in.
(Cwt. $10.00) Doz. 85c
T6855 Ht. 8 in. 1 doz. in box
Doz. $3.25
T6856— Ht. 10 in.
Doz. $8.25
T6858— Ht. 14 in. fur covered, fancy felt suit and hat
Doz. $6.50

NOVELTY SQUEAKERS

T6487H
T6488H
T6489H

T6487H— Asstd. 3x3½ in., felt covered bodies, celluloid face, painted features, embossed hair, dress trimmed with chiffon. Colored cord hanger. 1 doz. in box
(Cwt. $9.00) Doz. 77c
T6488H— Asstd. 4 in., bellows type, celluloid face, dressed in mixed colored flannel. 1 doz. in box
(Cwt. $9.50) Doz. 82c
T6489H— Ht. 5½ in., spring bellows, fine quality celluloid with lace and silver braid, enameled hair, painted features. 1 doz. in box
(Cwt. $9.50) Doz. 82c

ASSORTMENT SQUEAKING HEADS

T6479— Dime 2 in., strong bellows, rubber, durable comic heads painted and varnished. 1 doz. in box
(Cwt. $5.25) Doz. 70c

COMICAL JUMPING JACKS

T6497 Length 9½ in. Stained wood frame. Assorted patterns upon pressure of finger. 1 doz. in box
Cwt. $2.00 Doz. 17c

PUNCH AND JUDY

T6884 12½x15½x8 in., wood, colored with cut paper, asstd. composition figures operated by side lever. Each with whistle. 1 doz. in box
(Cwt. $10.00) Doz., 85c

WHISTLING BOYS

T6819— Ht. 8 in., composition head, painted features, asst'd costumes. Slight pressure produces loud whistling noise. ½ doz. in box
Doz., $2.15

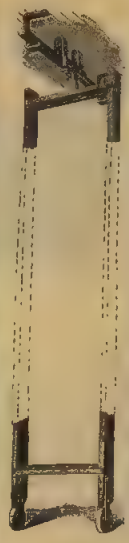
SQUEAKING FIGURES ON STICK

T6846 T6845

T6846— Ht. 20½ in., asstd. clown heads and coats, stained wood stick, whistle voice. 1 doz. in box
(Cwt. $9.50) Doz., 82c
T6845— Ht. 11 in. asstd. clown heads and feet, painted wood stick, whistle cymbals. ½ doz. in box
$4.65

ROLLING SHELF LADDERS

Superior



Acme

Perfection

These ladders are made from thoroughly seasoned oak, natural finish, varnished; the steps are mortised and securely fastened.

Superior

The most popular ladder for general store use; takes up very little space. The fibre tread noiseless steel wheels run on angle steel rail, secured to the shelving by brackets at any desired interval. Has 5 inch rubber tired guard rollers which run on the edge of base shelf.

Superior, 8 to 15 ft. ..... Each $20 00
Track with brackets ..... Foot .30

Acme

The hangers have fibre tread noiseless steel wheels running on a steel angle track, suspended from the ceiling by brackets which can be adjusted to the track at any desired interveal. Floor wheels are rubber tired.

Acme, 8 to 15 ft. ..... Each $20 00
Track with brackets ..... Foot .30

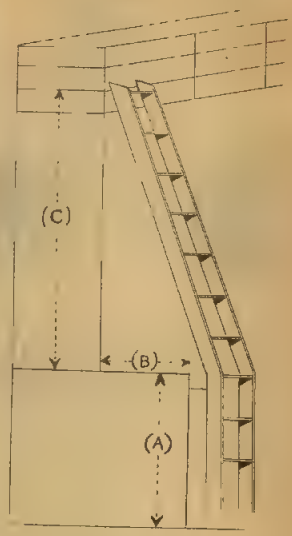
Note—When ordering Acme ladders please specify exact height of ceiling and length of each run of track wanted.

Perfection

This ladder runs on 5 inch rubber tired floor wheels and is guided by a wood rail secured to the shelving at top of ladder by iron brackets.

Perfection, 8 to 15 ft. ..... Each $20.00
Gunde rail and brackets ..... Foot .30

INSTRUCTIONS FOR ORDERING



Made to Order Only

(About one week required to fill orders)

For Superior and Perfection Ladders

A—Height from Floor Base to Shelf.

B—Width of Base.

C—Perpendicular Distance from Base to Center of Shelf the Ladder is intended to run on.

D—Number of Partitions.

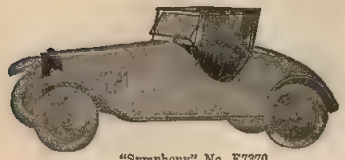
E—Color preferred.

For Acme Ladder

State Exact Height of Ceiling and the Length of Each Run of Track.

Prices on Application.

SPECIAL BODIES FOR FORD CARS



"Symphony" No. F7370.

"Tuxedo" No. F7371.

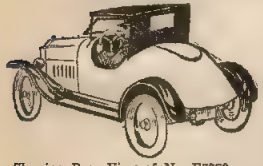
General Specifications:

Frame—Hardwood throughout, all joints properly made and securely fastened. Floor boards and dash furnished with all openings cut and wear plates furnished.
Body—22 gauge cold rolled body stock throughout.
Hood and Shell—22 gauge cold rolled body stock.
Top—Square type, collapsible, supported upon knock-down tubular frame; made of high grade pebbled finish top material; fitted with two-piece side curtains. Back of top and curtains equipped with square celluloid lights.
Windshield—Slanting, one-piece, ventilating type. Glass set in rubber in standard rolled frame.
Upholstery and Cushions—Manufactured leather pebbled or straight grain finish. French pleated and fully stuffed.
Cushion—Wood frame with oil tempered coil springs, fully stuffed and covered.
Painting—Primer, color and varnish coats. Stock colors red and brewster green. Hood and shell black baked enamel or same color as body at our option. Other colors extra and at a delay of three weeks in shipment.
Fittings—All bodies are fully equipped with necessary bolts and plates for attaching without alteration. All openings are cut in dash and floor. Floor and brake lever plates furnished. Fender irons standard equipment. Running board, dust-shield, fenders, and radiator not furnished. Bodies are built to fit any model T Ford Chassis.
IMPORTANT—In ordering, advise whether body is for old or new style radiator. Failure to do so means delay and expense.

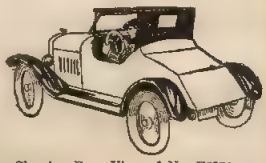
DETAILS OF SYMPHONY AND TUXEDO

Length overall, in.	120
Length overall, dash to back of cowl, in.	21
Length overall, dash to back of seat, in.	53
Extreme width of cowl, in.	37
Height of cowl from floor, in.	23
Height of seat from floor, in.	6
Height of back of seat, in.	22
Height of side of seat, in.	12½
Width of seat (outside measurement), in.	39
Width of seat (inside measurement), in.	36
Length, rear compartment bottom, in.	37
Width, rear compartment bottom, in.	37
Height, rear compartment bottom, in.	17
Size, rear compartment door, in.	17×36
Weight: crated, with top, windshield, hood and shell, lbs.	270
Without top and windshield, lbs.	250

Size of the crate, 94 in. long, 28 in. high, and 42 in. wide.



Showing Rear View of No. F7370.



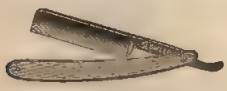
Showing Rear View of No. F7371.

No. F7370—Symphony body complete—without top or windshield★ ..... each *$162.00*
No. F7370W—Symphony body complete—with windshield only★ ..... each *189.00*
No. F7370TW—Symphony body complete—with top and shield★ ..... each *231.50*
No. F7371—Tuxedo body—without top or windshield★ ..... each *120.00*
No. F7371W—Tuxedo body—with windshield only★ ..... each *146.50*
No. F7371TW—Tuxedo body—with top and shield★ ..... each *189.00*

NOTE—Hood and shell of Tuxedo interchangeable with 1917-20 Ford model. Body alone without shell and hood purchased and applied to a standard model T chassis.

★ Items Marked Thus ★ are Shipped from Factory Only.

HIGHEST QUALITY IMPORTED BARBERS' RAZORS



S. R. DROSCHER'S FAMOUS "SWEEP" RAZORS are unequalled in quality, finish and workmanship, and are guaranteed to give entire satisfaction.

They are made of the best quality English steel and are twice hand forged to prevent overheating.

Ground by hand by expert grinders after the old approved system. The blades thus remain perfectly cool and retain the original quality of the steel, which is an impossible achievement in machine-ground razors. Every razor is tested and set ready for use. Unequalled for private as well as barbers' use.

No. 206—⅛ in. blade, square point, full hollow ground, white ivoride handle .....per dozen **$42.00**

No. 206—⅜ in. blade, square point, full hollow ground, white ivoride handle ..... per dozen **$42.00**

ONE IN A TELESCOPE BOX, HALF DOZEN IN A BOX

Made from the famous "Karbona Special Steel" ground by hand by expert grinders after the old approved system. The blades thus remain cool and retain the original quality of the steel, which is an impossible achievement in machine ground razors. Every razor is tested and set ready for use. Fully warranted—unequalled for private as well as barbers' use.

No. 190—⅜ in. blade, square point, full hollow ground, white ivoride handle .....per dozen **$42.00**

ONE IN A TELESCOPE BOX, HALF DOZEN IN A BOX

H. BOKERS'S "RED-INJUN"
HIGHEST QUALITY ENGLISH STEEL

Full hollow ground, polished, file tang, oval rubber handle.

No. 100—⅛ in. blade, **Square Point** ....per dozen **$72.00**

No. 101—⅜ in. blade, **Square Point** ....per dozen **72.00**

No. 101RP—⅜ in. blade, **Round Point** ..per dozen **72.00**

These razors are of the highest quality obtainable in workmanship, quality and finish. Just the razor for the barber or for the man who shaves himself.

RAZOR HANDLES

Oval rubber, complete with nickel silver rivets and washers.

No. 12⅛—⅛ **in.** .....per dozen **$2.50**

No. 12⅜—⅜ **in.** .....per dozen **2.50**

No. 12½—½ **in.** .....per dozen **2.70**

No. 12⅝—⅝ **in.** .....per dozen **2.70**

Flat rubber, complete with nickel silver rivets and washers.

No. 012⅛—⅛ **in.** .....per dozen **$2.60**

No. 012⅜—⅜ **in.** .....per dozen **2.60**

No. 012½—½ **in.** ....per dozen **2.80**

No. 012⅝—⅝ **in.** .....per dozen **2.80**

Flat white ivory celluloid, complete with nickel silver rivets and washers.

No. 200⅛—⅛ **in.** .....per dozen **$4.00**

No. 200⅜—⅜ **in.** ....per dozen **4.00**

No. 200½—½ **in.** ....per dozen **4.00**

ONE DOZEN IN A BOX

No. 5—Shav-ezy, brass nickel plated, can be adjusted to fit any razor .....per dozen **$4.50**

ONE DOZEN IN A CASE

Prices on Application

NEW IMPROVED GILLETTE SAFETY RAZORS

(Patented Jan. 13, 1910)

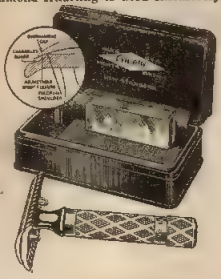
Here is an invention of intense interest to every man who shaves, a unique principle in Razor—not merely a new style.

As a result of the new patented features, the NEW IMPROVED Gillette Safety Razor is the finest shaving instrument ever produced. It uses the well known Standard Gillette Blades and greatly increases their effectiveness. The **Fulcrum Shoulder** and overhanging Cap provide straight edges acting on the blades to produce an **Adjustable Short Fluxure**, which results in a straight and extremely rigid shaving edge in all positions of adjustment. The **Channeled Guard** underlying the adjustable blade edge enables the adjustment to be changed without sensibly altering the angle at which the razor is held in shaving, and also leaves the entire edge free to the beard while guarded from the face.

All parts are made with **Micrometric Precision** in strict conformity with measurements determined by Gillette technical experts after exhaustive research and thousands of shaving tests.

The distinctive **Diamond Knurling** is used exclusively on the New Improved Gillette Safety Razor.

NEW STANDARD



Black genuine leather covered case, purple velvet and satin lined, 3¾×2⅛×1⅛ in., complete with **New Improved** razor and 12 double edged blades, (24 shaving edges.)

New Standard—Triple, silver plated razor, nickel plated blade box,
per dozen *$60.00*
ONE IN A BOX

RICHWOOD

Wood case, mahogany finish, 3¾×2⅛×1¼ in., complete with **New Improved** razor and 12 double edged blades, (24 shaving edges.)

Richwood—Triple silver plated razor and nickel plated blade box,
per dozen *$60.00*
ONE IN A BOX

BOSTONIAN

Opening of cover automatically raises tray containing razor and blade box.

Nickel plated metal case, purple velvet and satin lined, 3⅞×2×1¼ in., complete with **New Improved** razor and 12 double edged blades, (24 shaving edges.)

Bostonian—Triple silver plated razor and nickel plated blade box,
per dozen *$60.00*
ONE IN A BOX

TUCKAWAY

A small compact set.

Metal case, purple velvet and satin lined, 3×8×1⅛ in., complete with **New Improved** razor and 12 double edged blades, (24 shaving edges.)

Tuckaway—Triple silver plated razor and nickel plated blade box,
per dozen *$60.00*
ONE IN A BOX

Gold Tuckaway—Gold plated razor and blade box,
per dozen *$72.00*
ONE IN A BOX

BIG FELLOW

Selected natural finish gumwood case, 4⅞×2⅜×⅝ in. Complete with **New Improved** razor and 12 double edged blades, (24 shaving edges).

Big Fellow—Triple silver plated razor and nickel plated blade box,
per dozen *$60.00*
ONE IN A BOX

MILADY DECOLLETEE

The appropriate set for ladies to keep the under-arm smooth.

Imitation white ivory case, old rose velvet and satin lined, 3⅞×3⅛×2 in., complete with **New Improved** razor and 12 double edged blades, (24 shaving edges).

Milady Decolletee—Gold plated razor and blade box,
per dozen ... *$72.00*
ONE IN A BOX

"BEST-A-LITE" STORE FIXTURE

2C3393—Length over all 16 in., solid brush brass canopy 6 x 10 globe, heavy ribbed side, plain bottom, ventilated shade holder with concealed key operated from wall switch 11½ pkg. Each **$4.50**

"NITROGEN LIGHT" UNIT FIXTURE

Length over all 36 in., 4 in. shade holder, hexagonal solid brush brass canopy, ventilated shade holder brush brass chain, 1 pc. sandblast crystal shade globe enamel inside and top, reflected surfaces, 1 in case, 30 lbs.

2C3837 Takes up to 100 watt Nitrogen lamp . Each **$5.50**

2C3838—Takes up to 200 watt nitrogen lamp . Each **$6.75**

"PENNSY-LITE" DUST-PROOF UNIT FIXTURE

Length over all 36 in., 4 in. shade holder, hexagonal solid brush brass canopy, ventilated shade holder brush brass chain, 1 pc. sandblast crystal shade globe enamel inside and top, reflected surfaces, 1 in case, 30 lbs.

2C3837 Takes up to 100 watt Nitrogen lamp . Each **$5.50**

2C3838—Takes up to 200 watt nitrogen lamp . Each **$6.75**

ELECTRIC LIGHT SHADES

2C3848 4 in. fitter, 8 in. flaring, ruffled outside with 4 in. ruffled edge. 1 doz. in box. Doz. **$2.00**

Ribbed Dresden 4 in. high, 8¼ in. fitter, ribbed design, ruffled outside, tinted skirt. 1 doz. in box.

2C4042 Tyrian blue. Doz. **$2.85**

2C4043—Tyrian blue. Doz. **$2.85**

2C4074 5 in. high, 8½ in. fitter, satin etched crystal, embossed ruby rose and blue bow knot design. 1 doz. in pkg. Doz. **$4.50**

2C3827 5 in. high, 8 in. fitter, 4 in. shade holder, with clear grapes. 1 doz. in box. Doz. **$2.10**

2C3816 6 in. high, 8¼ in. fitter, roughed outside, embossed hand painted blue floral border. ½ doz. in box. Doz. **$3.10**

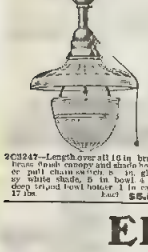
2C4072—8 in. high, 8½ in. fitter, satin etched crystal, embossed purple grape and leaf border. ½ doz. in box. Doz. **$4.95**

2C4086 5 in. high, 8¼ in. fitter, frosted glass with blue flowers and pale green leaves. ½ doz. in box. Doz. **$2.60**

2C4071 6 in. high, 8½ in. fitter, satin etched crystal, embossed ruby rose border. ½ doz. in box. Doz. **$3.95**

2C4069 6 in. high, 8½ in. fitter, silver brown frosted with autumn effect design. ½ doz. in box. Doz. **$5.95**

1 LIGHT CEILING FIXTURE



2C3247—Length over all 16 in. brush brass finish canopy and shade holder pull chain switch, 8 in. glassy white shade, 5 in. bowl 4 in. deep, stud rest holder 1 in. rod 17 in. Each **$5.50**

"AMCO" SNAP-ON UNIT FIXTURES

May be attached to any standard brass shell socket by anyone. Does not require special wiring. Can be used on 2C4125, 4120, 3113 fixtures shown elsewhere.

2C3277 7½ in. opal globe, 14 in. metal shade, white enameled brush brass holder 100 or 150 watt type Nitrogen lamp. Each in shipping carton, 25 lbs. . . . Each **$6.00**

2C3278—6 in. opal globe, 7½ in. metal shade, white enameled brush brass holder for use with 200 watt type Nitrogen lamp. Each in shipping carton 25 lbs. Each **$6.00**

"SUPERBA" ELECTRIC REFLECTORS

3½ in. fitter, milky white translucent glass polished inside and out.

2C4037—25 to 40 watt 4½ in. high, 6 in. diam. 1 doz. in pkg. Doz **$6.25**

2C4034 60 to 100 watt 6 in. high, 8 in. diam. ½ doz. in pkg. Doz **$8.95**

ELECTRIC LAMPS "SUPERIOR" & "MAZDA"

"SUPERIOR" TUNGSTEN LAMPS

Equal in every way to nationally advertised brands. Have long life and give satisfactory service. A quality brand at prices that will get you the business.

Shipped at customers risk

"MAZDA" TUNGSTEN LAMPS

Shipped at customers' risk

Vacuum Tungsten Lamps

110 volt, unskirted base. Clear glass. Estimated life 700 to 900 hrs.

	Watts	Candle Power	Lots of 5 Each	Lots of 50 Each
2C4330	10	8		28c
2C4331	15	12		26c
2C4332	25	20		26c
2C4333	40	35		25c
2C4334	50	45		23c
2C4335	60	55		22c
2C4336	100	90		31c

Nitrogen Lamps

115 Volt, unskirted base. Estimated life from 800 to 1000 hrs. We recommend 110 volt lamps at this type for 110 volt circuit.

CLEAR GLASS

	Watts	Candle Power	Lots of 2 Each	Lots of 50 Each
2C4348	40	30	$0.49	$0.37
2C4349	60	50	.41	.35
			Lots of 5	Lots of 10
2C4345	75	88	$0.42	$0.39
2C4346	100	125	.65	.60

BLUE GLASS

	Watts	Candle Power	Lots of 2 Each	Lots of 50 Each
2C4347	60	41	$0.65	
2C4326	60	50	.65	
2C4327	75	88	.95	
2C4328	100	125	1.15	

Round Frosted Tungsten Lamps

110 volt, unskirted base round, all frosted lamp, estimated life 700 to 900 hrs.

	Watts	Candle Power	Lots of 5 Each	Lots of 50 Each
2C4350	25	23	$0.39	$0.37
2C4351	40	38	.42	.40

Generator System Lamps

28-32 volts, unskirted base. For use with home generating plants, muffle lating 16 cell flood type storage battery.

Vacuum Type

	Candle Power	Lots of 5 Each	Lots of 50 Each
2C4306	11	$0.30	$0.28
2C4307	16	.30	.28
2C4308	25	.30	.28
2C4309	32	.30	.28
2C4304	50	.30	.28

Nitrogen Type

	Watts	Candle Power	Lots of 2 Each	Lots of 50 Each
2C4342	25	20	$0.42	$0.40
2C4343	40	35	.42	.40
2C4344	100	80	.75	.72

"EAGLE" RENEWED "SERVICE" VACUUM TUNGSTEN LAMPS

110 volt, skirted base, clear glass. Guaranteed to burn from 600 to 800 hours, average life over 1,000 hours. Made by Benjo-Economy Division National Lamp Works of General Electric Co.

	Watts	Lots of 5 Each	Lots of 50 Each
2C4295	100 watts	82c	78c

Vacuum Tungsten Lamps

Unskirted base. For mantel use 800 to 1,000 hrs. Sold in lots of not less than 5.

Clear Glass

	Watts	Candle Power	Each	Lots of 50 Each
110 Volt				
2C4299	10	8	$0.33	$0.32
2C4300	15	13	.33	.32
2C4302	25	23	.33	.32
2C4303	40	38	.33	.32
2C4210	50	48	.33	.32
2C4313	60	60	.37	.35
115 Volt				

	Watts	Candle Power	Each	Lots of 50 Each
2C4308	25	23	$0.32	$0.30
2C4309	40	38	.32	.30
2C4310	60	60	.37	.35
2 Volt				

	Watts	Candle Power	Each	Lots of 50 Each
2C4295	25	23	$0.37	$0.35
2C4296	40	38	.37	.35

Frosted Bowl

	Watts	Candle Power	Each	Lots of 50 Each
110 Volt—				
2C4285	25	23	$0.37	$0.35
2C4294	40	38	.37	.35

Nitrogen Tungsten Lamps

115 volt, unskirted base, clear glass. Estimated life 600 hrs. We recommend 110 volt lamps of this type for 110 volt current.

	Watts	Candle Power	Each	Lots of 25 Each
2C4288	75	88	$0.65	$0.63
2C4290	100	125	.88	.85
2C4319	200	260	1.80	

GUARANTEED PRICES

"Our Drummer" takes the risk out of buying because it guarantees our printed prices against advances.

ELECTRIC LAMPS TABLE & BOUDOIR

ELECTRIC TABLE LAMPS

These lamps have fancy cast metal stands and overlaid shades in artistic designs, panel inserts are of amber and green glass. The lamps are wired complete, with pull chain sockets (except 2C3160), silk cord and swivel plug, and are ready for use (no bulbs).

2C3160—2 styles, 1 light, one style 21 in high, dull gold finish, 14½ in. round shade, 6 panels, one style 23 in. high, engraved bronze finish, 16 in. hexagon shade, 6 amber panels, push button sockets. Assid. 2 in wood case..... Each, **$7.80**

2C3162—2 light 23½ in. high, plated brushed brass finish, 16 in. round art shade, 6 panels, Benjamin plug. Each in wood carrel case. Each, **$10.75**

2C3161—2 light, 24 in high, plated Florentine finish (bronze & gold) 16in. canopstands 6 panels, Benjamin plug. Each in wood barrel Each, **$11.50**

2C3163—2 light, 22½ in. high, plated Jap gold finish, 18 in. shade, 6 panels Benjamin plug. Each in wood case. Each, **$12.50**

2C3165—2 light, 22½ in. high, plated old gold finish, 17 in. octagon shade, 8 panels, Benjamin plug. Each in wood case. Each, **$12.75**

2C3164—2 light, 24 in high, antique gold finish, 18½ in. round scenic shade 6 blue glass panels, green glass skirt, Benjamin plug, 1 in barrel . . Each, **$13.50**

2C3167—2 light, 25 in high, sprayed bronze finish, 16½ in. round shade, 6 panels, green panels in skirt, Benjamin plug. Each in wood case. Each, **$19.95**

2C3166—2 light, 25 in. high, antique gold finish, 16 in. hexagon shade, 6 panels, red glass skirt, Benjamin plug. 1 in barrel. Each, **$13.75**

2C3169—2 light, illuminated base, 24 in. high. Empire gold finish, 18 in. round shade, 6 panels, glass column, base fitted with bulb, Benjamin plug 1 in barrel. Each, **$17.95**

HAMMERED BRASS ELECTRIC TABLE LAMP

2C3170—2 light, 24 in high, vase shape stand bronze plated finish, hammered brass, 20 in. round shade, 6 panels, silk cord, Benjamin plug, no bulbs. Each in wood case .... Each, **$19.95**

ELECTRIC BOUDOIR LAMPS

These lamps are wired complete, have 9 ft. parallel silk cord with swivel plug and push button sockets. Popular trade pullers that will add beauty to your store as well as extra profits to your purse.

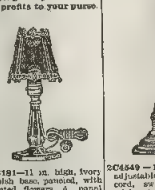
10½ in. highly beaded white enamel cast metal base, 12 in. silk shade, on metal frame, brass shade holder white cord 8 ft. in shipping carton, 12 lbs.

2C3179—With old rose silk shade

2C3180—With blue silk shade in shipping carton . . Each, **$2.75**

2C3183—18 in high, mahogany finish wood base 8 in hexagon blue silk shade, stamped with rose, gold braid trim, Benjamin plug 8 in carton. Each, . Out

2C3182—13 in high, mahogany finish wood base 6 in scalloped silk shade, old rose and corded floral braid paneled with gold, Benjamin plug 3 in carton. Each, **$3.50**



2C3181—11 in. high, ivory finish base, paneled, with stated flowers, 4 panel rose silk shade, white cord Benjamin plug 1 in carton . . Each, **$3.50**

ADJUSTABLE BRASS ELECTRIC DESK LAMP

2C4549—11 in high, weighted base, adjustable at base and socket, 7 ft. cord, swivel plug, key socket, **without bulb.** 1 in pkg. Each, **$2.60**

2C4557—14 in. high, cast metal base, plak and white enamel finish, frosted glass shade embossed pink rose with green foliage, 8 ft parallel cord, Benjamin swivel plug. Each in mailing carton, 7 lbs.

Each, **$3.95**

2C3154—14 in. high, ivory finish, deep corrugated shade, 8 amber glass panels decorations on shade and base, tinted in brown, green and red white cord Benjamin plug 1 in carton . Each, **$5.40**

2C3155—14 in high. 7 in round amber glass shade overlaid with silver and black festoonery, mahogany glass in skirt, Benjamin plug. 1 in carton . Each, **$6.40**

IVORY DESK AND BOUDOIR LAMP

2C3187 — 12½ in high, ivory finish, tinted floral decorations, 7¾x8½ oval shade, 3 brown tone glass panels with hand painted floral design, pull chain socket, 6 ft. parallel cord, swivel plug **without bulb.** 1 in case. Each, **$10.50**

"FLEX-LITE" DESK LAMP

21 in high, adjustable in any direction parasola shade, key socket, wired complete with 6 ft. reinforced parallel cord, Benjamin swivel plug. 1 in case, 12 lbs.

2C3289—Flemish finish . Each

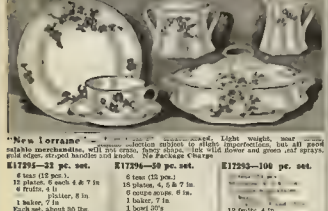
2C3290—Pompeian finish . **$3.25**

ONE PRICE

The bed-rock of this business is ONE PRICE. We have no method, if we had the will, to charge one set of prices to some customers and another set to other customers.

SEMI-PORCELAIN DINNER SETS

32, 42, 50 and 100 piece sets. Trademarked patterns in the newest designs at much less than the usual prices



"New Lorraine" ... Light weight, near ... suitable merchandise, will ... shape, dark wild flower and green leaf sprays, gold edges, striped handles and knobs. No Package Charge.

E17295—32 pc. set.
6 sau (12 pcs.).
12 plates, 6 each 4 & 7 in.
6 fruits, 4 in.
1 platter, 8 in.
1 baker, 7 in.
Each set, about 30 lbs.
SET (32 pcs.), **$4.15**

E17296—50 pc. set.
6 teas (12 pcs.)
18 plates, 4, 5 & 7 in.
6 ouge soups, 6 in.
1 baker, 7 in.
1 bowl 10'a
1 covered dish (2 pcs.)
3 platter
6 fruits, 4 in.
1 covered sugar 30's
1 cream pitcher 30 a
Each set about 48 lbs.
$8.53

E17293—100 pc. set.
... teas (24 pcs.)
... plates, 6 each 4, 5 and 7 in.
... fruits, 4 in.
... platters, 8 and 10 in.
... bowl, 10 in.
12 fruits, 4 in.
1 sugar & creamer (3 pcs.)
1 butter (3 pcs.)
1 casserole (2 pcs.)
1 covered dish 7 in. (3 pcs.)
1 sauce boat (3 pcs.)
1 pickle dish.
Each set about 90 lbs
$17.35

"Avena" ... dishes, tissue wrapped ...

E22295—32 pc. set.
6 tea cups & saucers (12 pcs.)
12 plates, 6 each 4 & 7 in.
6 ouge soups
1 baker, 7 in.
1 bowl, 10 in.
1 cov'd dish (2 pcs.)
1 platter
6 fruits
1 cov'r sugar (2 pcs.)
1 creamer
Each set about 45 lbs
SET (50 pcs.) **$9.75**

E22296—50 pc. set.
6 tea cups & saucers (12 pcs.)
18 plates, 6, 5 and 7 in
6 ouge soups
1 baker, 7 in.
1 bowl, 10 in.
1 cov'd dish (2 pcs.)
1 platter
6 fruits
1 cov'r sugar (2 pcs.)
1 creamer
Each set about 45 lbs
SET (50 pcs.) **$9.75**

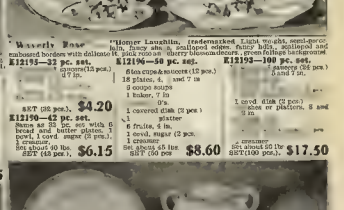
E22393—100 pc. set.
Set consists of:
12 teas (24 pcs.),
36 plates, 6, 5 and 7 in.
12 ouge soup plates
1 baker 7 in.
1 bowl, 10 in.
12 fruits, 4 in.
1 sugar & creamer (3 pcs.)
1 butter (3 pcs.)
1 cov'd dish (2 pcs.)
1 platter
1 sauce boat (2 pcs.)
1 pickle dish
Each set about 90 lbs
SET (100 pcs.) **$18.95**

"Belmont" ... "Kevin M Knowles" trademarked, ... Light weight, semi-porcelain, ... smooth Alaskawar pearled shape, ... border between gold bands, gold edges and striped handle. No Package Charge.

E24895—32 pc. set.
6 teas (12 pcs.)
12 plates, 6 each, 4 & 7 in.
6 fruits, 4 in.
1 platter, 8 in.
1 baker, 7 in.
Each set about 35 lbs
SET (32 pcs.), **$4.40**

E24896—50 pc. set.
6 teas (12 pcs.)
18 plates, 6, 5 and 7 in
6 ouge soups
1 baker, 7 in
1 bowl 10'a
1 cover dish (2 pcs.)
3 platter
6 fruits, 4 in.
1 covered sugar 30's
1 cream pitcher 30's
Each set about 48 .bs.
$8.95

E24893—100 pc set
... teas (24 pcs.)
... plates, 6, 5 and 7 in
... ouge soups
... baker, 7 in
... bowl 10'a
... platters, 8 and 10 in.
2 fruits, 4 in.
1 sugar & creamer (3 pcs.)
1 butter (2 pcs.)
1 casserole (2 pcs.)
1 cov'd dish (2 pcs.)
1 sauce boat (2 pcs.)
Each set about 90 lbs
$18.35



"Waverly Rose" ... **"Homer Laughlin,** trademarked. Light weight, semi-porcelain, fancy shape, scalloped edges, fancy lids, scalloped and ... border with dahlias in ... pink rose and cherry blossom clusters ... green foliage background.

E12195—32 pc. set.
... cups & saucers (12 pcs.)
... d 7 in.
... 6's.
SET (32 pcs.), **$4.20**

E12196—50 pc. set.
6 tea cups & saucers (12 pcs.)
18 plates, 4, 6 and 7 in
3 ouge soups
1 baker, 7 in
... 9's.
1 covered dish (2 pcs.)
1 platter
6 fruits, 4 in.
1 cov'd sugar, (2 pcs.
1 creamer
Set about 45 lbs
SET (50 pcs.) **$8.60**

E12193—100 pc. set.
... saucers (24 pcs.)
... 5 and 7 in.
... ouge soups
... baker, 7 in
1 cov'd dish (2 pcs.)
... sugar or platters, 8 and 10 in
... creamers
... set about 85 lbs
SET (100 pcs.), **$17.50**

E12250—42 pc. set.
Shows an 11 pc. set with 6 bread and butter plates, 1 bowl, 1 cov'd sugar (2 pcs.), 1 creamer.
Set about 40 lbs.
SET (42 pcs.), **$6.15**

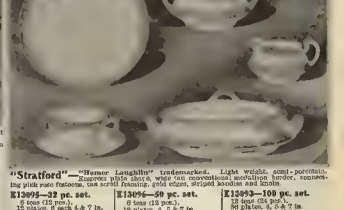
E12251—60 pc. set.
Shows an 11 pc. set with 6 bread and butter plates, 1 bowl, 1 cov'd sugar (2 pcs.), 1 creamer, 1 cov'd dish (2 pcs.), 1 sauce boat (2 pcs.), 1 pickle dish.
Set about 50 lbs.
SET (60 pcs.), **$8.60**

"Cottage Blue" ... **"Homer Laughlin"** trademarked, ... Light weight, semi-porcelain, fancy shape, ... shell blue floral and conventional band, handles and knobs with wide blue stripe desirable for breakfast sets or afternoon tea service. No Package Charge.

E12495—32 pc. set.
6 teas (12 pcs.)
12 plates, 6 each 5 & 7 in.
6 fruits, 4 in.
1 platter, 8 in.
1 baker, 7 in.
Each set about 50 lbs
SET (32 pcs.), **$4.25**

E12496—50 pc. set.
6 tea cups and saucers (12 pcs.)
18 plates, 6, 5 and 7 in.
6 ouge soups
1 baker, 7 in
1 bowl, 10'a
1 covered dish (2 pcs.)
3 platter
6 fruits, 4 in.
1 covered sugar (2 pcs.)
1 creamer
Each set about 45 lbs
SET (50 pcs.) **$9.70**

E12493—100 pc. set.
12 teas (24 pcs.)
36 plates, 6 5 and 7 in
12 ouge soups
1 baker 7 in
2 platters, 8 and 12 in.
12 fruits, 4 in.
1 sugar & creamer (3 pcs.)
1 casserole (2 pcs.)
1 dish, 7 in. (2 pcs.),
1 sauce boat (2 pcs.),
1 butter (2 pcs.)
1 pickle dish.
Each set about 90 lbs.
SET (100 pcs.), **$18.50**



"Stratford" ... **"Homer Laughlin"** trademarked. ... Light weight, semi-porcelain, ... shape, shows a wide ten conventional medallion border, connecting pink rose features, tea scroll framing, gold edges, striped handles and knobs.

E13095—32 pc. set.
6 teas (12 pcs.),
12 plates, 6 each 5 & 7 in.
6 fruits, 4 in.
1 baker, 7 in.
1 bowl, 10 in.
Set about 50 lbs.
SET (32 pcs.), **$6.55**

E13096—42 pc. set. As 32 pc. ... including 6 plates, 5 in., bowl, cov'd sugar (2 pcs.), and creamer.
Set about 60 lbs
SET (42 pcs.), **$9.45**

E13094—50 pc. set.
6 teas (12 pcs.),
18 plates, 6, 5 & 7 in.
6 fruits, 4 in.
... ouge soups
1 baker, 7 in.
... bowl, 10 in.
1 covered dish (2 pcs.)
... platter
6 fruits, 4 in.
1 covered sugar 30's
1 cream pitcher 30's
... about 60 lbs
SET (50 pcs.), **$13.70**

E13093—100 pc. set.
12 teas (24 pcs.),
36 plates, 6, 5 & 7 in.
12 ouge soup plates
... baker, 7 in.
2 platters, 8 and 12 in
... bowl, 10 in.
1 covered dish (2 pcs.)
... platter
6 fruits, 4 in.
1 covered sugar 30's
3 cream pitcher 30's
... about 90 lbs
SET (100 pcs.), **$27.25**

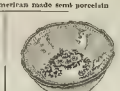
SEMI-PORCELAIN BOWLS

CAKE SETS & ASSORTMENTS

SEMI-PORCELAIN SALAD OR BERRY BOWLS

High grade light weight American made semi porcelain

E566—9¼ in. hand painted effect pink rose and forget-me-not floral decoration, shadow green on ships lustre background, rose, aster foliage, crocus border, scallop edge. 1 doz in pkg. Doz **$2.25**



E626—9¼ in., green and yellow conventional floral decoration, shadow green foliage-chevron & shadow and lattice on orange luster clouded panel effect, green band imbossed cut-out edge. ½ doz in pkg. Doz **$2.85**

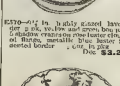
E569—8¾ in., highly glazed, pink shadow roses, lavender, forget-me-not and green full-size clusters, shadow leaves on green luster basket ground, orange luster border. 1 doz in pkg Doz **$2.50**

E567—9½ in., green and lavender stained poppy and green foliage design, shadow green and gold luster-etched floral green luster border. ½ dz. in pkg. Doz. **$2.95**

E565 3 styles, 9", in highly glazed pink, lavender and yellow roses, shadow leaves, green foliage and berries on green luster, shadow stars, scallop edge. Assrd. ½ doz in pkg Doz. **$2.60**

E570—9½ in. highly glazed Haven type of yellow and white roses, buds and foliage, shadow leaves, green luster ground, metallic blue border inserted border . . . 1 doz. in pkg Doz. **$2.25**

E345—9¼ in., highly glazed, large pink luster-like, effect rose clusters, green foliage, shadow lustre-like leaves, green luster ground, embossed border, green fluted scroll embossed edge. ½ doz. in pkg. Doz. **$2.68**



E700—Assrd. styles, 9½ in., light pink, white and yellow roses and floral clusters, foliage on green, shadow leaves, green luster band, green and gold scroll embossed edge. Assrd 3 in pkg . . . (Total 6)Doz. Each, **.32c**

SEMI-PORCELAIN 7 PIECE SALAD OR BERRY SETS

High grade light weight American made semi-porcelain

E373—6 dessert, bowl 9¼ in. SIX fruits 5½ in. poppies pink and yellow conventional, white gold edge. Assrd 6 sets in pkg (SET 7 pcs.) Doz. (Total 36 70) **95c**

E447—Bowl 8¾ in. SIX fruits 5½ in. octagon panelled, pink yellow and white roses, green foliage, green and gold luster border. 1 set in pkg (SET 7 pcs.) **$1.08**

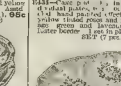
E438—Bowl 9¼ in. SIX fruit 5½ in. octagon panelled, conventional wild rose and green foliage design, gold and orange luster border and new luster ground. 1 set in pkg (SET 7 pcs.) **$1.10**

E448 Bowl 8¾ in. SIX fruits 5½, octagon panelled, highly glazed, pink, white and yellow roses, green foliage, green luster band, rose and gold edge. 1 set in pkg (SET 7 pcs.) **$1.10**

SEMI-PORCELAIN 7 PIECE CAKE SETS

High grade light weight American made semi-porcelain.

E435—Cake plate 10 in., SIX individual plates, 6¼ in., octagon panel, hand painted effect pink and yellow tinted roses and green foliage, green and lavender shadow luster border and gold edge. (SET 7 pcs.) **$1.10**



E439—Cake plate 10 in., SIX individual plates 6¼ in., yellow tinted rose and purple violet shadow grape, green foliage, fancy rose and green luster border, gold edge. 1 set in pkg. (SET 7 pcs.) **$1.10**

E432—Cake plate 10 in., SIX individual plates, 6¼ in., pink and green tinted water lily, bud and foliage, wide green luster band between white and narrow gold bands. 1 set in pkg (SET 7 pcs.) **$1.15**

SEMI-PORCELAIN OATMEAL DISH

E416—6 styles, 5", in semi porcelain, assorted floral designs, green and gold luster band. Assrd. 1 doz in pkg Doz. **$1.05**

DECORATED CUP, SAUCER AND PLATE ASSORTMENTS

Cup and saucer count as one piece.

Luster Motto—Light wt. American semi-porcelain, pink rose, forget-me-not and blue luster bands. Assrd. Mother's Day designs—9 different on front of cup and saucer of plate. 1 doz. in pkg.

E120—Cup 3¼x3, saucer 6 in. Doz. **$2.25**

Floral Decorated—Light wt. American semi-porcelain, light green luster stain, pink rose and forget-me-not sprays and gold edge. Assrd. 1 doz. in pkg.

E118—Cup 3¼x3, saucer 6 in. Doz. **$2.26**

PICTURED BABY PLATE

E329—Assrd. styles, 7½, in highly glazed semi-porcelain, deep cupped plates, flaky floating pictures centers, with gold edge and verge line rim decoration. Assrd. ½ doz in pkg Doz. **$4.50**

SEMI-PORCELAIN FRUIT OR BERRY DISH

E680—5dcorats., 6¼ in. floral centers, gold edge and points. Assrd 1 doz in pkg Doz. **95c**

KITCHENWARE—STONEWARE

TEA POTS AND FLOWER POTS

Bristol Mixing Bowls

Hard baked body, white granite, with blue hand grained bands and rim.

Solid Sizes	Open stock		
E3586?—	5 in. bowl	Doz	**$1.10**
E3626—	6 "	"	1.48
E3603—	7 "	"	2.15
E3599—	8 "	"	2.66
E3591—	9 "	"	3.85
E3592—	10 "	"	5.50

Assrd Sizes—1 each 5, 6, 7, 8 and 9 in bowls in nest. E3620—6 nests in crate. (Total 32 70) Nest. **95c**

E3586?

E3603-28

E3615-30

"MONARCH" GLOBE TEA POTS

Extra hard baked jet black glazed finish and cut. best American clays Open stock.

E362	18 in.	Doz	**$4.50**
E363	24 in.	"	6.10
E364	30 in.	"	8.25

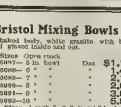
RED CLAY FLOWER POT ASST.

E900—Extra hard baked best quality deep red clay, glazed inside, unglazed outside, new perforated designs, terra cotta, standard sizes. Open prices.

1 doz	5 in.	nest, 6½ in.	
2 "	6 "	" 8 "	
3 "	7 "	" 9 "	

Assrd 4 doz. in crate, 300 lbs. Doz. **$1.50** (Total $18.00)

FANCY WHITE BRISTOL COMBINETS OR SLOP PAILS



Fit 12 in. dish. 11½ large full shape embossed glazed body, white inside, wire bail, cover with center knob.

F743	1 doz	in pkg	size 3, 16 lbs. **$11.00**
F741	Less of ½ doz	in pkg	size 3, 8 lbs. Doz **$11.50**

DAIRY STONEWARE

Strong, heavy stone body, first selection, good glaze. Keeps food in good edible condition.

E3501

E3601-28

E3615-30

Jars—Open stock.

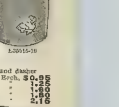
E35000—	1 gal.	Each.	**$0.19**
E35001	2 "	"	.39
E35002—	3 "	"	.59
E35003	4 "	"	.88
E350014—	5 "	"	1.03
E35003—	6 "	"	1.21
E35006—	8 "	"	1.62
E35007	10 "	"	2.10
E35008	12 "	"	2.65
E350089—	15 "	"	3.25
E35010	20 "	"	4.60
F35011—	25 "	"	6.25

Shoulder Jugs—Open stock.

E35022—	1 gal.	Each	**$0.30**
E35025—	2 "	"	.65
E35027—	3 "	"	1.10
E35028—	4 "	"	1.33

Churns—With cover and dasher

E35015—	6 gal.	Each.	**$0.95**
E35019—	8 "	"	1.05
E35018—	10 "	"	1.80
E35019—	6 "	"	2.15



Milk Bowls—1 pc. stock

E35030—	½ gal	Each	**$0.18**
E35031—	1 "	"	.22
E35032—	1½ "	"	.44

TAYLOR THERMOMETERS

COMFORTMETER ASSORTMENT

No. 5151S. Comfortmeter assortment consists of a red imitation leather covered, easel back display box, containing 1 dozen Comfortmeter thermometers, each of which is 8x2½ inches over all, with easy reading permacolor filled magnifying tubes mounted on metal scales which are finished in colors to harmonize with the Fumish Mission and bogwood backs. Size of package 10¼x17½ inches Scale range of thermometers 10° to 50° F. below zero to 120° above, weight per dozen 4 pounds... .....per assortment, **$12.80**

One assortment in a box

No. 5715

No. 5908

DAIRY AND CONFECTIONERS' THERMOMETERS

No. 5715. 8 inch Dairy all glass floating churn and pasteurizing thermometers, mercury filled tubes, approximate scale range 20° below zero to 150° F. above, weight per dozen ¾ pound..... per dozen, **$16.50**

One in a tube, one dozen in a box

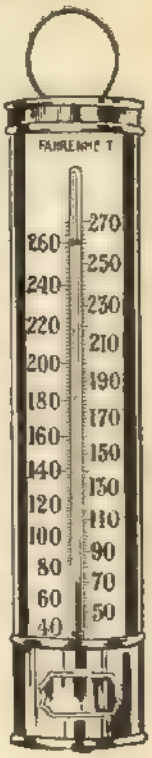
No. 5908. 8 inch Confectioners' thermometers, silvered brass scale, copper case, adjustable metal clip on back for fastening to any depth in cooking utensil, wood handle for hanging when not in use range 100° to 360° F., weight per dozen 4 pounds..... .. per dozen, **$27.00**

One in a box, with book of recipes

TAYLOR THERMOMETERS

No. 5140

No. 5120



No. 5948

CABINET AND TOBACCO THERMOMETERS

No. 5140. 10 inch Cabinet thermometers, magnifying mercury filled tube, black oxidized brass scale white filled figures, nickel mountings, wood back in birch or walnut finish, scale range 10° to 40° below zero to 120° F. above, weight per dozen 5 pounds .....per dozen, **$14.00**

One in a carton; one dozen in a box

No. 5120. 8 inch Cabinet thermometers, magnifying mercury filled tube, black oxidized brass scale, white filled figures and graduations, brass mountings, oak or cherry back, scale range 10° to 40° below zero to 120° F. above, weight per dozen 5 pounds .....per dozen, **16.00**

No. 5948. 10 inch Tobacco Curing thermometers, magnifying permacolor filled tube, japanned tin case, lithographed tin scale, large easy reading figures, scale range 30° to 270° F. above, weight per dozen 4 pounds ....per dozen, **13.00**

One in a box, one half dozen in a carton

INCUBATOR THERMOMETERS

No. 5774. Incubator thermometers, angle pattern with flange on upper edge turned over to hook on wire or metal strip. Black oxidized brass scales, white filled figures and graduations, range from 85° to 110° F., weight per dozen 3 pounds.....per dozen, **$9.50**

One in a box, one dozen in a carton

POCKET KNIVES
HAMMER BRAND

Pruners

One glazed blade, steel bolster, steel lined, redwood handle, weight per dozen 2½ pounds

No. 142. 4 inch .....per dozen, **$18.00**

One half dozen in a box

Scribers

One glazed blade steel bolster, steel lined redwood handle, weight per dozen 1½ pounds

No. 135. 3½ inch . per dozen, **$19.20**

One half dozen in a box

Corn

One glazed blade brass [illegible] ivory shell handle weight per dozen ¾ pound

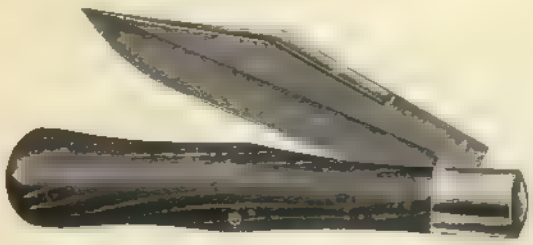
No. 104. 3¼ inch per dozen **$19.20**

One half dozen in a box

One large blade clip point, glazed and etched, nickel silver bolster, cap and shield, brass lined, stag handle, weight per dozen 2 pounds.

No. 1789. 3¼ inch per dozen **$18.00**

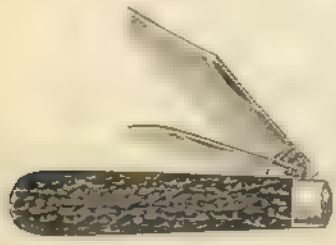
One half dozen in a box



One large heavy beveled blade, clip point, glazed, steel bolster, steel lined, redwood handle, weight per dozen 4 pounds

No. 188. 5½ inch ..... per dozen **$26.40**

One half dozen in a box



Two blades, large clip point, small spear point, glazed, steel bolster, steel lined, stag handle, weight per dozen 1½ pounds

No. 2643. 3 inch .....per dozen, **$13.20**

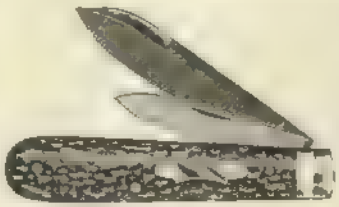
One half dozen in a box

POCKET KNIVES
HAMMER BRAND

Two blades, spear point, glazed, steel bolster, steel lined, redwood handle, weight per dozen 1¾ pounds.

No. 226. 3½ inch per dozen, **$13.20**

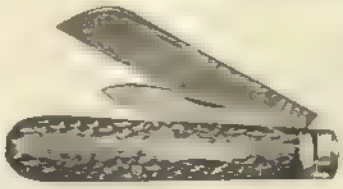
One half dozen in a box



Two blades, spear point, glazed, steel bolster, steel lined, stag handle with shield weight per dozen 2 pounds

No. 2444. 3½ inch. . per dozen, **$16.80**

One half dozen in a box



Two blades, large sheep foot, small spear point, glazed steel bolster, steel lined, stag handle with shield, weight per dozen 2 pounds

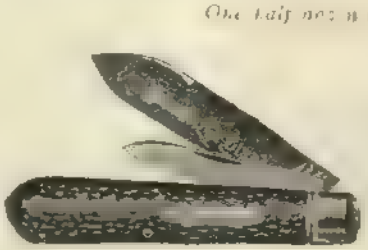
No. 2448. 3½ inch .....per dozen, **$16.80**

One half dozen in a box

Two blades, large clip point, small spear point, glazed, steel bolster, steel lined, stag handle with shield, weight per dozen 2 pounds

No. 2449. 3½ inch .....per dozen, **$16.80**

One half dozen in a box



Two blades, spear point, glazed and etched, steel bolster, brass lined, stag handle, weight per dozen 2½ pounds

No. 2256. 3½ inch .....per dozen, **$16.80**

One half dozen in a box

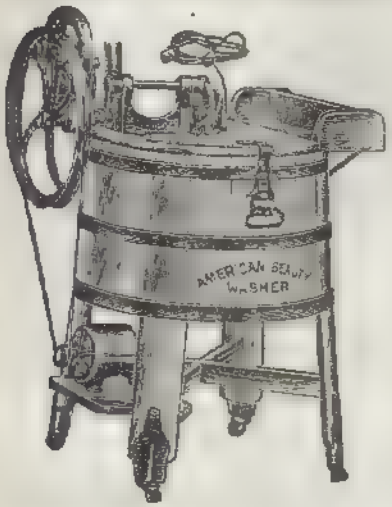
Boy Scout

Two blades, large sheep foot, small spear point, glazed and etched, nickel silver bolster, brass lined, ebony handle, weight per dozen 2⅝ pounds.

No. BS2. 3½ inch . .....per dozen, **$20.40**

One half dozen in a box

ELECTRIC WASHING MACHINES



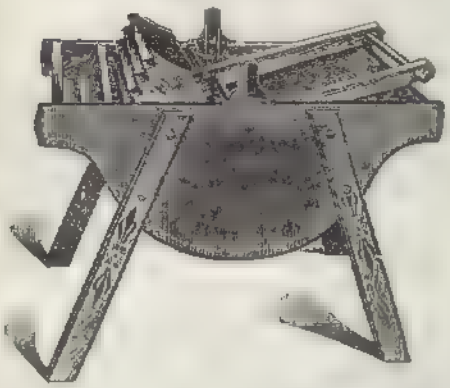
THE AMERICAN BEAUTY

Furnished with ½ H. P. Standard motor 110 volt, either alternating or direct current. Cypress tub corrugated throughout. Geared to give the dolly 85 full ⅔ turns per minute. Ball bearing casters and 10 ft. cord with separable attachment plug, brass drain faucet.

With each machine an emergency lever is furnished, with which to operate it in an easy way if power for the moment is not available.

No. F17 — Without wringer, w't crated 125 lbs.★ .....each $67.50

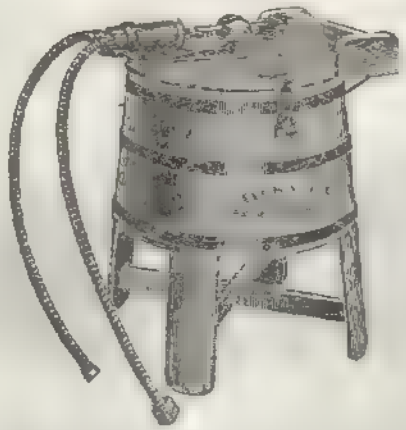
HAND POWER WASHING MACHINES



ADVANCE, kiln dried Arkansas cottonwood, height 24 in., length 33 in., width 21 in., galvanized iron bottom, with removable hardwood corrugated slats, hardwood cylinder and handle, galvanized iron socket guides, four hardwood bolted legs, w't per doz. 480 lbs.

No. W16—From stock, each $9.90

PEERLESS WATER POWER WASHERS



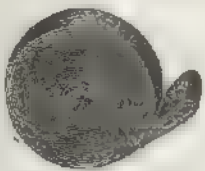
The pressure in the motor is concentrated so perfectly alternately on each side of the piston head that it only takes a minimum of pressure to produce more strokes per minute than any other water motor, and the "Peerless" water power machine is guaranteed to operate successfully on 20 lbs. pressure.

No. W30—This is very substantial, of thoroughly kiln dried clear southern cypress, rack is fully covered with a shield, shipping w't 900 lbs., each $32.00

TUB STANDS

No. W3132—For Nos. W31 and W32 Washers, height 18 in., diameter of top 16 in., steel electrically welded, shipping w't per set of two 25 lbs., per set of two $6.00

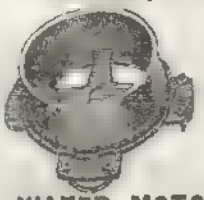
WATER MOTOR BELTS



One of these endless belts should be purchased with each water motor, as the regular rubber and leather belts are too heavy and use too much power.

No. 25—9 ft., endless belt for No. 1994 water motors, 1 in. wide, made of rubber and cloth webbing, each $0.80

REVONOC POWER PULLEY



REVONOC **Pulley,** 8 in., w't per doz. 42 lbs., per doz. $24.00

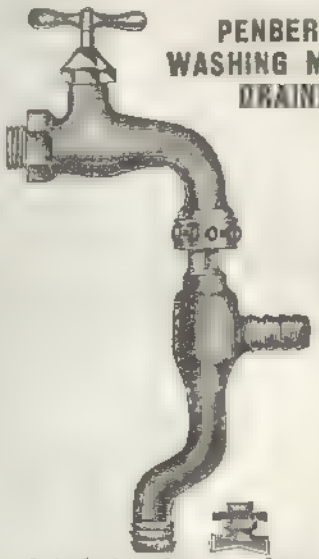
WATER MOTORS AND BRACKETS

Cut shows motor and bracket attached. Sold separately.

No. 1994—Motor 2 in flat belt double **flanged pulley,** made of brass, iron and steel, for ¾ in. pipe, w't per doz. 160 lbs., each $11.00

No. 1944—Wall or bench **brackets,** w't per doz. 17 lbs.....each $9.60

PENBERTHY WASHING MACHINE DRAINER



It is designed to transfer water from washing machines, wash tubs, cellar tubs, or any place where there is an accumulation, by means of ordinary water pressure. No electrical, steam or other operative power required.

No. 10—Aluminum, w't 5 ounces, w't per dozen 4 lbs. .....each $4.20
ONE DOZEN IN A BOX

WASHING MACHINE DRAINER ADAPTERS

Adapters can be supplied for use where the faucet is not threaded. Simply slip this over the smooth faucet, screw on the coupling and a tight connection is made.

No. 5—Brass, w't per doz. 2 lbs., each $0.70
ONE DOZEN IN A BOX

★ Items Marked Thus ★ Are Shipped From Factory Only.

GUARANTEED BALL BEARING WRINGERS

On this and the following page we illustrate several patterns of Wringers, under the brands [illegible] and REVONOC. The rolls in [illegible] wringers are guaranteed for five years, those in the REVONOC are guaranteed for three years, otherwise they are identical.

These wringers embody two very important improvements, namely, the "Enclosed Cog Wheels" and "Ball Bearings," but in connection with these are a number of other points which contribute to their superiority.

Frame—This is made of seasoned hard wood, in the simplest manner, carefully joined and bolted, all of the working parts encased leaving nothing to be desired in the appearance and convenience of the wringer. It is carefully varnished, painted, and well finished in every detail.

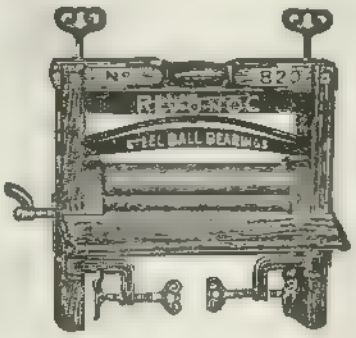
Rolls—These are of exceptional quality and will last the term of years for which they are guaranteed, if used for family washing. The [illegible] are made from the best solid white rubber, the same quality from outside of cover to shaft, are soft and have the proper elasticity to do good wringing. The rolls of the REVONOC are second only to the [illegible].

Covered Gearing—This is a very important improvement—there is no danger of clothing catching in the cogs. The appearance is vastly improved. The spring is longer, removing the strain on the rollers when rolls are separated, and the danger of children getting their fingers crushed is entirely removed.

Ball Bearing—These are located on the outside of the cog wheels, and therefore removed a considerable distance from the rolls, so that no water can reach them from wringing of clothes. The ball race is so constructed that should any water reach the bearings, it will drain out immediately, avoiding rust. The bearings can be oiled without any danger of the oil reaching the rolls. The balls are solid steel of uniform size. The bearings are of large size and reduce friction to a minimum, and [illegible] or REVONOC wringers can be operated with one half the effort of an ordinary wringer.

Other Points—Everything about these wringers is high grade and made for use. The thumb screws are large and easy to handle. The spring is made of the best quality of steel, adapted for the purpose. The clamps are extra strong and easy to apply, and are made to be attached to wood or galvanized tubs, either round or square.

[illegible]



See general description above.

Rolls warranted for three years, encased cog wheels with ball bearings, large frame, folding apron, adjustable clamps, for either wood or galvanized tubs.

10x1¾ in. Finest Quality Rolls, Upper No. 54, Lower No. 55, W't Per Dozen 275 Lbs.

No. R820 REVONOC—Full quarter dozen cases, per dozen $108.60

No. 820 REVONOC—Less than case lots, per dozen $108.60

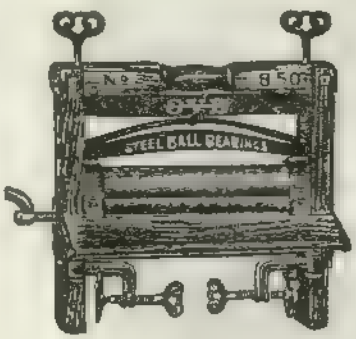
11x1¾ in. Finest Quality Rolls, Upper No. 61, Lower No. 62, W't Per Dozen 290 Lbs.

No. R821 REVONOC—Full quarter dozen cases, per dozen $115.60

No. 821 REVONOC—Less than case lots, per dozen $116.60

QUARTER DOZEN IN A CASE

REVONOC



See general description above.

Rolls warranted for five years, encased cog wheels with ball bearings, large frame, folding apron, adjustable clamps, for either wood or galvanized tubs

10x1¾ in. Finest Quality Rolls, Upper No. 54, Lower No. 55, W't Per Dozen 275 Lbs.

No. R850 [illegible]—Full quarter dozen cases, per dozen $115.60

No. 850 [illegible]—Less than case lots, per dozen $115.60

11x1¾ in. Finest Quality Rolls, Upper No. 61, Lower No. 62, W't Per Dozen 290 Lbs.

No. R851 [illegible]—Full quarter dozen cases, per dozen $131.60

No. 851 [illegible]—Less than case lots, per dozen $131.60

QUARTER DOZEN IN A CASE

Galvanized Wire Clothes Lines

Thousands of dozens of these lines are sold monthly by enterprising merchants who display them. You can buy them here at rock bottom.

Braided galvanized wire, guaranteed full length, wt and number of strands.

4 STRANDS—1 doz. in bdl

1H7478—36 ft. long 20 gauge Doz. **$1.68**

6 STRANDS—

	Gauge	In pkg.		
1H5703— 50 ft.	20	½ doz.	Doz.	$2.80
1H5704— 50 "	20	½ "	"	3.10
1H5705— 60 "	20	½ "	"	3.65
1H5706— 75 "	20	½ "	"	3.85
1H5707—100 "	20	½ "	"	4.35
1H5708—100 "	18	½ "	"	5.75

"HENDRYX" BIRD CAGES

America's best known line. Our plan of assorting styles and sizes brings you a better sale and a better profit.

BIRD CAGE ASSORTMENTS

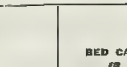
STAR VALUE

1H5680—6 styles, 3 square, 9 x7½x10, 8x8x15½ and 8½x9x16½, 3 shining 8½x8½x15½, 8½x8x15½ and 10½x7x10 solid spring wire, asstd. blue and white rs, and white and green and white painted canvas tops, 6 nest-ing double purchase rolled self locking spring door fast-ener, cups, perches and swing hook and ring tops. 6 nest-ed in case, 24 lbs. (Total $10.50) Each **$1.75**

Showing 2 of the 6 styles

1H5689—6 styles, 3 shining, 9½x7½x10½, 7½x10½x16½, 8x11½x10 d round 10¼x10½, 11x10½, 12x17; 2 solid brass, 4 spring steel wire, white and ivory enameled with fancy white, blue and light green trim, 5 with guards, heavy tin bottoms, cups, perches and swing, hook and ring tops. 6 nested in case, 35 lbs. (Total $33.40) Each. **$3.90**

BIRD CAGE HOOKS



1H4670—7½ in., dark bronze fin ish, cast iron ⅝x1½ wall plate, swings in socket. 1 doz. in box. Doz. **55c**

1H4670—12 in., brassed steel, pol-ished, 7x1½ wall plate, ⅜ in double steel rod, brazed, swings in socket. 1 doz. in box. Doz. **$1.80**

BIRD CAGES

1H5649 — 11x11x17½, with red trimmings, brass bound guard, decorated stand cups, perches and swing, 1 in case, 15 lbs. Each. **$4.25**

1H5642—10¾ x 7½ x 13½, brass spring wire, riveted to rails brass guard and bottom cups, perches and swing 1 in case, 13 lbs. Each. **$5.60**

1H5648—11x11x18½ brass spring wire, solid rail brass guard, spun brass stand, nickel finish, white enameled lucite tray, cups perches and swing 1 in case 16 lbs. Each. **$6.75**

COIL BIRD CAGE SPRING

1H5696—2 x 2¼ in, brassed coil spring with 26 in chain, 1 in bx. Doz. **$1.20**

GALVANIZED WIRE CLOTHES LINE

1H5709—75 ft., 9 gauge heavy gal-vanized wire, will outlast any other line. Wrapped. ½ doz. in bdl. .....Doz. **$4.50**

DISPLAY PLATE RACK

1H5614 12 x 4 12 gauge retinned wire, holds large salad bowl or plates and 6 small dishes. 1 doz. in box. .. ..Doz. **$7c**

RUBBER COVERED SALAD BOWL EASEL

1H5568—8x2½, 12 gauge steel wire, smooth rubber covered. 1 doz. in box .. .. .. Doz. **92c**

FREE Ask for our new combination WANT BOOK and ORDER PAD

It will help you to keep your stock up and your outs down. We'll send you a sup-ply FREE on request.

CASH REGISTERS

THE "AUDIT"

Guaranteed for two years.

An ideal register for those who do not wish an expensive ma-chine. Identically the same as higher priced ones only small in size.

Keyboard E

1H6843—9 key detail adder, registers from 1c to 50c, similar to "Premier" same finish, material and working parts. Full paper rolls for Nickel plated Keys, lid over adding wheel, lined with velvet. 1 in crate, 74 lbs. Each. **$46.00**

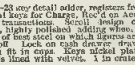
THE "PREMIER"

Guaranteed for two years. Made of best grade materials throughout will give accurate reliable service for years. Has every feature a merchant wants and actually needs.

KEYBOARD B

1H6841—23 key detail adder, registers from 1c to $20.00, with special keys for Charge, Rec'd on Acc't, Paid Out and No Sale transactions. Scroll design cabinet, best nickel finish, highly polished adding wheels, bands and indicators made of best steel on which figures are lithographed, cast-iron pedal, lock on cash drawer, drawer works on springs which fit in cups. Keys nickel plated, lid over adding wheels lined with velvet. 1 in crate, 115 lbs. Each, **$66.00**

THE "PREMIER JR."



1H6842—15 key detail adder, registers from 1c to $8.00, with No Sale key, nickel plated keys lid over adding wheels lined with velvet, otherwise same as 1H6841. 1 in crate 84 lbs. .... Each **$60.00**

Our 5-house buying power means lower prices for you.

CASTERS

BED AND FURNITURE

BED CASTERS

"Universal" — Maple wheel, a strong steel caster easily attached. For iron and brass beds, 8 in sets. 25 doz. sets in pkg

Wheel In.	Tube In.	Doz. sets
1H4629—1¼	⅜	$1.60
1H4621—1¾	1⅝	1.75
1H4623—1¾	1¾	2.65

FURNITURE CASTERS

1H3450—1¼ in. maple wheel, "Grip Neck," cannot slip out, detachable socket, 4 in set. ½ doz. sets in pkg

Doz. sets, **$1.95**

"DOMES OF SILENCE" INVISIBLE CASTERS

Tempered steel nickeled and polished 3 prong disc, ad-justed quickly requires no screws or nails, hurtful furniture can be moved si-lently, does not scratch, 4 in set 3 doz. sets in box.

1H3447—Size 4 ⅝ in diam.

1H3446— " 3 ⅝ " "

1H3445— " 2 ⅜ " "

1H3444— " 1 ⅞ " "

Doz. sets **75c**

BALL-BEARING PLATE CASTERS

Bright flush steel, large ball bearings. Ob-long plate, for desks, tables, refrigerators, etc. 4 in. sets ½ doz. sets in box.

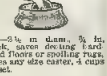
1H3432—1¾ in. wheel 1½x1½ in plate. Doz. sets **$3.10**

1H4015—1¾ in wheel, 1¾x1½ plate. Doz. sets **$3.40**

WOOD AND GLASS CASTER CUPS

Wood—2⅜ in. diam., ⅝ in. thick, felt bottom, takes any 2 inch caster. 4 cups in set, 3 sets each of oak and cherry finish.

1H3416—6 sets in box SET (4 pcs.) **20c** (Total $1.20)



Glass—3¼ in diam., ⅝ in. thick, saves denting hard wood floors or spoiling rugs, takes any size caster, 4 cups in set.

1H3421—6 sets in box SET (4 pcs.) **24c** (Total $1.44)

ONE PRICE

The bed-rock of this business is ONE PRICE. We have no method, if we had the will, to charge one set of prices to some customers and another set to other customers

1000 Shots for One Cent

The Gun that Shoots and *FLASHES* when you Pull the Trigger

That is why sales started at 100,000 a week and have been growing by leaps and bounds

Every pull of the trigger causes a big red flash to jump from the muzzle. And these flashes are absolutely harmless—the Ronson Repeater can be shot anywhere at anything in perfect safety. It complies with the laws of every State.

The National Toy

Boys not only hear it shoot but they SEE it shoot. That is why the Ronson Repeater is the most popular toy pistol ever offered.
The Ronson Repeater looks like a real automatic. It has the same feel and grip, the same gun metal finish. Comes loaded for 5,000 shots. Shoots automatically. Feeds automatically.

Watch for the Advertising

Sales of the Ronson Repeater started at 100,000 a week and have been growing steadily without one line of advertising. Figure for yourself what they will jump to when the big national campaign starts. This campaign is headed by full page space in The Saturday Evening Post and includes a long list of boys' publications.
Get some Ronson Repeaters on your counters now. Every boy and girl wants one. Every boy will be asking for the Ronson Repeater as soon as the advertising begins. Don't miss sales. Write us at once and let us give you complete information about this wonderfully fast-selling pistol. A 25 cent retailer; higher in the West. Start a letter our way today.

Ronson Redskin RELOADS

Nothing but the genuine Ronson Redskin Reloads will make the big flash in the Ronson Repeater. And they mean additional sales and profits for you when the boys learn they can get 1,000 shots for one cent.
The Ronson Repeater and Ronson Redskin Reloads are fully protected in U. S. A. and abroad under Letters Patent issued: Nov. 27, 1906; Aug. 2, 1910; July 23, 1918; Dec. 31, 1918; Nov. 8, 1921, and other patents issued and pending.

THE ART METAL WORKS
Newark, N. J.
For 35 years Makers of High Grade Metal Novelties

THE RONSON REPEATER

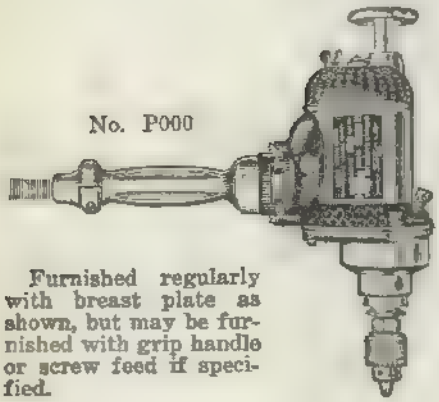
Trade Mark Registered Patented in U. S. A. and Abroad

Thor

THE WORLD'S GREATEST ELECTRIC DRILLS

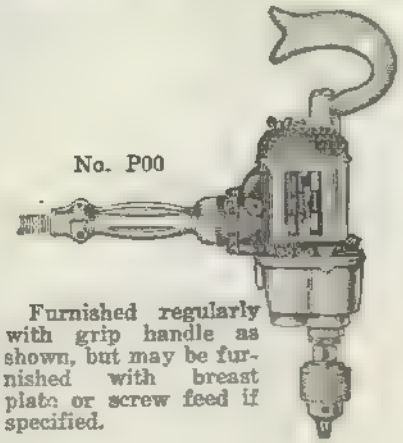
CAN BE OPERATED FROM ANY LAMP SOCKET

No. P000



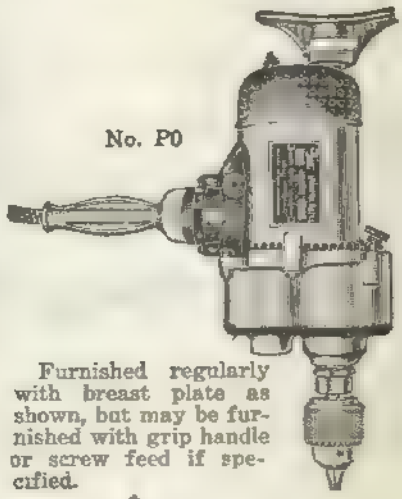
Furnished regularly with breast plate as shown, but may be furnished with grip handle or screw feed if specified.

No. P00



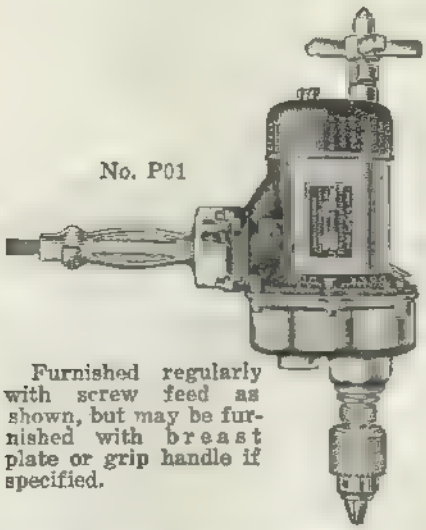
Furnished regularly with grip handle as shown, but may be furnished with breast plate or screw feed if specified.

No. P0



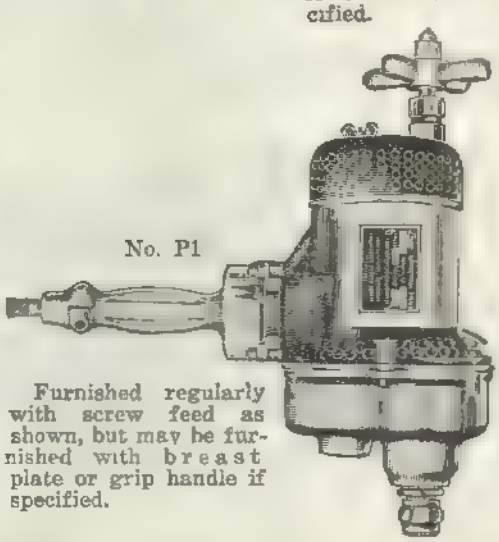
Furnished regularly with breast plate as shown, but may be furnished with grip handle or screw feed if specified.

No. P01



Furnished regularly with screw feed as shown, but may be furnished with breast plate or grip handle if specified.

No. P1



Furnished regularly with screw feed as shown, but may be furnished with breast plate or grip handle if specified.

Will drill a hole in metal or wood in one-fifth the time required by hand. Saves 80% in the cost of drilling.
All drills are furnished with Jacobs Chuck for straight shank twist drills.

CAPACITY			FREE SPEED			Distance From Side to Spindle Center, in.	L'gth Over-all, in	Watts Consumed Under Load	UNIVERSAL TYPE			
									For Alternating and Direct Current.		For Direct Current Only.	
Drilling, in.	Reaming, in.	Wood Boring, in.	Universal	Direct Current	W't, Lbs.				Nos.	Each	Nos.	Each
¼	5/16	⅜	2600	1900	6	1 5/16	10¼	260	P000U	$102 00	PMMMD	$102.00
5/16	¼	½	1400	1000	7	1 5/16	10¼	260	P00U	119 00	PMMD	118 00
⅜	5/16	½	950	750	12	1⅜	12½	500	P0U	136.00	P0D	136.00
½	⅜	⅝	800	675	17	1⅝	14½	550	P01U	161.50	P01D	161.50
⅝	½	¾	750	650	18	1⅞	12½	600	P1U	170.00	P1D	170.00
5/10	⅝	1										

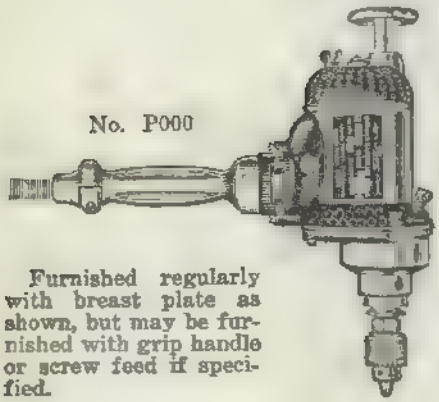
VOLTAGE DESIRED MUST BE SPECIFIED IN ORDERING.

Thor

THE WORLD'S GREATEST ELECTRIC DRILLS

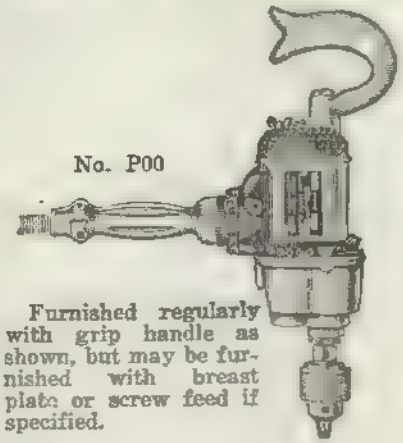
CAN BE OPERATED FROM ANY LAMP SOCKET

No. P000



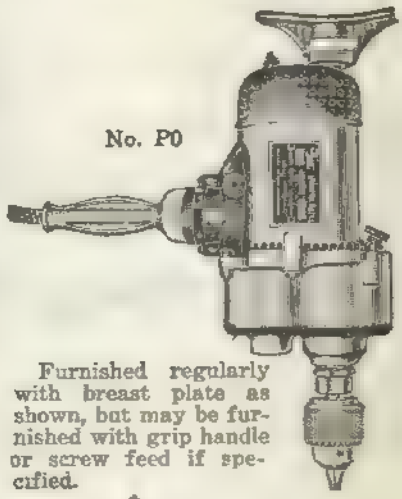
Furnished regularly with breast plate as shown, but may be furnished with grip handle or screw feed if specified.

No. P00



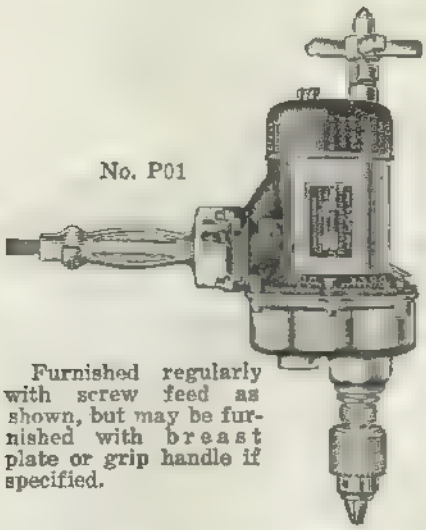
Furnished regularly with grip handle as shown, but may be furnished with breast plate or screw feed if specified.

No. P0



Furnished regularly with breast plate as shown, but may be furnished with grip handle or screw feed if specified.

No. P01



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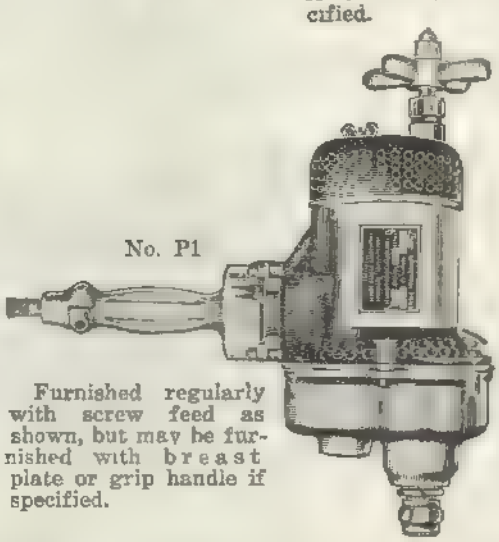


Furnished regularly with screw feed as shown, but may be furnished with breast plate or grip handle if specified.

Will drill a hole in metal or wood in one-fifth the time required by hand. Saves 80% in the cost of drilling.
All drills are furnished with Jacobs Chuck for straight shank twist drills.

CAPACITY			FREE SPEED			Distance From Side to Spindle Center, in.	L'gth Over-all, in	Watts Consumed Under Load	UNIVERSAL TYPE			
									For Alternating and Direct Current.		For Direct Current Only.	
Drilling, in.	Reaming, in.	Wood Boring, in.	Universal	Direct Current	W't, Lbs.				Nos.	Each	Nos.	Each
¼	5/16	⅜	2600	1900	6	1 5/16	10¼	260	P000U	$102 00	PMMMD	$102.00
5/16	¼	½	1400	1000	7	1 5/16	10¼	260	P00U	119 00	PMMD	118 00
⅜	5/16	½	950	750	12	1⅜	12½	500	P0U	136.00	P0D	136.00
½	⅜	⅝	800	675	17	1⅝	14½	550	P01U	161.50	P01D	161.50
⅝	½	¾	750	650	18	1⅞	12½	600	P1U	170.00	P1D	170.00
5/10	⅝	1										

VOLTAGE DESIRED MUST BE SPECIFIED IN ORDERING.

REPAIR CEMENT

HIBBARD, for repairing inner tubes.
No. 4—Hibbard, ¾x4 in. tubes, w't per doz. 1 lb. ....per dozen $0.80
ONE DOZEN IN A BOX. WE DO NOT BREAK BOXES

Nos.	5	6
Capacity, oz.	2	4
W't, doz., lbs.	2⅔	4
Per dozen	$1.80	2.50

ONE DOZEN IN A BOX

RUBBER SOLUTION

No. 1730—¾x4 in. tubes, w't per doz. 1 lbs., per dozen $0.80
ONE DOZEN IN A BOX

No. 1731—Capacity ½ pt., w't per doz. 3 lbs. .....per dozen $2.00

AIR DRYING ENAMELS

Gives a glossy finish, can be washed with soap and water, 4 oz. cans, w't per doz. 5 lbs.

No. 1765—Black	...per dozen	$4.80
No. 1766—Maroon	..per dozen	4.80
No. 1767—Blue	.....per dozen	4.80
No. 1768—Brewster Green, per dozen	.. ..	4.80
No. 1798—White	...per dozen	4.80
No. 1770—Gray	.....per dozen	6.00

"MANY USE OIL"

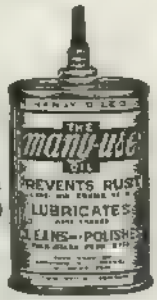
Prevents rust, cleans, lubricates, polishes, etc.

IN BOTTLES

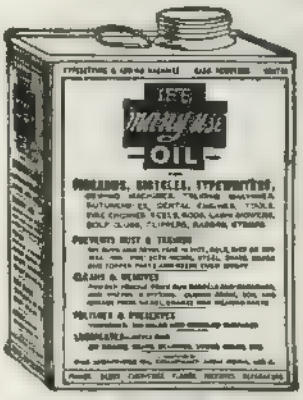
Nos.	1780
Cap., oz.	 1
W't, doz., lbs.	..... 3½
Per dozen	.....$1.70

ONE DOZEN IN A BOX

No. 1781—2 oz., handy oiler, convenient pocket size, reversible spout, w't per dozen 2 lbs., per doz. $3.40

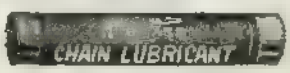


No. 1782—8 oz. handy oiler, pocket size, w't per doz. 4 lbs., per dozen $4.00
ONE DOZEN IN A BOX



No. 1783—¼ **gal.,** w't per doz. 54 lbs., per dozen $36.00
LOOSE

CHAIN LUBRICANT



No. 1760—Hibbard, wrapped in tin foil, black, without tin box, ⅞x3⅝ in., w't per doz. ⅔ lb. ..per dozen $0.40
ONE DOZEN IN A BOX

REVONOC OIL

REVONOC For-All-Things Oil is a high viscosity, low gravity lubricating oil unexcelled for its Cleaning and Polishing properties.

Penetrates into the pores of the metal, forming a film-like coating that defies all weather conditions.

Composed of ingredients absolutely harmless to the finest finished surface.

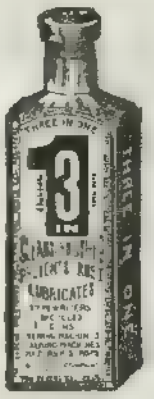
Full directions on every bottle.

No. 64G—1 oz. bottle, w't per doz. 2 lbs. .....per dozen $1.50

No. 65G—3 oz. bottles, w't per doz. 6 lbs. .....per dozen $2.50

No. 66G—3 oz. cans, 3½ in. high and 2¼ in. wide, w't per doz. 6 lbs., per dozen $4.00
ONE DOZEN IN A NEAT WOOD BOX WITH SLIDING TOP

COMBINATION OIL



Nos. 1785, 1786, 1787. No. 1788.

"THREE IN ONE," cleans preserves and lubricates.

Handy cans come packed in a handsome two-color patented window or counter display box.

No. 1785—1 oz. bottles, w't per doz. 2 lbs. .....per dozen $2.40
TWO DOZEN IN A BOX

No. 1786—3 oz. bottles, w't per doz. 6 lbs. .....per dozen $4.80

No. 1787—3 oz. cans, new size, 3½ in. high and 2¼ in. wide, w't per doz. 6 lbs. .....per dozen $9.60

No. 1788—8 oz. bottles, w't per doz. 16 lbs. .....per dozen $4.80
ONE DOZEN IN A BOX

REVONOC GUN OIL

REVONOC For-All-Things Oil is a high viscosity, low gravity lubricating oil unexcelled for its Cleaning and Polishing properties.

Penetrates into the pores of the metal, forming a film like coating defies all weather conditions.

Composed of ingredients absolutely harmless to the finest finished surface.

For Sewing Machines, Phonographs, Dictaphones, Typewriters, Automobiles, Motor Boats, Lawn Mowers, Separators, Bicycles, etc. Use a damp cloth on veneered or polished surfaces, and a dry cloth on metal.

Full directions on every bottle.

BOTTLES

Nos.	64G	65G
Cap., oz.	1	3
W't doz., lbs.	2	6
Per dozen	$1.50	2.50

CANS

No. 66G—Handy cans, 3 oz., 3½ in. high and 2¼ in. wide, w't per doz. 6 lbs. .....per dozen $4.00

NO. 64, TWO DOZEN; NOS. 65 AND 66, ONE DOZEN IN A CARTON.

THREE-IN-ONE OIL

Nos. 30G to 38G. No. 39G.

"3 IN 1," Cleans, Preserves, Lubricates

BOTTLES

Nos.	30G	31G	38G
Cap., oz.	1	3	8
W't, doz.	2	6	17
Per dozen	$2.40	4.80	9.60

CANS

Handy cans come packed in a handsome two color patented window or counter display box.

No. 39G—3 oz., new handy size, 3½ in. high and 2¼ in. wide,
per dozen $4.80

NO. 30G, TWO; BALANCE ONE DOZEN IN A BOX

MANY-USE OIL

No. 32G. No. 45G.

BOTTLES

No. 32G—Capacity 1 oz., w't per doz. 3½ lbs. .....per dozen $1.70

ONE DOZEN IN A BOX

CANS

No. 45G—2 oz. handy oiler, convenient pocket size, reversible spout, w't per doz. 2 lbs.,
per dozen $3.40

ONE DOZEN IN A BOX

No. 43G. No. 44G.

No. 43G—½ gal., w't per doz. 51 lbs., per dozen $36.00

LOOSE

No. 44G—3 oz., handy oiler, pocket size, w't per doz. 4 lbs.,
per dozen $4.00

ONE DOZEN IN A BOX

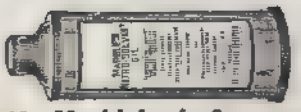
SOLVENT OIL

High grade solvent oils. They lubricate, remove dust, gum and dirt, polish and prevent rust and will not gum. Contains no acid.

No. 40G—Marble's Nitro Solvent, 2 oz. bottles,
per dozen $5.90

ONE IN A BOX

NITRO SOLVENT OIL



No. 99—Marble's, in 6 oz. cans, w't per doz. 6½ lbs. ..per dozen $10.90

HALF DOZEN IN A CARTON

GUN OIL

REMINGTON

For lubricating, cleaning and polishing. Removes and prevents rust on fine metal.

No. 22—2½ oz. bottles,
per dozen $3.70

ONE DOZEN IN A BOX

NITRO POWDER SOLVENT

For cleaning high power rifles, shot guns, revolvers and firearms of all kinds. It is a positive rust remover and will prevent rusting in any climate. Dissolves leading and removes metal fouling and the residue of any powder.

No. 9—Hoppe, in. 2 oz. bottles, per dozen $5.80

ONE DOZEN BOTTLES IN A CARTON

GUN GREASE

STEVEN'S

No. 18—Anti-Rust, for cleaning and protecting rifles, shot guns, pistols and bright metal of all kinds. A sure rust preventive, in 4 oz. tubes, w't per doz. 2½ lbs.,
per dozen $2.20

ONE DOZEN IN A BOX

TIFFIN CORN SHELLERS

One Hole

A right hand sheller with end hole, equipped with cast iron balance wheel having wrought spokes.

Frame is made of hardwood and shafts are wrought iron.

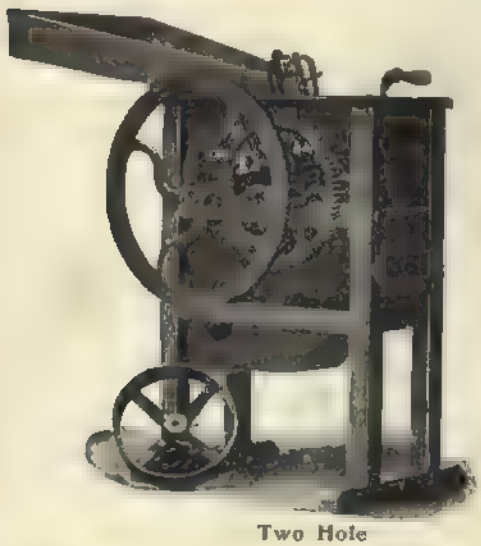
It is well finished and attractive in appearance.

All parts are carefully fitted, and the gearing is placed inside, thus preventing accidents and breakage.

The hopper is adjustable for large or small corn Weight 127 pounds.

Tiffin One Hole. Without fan . . . . each, **$33.00**

Tiffin One Hole. With fan.. . . . . each, **36.00**



Two Hole

Built in the same general manner as the one hole sheller and finished the same.

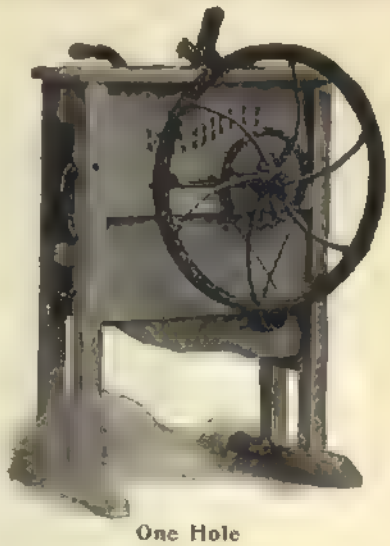
It is equipped with both crank and pulley so it can be used by hand or power

Its capacity is double that of the one hole sheller.

Each sheller is equipped with a feed table and fan. Weight 210 pounds.

Tiffin Two Hole. With fan.....each, **$70.00**

FAVORITE CORN SHELLERS



One Hole

A right hand sheller with end hole. It is very similar to the Tiffin, same size and weight, and varies only in the adjustment by means of a coil spring instead of a flat spring.

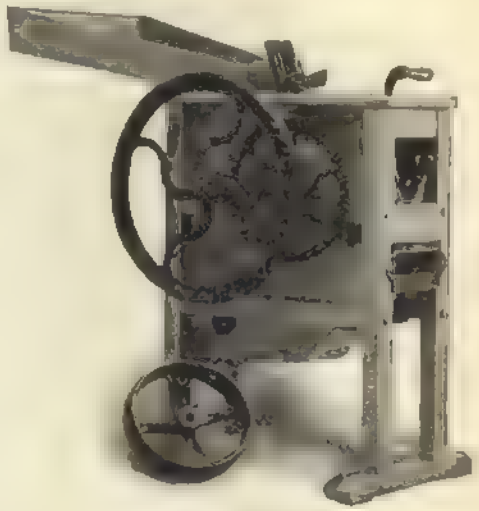
The adjustment is perfect and the operation is easy.

The finish is the same as the Tiffin.

Weight 127 pounds

Favorite One Hole. Without fan . . . . each, **$33.00**

Favorite One Hole. With fan.....each, **36.00**



Two Hole

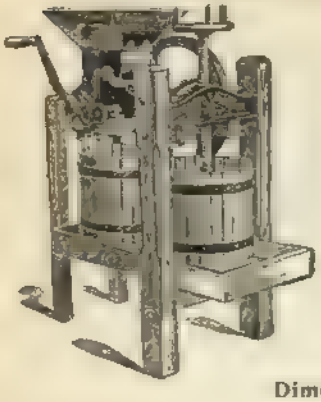
Built on the same lines as the Tiffin two hole sheller but adjusted by means of a coil spring instead of a flat spring.

Its capacity is double that of the one hole sheller.

Weight 210 pounds.

Favorite Two Hole. With fan, feed table and pulley .... each, **$70.00**

EAGLE CIDER MILLS



***Senior**

Capacity 6 to 8 barrels per day .....each, **$120.00**

Medium

Capacity 3 to 6 barrels per day .....each, **$94.00**

Junior

Capacity 2 to 3 barrels per day .....each, **$72.00**

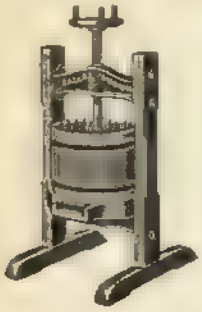
Dimensions

Size of mill.....	Senior	Medium	Junior
Height of posts, inches.	46	40	36
Size of posts, inches	5 x 2¾	3¼ x 2¾	3½ x 2½
Tubs, inside, inches..	14 x 15 ½	12 x 12	10 x 10½
Steel screw, inches	2 x 22	1½ x 20½	1¼ x 18½
Hoppers, inside, inches.	13 x 15	14 x 14	12 x 13
Flywheel, inches.....	22½	17	16
Weight flywheel, pounds	39	25	18
Floor space, inches.....	45 x 29	35 x 22	34 x 20
Weight, pounds.....	420	240	190

EAGLE CIDER AND WINE MILLS

Single tub of heavy hardwood with hardwood frame. The working parts are cast iron and the press screw is steel. Tub diameter inside is 12 inches and the height is 12 inches. The hopper is 7 x 10 inches in size and the mill has a capacity of about one barrel of cider per day. The flywheel is 16 inches weighing 17 pounds. The machine's floor space is 20 x 22 inches.

Single Tub. Weight 125 pounds.....each, **$40.00**



EAGLE WINE PRESSES

These presses have hardwood frames strongly bolted together. The beams are heavy cast iron capable of standing the most severe pressure.

Junior. Tub 10 x 11½ inches, screw 1¼ inches, weight 70 pounds, each, **$36.00**

CAN'T CLOG CIDER MILLS

A first class single tub cider mill and wine press for family use.

It grinds apples either large or small and it is not necessary to halve or quarter the apples.

It is easy to keep clean, as the roller can be removed for washing readily.

The tub is 12 x 12 inches inside. The press screw is of steel, in size 1¼ inch diameter.

The press is strongly constructed and neatly finished.

Capacity 1 to 2 barrels per day.

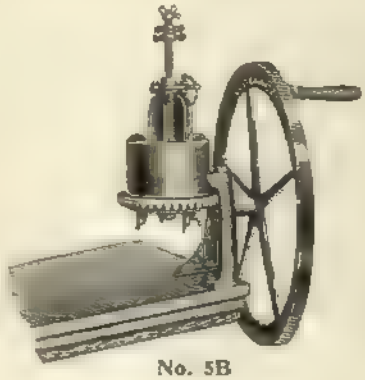
Can't-Clog. Weight 145 pounds.....each, **$50.00**

*Not carried in stock; will ship from factory.

*GREEN BONE CUTTERS

The bodies of these machines are enameled olive green, the hopper aluminum finish, trimmings red and gold.

STEARNS IMPROVED MANN'S PATTERN



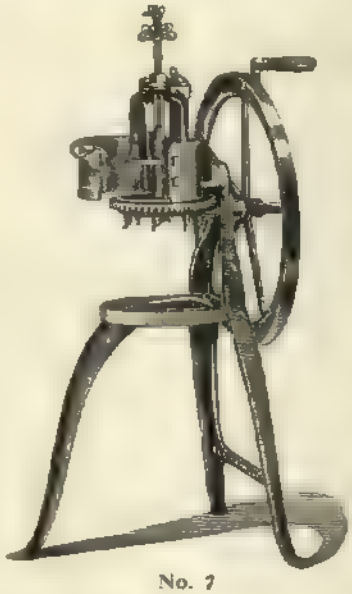
No. 5B

For flocks up to 100 hens. Has large, heavy balance wheel and improved automatic feed.

Hopper is 6 inches diameter, 4 inches deep. Four tempered knives.

On frame for bolting on a bench.

No. 5B. Weight 60 pounds. . ..each, **$28.00**



No. 7

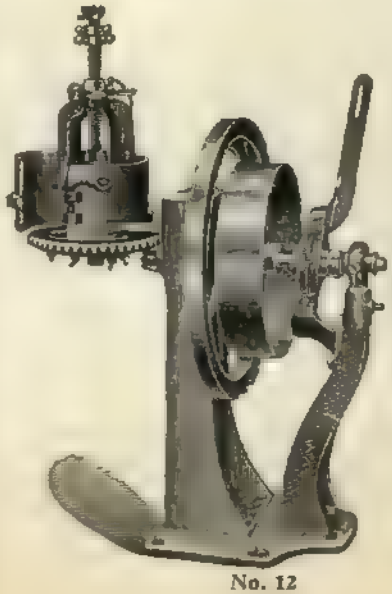
For flocks up to 200 hens.

Has a heavy balance wheel, making it easy to cut very hard bone.

Hinged hopper and strong iron stand, with shelf to hold the receptacle for cut bone. Six tempered knives. Hopper 7½ inches diameter, 5¼ inches deep.

The improved automatic feed can be set to feed slowly for hard bone or fast for vegetables, etc.

No. 7. Weight 110 pounds .....each, **$60.00**



No. 12

Designed for cutting large quantities of green bone.

Very heavy and made for continuous service.

Hopper 9 inches diameter, 8 inches deep. Capacity about 150 pounds per hour at 350 R. P. M. 1 to 2 H. P.

Diameter of pulley 16 inches, 3½ inch face.

No. 12. Weight 260 pounds. ..each, **$96.00**

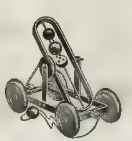
*Not carried in stock; will ship from factory.

TINKER TOYS

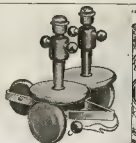
The bright colors make Tinker Toys the most attractive toys we know of. Non-poisonous dyes and rounded corners make them safe for children to play with. Few other lines can compare with them for originality and popularity. And national advertising has created a universal demand.

Tom Tinker—Hardwood boy in flesh color head, purple body, red, green and yellow arms, black, red, green and yellow legs.
F3637—¼ doz. in box.
Doz. **$4.00**

Tilly Tinker—A dancing novelty which will keep children interested for hours. 13 in. high, jacknetted colors, celluloid coated flesh color face and hands, black hair blue body. A new and secure tripod principles mak fity of the pedestal and the motion treatment. A slight touch will set Tilly in motion for several minutes.
F3636—½ doz. in box.
Doz. **$6.00**



Tumble Tinker—A pull toy in which the figure turns somersaults back and forth on a rod mounted in a revolving trapeze, red wheels, green metal frame, red, yellow and black acrobat, long strong cord with ball handle.
F3654—½ doz. in pkg.
Doz. **$8.00**



Whirley Tinker—A whirling pull toy—a man mounted on disk with a gilded steel back case, yellow body, green metal frame, arms and hands, purple base, red and blue wheels, green roadpost metal frame, long cord with ball handle.
F3613—½ doz. in pkg.
Doz. **$8.00**

"THE WONDER BUILDER" TINKER TOY

One of the cleverest builder toys on the market. Sticks are big and strong and the price is good

F3622—"The Wonder Builder" smooth finished hardwood sticks, wood bright ornamental wheels, circular hardwood blocks, instruction sheets showing designs, metal-tipped, elevators, screw-nuts cut set may be added to another to make more elaborate models, packed in litho box, 8 in. high in pkt
Doz. sets **$6.00**

The Tinker Twins, Tom and Belle

The famous Tom and Belle Tinker combined in set. Tom Tinker hard wood solid finish colored head, purple body red, green and yellow arms black, red, green and yellow legs Belle Tinker, natural color head, yellow body, purple dress black feet, purple, green and red arms.
F3720—½ doz. sets in box.
Doz. sets **$8.00**

Choo Choo Tinker—A new pull train that will take abrupt turns without upsetting. 11½ in. long black body, yellow top, green frame and red wheels, long strong cord with ball handle.
F3609—½ doz. in box.
Doz. **$6.00**

BLACKBOARDS and DESKS

COMBINATION EASEL BLACKBOARDS AND DESK SETS

Desk and easel blackboards, reinforced finish hardwood frames heavy black cardboard writing surface. Hen-y oord fasteners

F547—40x50 in. drop writing surface 27½x14 in. 3 section cabinet back, 3 brass double roll chart. ½ doz in crate.....Doz. **$14.00**

F548—40x31½ in. drop writing surface 20x17 in., 5 section cabinet back 6 brass double chart. 1 doz. crate
Each, **$2.00**
(Total, $6.00)

F549—47 x 30 in. drop writing surface 19½x13 in. 3 section cabinet back 4 brass double chart. 1 doz. crate
Each, **$3.80**

STAR VALUE

2 PIECE DESK SETS

F573—Natural varnished, satin finish wood, desk 28 in. high, 24 in. wide, 15 in. deep, 3 large hinged top scroll back stool, 15 in. high, 13½ in. seat, each of the largest desk value ever offered. Shipped in two separate boxes, weighs about 50 lbs. Each, carton
SET (2 pcs.) **$1.75**

F583—Golden oak finish, desk, ht. 29 in. body 23x13½ in. 3 pigeon hole compartments, cloth brackets pen drawer, lower book shelf, drawers finish, chair, ht. 27½ in., seat 12x11½ in. 1 set in crate, 60 lbs.
SET (2 pcs.) **$2.25**

F551—Light oak varnished finish, desk, ht. 28 in. body 24x13½ in., 3 pigeon hole compartments, book shelf, chair, ht. 28½ in., seat 12x11½ in. 1 set in crate, 60 lbs.
SET (2 pcs.) **$2.75**

F554—Golden oak finish, desk, ht. 28½ in. body 23½x13 in. 3 pigeon hole compartments, book case on left top, brass casters with cloth brackets, chair, ht. 28 in., seat 12x11½ in. 1 set in crate, 60 lbs.
SET (2 pcs.) **$3.50**

F552—Varnished genuine golden oak, desk, ht. 30 in. body 27x13½ in., roll top, 5 pigeon hole compartments, chair, ht. 27½ in., seat 10x11 in. 1 set in crate, 67 lbs.
SET (2 pcs.) **$6.00**

F555—Flat top, varnished genuine golden oak, desk, 30 in. long, top 27x13 in., 7 large side drawers, cabinet compartment, book shelf, ends, arm back, chair, substantially constructed, ht. 28½ in., seat 14x11½ in. 1 set in crate, 75 lbs.
SET (2 pcs.) **$10.00**

Popular Easel Blackboard

Size and quality of this cracker-jack number is hard to equal at this price.

F544—30x50 in., heavy drop writing surface 28x13½ in. chalk groove heavy oversize, stained and varnished hardwood frame 3 brass double roll chart. 1 doz. in crate
Doz. **$8.95**

WALL BLACKBOARDS

Heavy black cardboard writing surface, strong natural varnished wood frame, eyelets for hanging

F542—24x18 in. 1 doz. in crate
Doz. **$2.25**

F543—36x18 in. with chalk groove ½ doz. in crate
Doz. **$4.00**

F544—41½x23½ in. with chalk groove ½ doz. in crate
Doz. **$6.75**

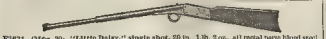
Put a Price Ticket on Every Item

AIR RIFLES

POP GUNS, TOY PISTOLS, ETC.

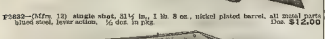
THE FAMOUS "DAISY" AIR RIFLES

The following numbers represent the best sellers from the well known "Daisy" line. All models will shoot either air rifle shot or darts except F2631, which is for shot only. All with walnut stocks and accurately sighted.

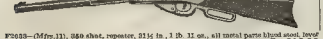


F2631 (Mfrs 20) "Little Daisy," single shot, 29 in., 1 lb. 3 oz., all metal parts blued steel break action ¼ doz in pkg ..... Doz. **$7.20**

F2632—(Mfrs 13) single shot, 31½ in., 1 lb. 8 oz., nickel plated barrel, all metal parts blued steel, lever action, ½ doz. in pkg. Doz. **$12.00**



F2633—(Mfrs.11), 250 shot, repeater, 31½ in., 1 lb. 11 oz., all metal parts blued steel lever actions ½ doz. in pkg . . Doz **$18.00**



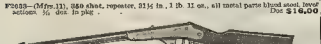
F2634 (Mfrs 30), 500 shot, automatic repeater 33 in., 2 lbs. 7 oz. all metal parts blued steel, lever action. ½ doz. in pkg ..... Doz. **$20.00**

F2635—(Mfrs. 9) 1000 shot, automatic repeater, 36 in., 2 lbs. 6 oz., all metal parts polished nickel steel lever action, 1 in box . . . . . Each, **$2.00**

F2637—(Mfrs. 25), new pump action, 40 shot, automatic repeater, 37 in., 3½ lbs., all metal parts blued steel, adjustable rear sight. 1 in box . . . . . Each, **$3.33**

F2636—(Mfrs. 40) military model, 50 shot length with bayonet 45 in., 3½ lbs., all metal parts blued steel, lever action, rifle barrel with adjustable rear sight, removable bayonet with hardwood rubber tip, heavy canvas shoulder strap with adjustable leather and fastenera. 1 in box Each **$3.33**

"UPTON" 1000 SHOT REPEATING AIR RIFLE



STAR VALUE

F2629—(Mfrs. 40), 1000 shot, automatic repeater length 36⅝ in., lever action accurately sighted, walnut stocks all metal parts blued steel gun assured perfect merchandise. Each wrapped in box. ½ doz in pkg. Doz **$17.00**

AIR RIFLE SHOT

Boy Scout "BB" Shot—.23(5½ lb shell tube with perforated side and sliding band to open shell to be taken out, contains 4 oz of shot.

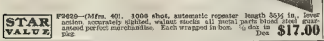
F2852—3 oz shells in box Doz. **$0.65**
CASE (100 shells) **5.00**

Drop Shot—
F2853—2 lbs in canvas bag. BAG (6 lbs.) **75c**
F2851—5 lbs. in canvas bag BAG (23 lbs.) **$3.30**

"SCOUT" AUTOMATIC TOY GUN

Shoots as fast as the trigger can be pulled, making a sharp cracking sound like a cap pistol without the use of caps.

Note: As no caps are used, fireworks license is not necessary to sell these guns.



F2644—18¼ in., automatic, Winchester rifle type, blued steel barrel and repeating chamber, rear sight front sight, automatic hammerless action, smoke effect. Each in box 1 doz. in pkg Doz. **$1.25**

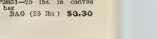
"SCOUT" AUTOMATIC TOY PISTOL

Note: As no caps are used fireworks license is not necessary to sell this item

F2628—5½ in. long, heavy blued steel barrel and stock, shaped quick pull trigger patent diaphragm action, makes a loud report, each in box 1 doz. in pkg . . Doz. **$0c**

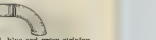
IMPORTED WOOD POP PISTOLS

Each, with cork and string. Makes loud report when suction rod is pushed through barrel



Pistol—White enameled finish, red, blue and green striping
1 doz. in pkg
F8726—8 in. . . . . Doz **+0.78**
F8727—9½ " . . . . . **+1.00**

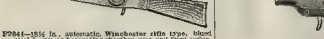
Dagger Pistol 8¾ in., natural finish, red and b e trim extra loud . . . . . Doz. **+1.75**
F8728—1 doz. in pkg . . . . .



Cylinder Gun—11½ in., natural finish, red and blue trim, extra loud
F8730—1 doz. in pkg. . . . . Doz. **+1.75**

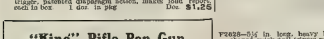
"King" Rifle Pop Gun

A rod but 25 cent leader



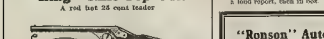
F2626—(Mfrs. 13), 37 in. long lever action, hornblower, shoots corks, highly polished round parts, stained stocks, each in box, with cork and string in carton. 1 doz. in pkg. Doz. **$2.10**

TARGET AUTOMATIC POP GUN



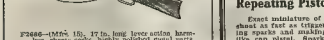
F2639—17 in. automatic ejector action, long string with cork, stained wood stock and fine tooling, nickel plated finish in polished box with instructions. 1 doz. in pkg Doz. **$2.20**

"KING" RAPID FIRE POP GUN



F2625—(Mfrs 20) 27 in. long, wt. 13½ oz., loads automatically by pulling with both forward and backward motion of the hand piece, no flying cork, highly polished all metal parts, walnut stock, ½ doz. in carton. Doz. **$7.20**

"LITTLE DAISY" RIFLE POP GUN



F2644—(Mfrs. 14) 24 in., harmless, shoots corks, 46c, single shot, break action, all metal parts blued steel, walnut stock, each with cork and string ½ doz. in carton Doz. **$8.40**

"Ronson" Automatic Repeating Pistol and Reloads

Exact imitation of large automatic. Will shoot as fast as trigger can be pulled, shooting sparks and making sharp cracking noise like cap pistol. Sparks absolutely harmless.

F2855 — 4¾ in., black enameled body, blued and nickel-plated parts, shaped quick pulling trigger. Fast glazed paper inserted in muzzle produces same effect as revolver when fired. Shoots 8,000 times before requiring a reload. Really remarkable pistol for the price. Complete with box of every static. Each in box, with full instructions. 1 doz. in display carton.

Doz. **$2.00**

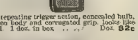
F2856 — Reloads for F2855 pistol. 1 roll shots for 25 Each roll of genuine capsite, glazed paper one. 12 doz. in display box

Doz **38c**
(Total $4.56)

IMPORTED WATER PISTOLS

F1065—"Sure Shot," 5 in., bright natural finish metal body and grip, dummy magaz., brass barrel, lever action on side Shoots once or several times. 1 doz. in box Doz **39c**

F1068—"Zip," 6 in., repeating trigger action, concealed bulb, brassed barrel, brass body and cartridge grip, looks like an automatic pistol 1 doz. in box . . . . Doz. **52c**

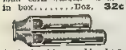


F1069 "Daisy Automatic," 8¼ in., gun metal finish steel body, nickel plated barrel, black composition plated grip, trigger action, operates like genuine automatic pistol, shoots small repeating or large continuous stream shots in carton with directions ¼ doz in box Doz **$2.00**

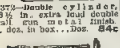
METAL WHISTLES

Extra loud nickel plated brass bodies, unless stated.

F2374—Warbler, 3 in. cairo head cork warbler 2 doz in box.....Doz. **32c**



F2372—Double cylinder, 3½ in. extra loud double call cun metal finish. 1 doz. in box...Doz. **84c**



F2353—Boy Scout, 2¾ in. gun metal finish brass, thrill double call, ring end, official scout emblem 1 doz. in box. Doz. **$1.25**

"JOLLY JINGLE" TOY ALARM CLOCK

F2620—Ht. 2½ in., dial 2 in., nickel plated bell, case and movable, groove strut off bridle winds up clock, bell rings and hands move, each in box. 1 doz. in pkg. Doz. **$2.10**

"VICTORY" CANARY SONGSTER

When blown canary warbles naturally, also moves tail and bill.

F2365—Ht. 4½ in. brass throughout 3 in canary, water bowl 5 in. rubber tube with metal mouthpiece, each in box with instructions. 1 doz in pkg. Doz. **$1.85**

IMPORTED ROOSTER WITH FEATHER

F2805—4 in. bright metal rooster natural features, bright color feather 3 doz in box Doz. **33c** (Total 99c)

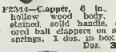
PEWTER WARBLING WHISTLE

F2364—3 in. singing bird natural brilliant colors. Asstd 3 doz. in box. (Total $1.17) Doz. **38c**

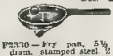
CARNIVAL RATTLES

Unrivaled noise makers.

F2744—Clapper, 6 in. silk hollow wood body, red stained, solid handle, colored ball clappers on steel springs. 1 doz. in box Doz. **38c**



F2730—Fry pan, 5½ in. drum, stamped steel 5 colored clappers, tin covered handle, 1 doz. in box. (Total 84c) Doz. **42c**



F2349 — Crickets, 8¼ in. hardwood turned wood handle, stained ratchets, strong clappers. 1 doz. in box Doz. **75c**

STAR VALUE

Carnival Rattler. Heavy tin polished stamped tin metal crank

each in carton

F2347 — 1 doz. in box. Doz. **78c**

IMPORTED BRIGHT SILVER FINISH TOP

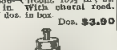
F8858—Circum. 12 in., ht. 6¾ in. choral reed pop effects through top fastened to wood handle. ½ doz. in box. Doz. **$2.65**

IMPORTED MUSICAL TOPS

Brilliant rainbow and embossed silver bands, pop effects through top, fastened to wood handles, brass musical reeds. Complete with string. Circum. Ht. In pkg. In. Doz. Doz.

F8853—8¼ 3¼ 3 **$0.60**
F8853—10¼ 3½ 2 **.80**
F8854—11 6 1 **2.00**
F8857—13½ 8¾ ½ **3.80**

F8856—Circum. 15¾ in., ht. 8 in. With choral reed. ½ doz. in box Doz. **$3.90**



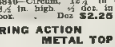
Heavy tin body variegated color striped, spring act on spiral rod, sleeve when spun

F8845—Circum. 7½ in., 3 in high 1 doz in box Doz. **80c**

F8846—Circum. 13 in., 8¾ in. high ½ doz. in box Doz. **$2.25**

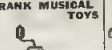
SPRING ACTION METAL TOP

Strong spring, automatic winders.



F2420—2½ in. diam. red yellow and blue stripes, whistles when revolving 2 doz in box Doz. **87c** (Total $1.74)

IMPORTED "REVOTINA" CRANK MUSICAL TOYS



Top Shape—Brilliant rainbow stripes, embossed silver band, musical reed.

Inches. Circ. Ht. Doz.

F6869—8½ in. 2 **$0.45**
F6872—12 " 3 **1.05**

F6868—Coffee mill shape, ht. 4½ in. brilliant rainbow stripes and embossed silver band, musical reed, wood handle. 1 doz. in box. Doz. **96c**

F8573—Embossed silver finish, 14½ in., nickel embossed butterfly band ½ doz. in box Doz. **$2.25**

IMPORTED MUSICAL HUMMING TOP

F8849—Circum. 13 in., ht. 6½ in., brilliant rainbow embossed silver bands, pop eyes, sound and fastened to wood handle musical reed. Complete with string 1 doz. in box Doz. **$1.10**

BELL AND GONG FLOOR TOYS

F2383 1 wheel push toy 8x3 in 2 nickeled seats, 18 in painted wood hand r 1 doz. in box Doz. **$1.25**

F2384 2 wheel push toy, 8x3 in., silvered steel frame 2 nickeled bells 2 metallic head hammer, 18 in stained wood handle 4 doz in box ... Doz. **$2.10**

F2690—Two 8 in nickeled wheels 5¼x15½ in., coppered steel frame, coppered lever hammer strikes 3 nickeled bells, aluminum finish horse, painted rider, 17½ in. painted wood handle ½ doz. in box. Doz. **$2.25**

CARNIVAL RATTLE

F2350 "2-in-1 Horn & Cricket," 9½ in smooth finish wood stained ratchet and cricket clamp, hollow turned wood handle with brass rod 1 doz. in box Doz. **84c**

IMPORTED NOVELTY FLOOR TOY

F6723—2 wheel pull toy, 8 in two 4½ in blue enameled metal wheels, 1½ in. nickel goog, 4 in cotton covered sheep on roller frame, gilt metal harness. ½ doz. in box..... Doz **$4.00**

MUSICAL STICK HORSE FLOOR CHIME

F8804—Pull length 35 in roller 9½ in., natural finish turned wood wheels and stick, varicolor metal chime roller, hand painted horse head. ½ doz. in box Doz. **$10.50**

IMPORTED "REVOTINA" MUSICAL PULL TOYS

F8868—17 in. long 11½ in girth, "twin rollers 7½ in. which litho strips 4 colors, adjustable wire handle, polished wood grip. 2 reels ½ doz. in box. Doz. **$2.65**

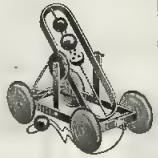
F8863—17½ in. long 10½ in girth, 4 color bright litho strips, heavy tin roller adjustable wire handle wood grip. 2 reels 1 doz. in box .. Doz. **$1.35**

TINKER TOYS

The bright colors make Tinker Toys the most attractive toys we know of. Non-poisonous dyes and rounded corners make them safe for children to play with. Few other lines can compare with them for originality and popularity. And national advertising has created a universal demand.

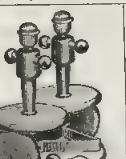
Tom Tinker—Hardwood balls, flesh color head, purple body, red, green and yellow arms, black, red, green and yellow legs.

F3637—½ doz. in box Doz. **$4.00**



Tumble Tinker—A pull toy in which a Tinker acrobat slides back and forth on a rod mounted in a revolving trapeze, red wheels, green metal frame, red, yellow and black acrobat, long strong cord with ball handle.

F8854—½ doz. in pkg. Doz. **$8.00**

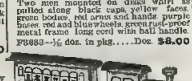


Whirley Tinker—A whirling pull toy. Two men mounted on disks whirl as pulled along black caps, yellow faces, green bodies, red arms and hands, purple knees, red and blue wheels, green rust-proof metal frame, long cord with ball handle

F8883—½ doz. in pkg..... Doz. **$8.00**

Tilly Tinker—A dancing novelty which works on the counter balance principle. 12 in high, permanent colors, celluloid casting, flesh color face and hands, black hair, blue body. A new and secure tripod provides stability of the pedestal under roughest treatment. A slight spin will keep Tilly in motion for several minutes

F8838—½ doz. in box. Doz. **$6.00**



Choo Choo Tinker—A new pull train that will take abrupt turns without falling. 18½ in. long black body, yellow top green frame and red wheels, long strong cord with ball handle

F8884—½ doz. in box Doz. **$8.00**

THE WONDER BUILDER TINKER TOY

One of the cleverest builder toys on the market.

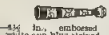
F3625—"The Wonder Builder," smooth finish turned wood dowels, metal bushes, grooved ends, fit in circular hardwood blocks, instruction sheets showing derricks, merry-go-round, elevators, aeroplanes, etc., one set may be added to another to make more accurate models, each set in litho box. ½ doz. sets in pkg. 6 doz. sets, Doz. sets, **$6.50** Doz. sets **$6.00**

Put a Price Ticket on every article. They turn SHOPPERS into BUYERS.

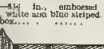
NOISY TOYS

Everything for carnivals, conventions, celebrations, etc. This is the right line at the right prices

IMPORTED DECORATED TIN TRUMPETS

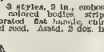


F6806—4½ in., embossed silver finish, red, white and blue striped. Asstd 3 styles in box..... Gro. **$1.75**

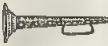


F6890—3 styles, 9 in., embossed silver, gilt and colored bodies striped and floral decorated flat handle, china mouthpiece. good reed. Asstd. 2 doz. in box. Doz. **38c**

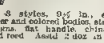
F6881—3 styles, 9½ in., embossed gilt, silver and colored bodies striped and floral designs. flat handle china mouthpiece good reed Asstd 2 doz in box Doz. **38c**



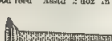
F6882—9½ in., basket embossed silver finish body, flat handle, china mouthpiece 2 doz. in box. Doz. **42c**



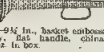
F6883—3 styles, 12 in., embossed gilt, silver and colored bodies stripes and floral designs, colored cord wound, flat handle, china mouthpiece. Asstd 2 doz in box. (Total $1.30) Doz. **68c**



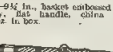
F6885—13 in., alphabet and juvenile litho designs flat handle china mouthpiece 1 doz. in box Doz. **78c**



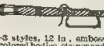
F6884—3 styles, 13 in., embossed gilt, silver and colored bodies, stripes and full decorated, flat handle, china mouthpiece. Asstd. 2 doz. in box Doz. **62c** (Total $1.60)



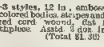
F6888—3 styles, 12½ in., embossed silver, gilt and colored bodies, colored stripes and floral decorations, vari-color chenille wound cord, wire handle double reed. Asstd 1 doz. in box Doz. **89c**



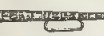
F6889—12½ in., red, white & blue striped, wound wire handle, vari-colored chenille wound. 1 doz. in box..... Doz. **92c**



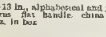
F6891—13½ in., brigh silver finish chenille wound, round wire handle var color chenille wound 1 doz in box .Doz. **$1.10**



F6862—Rattle trumpet, 13½ in., bright silver finish, chenille wound, wire handle 1 doz. in box.....Doz. **$1.18**



F6892—16½ in., embossed silver gilt and colored bodies, colored stripes and floral decorations, vari-color chenille wound, flat handle. Asstd 1 doz. in box. Doz **$1.18**



F6886—3 styles, 15 in., embossed gilt silver and colored bodies, stripes and floral design, round handle vari-color chenille wound. Asstd 1 doz in box Doz. **$1.36**

French Horn Trumpet—Bright silver finish, chenille and cord wound, tassels, double reed. Doz.

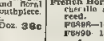
F6898—13½ in. 1 doz in box **$2.25**

F6900 15½ " " " " **4.60**

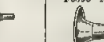
Firemen's Trumpet—Bright silver finish, red cord wound, tassels, large round handle, extra loud double reed. ½ doz. in box

F6896 Doz **$2.75**

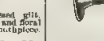
F6897—13 " " " " **5.25**



F6894—13½ in., bright silver finish round handle, gold braid and chenille wound, silk tassels, double reed ½ doz. in box. Doz. **$3.50**



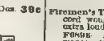
F6899—17½ in., bright silver finish, gold braid and chenille wound, round wire handle, long call 1 doz in box Doz **$2.75**



F6905—14½ in., bright silver finish gold chenille and silk ribbon wound round handle, silk tassels, double reed. ½ doz. in box ..... Doz **$6.50**

METAL TRUMPET

Heavy metal, well finished throughout.

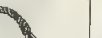


F2281—7½ in. long turned wood mouthpiece, wide bell bor ze, assid green, red, blue, etc 4 doz in box Doz **39c**

STEEL TAMBOURINE

F2530—6 in. " " " metal discs for making loud noise when shaken, tinted litho finish, assid. red, gray, blue and yellow. Asstd. 1 doz. in box. Doz. **80c**

MUSICAL TUBEPHONES



Stained heavy wood body, heavy brass sound tubes, brass edges, tubes fastened to frame by heavy strings. Clear accurate bell tones. Each with two wood hammers and booklet of instructions.

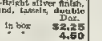
F2283 13x4 in., 8 keys. ½ doz in pkg Doz **$8.00**

F2286—13x4½ in., 10 keys 1 in box Each **$1.25**

F2287—15x4½ in., 12 keys 1 in box Each **$1.60**

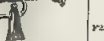
TOY MUSICAL INSTRUMENTS

F2331 Flu " " nets, painted and natural finish bodies shaped wood mouth piece Asstd. 3 doz in box Doz **39c** (Total $1.17)



F2329—Flute, 13 in., extra heavy metal nickel plated, 9 notes shaped wood mouthpiece. 1 doz in box Doz. **78c**

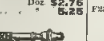
F4633—Cornet, 6½ in., brush brass finish, wide mouth, keys with brass rod tremolo. 1 in box..... Each, **85c**



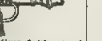
F4632—Cornet, 6½ in., double twist, center action keys with brass rod tremolo, extra sweet 1 in box Each, **$1.30**

NOVELTY HORNS

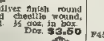
Excellent for party favors, souvenirs and carnivals.



F3329—Fine novelty, 6 in., heavy fiber, red, white & blue paper covered bowl imitates baby crying "mama and papa" in box..... Doz **34c**



F2282—Combination rattle and horn, 7½ in. long, metal mouthpiece, bell rattle attachment, gold color combination finishes, red blue and pink etc. 4 doz in box . Doz **42c**



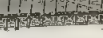
F2289—Jazz wand, 7 in. bright metal turned wood mouthpiece loud brass reed, imitates musical instruments and birds etc. 2 doz in box,..... Doz. **79c**

IMPORTED STRAWBOARD HORN

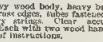
F9562—12 in., heavy strawboard, covered with glazed paper red, white and blue stripes wood mouthpiece, loud reed 6 doz. in box,... Doz. **17c** (Total $1.05)

TAPERING TIN HORNS

Turned wood mouthpiece, loud brass reed, well finished



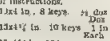
F2275—8½ in., bright tin. 6 doz. in box Gro. **$2.00** Doz. **18c**



F2318—12 in., red white & blue wide bottom, extra deep tone. 1 doz in box Doz. **65c**

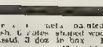
NOVELTY TAPERING HORNS

Red, white and blue glazed paper covering, wood mouthpiece.



F2304—Whistling, 7¾ in., extra heavy cardboard, very loud whistle, 3 doz. in box (Total 68c) Doz **34c**

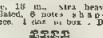
F2326—"Auto Toot," loud reed, 7 in. 2 doz. in box . . . . . (Total 68c) Doz. **34c**



F2342—"Wonder," 14½ in., extra heavy 1 doz. in box..... Doz. **74c**

F2335—"Mama Horn" 7½ in. fiber board, glazed paper covered, litho patriotic colors and face, mouth piece and reed. 1 doz. in box. Doz. **34c**

IMPORTED NOVELTY AUTO HORN



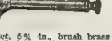
F9309—4½ in., double reed bright silver finish, wire handle 3 doz. in box Doz. **62c** (Total 81c)

BELL BOTTOM TIN HORNS

Turned wood mouthpiece loud brass reed well finished

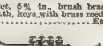
Polished—Neat, highly polished

		Doz
F2300	10½ in. 3 doz in pkg	37c
F2301	12 " 1 " box	89c



Colored—Brilliant red and blue

		Doz
F2308	10½ in. 3 doz. in box	$0.39
F2310	14 " 1 " "	.87



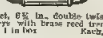
Red, White & Blue—Turned in bright colors

		Doz
F2315	10½ in. 3 doz. in box	$0.42
F2276	12 " 1 " "	.65
F2322	22 " extra large bell ½ doz. in box	.85
		Doz. $1.65

JAP SHELL TRUMPET

F9544—2½ in. shell with colored cord, wood mouthpiece strong voice 2 red stripes around shell. 6 doz. box. Doz. **30c** (Total 60c)

IMPORTED CRYING HEAD



F6865—3 in., double composition head painted features and hair with bellows in center which makes loud noise when squeezed 2 doz. in box. Doz. **87c** (Total $1.75)

WHISTLING RETURN BALL

F2640—Circum. 6 in. hollow, assid colors, elastic with finger ring, loud whistle when bounced 1 doz. in box .Doz. **66c**

CALLIOPE WHISTLE

F2296—7 in. metal cylinder assid color enameled wood bell and mouthpiece, noise like calliope 1 doz. in box Doz **78c**

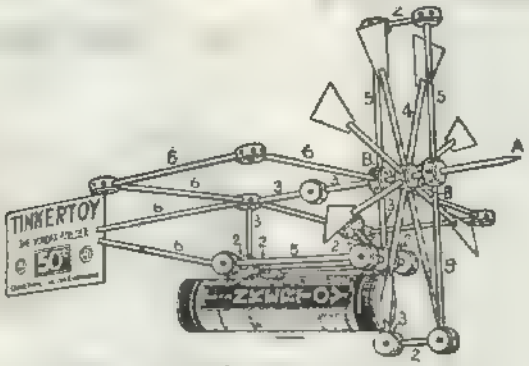
"Baby Jeanette" Toy Phonograph

A real miniature phonograph that plays any 10 in. record. Kiddies can have their own concerts. Guaranteed mechanically perfect. Factory guaranteed with each machine.

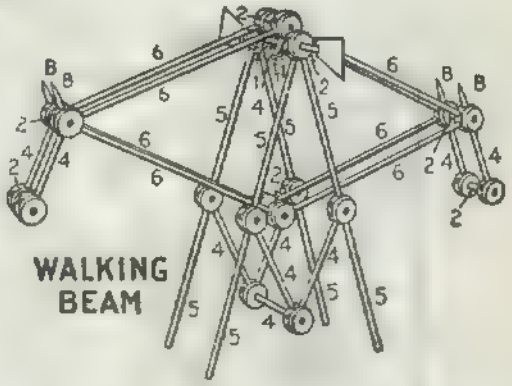
F2324—8x7 in., made of 1 pc. heavy steel, mahogany enamel finish, extra strong long running motor, guaranteed to play one 10 in. record without rewinding, speed regulator, 7 in. green felt covered turn table, loud clear tone. Each in shipping carton

Doz **$21.00** Each, **$1.95**

TINKER TOY



MONOPLANE



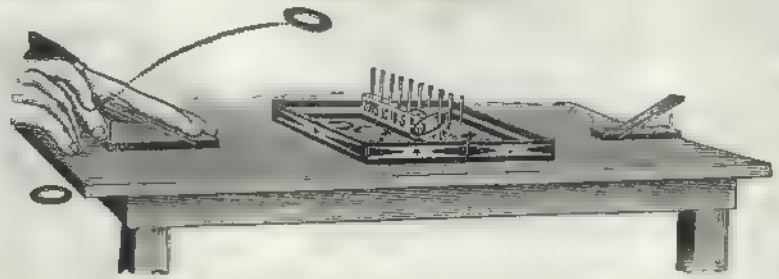
Set consists of 73 Smooth, Round Rods and Spools of Unvarnished Hardwood, W't Per Doz. Sets 14 Lbs.

No. 1—W't per doz. sets 14 lbs. .....per dozen sets *$7.80*

The 65 cent toy that holds all world's records for sales durmg the past year Clean and white, without paint or varnish, they can be taken apart and put together to form **a thousand different marvelous motion figures.** A new toy for every day in the year, all for the cost of one. Complete and easy instructions packed with each toy. Tinker Toy Book "B," consisting of wonderful new models made with two sets and more, is furnished free through dealers to two-set purchasers or present owners of **Tinker Toys** on the purchase of a second set. **Tinker Toys** are packed in unique tubular boxes, ready for purchasers to stamp, address and mail at one-pound rates. No wrapping required.

No seasons with **Tinker Toy.** Every day is Christmas.

JUMPY TINKER



"The Indoor Sport that Keeps Us Young."

A live, active, snappy game that all the family will play. It consists of two courts divided by a picket fence, two catapults or spring boards, five rings to be projected from a distance to encircle the pickets. Unique variations in the system of scoring makes the play exceedingly interesting.

No. 26—W't per doz. 7 lbs. .....per dozen *$4.20*

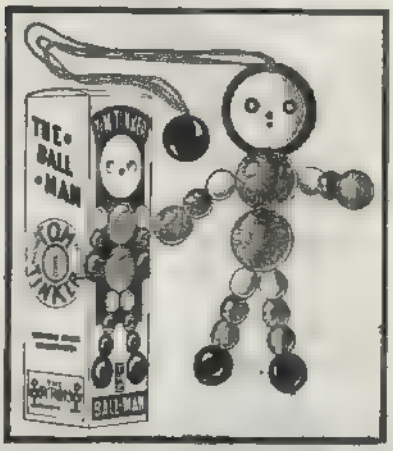
ONE SET IN A STRONG BOX, WITH A FOUR COLOR LABEL SHOWING THE GAME IN ACTION

SHIPPING FACILITIES

With our immense stock and very modern facilities for shipments we are enabled to fill orders with unequaled promptness. On some of the roads we have special through cars which enable us to reach distant points 24 hours ahead of shipments made in the regular way.

TINKER TOYS

TOM TINKER



There is a period in a baby's life between the rattle and a real doll that has not, up to this time been fully met by those engaged in the business of making play, but now comes Tom Tinker the Ball Man, whom you will agree is just the one to brighten this important period. He consents to being thrown or dragged around and treated ever so roughly without a murmur of complaint. He has no sharp corners to bruise or injure little hands, just nice, smooth, wooden balls strung on four strong cords, which extend to a handle ball about a foot above his head. His many colors are made from harmless dyes that do not lick off. A most lovable companion for any child. Of course Tom can be dressed up in any style.

No. 25—W't per doz. 4½ lbs. .....per dozen *$7.80*

ENCLOSED IN A VERY ATTRACTIVE BOX. PACKED ONE DOZEN IN A FIBRE CASE

BELLE TINKER

Fortunate in her given name, Miss Belle Tinker lives up to its highest meaning. All little boys and girls are just as fond of her as they can be, not alone because she is Tom's twin sister, but on account of her charming personality, beauty of form and face and her lovely disposition. Never out of sorts, always gracious and ever ready to amuse and entertain; her colorings are all her own and will not shed and as she is made of wood no harm can possibly come to her.

No. 30—W't per doz. 4½ lbs. .....per dozen *$7.20*

ONE IN A BOX; ONE DOZEN IN A CARTON

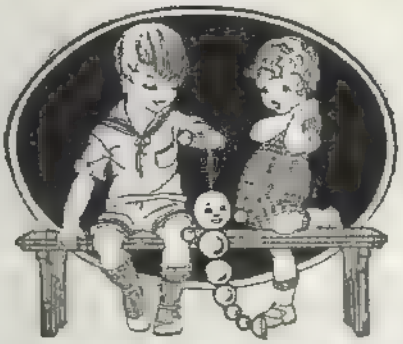
RATTLEBOX TINKER

Simple pull toy for a young walking baby. Noisy enough to interest but not disturb. The possible sales for this item are large. Inexpensive.

No. 37—W't per doz. 7 lbs. .....per dozen *$6.00*

ONE IN A BOX; ONE DOZEN IN A CASE

SIREN TINKER



Based on the childhood love for beads on a string but enlarged to balls of interesting size, graduating from large to small and forming a fascinating "Siren" doll. The balls slide backward and forward and take their normal position instantly as wanted. A genuine novelty, waterproof colors. Body size 8½ in.

No. 38—W't per doz. 4½ lbs. .....per dozen *$7.20*

ONE IN A BOX; ONE DOZEN IN A CASE

Our Very Best is the Very Best.

TOLEDO PIPE THREADING MACHINES

With ratchet threading device and five dies, right hand threads with guides. Dies changed instantly by means of the pawl in ratchet head.

No. 00. Capacity ⅛ to ¾ inch pipe inclusive, weight 12 pounds ..... per set, **$20.00**

Extra Dies Only

Size, inches	⅛	¼	⅜	½	¾
Right hand ..... per set,	**$2.00**	**2.00**	**2.00**	**2.00**	**2.00**
Weight, ounces	5	4	4	2	2

Die Heads, Complete with Dies

Size, inches	⅛	¼	⅜	½	¾
Right hand ..... per set,	**$3.00**	**3.00**	**3.00**	**3.50**	**3.50**
Weight, pounds	¾	¾	¾	¼	4

With adjustable threading device and three sets dies Right hand threads

No. 0. Capacity ⅛ to ¾ inch pipe inclusive, length over all 24 inches, weight 10 pounds, complete with R. H. dies ..... per set, **$16.00**

Extra Dies Only

Size, inches	⅛	¼	⅜	½	¾
Right hand ..... per set,	**$2.50**	**2.50**	**2.50**	**2.50**	**2.50**
Weight, ounces	2	2	2	3	3

With adjustable threading device and four sets dies, right hand threads

No. 1. Capacity 1 to 2 inch pipe inclusive, weight 23 pounds ..... per set, **$24.00**

Extra Dies Only

Size, inches	1	1¼	1½	2
Right hand ..... per set,	**$2.50**	**2.50**	**2.50**	**2.50**
Weight, ounces	7	6	6	5

Extra Bushings

Nos.	**1-10**	**1-11**	**1-12**	**1-14**
Size, inches	1	1¼	1½	2
Each	**$0.50**	**.50**	**.50**	**.50**
Weight ounces	12	10	8	6

With adjustable ratchet threading device and four sets dies, right hand threads

No. 1A. Capacity 1 to 2 inch pipe inclusive, weight 28 pounds ..... per set, **$30.00**

Extra Dies Only

Size, inches	1	1¼	1½	2
Right hand ..... per set,	**$2.50**	**2.50**	**2.50**	**2.50**
Weight, ounces	7	6	6	5

Extra Bushings

Nos.	**1A4**	**1A2**	**1A3**	**1A21**
Size, inches	1	1¼	1½	2
Each	**$0.50**	**.50**	**.50**	**.50**
Weight, ounces	12	10	8	6

With adjustable ratchet threading device and two sets dies, right hand threads.

No. 1½R. Capacity 2½ and 3 inch pipe, weight 47 pounds ..... per set, **$50.00**

Extra Dies Only

Size, inches	2½	3
Right hand ..... per set,	**$4.00**	**4.00**
Weight, pounds	¾	½

No. 1½R12. Ratchet bushing weight 1 ounce ..... each, **$0.60**

No. 1½R21. 2 inch bushing for special tool, weight 1 pound ..... each **.90**

No. 1½R22. 2½ inch bushing, weight 1¼ pounds .. each, **.90**

Geared, adjustable, with four sets dies, ratchet and driving cross.

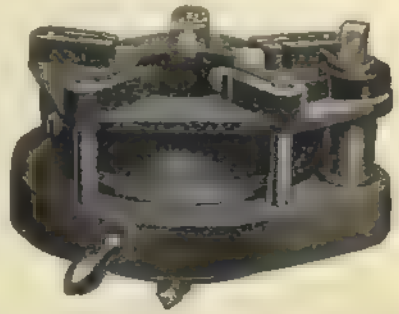
No. 2. Capacity 2½ to 4 inches, weight 103 pounds .... per set, **$100.00**

Extra Dies Only

Size, inches	2½	3	3½	4
Right hand ..... per set,	**$8.00**	**8.00**	**8.00**	**8.00**
Weight, pounds	2⅛	2	1¾	1⅝

Extra Bushings

Nos.	**2-16**	**2-17**	**2-18**	**2-19**
Size inches	2½	3	3½	4
Each	**$1.80**	**1.80**	**1.80**	**1.80**
Weight, pounds	3	3	3	1½



Geared, adjustable, with five sets dies, ratchet and driving cross, right hand threads

***No. 3.** Capacity 4½ to 8 inches inclusive, weight 245 pounds ..... per set, **$300.00**

***Extra Dies Only**

Size, inches	4½	5	6	7	8
Right hand ..... per set,	**$12.00**	**12.00**	**12.00**	**12.00**	**12.00**
Weight, pounds	4⅛	3⅞	3½	3	2½

***Extra Bushings**

Nos.	**3-16**	**3-17**	**3-18**	**3-19**
Size inches	4½	5	6	7
Each	**$5.00**	**5.00**	**5.00**	**5.00**
Weight, pounds	8¼	8⅜	8⅝	7⅛

No. 3-21. Die head bushing (die head must be sent to factory when ordered) weight 12⅝ pounds .... each, **$20.00**

*Not carried in stock; will ship from factory

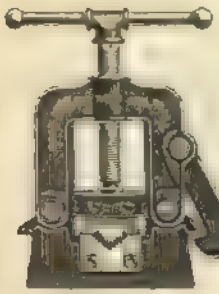
VISES

VULCAN CHAIN PIPE VISES

Wrought steel, with saw tempered, drop forged steel jaws, flat link steel chain.

No.	Pipe Inches	Each	Weight Pounds
1	⅛ to 2	$3.50	4
2	½ to 4	7.50	10
4	¾ to 8	18.00	30

One in a box

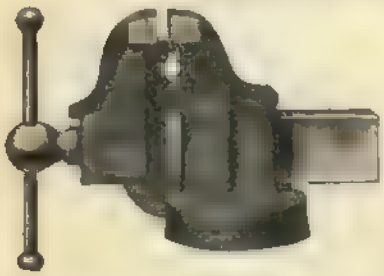


PIPE VISES

Malleable frame, japanned, with hinged lock, steel pressure screw and lever, two bolts in upper and lower jaws, extension base at back solid tool steel jaws, milled, hardened and tempered

Nos.	70	71	72	73
Holds pipe, inches	⅛ to 2	⅛ to 2½	⅛ to 3½	⅛ to 4½
Each	$4.25	5.00	7.50	11.00
Weight, pounds	7½	10	16	25

COMBINATION PIPE VISES



Semi-steel body, swivel base, jaws drop forged from tool steel milled from the solid material, oil tempered, steel screw and lever.

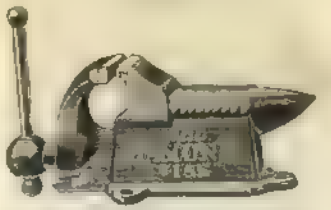
Nos.	30	31	32	34
Jaws, width, inches	3½	4½	5	6
Holds pipe, inches	⅛ to 2½	⅛ to 3½	⅛ to 4½	⅛ to 6
Each	$16.00	22.00	32.00	45.00
Weight, pounds	50	68	115	178

COMBINATION VISES

Cast iron body, polished face, hardened jaws and face, wrought iron screw; black japanned body.

No. 380. With pipe attachment, size of face 3x7 inches, jaws open 4 inches, weight 22 pounds..each, **$5.50**

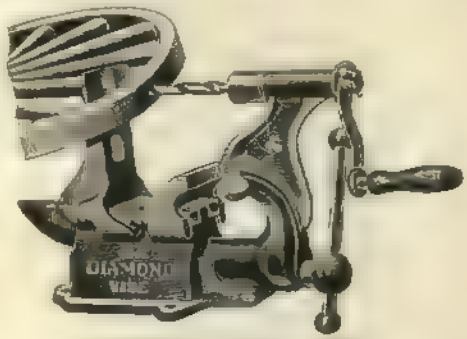
VISES



COMBINATION VISES

Cast iron body, chilled face, steel faced jaws, steel screw and lever, body painted green, face and jaws polished and lacquered

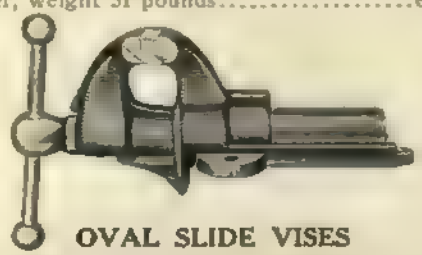
No. 350. With pipe attachment, size of face 3x7 inches, width of jaws 4 inches, jaws open 12 inches, weight 38 pounds.....each, **$10.00**



COMBINATION VISES

Anvil with cast iron body, chilled face, steel faced jaws, steel screw and lever, drill attachment of chilled iron, polished drill bit head, detachable crank, anvil and attachment painted green.

No. 360. Anvil with pipe attachment, size of face 3x7 inches, width of jaws 4 inches, jaws open 12 inches, drill socket for taper shank drills up to ¼ inch diameter, weight 51 pounds.....each, **$14.00**



OVAL SLIDE VISES

Steel screw and handle, crucible tool steel jaws, painted dull black. Bright parts polished and lacquered

Nos.	361	362	363	364	365
Jaws, width, inches	2½	3	3½	4	4½
Jaws open, inches	3	4	4½	4½	4¾
Each	$4.00	5.00	6.50	8.50	12.50
Weight, pounds	8	14	22	30	35

MACHINISTS' VISES

Malleable iron, with hardened table, combination swivel and stationary base, solid steel sliding bar, steel faced jaws.

Nos.	143	144
Jaws, width, inches	3	4
Jaws open, inches	3½	6
Each	$8.50	15.00
Weight, pounds	12	30

Torrington VACUUM CLEANER

NEW TYPE "C"

KNOWN from one end of the country to the other—widely advertised in magazines of national distribution. A valued housekeeping help in tens of thousands of American homes.

There are many vacuum cleaners on the market not nearly so good as "Torrington" that are being retailed for more than you will charge for "Torrington." But there isn't a machine on the market that is better in construction and performance than "Torrington."

It has the most powerful suction of any machine made because all of the electric power is in the suction. Cleans thoroughly without creating any dust.

BRUSH—3 rows of all bristle tufts 13-16 in. long, which revolves as a carpet sweeper brush.

MOTOR—Air-cooled and mounted on phosphorus bronze bearings, insuring good service and long life.

POWERFUL SUCTION—Created by a fan, balanced almost as perfectly as the wheels of a watch. Removes all deep rooted dirt as well as surface dirt.

DUST BAG—A quarter turn detaches it and no trouble is experienced when emptying the dirt.

NOZZLE—13 in. wide, made of die cast aluminum alloy. Can be adjusted for light and heavy rugs.

NOZZLE EXTENSION—Permits cleaning close to the walls while the shape of the machine allows cleaning under low furniture.

WHEEL BEARINGS—Situated outside the suction nozzle, eliminating the possibility of threads, lint, etc. being entangled.

WHEELS—Ball-bearing which makes handling of cleaner easy.

SWITCH—Conveniently located at the end of handle.

CORD—25 ft. of heavily insulated cord and plug.

1H6278—With 110 volt single phase motor, direct or alternating current. 1 in case, 12 lbs. Each, **$38.75**

On lots of 6 or more "Torrington" Vacuum Cleaners we will allow actual freight charges up to a maximum of $1.50 per 100 lbs.

Lots of 3, Each, **38.25**

Lots of 12, Each, **36.75**

Sold everywhere, retail cash price $55.00

ATTACHMENT SET

8 ft. Green Hose
Wal. Cleaning Brush
Nipple Hose Connector
2 Cleaning Tools
Blower Connector
Furniture Nozzle
Hose Connector
Extension Handle

1H6280—4 set in box. SET (9 pcs.), **$7.25**

Retail Cash Price $9.75

SPECIAL COMBINATION OFFER

1H6278C—110 volt Vacuum Cleaner and one Attachment Set. 1 set in case. SET, **$42.50**

Lots of 3 sets, " **42.00**

" 12 " " **40.50**

Retail cash price $59.75

1H6014—32 volt motor, for individual lighting plants. Shipped direct from factory. 1 in case, 15 lbs. Each, **$33.75**

EXPRESS WAGONS

COASTERS

Rubber Tired

Steel Tired

Town and Country

The coaster wagon which gains popularity wherever shown. Gears are open hearth steel, oversize and finished in gray baked enamel; rear bolster ⅜ inch angle steel riveted to axles; front bolster 8 pieces steel crimped for extra strength; wheels are of auto type, wire spokes, steel rims T-shaped, ⅞ inch face; bearings polished steel; axles cold rolled, shafting highly polished; body and tongue hardwood, metal parts galvanized; finish golden oak, red trimmed.

NO.	Body	Wheels	Wt. Each	EACH
2	14x32 in.	11 in.	30 lb.	$12.00
3	14x34 in.	11 in.	30 lb.	13 00
4	15½x36 in.	11 in.	35 lb.	14.00

Rubber Tired

Tires are clincher type, overlapping rim edge; the tread is 1 inch

NO.	Body	Wheels	Wt. Each	EACH
2R	14x32 in.	11½ in.	32 lb.	$15.00
3R	14x34 in.	11½ in.	34 lb.	16.00
4R	15½x36 in.	11½ in.	37 lb.	17.00

National

Best hardwood thruout; steel loop handle; detachable body, bottom boards joined with tongue and groove; bolsters steel braced, shaped spokes; mortised-in felloes; real auto wheels with roller bearings; nickel plated hub caps; reliable hand brake. Lock washers on bolts prevent loss of nuts. High class finish and construction.

NO.	Body	Wheels	Wt. Doz.	DOZEN
41	14x32 in.	10 in.	310 lb.	$130.00
42	14x34 in.	10 in.	360 lb.	144.00
43	16x38 in.	10 in.	400 lb.	150 00

EXPRESS

American Boy

A very strong, well finished wagon. Box has beaded sheet steel sides, smooth electrically welded joints; kiln dried bottoms, tongued and grooved; soft wood cleats; finished red outside, gold stenciled, green inside. Extra strong upper front and tongue braces, re-inforced rear gears; gears and wheels black enameled. All four wheels same size. Tongue natural hardwood.

NO.	Body	Wheels	Wt. Doz.	DOZEN
04	18x 8 in.	6 in.	65 lb.	$26.00
02	22x10 in.	8 in.	85 lb.	32.00

NO.	Body	Wheels	Wt. Doz.	DOZEN
1	26x12 in.	10 in.	145 lb.	45.00
3	30x14 in.	11 in.	200 lb.	55.00
4	32x15 in.	11 in.	220 lb.	65.00

Dreadnaught

The strongest, sturdiest high grade wagon—built for hard service. Special re-inforcements at all points of strain. Box has beaded sheet steel sides, electrically welded joints; selected, extra thick, kiln dried tongue and grooved bottom. Re-inforcement cleats. Extra strong gears heavily braced. Wheels, large barrel hubs, caps nickeled, No. 10 wire spokes, wide tires ♦ Finish, Yale blue outside, red inside, gold bronze stencil; gears and wheels black enameled.

NO.	Body	Wheels	Wt. Doz	DOZEN
11	26x12 in.	10 in.	175 lb.	$55.00
13	30x14 in.	11 in.	230 lb.	65.00
15	36x16 in.	12 in.	340 lb.	97.50

TOY WHEELBARROWS

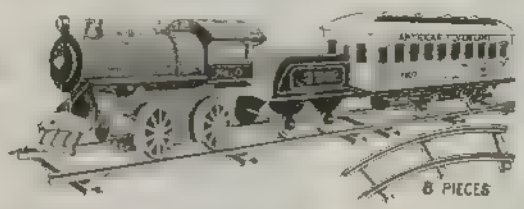
Sheet steel sides and front, one piece; seasoned wood bottom. Body enameled by hand, green, stenciled in gold; tinned wheel; wood handles.

NO.	Body	Wheel	Handles	Wt. Doz.	DOZEN
0	5x10x12 in.	8 in.	27 in.	38 lb.	$20.00

AMERICAN MECHANICAL TRAINS WITH TRACKS, SWITCHES, CROSS-OVERS, ETC., ETC.

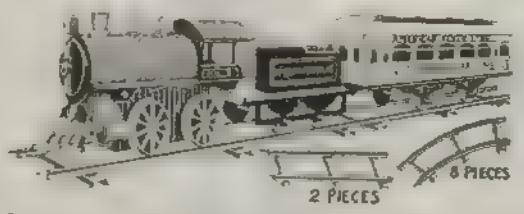
Finest reproduction of the large railroad trains on the market; improved cast iron locomotive, black enameled, and handsomely striped with heavy open spoke drive wheels, large tempered brass gears, with steel pinion gears; clock works equipped with patented winding clutch, which prevents the spring from unhooking, fully guaranteed.

Length 16¾ in.; circle track, 82 in in circumference.



T8209—Length over all 18¾ inches; cast iron 10 inch engine with tender; one 5½ inch passenger coach; eight pieces curved track forming circle 82 inches in circumference; each in box complete. Each.....1.15

Length 18 in.; oval track, 103 in. in circumference.

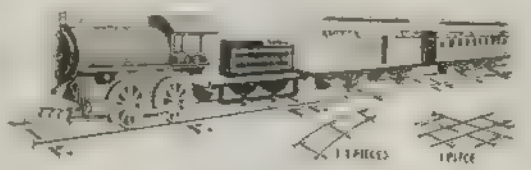


T8211—Length over all 18 inches; 10½ inch cast iron engine, speed governed piston rods and brake, with tender; 6½ inch passenger coach, eight pieces curved and two pieces straight track, forming oval 103 ins in circumference; each in box complete. Each.....1.35

Length 24½ in., oval track, 103 in in circumference.

T8212—Length over all 24½ inches; 10½ inch cast iron engine, speed governed, piston rods and brakes, with tender, one 6½ inch baggage car and one 6½ inch passenger car, eight pieces curved and two pieces straight track forming oval 103 inches in circumference; each in box, complete. Each.....1.57

Length 25 in.; figure 8 track, 165 in. in circumference.



T8214—Length over all 25 inches; engine and tender 10½ inch cast iron, speed governed, piston rods and brake, one 5½ inch baggage car, and one 6½ inch passenger coach; 14 pieces curved track and one cross over, forming a figure eight 165 inches in circumference; each in box complete. Each.....2.10

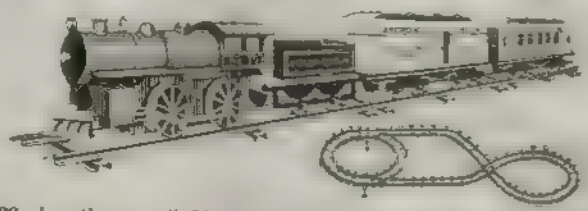
Length 25 in ; ten pieces curved, two pieces straight track, two switches.

T8216—Length over all 25 inches; 11½ inch cast iron locomotive, speed governed, piston rods and brake, with tender, one 5½ inch sliding door baggage car and one 5½ inch passenger coach; ten pieces curved and two pieces straight track with two switches, forming oval and circle, track length 185 inches; each in box complete. Each.....2.85

Length 28 ins.; oval track 185 ins. in circumference

T8221—Length over all 28 ins.; 7¾ in. locomotive with brake and automatic brake stop and piston rods, tender; 6½ in. baggage car, and 6½ in. passenger car, all with sliding doors, double trucks and disappearing couplers; ten sections curved and four sections straight track, one automatic brake stop section and two switches, forming oval 185 in. in circumference; each in litho labeled partitioned box. Each..... 3.35

Lentgh 28 inches; total track over all 245 inches.

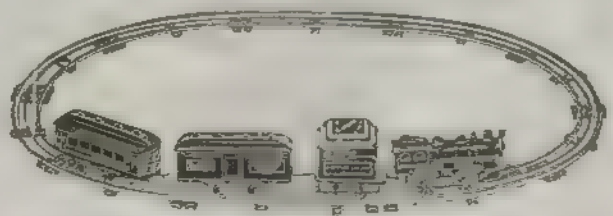


T8220—Length over all 28 ins.; 7¾ in. locomotive with tender, break, automatic brake stop and piston rods; 6½ in. baggage car, 6½ in. passenger car, both equipped with sliding doors, double trucks and disappearing couplers; sixteen sections curved, two pieces straight track, including automatic brake stop, two switches and one cross over; total length of track 245 ins.; each in lithographed inbeled partitioned box. Each 3.80

AMERICAN FLYER ELECTRIC TRAINS

The strongest and most dependable line it is possible to produce at the price; the motors are specially designed to give the maximum of efficiency on a small amount of current; operated either by batteries or transformer.

Length 28 ins., oval track 103 ins. in circumference



T8257 Outfit consists of New York Central type engine, eight ins. long, large size tender, one 6½ in. single truck baggage car, one 6½ in. single truck passenger car; eight sections straight and two sections curved track and one terminal section, with improved type rheostat; each packed in in litho labeled carton. Each.....4.20

Length 35 in., oval track 125 ins. in circumference.

T8258 Outfit consists of 8 in. New York Central type engine with headlight and tender one 6½ inch double truck baggage car with sliding doors, two 6½ inch double truck passenger cars, eight sections straight and four sections curved track including one terminal section and improved rheostat, each in litho labeled carton. Each..... 5.40

ELECTRIC TRAIN WITH TUNNEL

Length 85 ins.; oval track 145 ins. in circumference.

T8259—Outfit consists of New York Central type engine, eight ins. long with tender, one 6½ in. double track baggage car with sliding doors, two 6½ inch double truck passenger cars, lithographed in bright colors; baked enamel finish; third rail track, complete with permanent electrical connections and consisting of eight sections curved and six sections straight track, station and double arm semaphore; each packed in litho labeled carton. Each.....6.75

LIBERTY GAMES

With Liberty Gun.

Outfit consists of one Liberty gun, made of wood, varnished, score cards and two hoops.

Shoots by the use of a rubber band, the hoop which revolves returning like a boomerang into the score stalls.

A very interesting game.

Per Dozen

No. 7LG – Weight per dozen 3 lbs: $27 00

One outfit in a carton.

WATER PISTOLS

ZIP, Repeater.

Six Shot.

Made of tin, brass finished. Six shots can be fired in quick succession. Throws a stream of water a distance of 25 feet.

Per Dozen

No. 5WP –Length over all 5 in $6 75

One in a cardboard box; weight per dozen 2½ lbs.

TOY CAP PISTOLS

"BOY SCOUT"

Automatic Repeating Safe Paper Cap Pistol.

Made of stamped steel, blued finish. A perfect model of a 25 caliber automatic pistol. Has the safety feature in that it explodes the caps on the insides. This feature removes the one of danger to the pistol, also insures safety to the child. The close resemblance to a pistol will appeal to every boy.

Per Dozen

No. 1S—Length 4½ inches; wt. per dozen 3 lbs. .. $6 00

One dozen in a cardboard box.

TOY RIFLES

"BOY SCOUT", Repeating.

Barrel is made of stamped steel, blued finish; best hardwood stock; the only repeating rifle exploding caps on the inside, fires 50 shots without reloading; the close resemblance to a real rifle will please every boy.

Per Dozen

No. 55R—Length 30 in.; wt. per dozen 20 lbs. $18 00

Packed half gross in a case.

PAPER CAPS

Scout.

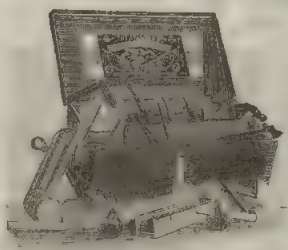
Made especially for Boy Scout Repeating Toy Rifles and pistols, but can be used for any other repeating toy pistols and rifles.

Per Dozen Cartons

No. 1SA—50 caps in a roll, 5 rolls in a carton; wt. per doz. cartons ½lb. $1 20

Packed 5 dozen cartons to a box; 12 boxes to a case.

JUVENILE TOOL CHESTS



Strongly made of selected hardwood, shellac finish, dove-tailed corners, with moulding at top and bottom; hinged top, removable tray, hook and eye fasteners.

Per Doz

No. J210—Consists of 9 tools as described below, with chest 10x4½x2½ inches; weight per dozen sets 220 lbs **$12 00**

1 Mallet	1 T Square
1 Saw	1 Try Square
1 Hammer	1 Triangle
1 Rule	Sand Paper
1 Crayon	

Per Doz.

No. J250—Consists of 13 tools as described below, with chest 10x4½x2½ inches; weight per dozen sets 220 lbs **$24 00**

1 Mallet	1 T Square
1 Saw	1 Try Square
1 Hammer	1 Triangle
1 Rule	Sand Paper
1 Crayon	1 Plumb Bob
1 Bench Hook	1 Mitre Gauge
Nails & Tacks	

Per Doz.

No. J260 –Consists of 18 tools as described below; with chest 11x5x3½ inches; weight per dozen sets 400 lbs.. **$36 00**

1 Mallet	1 Smoothing Plane
1 Saw	1 Mitre Gauge
1 Hammer	1 T Square
1 Rule	1 Try Square
1 Crayon	1 Triangle
Nails & Tacks	Sand Paper
1 Plumb Bob	

Per Doz.

No. J290 –Consists of 16 tools as described below, with chest 13x6½x4½ inches; weight per dozen sets 600 lbs **$48 00**

1 Mallet	1 Smoothing Plane
1 Saw	1 Mitre Gauge
1 Chisel	1 T Square
1 Screw Driver	1 Try Square
1 Hammer	1 Triangle
1 Tape Line	Sand Paper
1 Rule	Nail & Tacks
1 Lead Pencil	1 Crayon

HARMONICAS

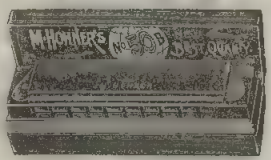
HOHNER

Scales A, B, C, D, E, F, G.

The Old Standby. 10 single holes; 20 reeds; brass plates; nickel plated covers; lgth. 4 inches; weight per dozen 2 lbs.

Per Dozen
No. 34B. $12 00
One in a hinged box.

Scales A, B, C, D, E, F, G.



The Old Favorite. 10 double holes; 20 reeds; brass plates; nickel plated covers; length 4 inches weight per dozen 2 lbs.

Per Dozen
No. 50B....$12 00
One in a hinged box.

Scales A, B, C, D, E, F, G.

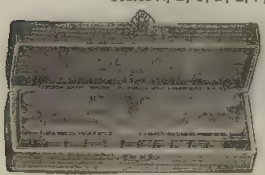
Marine Band. 10 single holes; 20 reeds; brass plates; nickel plated covers; length 4 inches weight per dozen 2 lbs.

Per Dozen
No. 1896.. $13 50
One in a hinged box.

The Echo. 16 double hole 32 reeds; nickel plated covers with turned in ends; length 5 inches; weight per dozen 3½ lbs.

Per Dozen
No. 605 $18 00
One in a hinged box.

Scales A, B, C, D, E, F, G.



Up-to-Date. 10 double holes; 20 reeds; brass plates; nickel plated covers; length 4 inches weight per dozen 4 lbs.

Per Dozen
No. 1896½..$22 50

One in a hinged box.

HARMONICAS

HOHNER

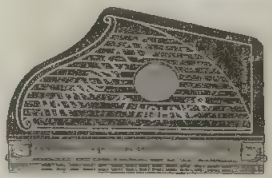
Scales A, B, C, D, E, F, G.

Full Concert Harp. 10 double holes; 40 reeds; brass plates; nickel plated covers; length 4 inches; weight per dozen 3½ lbs.

Per Dozen
No. 3CND $24 00
One in a hinged box.

Echo. 16 double holes; 64 reeds; brass plates; nickel plated covers; lgth. 4 ins. wt. per doz. 3 lbs.

Per Dozen
No. 606 ..$30 00
One in a hinged box.

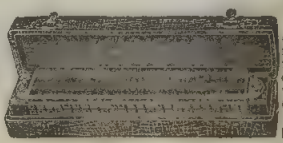


Harmonette. 14 double holes; 28 reeds; brass plates; nickel plated covers; lgth., 4¾ ins.; weight per dozen 3½ lbs.

Per Dozen
No. 3101.. $36 00
One in a telescope container.

Echo phone. 10 single reeds 20 reeds, brass plates; nickel plated covers; length 4½ inches; weight dozen 1½ lbs.

Per Dozen
No. 3810.. $36 00
One in a cardboard box.



The Goliath 24 double holes; 48 reeds; brass plates; nickel plated covers; length 7 5/16 ins.; weight per dozen 6 lbs.

Per Dozen
No. 453.. $45 00

One in an imitation alligator skin hinged box.

ALL-STEEL ENGLISH PERAMBULATORS

TO4158—Height of hood 21 in. Body enamel only 17 in. long 7½ in. wide, gold striped. Wheels 6 in., single spokes. Continuous steel pusher. Hood 3 bow heavy leatherette. 4½ doz. in carton. Doz. $16.50

TO4159—Height of handle 33 in. Body enamel only 17 in. long, 7½ in. wide, gold striped. Wheels 6 in., rubber tires, 3 double spokes. Pusher with polished wood cross handle. Hood 3 bow heavy leatherette. 4 in carton. Each $1 75

TO4160—Height of handle 35 in. Brown enamel body 18 in. long, 8½ in. wide. Wheels 7 in., heavy rubber tires, 12 double spokes. Round iron pusher, polished wood cross handle. Hood 3 bow heavy leatherette. 2 in carton. Each $2.25

TO4161—Height of handle 34 in. Black enamel body 20 in. long, 10 in. wide. Wheels 8 in., heavy rubber tires, 12 finished spokes. Round iron pusher, polished wood cross handle. Large 3 bow heavy leatherette hood. Leatherette lined body, reinforced with gimp. Nickel plated hub caps. Each $3.50

DOLL SULKIES

TO4153½—Back 12 in. Body 9½ in. long, 8 in. wide. Handle 36 in. long, all double stock adjustable. Wheels 6 in., single spoke steel. Gears, wheels and handle black enameled. Body enameled black, gold striped. ½ doz. in carton. Doz. $4.25

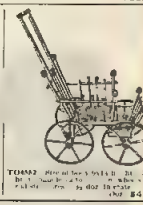
TO4154—Body 9½x8 in., handle 36 in. long, wheels 6 in., 8 double spokes, rubber tires. ½ doz. in carton. Doz. $6.85

TO4155—Same as No. 10 only in body 8½ in. long, wheels 7 in., 12 double spokes, rubber tires. ½ doz. in carton. Doz. $8.75

TO4157—All black. Body 11½ in. long, 9 in. wide. Wheels 6 in., rubber tires, 12 double spokes. Hood 3 bow heavy leatherette. 3 in carton. Each $1 65

DOLL GO-CARTS

TO4152—Size of body 7x9½x13 in., ht. of handle 34 in., wood spindles with stained knobs, 5 and 7 in. wheels with roll steel tires. 1 doz. in crate. Doz. $3.25



TO4042—Size of body 9x14 in., ht. of handle from floor 34 in., reed body with natural finish, full cane bottom, reed upholstered back and sides, trimmed with silk plush and fancy braid, rubber tired wheels, 5 and 7 in. ½ doz. in crate. Doz. $4.75

TOY DRUMS

Fiber heads and bottom, [illegible] wood hoops varnished or [illegible] heavy wood shell [illegible] in [illegible] with cords [illegible]

TO4501

TO4509 [illegible] enameled in blue, [illegible] with green and yellow [illegible] Each $2.25

TO4502

TO4381—8 in. head, ht. 6¼ in., [illegible] shell, [illegible] Each $2 40

TO4382—7 in. head, ht. 6¼ in., [illegible] Each $3.25

TO4383—7½ in. head, ht. 6½ in., military design, 1 doz. in carton. Doz., $4.25

TO4304—8 in. head, ht. 6¾ in., khaki shoulder [illegible] Doz. $5.00

TO4385—8 in. head, ht. 7½ in., 4 [illegible] American Eagle design, khaki cloth shoulder strap, 1 doz. in carton. Doz. $6.75

TO4386—10 in. head, ht. 8 in., Boy Scout design, red, white and blue cloth shoulder strap, ½ doz. in carton. Doz., $8.50

TO4387—[illegible] in. head, ht. 8 in. solid [illegible] shell, khaki cloth shoulder strap with [illegible] hook, ½ doz. in carton. Doz. $10.50

TO4389—Veteran wood shell, smooth varnish finish, black enamel hoops with silk stripes, leather ears, khaki cloth shoulder straps with metal hook, 8 in. head, ht. 7 in., 1 doz. in carton. Doz., $5.75

TO4310—9 in. head, ht. 8½ in., 4 in solid shell, [illegible] in carton. Doz. $6 50

TO4388—[illegible] in. head, [illegible] Each $1 00

TO4314

TO4316—8 in. head, ht. 8¾ in., veneer wood shell, smooth varnish finish, nickel, colors—green and gold, shoulder strap with hook, leather ears, steel cord, ½ doz. in carton. Doz., $7.50

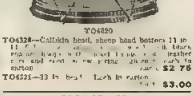
TO4315—Finish wood shell, steel cord, strong leather ears 11 in. head. ½ doz. in carton. Doz., $11.50

TO4316—13 in. sheep and fiber head. ½ doz. in carton. Doz. $16.50

TO4317—Calfskin head, sheep fiber bottom 10 in. ht. 8½ in., oak stained veneer shell, steel cord, leather ears, shoulder strap. ½ doz. in carton. Doz. $18.00

TO4318—Calfskin head, sheep fiber bottom 12 in. ht. 9½ in., oak veneer wood shell, smooth varnish finish, steel cord, leather ears, red, white and blue shoulder strap with hook. Each in carton. Each, $1.85

TO4319—Calfskin head, sheep fiber bottom 13 in., ht. 9½ in., veneer wood maple shell, stain steel cord, reinforced leather ears, khaki cloth shoulder strap with hook. Each in carton. Each $2.75



TO4320

TO4328—Calfskin head, sheep head bottom 11 in. [illegible] Each in carton. Each $2.75

TO4321—13 in. head. Each in carton. Each $3.00

BUY HOLIDAY GOODS NOW

TO4311 Calfskin head, sheep [illegible] Each $3.75

TO4123 [illegible] Each $6.00

ORCHESTRA DRUMS

TO4311 12 in. Calfskin head, ht. 6 in., cherry shell hard wood hoops, nickel screw tightening, white with [illegible] Each $4.25

TO4312 14-in. calfskin head Each $4.75

TO4313—14-inch calfskin head [illegible] Each $5.75

BOY SCOUT BASS DRUM

Sheep fiber head, and bottom, metal body oak finish, black enamel wood [illegible] leather ears complete with [illegible] Each $3.98

TO4324—16-in. head. ht. 9½ in. Each $5.25

TO4325—16 in. head. ht. 9½ in. Each $3.98

TO4326—16-in. head. ht. 9½ in. Each $4.65

SPECIAL ASST. OF DRUMS

TO4329—Assortment of 6 to retail at $3.00 each. Bright lithographed [illegible] body, 9 in. [illegible] wood hoops, [illegible] Each $1.50

1 only 12 in. [illegible] Each $2.25

1 only 13 in. [illegible] Each $2.50

1 only 12 in. [illegible] Each $2.00

Retail value $6.25

Total for asst. of 6 [illegible] $6.50

MUSICAL DRUMS

[illegible] Doz. $7.25

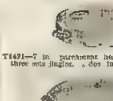
TO4312—[illegible] Each $6.50

Doz. $16.50

TAMBOURINES

TO4499 All metal [illegible] 1 doz. in box. Doz. $0.00

Doz. 77c



T4471—7 in. parchment head, hardwood frame, three sets jingles, 4 doz. in pkg. Doz., $2.26

T4472—7 in. calfskin head, ornamented hardwood frame, three sets jingles, 4 doz. in pkg. Doz. $4 25

T4479—10 in. sheepskin head, red enameled hardwood frame, nine sets jingles. Doz., $8.50

PIN WHEELS

T761 T763 T1196

T761—Stick of heavy paper in assrtd. colors, wrapped in box. 2 doz. assrtd. in box. (Gro. $4.25). Doz., 37c

T763—Cathedral, assrtd. colors. 10 in stick. 3 doz. in box. (Gro. $4.80) Doz., 42c

T1196—Celluloid. Red, White and Blue center, wood stick. 6 doz. in box. (Gro. $9.00) Doz., 77c

Rubber Bubble Pipe

Per gro.

N27012—BUBBLE PIPE BALLOONS—To blow rubber instead of soap balloons. Consists of a three-section wooden pipe 5¼ inches in length, with rubber balloon attached. Assorted colors, 3 dozen in box, not broken 17.20

Balloons

Per gro.

N27013—SANITARY TOY BALLOONS—3 assorted shapes and colors in sealed box 3½ x 2½ x ⅞ inches, lithographed in colors, 3 dozen boxes in fancy display carton, not broken..... 19.20

N27014—WHISTLING SANITARY BALLOONS—Put up in six assorted shapes and colors, in sealed box, size 3½ x 5½ x ⅞ inches. Attractively lithographed. Balloons have wooden mouthpieces and loud voices. ½ gross boxes in fancy display carton, not broken 45.00

Kino Films and Kaleidoscope

Per gro.

N26627—KINO FILM HOLDER—To hold Kino Films N26628. Black enamel cylinder, 3 inches long with ½ inch lens. 6 dozen in package, not broken..... 17.28

Per gro. envelope

N26628—KINO FILMS—Being series pictures, ¾ x 1 inch, cut out of standard moving picture films. To be used with Kino Film holder N26627. 4 dozen films in envelope, 6 dozen envelopes in package, not broken 4.80

Per doz.

N26715—KALEIDOSCOPE—Made of composition board, 5½ x 1½ inches. Assorted colors. 2 dozen in box, not broken 1.94

Magnets

Per gro.

N26302—MAGNETS—2 inches in length. 1 gross in box, not broken 1.95

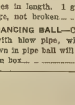
Cum-Bac

We do not break packages

Per doz.

N26718—CUM-BAC — An ingenious toy. When rolled on the floor or down hill will come back to you. 1 dozen in box..... 1.44

Dancing Balls



N26722

Per gro.

N26483—NEW PENNY BLOW TOY—Curved tin pipe, with wire spiral to catch the little dancing ball. 5 inches in length. 1 gross in package, not broken 2.00

Per doz.

N26732—DANCING BALL—Celluloid ball with blow pipe, when air is blown in pipe ball will dance; each in box..... 1.44

Chic-Chic

Per doz.

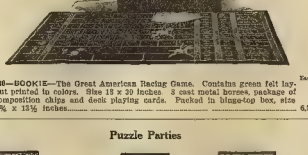
N26897—CHIC-CHIC—Five wooden chickens with movable heads attached to string with wooden bill weight fastened on wooden platform with wire handle. Heads move up and down as weight is revolved. Painted in bright colors. Diameter of platform 5½ inches 8.50

Home-Run Babe

Per doz.

N26542—HOME RUN BABE—The mechanism is contained in an attractively lithographed metal case. Operated by a unique device, which does away entirely with broken springs due to overwinding. The batter is 4¾ inches high; 6 balls rise automatically in turn, with the swing of the batter. Size of case, 2¼ x 6¼ x 1¾ inches. Each packed in bright attractive box 8.64

Bookie



Each

N26386—BOOKIE—The Great American Racing Game. Contains green felt layout printed in colors. Size 18 x 30 inches. 3 cast metal horses, package of composition chips and deck playing cards. Packed in hinge-top box, size 7¾ x 13½ inches..... 6.00

Puzzle Parties

N26393 N26931

Per doz.

N26923—MYSTO PUZZLE PARTIES—In new sealed carton; size 9¼ x 5¾ inches, contains four interesting puzzles with direction folder; Heart, Question, Conjuring Rings, Three Rings..... 4.00

N26930—MYSTO PUZZLE PARTIES—In new sealed carton, size 9¼ x 5¾ inches, contains an assortment of excellent puzzles, some of which are: Twin Rings, Nail, Spiral Wire and Three Links 6.00

N26931—MYSTO PUZZLE PARTIES—In new sealed carton; size 13¼ x 8⅜ inches; contains an assortment of very difficult puzzles, such as Star and Crescent, Devil's Lock, Foxy Link, Horse Shoe and Shamrock, Illustrated manual giving full instructions in each set 16.00

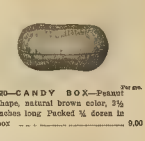
Party Favors

Per gro.

N26803—ASSORTED PARTY FAVORS—Small pewter toys, gilt finish, put up in sets in a box with appropriate descriptions; 12 different styles; 6 dozen in carton, not broken 8.64

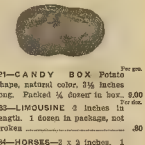
Per gro.

N26618—CANDY BOX—Pickle shape, green natural color, four inches long. Packed ¼ dozen in box.. 0.00



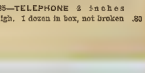
Per

N26619—CANDY BOX—Round basketball shape, 2¼ inches in diameter. Packed ¼ dozen in box 0.00



Per gro.

N26620—CANDY BOX—Peanut shape, natural brown color, 2½ inches long. Packed ¼ dozen in box 0.00



Per gro.

N26621—CANDY BOX—Potato shape, natural color, 2½ inches long. Packed ¼ dozen in box.. 0.00

Per doz.

N26982—LIMOUSINE—2 inches in length. 1 dozen in package, not broken ..... .80

N26984—HORSES—2 x 2 inches. 1 dozen in package, not broken..... .80

N26985—TELEPHONE—3 inches high. 1 dozen in box, not broken .92

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Rubber Bubble Pipe

Per gro.

N27012—BUBBLE PIPE BALLOONS—To blow rubber instead of soap balloons. Consists of a three-section wooden pipe 5¼ inches in length, with rubber balloon attached. Assorted colors, 3 dozen in box, not broken 17.20

Balloons

Per gro.

N27013—SANITARY TOY BALLOONS—3 assorted shapes and colors in sealed box 3½ x 2½ x ⅞ inches, lithographed in colors, 3 dozen boxes in fancy display carton, not broken..... 19.20

N27014—WHISTLING SANITARY BALLOONS—Put up in six assorted shapes and colors, in sealed box, size 3½ x 5½ x ⅞ inches. Attractively lithographed. Balloons have wooden mouthpieces and loud voices. ½ gross boxes in fancy display carton, not broken 45.00

Kino Films and Kaleidoscope

Per gro.

N26627—KINO FILM HOLDER—To hold Kino Films N26628. Black enamel cylinder, 3 inches long with ½ inch lens. 6 dozen in package, not broken..... 17.28

Per gro. envelope

N26628—KINO FILMS—Being series pictures, ¾ x 1 inch, cut out of standard moving picture films. To be used with Kino Film holder N26627. 4 dozen films in envelope, 6 dozen envelopes in package, not broken 4.80

Per doz.

N26715—KALEIDOSCOPE—Made of composition board, 5½ x 1½ inches. Assorted colors. 2 dozen in box, not broken 1.94

Magnets

Per gro.

N26302—MAGNETS—2 inches in length. 1 gross in box, not broken 1.95

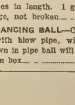
Cum-Bac

We do not break packages

Per doz.

N26718—CUM-BAC — An ingenious toy. When rolled on the floor or down hill will come back to you. 1 dozen in box..... 1.44

Dancing Balls



N26722

Per gro.

N26483—NEW PENNY BLOW TOY—Curved tin pipe, with wire spiral to catch the little dancing ball. 5 inches in length. 1 gross in package, not broken 2.00

Per doz.

N26732—DANCING BALL—Celluloid ball with blow pipe, when air is blown in pipe ball will dance; each in box..... 1.44

Chic-Chic

Per doz.

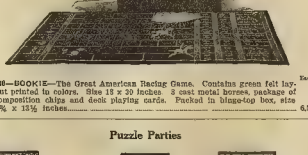
N26897—CHIC-CHIC—Five wooden chickens with movable heads attached to string with wooden bill weight fastened on wooden platform with wire handle. Heads move up and down as weight is revolved. Painted in bright colors. Diameter of platform 5½ inches 8.50

Home-Run Babe

Per doz.

N26542—HOME RUN BABE—The mechanism is contained in an attractively lithographed metal case. Operated by a unique device, which does away entirely with broken springs due to overwinding. The batter is 4¾ inches high; 6 balls rise automatically in turn, with the swing of the batter. Size of case, 2¼ x 6¼ x 1¾ inches. Each packed in bright attractive box 8.64

Bookie



Each

N26386—BOOKIE—The Great American Racing Game. Contains green felt layout printed in colors. Size 18 x 30 inches. 3 cast metal horses, package of composition chips and deck playing cards. Packed in hinge-top box, size 7¾ x 13½ inches..... 6.00

Puzzle Parties

N26393 N26931

Per doz.

N26923—MYSTO PUZZLE PARTIES—In new sealed carton; size 9¼ x 5¾ inches, contains four interesting puzzles with direction folder; Heart, Question, Conjuring Rings, Three Rings..... 4.00

N26930—MYSTO PUZZLE PARTIES—In new sealed carton, size 9¼ x 5¾ inches, contains an assortment of excellent puzzles, some of which are: Twin Rings, Nail, Spiral Wire and Three Links 6.00

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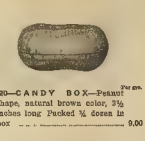
Party Favors

Per gro.

N26803—ASSORTED PARTY FAVORS—Small pewter toys, gilt finish, put up in sets in a box with appropriate descriptions; 12 different styles; 6 dozen in carton, not broken 8.64

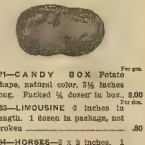
Per gro.

N26618—CANDY BOX—Pickle shape, green natural color, four inches long. Packed ¼ dozen in box.. 0.00



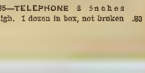
Per

N26619—CANDY BOX—Round basketball shape, 2¼ inches in diameter. Packed ¼ dozen in box 0.00



Per gro.

N26620—CANDY BOX—Peanut shape, natural brown color, 2½ inches long. Packed ¼ dozen in box 0.00



Per gro.

N26621—CANDY BOX—Potato shape, natural color, 2½ inches long. Packed ¼ dozen in box.. 0.00

Per doz.

N26982—LIMOUSINE—2 inches in length. 1 dozen in package, not broken ..... .80

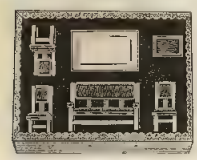
N26984—HORSES—2 x 2 inches. 1 dozen in package, not broken..... .80

N26985—TELEPHONE—3 inches high. 1 dozen in box, not broken .92

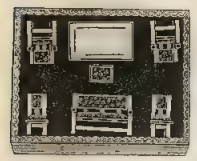
PRICES SUBJECT TO CHANGE WITHOUT NOTICE

WHITE ENAMELED FURNITURE SETS

Strong and well made of seasoned wood, smooth hard white enamel finish, brass gilt striping. Upholstered in metal cloth materials. Each piece securely boxed in display box.



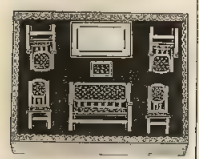
*T19661—Box 7x8x12 in., 6 pc. set, 4 doz sets in pkg. Doz. Sets, $2.26



T19662—Box 9x10x14 in., 7 pc. set. Doz Sets, $3.75

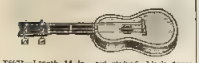
T19663—Box 9x11x14 in. set of 7 large pieces. Doz. Sets, $4.25

T19664—Wood box 9x12x18 in., set of 7 extra large pieces. Doz Sets, $7.50



T19665—Wood box 4x13x20 in., set of 7 extra large pieces. Doz. Sets, $7.25

TOY GUITARS



T8675—Length 14 in., red stained block finger board and keys, 4 wire strings. ½ doz in box. Doz. $1.65

MUSIC BOXES

Made of heavy metal, artistically lithographed or bright nickel finish. A quick selling line of attractive low prices.

T8614 T8614

T8611—1¾x1¾ in., perforated roller cyl. disk design. 4 notes. 1 doz. in box. (Gro. $3.50) Doz., 32c

T8614—1½x2¾ in., red, white and blue lithg. design. 8 clear notes. 1 doz in box. (Gro., $7.50). Doz., 65c

T8615 T8620

T8615—2x2¼ in., nickel litho. naval scenes, perforated nickel top. 8 clear notes. 1 doz. in box. (Gro., $9.00) Doz., 77c

T8620—STAR VALUE. 2¼x2½ in., chain metal embossed and striped, 6 clear notes. 1 doz. in box (Gro., $9.00) Doz., 77c

T8678 T8637

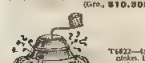
T8678—STAR VALUE. 1¾x2¾ in., embossed heavy metal. Assid. silver and bronze designs. 6 notes. 1 doz. in box. (Gro., $9.00) Doz., 77c

T8616—2¾x2¾ in., assrd., litho juvenile scenes, bright perforated top. 6 notes. 1 doz. in box. (Gro., $9.25) Doz., 80c

T8621 T8617

T8621—2 x2¾ in., bright nickel, artistic litho band. 6 notes. 1 doz in box. (Gro., $9.75) Doz., 85c

T8617—STAR VALUE. 2½x2¾ in., assrd. litho artistic scenes, bright nickel top and colors 8 notes. 1 doz. in box. (Gro., $10.80) Doz., 90c



T8622—4x4½ in., all nickel, bright finish, embossed top, 8 clear notes. 1 doz in box. Doz., $1.65

MUSIC BOXES—Cont'd

TS241 TS243

TS241—Music box, covered with white lacquer striped metal top, 4 notes, 2¾ x 3¾ in., diam. 2¾ in. 1 doz. in box (Gro., $10.00) Doz., 85c

*TS254—2¾ in., 8 clear notes. 1 doz. in box (Gro., $10.50 Doz., 90c

TS213 Strong cardboard box covered with bright litho designs, 4 clear notes, size 2 3/8 x 3¼ x 1 doz in box (Gro., $10.00 Doz., 85c

TS304 Music box, 4x6½x6½ in, otherwise as TS243" ½ doz. in pkg. Doz., $2.25

TS224—Ht. 2¼ in., diam. 3½ in., 8 notes. 1 doz in box Doz., $2.25

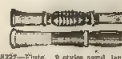
MUSICAL TOYS

TS225 TS226

TS225—Wood Whistle, length 5 in., stained varnish finish with red stripings, fully mammoth and ready to blow. 1 doz in box. (Gro., $4.00) Doz., 35c

TS226—STAR VALUE. Pipe. Length 5 in., stained wood, black enameled mouth piece. 1 doz. in box. (Gro. $4.20). Doz., 37c

TS232—Musical Pipe, metal, lithographed in bright colors, attached to wood base, 9¼ in., length 4 in. 1 doz. in box. (Gro $8.00) Doz 78c



TS227—Flute. 2 styles assrd. length 11 in., fancy turned wood mammoth in bright colors. 1 doz in box (Gro., $10.00). Doz. 85c

TS233 TS29

TS233— Bones and Clown, Musical enameled in bright colors, 5 in. 1 doz. in box. (Gro. $10.20) Doz. 97c

TS231—2 styles assrd. Bird Whistle, litho metal bird, stained wood whistle, length 4 in. assrd. in box (Gro. $10.20) Doz 87c

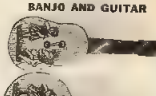
MOVING PICTURE MUSIC BOXES

Heavy metal, artistic litho. designs, assrd. revolving scenes. 1 doz. in box

T6818—2¾x3¾ in., nickel perforated top. 6 clear notes Doz., $1.15

T6819—3½x4 in. 8 notes Doz., $1.65

BANJO AND GUITAR



T8246 T8247

T8246—Banjo and Guitar, length 10 in., brightly lithographed black mammoth top board, 4 clear notes. 1 doz. in box. (Gro., $11.25); Doz., 98c

T8247—Length 14½ in., 8 clear notes. 1 doz. assrd in box (Gro. $24.00) Doz., $2.25

TOY VIOLINS

Perfectly shaped, stained and varnished; black enameled ebony board, stained bridge and keys complete with bow and reed. Each in box

T8237 T8238

T8237—Length 10 in. 1 doz in pkg. Doz., $2.25

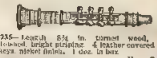
T8238—Length 12½ in. ½ doz. in pkg. Doz., $3.75

T8239—Length 14½ in. ½ doz. in pkg. Doz., $4.25

T8240—Practical for beginners, length 17 in. Each in box Doz. $9.00

T8248—Length 19 in. Each in box Each $1.00

CLARIONETTES



T8235 T8236

T8235—Length 8¾ in. turned wood, nickel finished bright mounts, 4 leather covered spring keys, nickel finish. 1 doz. in box Doz. $1.25

T8236—Length 14 in., black enamel finish, 8 nickel finished leather covered keys. ½ doz in box Doz., $3.50

TOY WATCHES

Each, watch securely fastened and displayed on gilt edge card. Moving hands, stem wind

T6922 A gent nickel and embossed gilt metal case, lithographed dial, large numerals, nickel finished figures, strong chain, fob attached. 1 doz. in box. (Gro., $4.20) Doz., 42c

T6923—Large size, nickel and embossed gilt metal case, lithographed dial, large numerals, nickel finished figures, strong chain, fob attached. 1 doz. in box. (Gro., $4.20) Doz., 42c

T6925 Nickel case, lithographed card dial, glass crystal, large numerals, nickel finished chain. 1 doz. in box. (Gro., $7.80) Doz., 65c

T6927—"The Child's Delight." 1 doz. on display card, bright nickel case, white dial, large numerals, hand movement, lithographed figures. 2 size in box. Gro. $8 50 Doz. 75c

T4932 — Chatelaine, embossed gilt and silvered finish cases, white dial, black numerals, glass crystal. Each with fleur de lis. (Gro., $7.50) Doz., 65c

T6935—Large size, metal, gilt and silvered finish cases, embossed design plain crystal extra heavy chain 1 doz in box (Gro. $7 50 for 65c

T6926—Oxidized metal case, white dial, large black numerals, silver finished steels with chain 1 doz in box. (Gro. $9.00) Doz. 77c

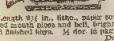
T6928—Assrd. gilt and silvered finish cases, embossed designs, convex glass crystal white dial, black numerals, long chain 1 doz in box (Gro. $9.50) Doz 82c

T6938—Gent's open model, gilt and silvered finish cases, convex crystal, white dial, black numerals, nickel finished chain, 1 doz in box. Each on card 1 doz. in box Doz. $1.65

T6931 Watch mechanism moving hands. Heavy gilt case covered crystal, large numerals. Complete in final packing 1 doz in box Doz., $1 95

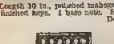
BLOW ACCORDIONS

T8249—12x5½, 8 3-octave, 20 treble and 8 bass, covered cardboard body, bright nickel finish trp, 5 silver notes, nickel finished keys. 1 doz. in pkg. Doz., $1.95

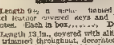


T8250—Length 9¼ in., 10-bass, pearl covered body, ornamental mount pieces and bell, bright nickel trp, 8 nickel finished keys. ½ doz. in pkg. Doz., $3.75

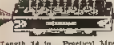
T8251—Length 9½ in., bright nickel trp, 6 nickel finished spring keys. ½ doz. in pkg. Doz., $4.25



T8252—Length 10 in., polished mahogany finish, 6 nickel finished keys. 1 bass note. Each in box Doz., $7.95



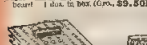
T8253—Length 9½ in., 8-note, 3-octave tuned throughout, 6 nickel finished covered keys and keyboard, 2 bass notes. Each in box,..... Doz., $7.95



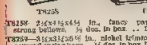
T8254—Length 13 in., covered with alligator paper, nickel trimmed throughout, decorated with brass ornaments, 9 nickel finished leather covered keys and keyboard, 2 bass notes. Each in box Each, $11.00

T8255—Length 14 in. Practical Medical Instrument of wood, smooth varnish finish, nickel and brass trimmed, 10 nickel finished, leather covered keys with spring, 2 bass notes. Each in box. Each, $1.95

PULL ACCORDIONS



T8256 16x5¾x2¾ in., Red, White and Blue paper covered. 1 doz. in box. (Cro. $8.50) Doz., 75c

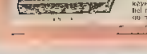


T8257—22x6 in., 3 nickel finished keys on keyboard 1 doz. in box (Cro. $9.50), Doz., 82c

T8258 21x5¾x5¼ in., fancy paper covered, strong bellows. ½ doz. in box ... Doz., $3.95

T8259—31x8¾x3⅝ in., nickel trimmed, 4 leather covered spring keys. ½ doz. in box. Doz., $22.25

T8260—31x 23x 7 in., 8 keys, nickel keyboard, 1 bass note. Each in box Doz. $4.25



T8261 — 37x7 x 7 in., 8 keys, strong bellows, nickel covered edges, brass trim med 6 nickel finished keys double bass. Each in box. Doz $6.50

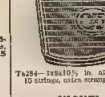
T8262 — 40x8 x 8 in., nickel trimmings, black enamel stone corners, 8 keys on nickel keyboard, double bass. Each in box Doz., $12.00

T8263—46x9 x 9 in., 10 keys, nickel keyboard, 2 bass notes. Doz., $13.50

T8264 — 43½x18 in. adjuster paper covered, trimmed nickel trimmings, 9 leather covered nickel keys, 2 bass notes. Each, $1.00

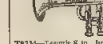
T8265—46½x18 in., 10 key leather covered keys, extra strong bellows, 2 bass notes. Each in box Each, $1.25

ZITHERS



T8284—12x4½x2½ in. of metal, brown enameled, 10 strings, extra strong keys. Each in box. Doz., $5.25

NICKEL CORNETS



T8243—Length 8 in., bright finish, 4 spring leather covered keys. ½ doz. in box.... Doz., $3.50

T8245—Length 10 in., 6 keys. ½ doz. in box. Doz., $4.25

T8244—Length 10 in., 8 keys. ½ doz. in box. Doz., $7.20

MANDOLINS

Practical Instruments, decorated with fancy colors, black key board, strong keys

T8236—STAR VALUE. 4 strings, length 23½ in. ½ doz. in pkg. ..... Doz., $2.25

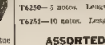
T8237—8 strings, length 14½ in. ½ doz. in pkg. Doz., $3.95

T8238—8 strings, length 18¾ in. ½ doz. in pkg. Doz., $4.25

T8239—8 strings, length 17½ in. 1/3 doz. in pkg. Doz., $7.75

NICKEL SLIDING TROMBONES

Extra heavy, bright finish



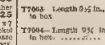
T8249 3 notes Length 8 in. 1 doz. in box Doz., $2.25

T8250—3 notes. Length 10½ in. ½ doz. in box Doz. $3.95

T8251—10 notes. Length 17 in. ½ doz. in box Doz., $7.75

ASSORTED DECORATED TRUMPETS

Embossed heavy metal, striped and fluted, and decorated in variety of colors and designs. Reinforced bells and handles.



T7098—Length 6 in. 2 doz. in box (Cro. $2.00), Doz., 18c

T7097—Length 7½ in., porcelain mouthpiece. 2 doz. in box ..(Cro., $2.75), Doz., 25c

T7065 Length 9½ in., porcelain mouthpiece. 1 doz in box (Cro., $4.00), Doz., 35c

T7064—Length 9¾ in., metal mouthpiece. 1 doz. in box. ..... (Cro., $4.25) Doz., 37c

T7065—STAR VALUE Length 12 in (Cro., $4.80), Doz., 42c

T7066—Length 12¾ in., vocal sound, chenille and gold cord decorated 1 doz. in box (Cro., $8.50) Doz., 75c

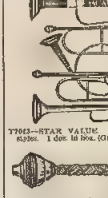
T7068—Length 13½ in., vocal sound, chenille cord decorated. 1 doz. in box (Cro., $9.50); Doz., 82c

T8625—STAR VALUE. Length 4½x3¾ in. bright nickel finish band. 8 clear notes. 1 doz. in box [illegible] Doz., $1.50

DECORATED TRUMPETS—ASSORTED SHAPES

T7012 — Length 8 in. Six styles. 1 doz. in box. (Cro., $4.00). Doz., 35c

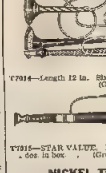
T7009 — Length 9¼ in. 8 in styles. 1 doz. in box. (Cro $4.20) Doz. 37c



T7003—STAR VALUE. Length 12½ in. Six styles. 1 doz. in box. (Cro., $7.75) Doz., 68c

T7011— Length 10½ in., combination trumpet cornet. 1 doz. in box. ...(Cro., $5.25 , Doz., 72c

T7016—Length 12 in., Nibo, bright colors, reinforced handle. 1 doz. in box (Cro. $8.50 , Doz., 75c



T7014—Length 12 in. Six styles. 1 doz in box. (Cro., $9.50), Doz., 82c

T7015—STAR VALUE. Length 13 in. Six styles. 1 doz in box (Cro., $10 00), Doz., 92c

NICKEL TRUMPETS

Extra heavy, bright nickel finish, reinforced bells, strong handle wrapped with chenille cord bell shaped mouthpiece, recoil spread Packed 1 doz in box

T6279—Length 8 in (Cro., $4.00 , Doz 35c

T6297—Length 10 in (Cro., $4.50) Doz., 40c

T6298—Length 10½ in (Cro., $7.50 Doz., 65c

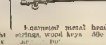
T6299—Length 12½ in (Cro., $9.00), Doz., 77c

T6300—Length 12½ in (Cro. $9.50) Doz., 82c

T6681 Length 14½ in. (Cro., $10.00 , Doz., 85c

T6682—STAR VALUE. Length 15½ in (Cro. $10.50) Doz., 90c

COMBINATION TRUMPET RATTLES



T6683—Length 8½ in., extra heavy, bright nickel finish, reinforced bell, chenille wrapped handle, coral reed, 1 doz. in box (Cro., $7.75) Doz., 67c

METAL BANJOS

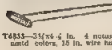
4-ornamental metal head and finger board, white [illegible] strings, wood keys. 26c Retail Value for $2.25 doz. [illegible] Doz., $2.25

WOODEN TOY HAMMER AND MALLET

T6266—Hammer length 6½ in., with loud whistle in handle, stained bright red and black. 1 doz. in pkg..... (Cro., $4.00), Doz., 32c

T6268—Mallet, length 7¾ in., neatly turned and finished head white, strong and handy. 1 doz. in box ..... (Cro., $4.50) Doz., 39c

ROLLER CHIMES



T6833—3½x6 4 in. 4 notes. 8pcm metal roller, assid colors. 10 in. wire handle. ½ doz. in box. Doz., $1.50

TUBEPHONES

Produces perfectly clear and distinct bell tones. Strong wood frame, stained heavy brass tubes, 8 in chime, ornamented ends. Brass keyboard. Each in box with 2 rock sticks.

T2441 8 tubes, size of frame 4x10 in. Doz $8.25

T2442—0 tubes, size of frame 14 x18 in. Doz $10.50

T 2443—12 tubes, size of frame 5x18 in. Doz., $13.50

T2444 15 tubes, size of frame 6x18 in. Doz., $16.00

FOLLOWING WITH ½ INCH TUBES

T2445—15 tubes 2 in. diam. frame 9½x21 in. Each, $1.85

T2446—25 tubes ½ in. diam. frame 11½x24 in. Each, $3.00

T2447—A tubes ½ in. diam., frame 12x24 in Each $3.75

CRICKET RATTLES

T8644—Size 6x6 in., 4 rockets. Makes loud noise. 1 doz in box ..... (Cro., $3.00), Doz., 25c

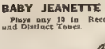
T8645 Size 6x6½ in., 4 large rockets. 1 doz. in box. (Cro., $7.50), Doz., 65c

CARNIVAL ROOTER

T98—Size 21x23½ in., heavy tin. Turning crank produces screeching sounds. 1 doz in box (Cro $9.00), Doz., 77c

BABY RATTLES

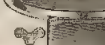
T6684—STAR VALUE. Length 5½ in., heavy aluminum, fancy design, stained wood handle. 1 doz. in box.. .... (Cro., $2.75), Doz., 25c



T6685—Length, 5 in., fancy shape aluminum rattle, metal design, carved bone handle. 1 doz. in box. (Cro., $5.50), Doz., 75c

BABY JEANETTE PHONOGRAPH

Plays any 10 in Record, Produces Clear and Distinct Tones



T781 [illegible] model, made of [illegible] highly [illegible] color and improved [illegible] plated sound box. 12 inch fast-covered turn table size 7½x8 in. Nickel [illegible] 4 [illegible] base. A new patent machine that will produce surprising results [illegible] covered to [illegible] and a [illegible] [illegible] [illegible] [illegible] Doz., $4.95.

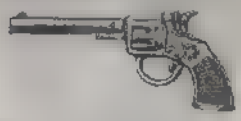
PAPER CAP PISTOLS

Extra well made and nicely finished; smooth action. Full nickel plated.

H669—Length 4¾ ins.; full nickel plated and polished; checkered grip; trigger guard; 1 dozen in box. Dozen ..... .75

H672—Little Bill, full nickel plated and polished, trigger guard, length 5¼ inches, 1 dozen in box. Dozen .... .80

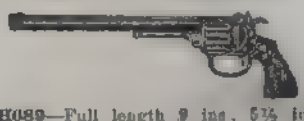
H674—Length 5¾ ins. S. & W. ins.; full nickel plated and polished; trigger guard; checkered grip; 1 dozen in box Dozen .92



H677—Navy, length 6 inches; full nickel plated and polished; trigger guard and checkered grip; 1 dozen in box. Dozen 1.15

H686—Length 7 inches; full nickel plated and polished; trigger guard scroll and checkered grip; 1 dozen in box. Dozen 1.35

H688 — Length 7¾ ins.; S. & W. pattern; full nickel plated and polished; trigger guard; checkered grip; 1 doz. in box. Doz. 1.82



H689—Full length 9 ins., 5½ in barrel; lacquered bronze finish; trigger guard, checkered grip; 1 dozen in box. Dozen 1.88

H690 — Buffalo Bill; full length 11¾ ins.; 8 in. barrel; checkered grip; trigger guard; brown finish, lacquered, 1 doz. in box. Doz. 2.15

STRIP PAPER CAPS

Convenient to Handle

H98 — Extra quality square cut caps, very loud; 50 shots on perforated sheet, 5 sheets in envelope. ½ gross envelopes in box.
Gross envelopes 4.50
Dozen envelopes ..... .40

SURE SHOT PAPER CAPS

H95—Round cut, 50 in box; 12 boxes in roll, 12 rolls in wood box.
Gross .. .65
In 10 gross lots. Gross. . .62

H96—Square cut, 1.. in box; 1 gross boxes in carton. Gross. .85

H97 Square cut, 50 in box; 1 gross boxes in carton. Gross..... .85

AERO CAP EXPLODER

Exploder—Wood ball end, metal cap holder and plunger, feather top.

H713—1 doz in box Dozen ..... .40

H714—Jumbo Caps: For Aero exploder 12 on perforated strip, 8 strips in pkge. 1 dozen pkgs. wrapped Dozen pkgs. ..... .40

Note—with each dozen exploders 5 dozen H714 caps must be ordered.

Don't overlook the "Ronson Repeater" the all year 'round seller

CAP CANES

H86—Green stained, ball end cane, nickel plated metal exploder; length 30 inches; 1 dozen in bundle. Dozen 75

H87—Ammunition, extra loud, 12 caps on perforated strip 5 strips in pkge. Dozen packages ... .40

NOTE—With each dozen canes, 8 dozen H87 ammunition must be ordered.

REPEATING CAP PISTOLS

These pistols are perfect in construction and mechanical action.

INVINCIBLE REPEATING CAP PISTOLS

Colt model, aluminum finished side loading; trigger guard; holds roll of 50 caps, size 3¼ x5½ ins.; 1 dozen in pkg.

H702—Invincible pistols when ordered in connection with 10 dozen H704 ammunition. Dozen ..... .40

H704—Ammunition, 10 dozen in box. Dozen..... .38

H703—Invincible pistols when ordered in connection with 5 dozen H704 ammunition. Dozen 1.90

H704—Ammunition, 5 dozen in box. Dozen..... .38

EXTRA AMMUNITION FOR INVINCIBLE PISTOLS

H704—Each carton contains 5 rolls of 50 shots each; 5 doz. boxes in carton (no less sold). (Total 1.90). Dozen boxes .38

NATIONAL DOUBLE ACTION REPEATING PISTOLS

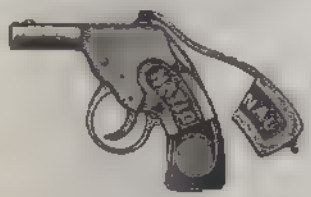
Remington model; nickel plated, checkered grip; trigger guard; holds roll of 50 caps; self feeding; length 3¾ ins.; each in carton.

H705 — National pistols when ordered in connection with 10 dozen H709 ammunition. Dozen.... .40

H709—Ammunition, 10 dozen in box. Dozen ..... .40

H706—National pistols when ordered in connection with 5 dozen H709 ammunition Dozen.. 2.00

H709—Ammunition, 5 doz. in box. Dozen ..... .40



Quickest and easiest loading pistol made; fires 50 shots with one loading; double action; hammerless, nickel plated; ½ doz. in box.

H707 — National pistols when ordered in connection with 10 dozen H709 ammunition. Dozen.... .40

H709—Ammunition, 10 dozen in box. Dozen ..... .40

H708 — National pistols when ordered in connection with 5 dozen H709 ammunition Dozen...2.00

H709—Ammunition, 5 doz. in box Dozen ..... .40

EXTRA AMMUNITION FOR NATIONAL PISTOLS

H709—Each carton contains 5 rolls of fifty shots each. 5 dozen boxes in carton (no less sold). (Total 2.00). Dozen boxes.. .40

THE RONSON REPEATER

Shoots and Flashes like a Real Gun

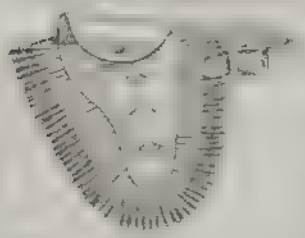
H693—Looks and handles just like a real automatic; feeds and shoots automatically; comes loaded for 5000 shots; gun metal finish, size 4½x3½ ins. Each in carton with instructions for reloading. Dozen . . . 2.00

H694—Reloads; 1 in envelope (5000 shots). Dozen envelopes... .38

Our assortments give you splendid pieces to sell either singly or as a whole and will please your most exacting customers. "Beacon" Fireworks give satisfaction all the time; send us your order.

Put All Orders for Fireworks on Separate Order Sheet from Other Goods

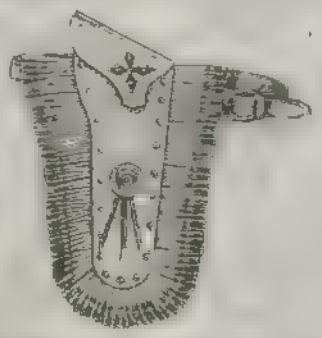
CHILDREN'S COWBOY HOLSTERS AND BELTS



H723—Good quality assorted color sheep skin, well sewed; 1½ in. fringe edge; belt 25 ins. long, 1 in. wide with black buckle; holster 4x6 ins.; with button snap flap; leather diamond and stud decorated; ¼ dozen in box. Dozen.....4.50

H725—Good quality sheepskin, assorted colors; 2 in. fringe edge; belt 30 ins. long, 1 in. wide, black buckle; holster 4x6 ins., button snap flap leather diamond stud decorated; ¼ dozen in box. Dozen.....6.75

H726—Extra heavy sheep skin, assorted colors; 2½ in. fringe edge, belt 26 ins long, 1 in. wide; black buckle; holster 4x12 ins.; leather diamond and bright stud decorated; button snap flap; each in box. Dozen 7.50



H727—Assorted color suede buck skin holsters; 2¼ in. fringe edge belt 30 ins. long, 1 in. wide with black buckle; holster 4x12½ ins. beautifully stud and assorted color leather rosette and ribbon decorated; button snap flap; each in box. Dozen 8.75

By buying from our catalogues you are constantly kept in touch with the NEW things as fast as they reach the market helping you to freshen up and brighten up the other merchandise on your counters.

COLORED PAPER BALLOONS

Each balloon complete with asbestos fire protector and fire ball

Strong paper, bright and attractive colors; ready to light; no oil or alcohol is required; anyone can successfully "send up" our balloons quickly and satisfactorily.

No.	Size	Height	In Box	Doz.
H102	10	48	1/3 doz.	1.95
H103	15	62	1/3 doz.	2.95
H104	20	75	1/4 doz.	4.25
H105	25	90	1/6 doz.	5.75
H106	30	114	1/6 doz.	7.50

PARACHUTE BALLOONS

The parachute drops when the balloon is high in the air, and it presents a very realistic balloon ascension

H110—Height 5½ ft. 1 doz. in box. Each 45

H118—Height, 10½ ft.; 1/12 doz. in box. Each 80

AIRSHIP BALLOONS

Easy to send up and sail well; wind does not affect them on account of their shape

H122—5 ft. long, 1/4 doz. Each .45
H124—12 ft. long, 1/12 doz. Ea. .80

JAPANESE LANTERNS AND PARASOLS

These lanterns are all extra well made of good stock and beautifully decorated, the bright colors of the parasols will appeal to the most fastidious

Folding "bucket" lantern; good quality stock, nicely striped in colors

T5872—Size 4½x9 ins. Doz. .38
T5873—Size 5¼x10 ins. Dozen. .45
T5874—Size 6½x13 ins. Dozen .72

T5886 Good quality paper, oblong, nicely decorated in bright colors, lacquered wood top and bottom; 1 doz in bundle; size 6x7½ ins. Dozen .45

Round folding lantern, bright color strippings

T5877—Diam. 6 ins. Dozen.. .43
T5878—Diam. 8 ins. Dozen. .85
T5879—Diam. 11 ins. Dozen .1.25

ASSORTED FOUR STYLES

Assorted shapes and decorations; bright, attractive colors; an excellent assortment

T5880—Average size, 9 ins. 72

Assorted solid colors pink, blue, green yellow and red; floral decorated in natural colors; lacquered top and bottom; 1 dozen in bundle

T5888 Size 8x11 ins. Doz. .1.15

Assorted 24 designs solid colors, floral decorated, gilt stripes; good quality paper, beautifully finished in bright colors; lacquered top and bottom; 24 in box (no less sold)

T5898—Size 8x12 ins., box of 24 Box 2.50

Assorted 12 designs, all new and attractive shapes; elaborately floral and scenic decorated in bright colors, good stripes; lacquered top and bottom 25 in box (no less sold)

T5897 Size 9x13 ins.; box of 25 Box 3.75

JAP PAPER PARASOLS

Good quality paper 18 split bamboo ribs, red and white striped; blue center field with white stars

T5938—24 inch spread, 22 in. handle. Dozen 2.75

Good quality paper, all over floral decorated in bright colors; 18 split bamboo ribs

T5948 24 inch spread, 22 in. handle. Dozen.....2.75

JAP PAPER UMBRELLAS

Extra wood [illegible] paper covered, [illegible] designs inside and [illegible]

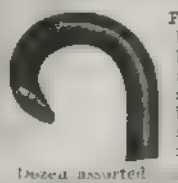
	Ea.
T5962—4 foot spread.	2.00
T5963—6 foot spread.....	3.25
T5965—8 foot spread.....	10.00

FANCY CLOTH PARASOLS

T5974 Red white and blue cloth, tassel ends, 8 metal ribs; 26½ in. bamboo crook handle, with ferrule 24 inch spread; 1 dozen in pkg. Doz. 4.25

T5988 Floral decorated cut basket in bright colors, silver striped, tassel ends; 8 metal ribs; 26½ in. bamboo crook handle with ferrule; 22 in. spread, 1 doz. in pkg. Doz. 4.50

HICKORY CROOK CANES



F437 — Assorted light, medium and heavy in light and dark brown and black finishes; highly polished; nickel steel ferrules

Dozen assorted 10.50

We make up assortments of Fireworks for special occasions; let us know your wants, and will take care of you.

Put All Orders for Fireworks on Separate Order Sheet from Other Goods

TOY STOVES AND RANGES

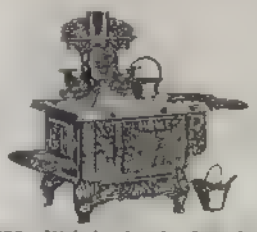
The most popular sellers at low and medium prices; every number a good value and will give satisfaction, nicely finished and polished.

T3614—Nickel plated, flat finish; four hole indicated top, with warming shelf; hinged door; length 3½ in., width 2¾ in., 4½ ins. high; 1 doz. in carton Dozen 2.40

T3615—Nickel plated, flat finish, four hole indicated top; hinged door; length 3¾ in., width 3½ in., height 4¾ inch; 1 dozen in carton Dozen 2.10

T3623—Full nickel plated, flat finish; top edge and name plate burnished; five hole; extension shelf warming oven; water reservoir hinged doors; shaker grate; complete with utensils; length 11 ins., width 5½ ins., height 9 ins. each in carton. Each 1.15

T3624—Nickel plated, flat finish seven hole; warming shelves; burnished rim and doors; reservoir, hearth and extension shelf, hinged doors; shaker grate, complete with utensils; length 12 in.; width 5½ in.; height 11¾ in.; each in carton. Each.....1.70



T3625—Nickel plated, flat finish, burnished rim and door; 5 hole, warming oven, reservoir, hearth and extension shelf; hinged doors, shaker grate; complete with utensils, length 14 in. width 6½ in. height 12½ ins. each in carton Each 2.25

T3626—Full nickel plated, flat finish; top edge burnished; 7 hole; water reservoir, extension shelf warming oven; damper; shaker grate, hinged doors, complete with utensils; length 14 ins., width 6½ ins. height 12½ ins.; each in carton Each .. 2.75

These stoves are exceptionally well constructed and nicely finished.

ALL COMPLETE WITH UTENSILS

T3618—Four hole; nickel plated, burnished edge, with warming shelf, and utensils; length 8 in., width 4¼ ins., height 5¾ inches, each in box. Dozen 4.50

T3619—Nickel plated flat finish four hole top, warming shelves, reservoir, hearth, hinged door; complete with utensils; length 8 in. width 3½ in., height 6½ in.; ¼ dozen in carton Dozen..... 5.75

T3620—Eagle range nickel plated and all parts highly polished and burnished complete with utensils, kettle, frying pan, coal hod, shovel, lifter, towel rod, loose extension shelf and hearth plate and one length of pipe; length 8 inches; height 7½ ins.; width 3½ ins.; 1 in a box Each 75

T3621—Full nickel plated, with extension plate and hearth; shaking grate, length over all 10 ins., width 5½ ins.; height 8½ ins.; hinged oven door, burnished edge; complete with fry pan, kettle, stew pan and pipe; each in box Each .. 1.35

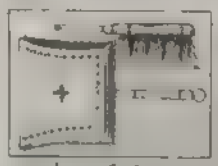
TIN RANGES

T3791—Red, blue and black enameled; with 2 in cooking pots size 3¾x5½ ins., 6 in high (top of pipe) 1½ doz. in box Dozen 95

T3792—Same as T3791, larger, with 4 cooking pots; size 5¼x8¼ ins., 7 in. high (top of pipe); double doors; 1/3 dozen in box Dozen 2.15

DUST PAN

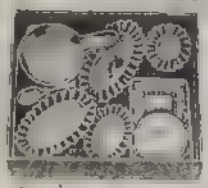
T3809—Polished metal dust pan, with brush; on card 6x10 ins.; 1 doz in pkge. Dozen ... .90



T3810—White enameled, nicely decorated, pan 6x6 ins., 9¼ in. long; brush 7½ ins. long; 1 dozen in box. Dozen 2.00

KITCHEN UTENSILS

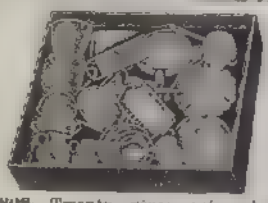
TIN SETS



T3803—Ten piece set 2 wood rolling pin and 8 tin kitchen utensils; in holly covered box 8½ x 8½ Dozen...90

GRANITE SETS

T3807—Ten piece set; blue enameled; skillet, stew pots, baking pan strainer, bucket, etc; all good size pieces, in box 6½x9½x3 ins Set 70

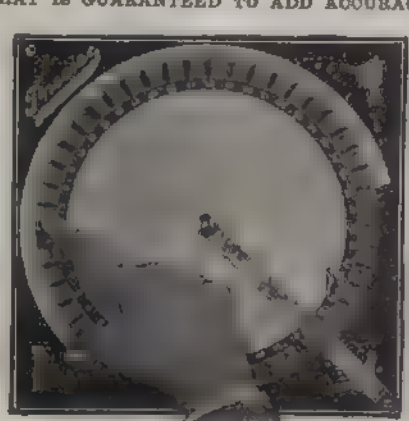


T3808—Twenty piece set nicely mottled blue enamel, cake pan, skillet, stew pot, grater, bucket, platter, etc; all large pieces; in box 10¼x12½x3 ins Set 1.38

In games we are offering the very best sellers only, cardboard, military, puzzle, novelty, etc.; good sellers with nice profits.

A TOY ADDING MACHINE

THAT IS GUARANTEED TO ADD ACCURACY



Lithographed on Metal. Size 9⅛x9¼ ins

Simple, Practical, Accurate

The best educational toy made; will teach any child to add quickly and accurately, making the learning of additions a pleasure, rather than a task. Can be used to advantage by adults, too, who work with figures. Each in box, with directions; 1 dozen in package Dozen 2.00

DISPLAY IT ON YOUR TOY COUNTER

GILBERT TOYS

represent the greatest values possible; they are toys with ideas plus the materials necessary for developing and constructing them; excellent sellers.

ERECTOR SETS

Engineering ideas in miniature; real structural building features. Exactly like the real steel girders and parts used in modern construction.

T4826-(000) Sixty-one models; perforated steel, girders, nuts, bolts, angles and wheels in lithographed labeled box, loose Doz.... .88

T4827-(00) Sixty-one models; perforated steel girders, with nuts, bolts, pulley wheels and wheels and angles. Dozen 2.15

T4828-(0)—Sixty-nine models assorted size girders, ends, pulleys, cog wheels, nuts, bolts, axles, can build swing, bridge etc. Dozen 4.25

T4829-(1)—One hundred and eleven models; large girders, ends, bushings, full set wheels, gear, bolts, screws, angles, etc.; 4 double spoke steel wheels for auto or wagon builds elevator, bridge, derrick, windmill etc. Each..... .72

T4832(1) Two hundred and eighty-one models; 571 pieces, on pasteboard form box, 4 [illegible] 90 large metal steel girders assorted, large assortment of angles, beam clamps, adjustable pulley wheels, 3 assorted brass gear and gear wheels, worm gear, 3 steel rods crank and steering etc.; will build [illegible] railway [illegible] etc.; in hardwood cabinet 15½x9x3 ins., with book of instructions. Each 3.50

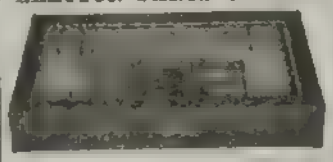
T4834-(0) Three hundred and eighty two models; assorted size rods and gears, 4 double spoke wheels, screws, nuts, etc., will build mechanical engine, extension bridge, towers, derricks, elevators, etc., in hard wood cabinet with [illegible] Each.....5.00

TWO EXTRA FINE SETS

T4833(7) Same as T4834, but with more parts; builds four hundred and ten models; in hardwood cabinet with reversing electric motor Each 7.50

T4836(8) Same as T4834, but with more parts; builds four hundred and fifty four models; in hardwood cabinet with reversing electric motor Each.....15.00

ERECTOR PARTS CABINET



This cabinet enables dealers to take care of the extra erector separate parts business; there is at all times a good demand for these extra parts and it will pay you to stock this cabinet

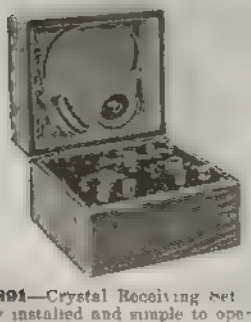
T4837 Hardwood stained and varnished, hinged glass top; making [illegible] for customer to point out [illegible] he wants, size 12¼x20x [illegible]

Retails for 22.50

Costs you 16.75

GILBERT RADIO OUTFITS

AMATEUR SET



T4891—Crystal Receiving Set easily installed and simple to operate; nothing to go wrong or get out of order; everything you need to "listen in," receiving messages up to 50 miles; nothing to wear out except the crystal which lasts 3 to 4 months; complete; hard wood cabinet Each.....7.25

PROFESSIONAL SET

T4892 Vacuum Tube [illegible] Set [illegible] detector, filament rheostat, [illegible] Dry Battery Vacuum tube receiving [illegible] switches, etc., all connections [illegible] securely soldered complete with antenna wire, insulators, double telephone head set with adjustable head band and double telephone cord; complete in box with instructions; equipped for "listening in" within a radius of 300 miles Each 17.50

TINKER TOYS

Ideal toys and games for both boys and girls; educational as well as instructive, made from selected material throughout and handsomely finished in bright colors.

TINKERTOY

T4821 Impressive; smooth turned lowels assorted lengths; grooved ends; fits into circular hardwood blocks; requires no nuts, bolts or tools for constructing; model circular enclosed; each set in strong mailing carton, 1 dozen in case. Dozen 6.00

RATTLE BOX TINKER

T4807 Oak box, dovetailed, 2x 3½ inches, natural finished, varnished, containing rattle, mounted on 3 in. wood [illegible] 36 in silk cord and ball [illegible]; 1 dozen in box [illegible] 4.20

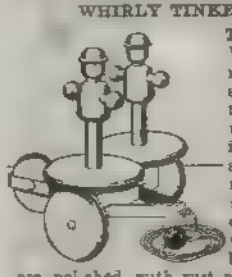
TURTLE TINKER

T4806 3 in green finished wood ball; nickeled metal frame; two 1¾ in. red wheels, 1¼ inch black ball for head made to resemble turtle, 18 in cord and ball attached; 1 dozen in box. Dozen 6.00

FOLLOW ME TINKER

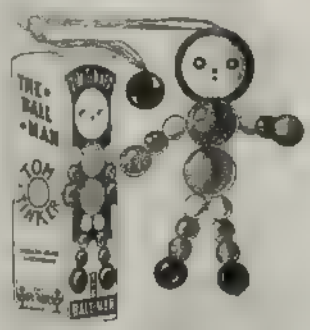
T4814—Horse a toy that's always rolling, no matter how it is placed, made of hardwood beautifully finished in attractive colors, with cord and ball; size 3x3x15 ins. 1 dozen in case. Dozen.....6.25

WHIRLY TINKER



T4813—Wire pulling this toy sets the two little men dancing, round and round fast or slow; made of hard wood, bright colors, polished, with rust proof metal trimmings; in box 8x9x3½ ins.; 1 doz. in case. Dozen 10.50

TOM TINKER



T4818—The Ball Man; made of smooth wooden balls, strung on four strong cords, can be dressed up in any style; complete in carton 1 dozen in case Dozen...4.20

BABY TINKER

T4812—A practical evolution of the rattle in indestructible form; jointed ball arms, made of wood, celluloid coated, and colors; will not wear off, in mailing tube 2¾x8 ins.; 1 doz. in case. Dozen.....4.00

BELLE TINKER

T4809—Made of hard wood bell shaped pieces in bright colorings which will not come off; cord and ball attached in carton 2½x2½x8½ ins.; 1 doz in case Dozen.....4.80

TINKER TWINS

T4815—A combination of Tom and Belle Tinker; twins made of assorted size wood balls, Belle of various size bell shaped pieces; strung on strong cords, and finished in bright colors; put up in box, 8½x11x2 ins.; 1 dozen in case. Dozen 8.40

TUMBLE TINKER

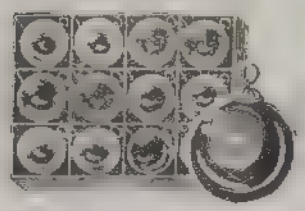
T4816—An acrobat that does a diving act in a revolving trapeze; made of metal and hard wood, highly colored and polished; in box 5x9½x2 ins. 1 dozen in case. Dozen 8.40

REAL HOLIDAY STIMULATORS

Showing just a few of the many bargain values we have to offer you throughout this catalogue, on every page from cover to cover is merchandise you can sell over your counters, and if you want the best goods in the market at the lowest prices, use this catalogue freely.

TREE ORNAMENTS

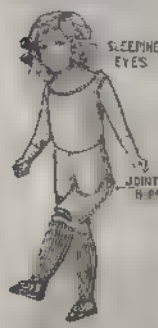
Assorted color balls



T6257—Diam. 2½ in., 1 dozen in box. Gross.....2.00

WHITE KIDOLYNE DOLLS

MOVING EYES. BISQUE HEAD AND HANDS, SHOULDER AND HIP JOINTED. OUT KNEE



White kidolyne body, well stuffed and well shoulder bisque head and hands; moving eyes, side parted wag; open mouth showing teeth; shoulder and hip and knee; stockings and slippers; asstd. in box

	Doz
GT232—Length 13 ins.	4.50
GT235—Length 15½ ins.	6.50

RIBBON TINSEL

Large 10c package retail

T6487—Consists of long strands of silver foil for Christmas tree and all Holiday decorations; in two color attractively printed carton, 4½x6¾ ins.; 1 dozen in package

Gross 7.50 Dozen.....69

ZYLONITS DUCKS

Floating

T2363—Finely modeled; length 3½ in.; 2½ in. high; 1 dozen in box. Dozen 72

CHIP CANDY BASKETS

These sell well for church Christmas tree celebrations

T5446—Red and green split chip sides; reinforced top bound handle; sizes 3¾x6½ ins., 4½x7¼x6½ ins., and 5¾x8½x7¾ ins., 3 in nest. Nest.. 24

T5447—Same, larger, sizes 5x10x7¾ ins. high; 6¾x10¾x8¾ ins. high and 8¾x11½x8½ ins. high 3 in nest. Nest.....45

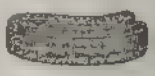
ALUMINUM KITCHEN SETS

T3852—Light weight satin finished; edges turned, riveted ears and handles; 4 pieces to set; size pudding pan 5 ins., balance proportion; in juvenile decorated box 11x11 ins. Doz.....4.25

T3854—Same but with 8 different pieces, in box 10½x17 ins. Doz.....9.50

T3854—Same but with 12 different pieces in box 15x20 ins. Set 1.25

MOVING PICTURE FILMS



Standard gauge, 1⅜ in. wide, with real action, no two alike; each 1 row assorted to the dozen.

	Doz.	Each
T3902—30 ft. long	4.25	.40
T3903—50 ft. long	6.50	.60
T3904—100 ft. long	12.00	1.10

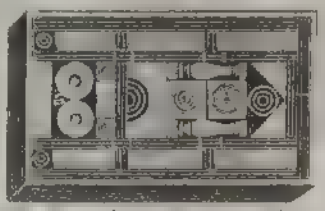
METAL SHELL DRUM

Fibre heads, adjustable rods

T7820—Fancy decorated wood rims, gilt finished metal barrel special fibre composition heads; four 3 in. djustable rods for tightening; diameter 9⅛ in., 4 in. high; 1 dozen in carton Dozen 4.35

WAGON BLOCKS

An excellent assortment of shapes and sizes



Contains a large assortment of assorted color architectural building, blocks with wheels and axles for making into a wagon, litho lined slide cover wood box

T4398—Contains 33 blocks; double layer; size box 6⅞x4½x1 in.; 1 dozen in pkge. Dozen.....1.42

NESTED BLOCKS

Always good selling Holiday merchandise

T1419—Wood blocks 5 to set, from 7⅛x1¼x1¼ ins. to 2¾x2⅛x2¾ ins., lithographed picture sides, alphabet tops; 1 dozen in pkge. Doz. .72

PARCEL DELIVERY AUTO

Strong spring, long running bright colors

T3008—Parcel delivery finished in bright colors good strong spring; size 4¼x2½x3½ ins.; each in box. Dozen 2.00

SALAD BOWL

Fine white china, floral decorated in colors

O6317—Assorted decorations, scalloped edges and bowed; floral cluster center in colors, white lustre finish; diam. 8¼ in. Dozen in pkge. Dozen 4.15

CHARACTER DOLLS

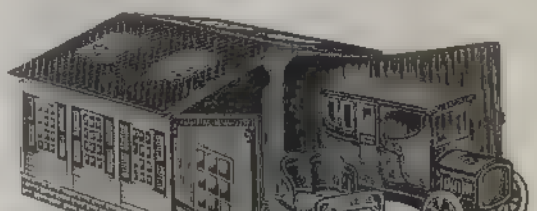
Two very catchy numbers

GT653—Papier mache body; standing; composition jointed arms and limbs; bisque head, mohair wig; sleeping eyes, "vamp" expression; assorted fancy costumes, lace and insertion trimmed with bonnets to match; painted shoes and socks; height 7 ins.; in box trim box. Dozen 5.75

GT625—Full composition; full bisque head, sleeping eyes, mohair wig; exposed teeth; shoulder and hip jointed; white lawn tucked, novelty brand trimmed costume, cap to match, chin bow silk ribbon girdle with bow knot; socks and slippers, height 10 ins. in box trim box. Doz. 8.25

LITHOGRAPHED DECORATED METAL GARAGE

With two long running mechanical Automobiles

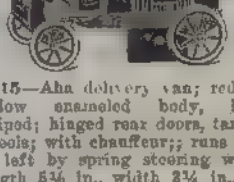


Garage lithographed in bright colors, with door, two hinged doors with latch; painted windows and sky lights; size closed 8½x6½x4½ ins. high two clock-work spring mechanical autos, roadster and limousine, attractively painted in good colors; adjustable to run straight and in circles, roadster 3x5½x3 ins., limousine 3x5x3½ ins.; complete in carton

T3150—Auto garage with autos Dozen.....7.50 Each .. .70

MECHANICAL AUTO DELIVERY VAN

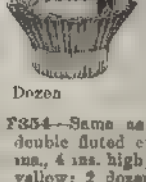
An excellent 50 center; good strong spring



T3015—Aha delivery van; red and yellow enameled body, black striped; hinged rear doors, tangent wheels; with chauffeur;; runs right or left by spring steering wheel, length 5½ in., width 2¼ in., 3¾ in high; each in box. Dozen 4.00

NUT-CUPS OR TABLE FAVORS

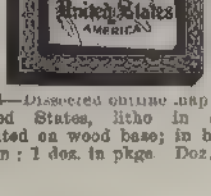
Big selling novelties for parties, birthday dinners, ets



P352—Made of the very best grade crepe paper, in red, blue, yellow and pink; diam. top 2¾ ins., 3½ ins. high; 2 dozen of a color in box Dozen 15

P354—Same as P352, larger, and double fluted crepe; diam. top 3½ ins., 4 ins. high; pink, red, blue and yellow; 2 dozen of a color in box. Dozen 60

DISSECTED MAPS



T1764—Dissected outline map of the United States, litho in colors, mounted on wood base; in box 8x9¾ in.; 1 doz. in pkge. Doz. 2.15

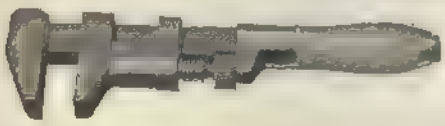
WRENCHES

KNIFE HANDLE WRENCHES

Drop forged in one piece of special high grade steel; bar extends entire length of handle; handle frame of tough malleable iron; sides of handle of selected hard wood, held securely by two rivets; head and jaw properly hardened black oil finished.

Inches	6	8	10	12
Will open, inches	⅞	1¼	1¾	2⅛
Weight per dozen, lbs.	9	16	25	40
Dozen	$15 00	18 00	22 00	28 00
Inches	**15**	**18**	**21**	
Will open, inches	2⅝	3⅛	3 15/16	
Weight per dozen, lbs.	53	80	105	
Dozen	$38 00	48 00	58 00	

STANDARD AGRICULTURAL WRENCHES



Especially adapted to the wants of the general trade; are exceedingly well made and will be found both durable and serviceable; black oiled finish.

Inches	6	8	10	12	15
Will open, in.	⅜	1¼	1¾	2	2½
Weight dozen, lbs.	9	16	24	31	55
Dozen	$10 00	12 00	14.00	18.00	24 00

COMBINATION PIPE WRENCHES

B. & C.

Head and shank drop forged in one piece; polished wood handle; combined pipe wrench and nut wrench; long nut permits easy adjustment; black finish.

Inches	Takes Pipe	Weight Dozen	Dozen
12	½-1¾ inch	40 lbs.	$ [illegible] 00
15	½-2¼ inch	56 lbs.	48 00

SOCKET BRACE WRENCHES

No. 7385

Nos.	A	B	C	D
Length, inches	5	5¾	6¼	6
Fits nut for bolt, inches	3/16	¼	5/16	3/8
Opening, inches	3/16	⅛	5/16	3/8
Dozen	$1 50	2 10	3 00	3 10

TRIMO PIPE WRENCHES

Drop forged from tool steel; inserted jaw; polished frame; japanned handle; tempered crucible steel jaws; all parts interchangeable.

Inches	Takes Pipe	Weight, Each	Number in Box	Each
6	⅛ to ½ in.	½ lb.	½ doz.	$ 2 00
8	⅛ to ¾ in.	¾ lb.	½ doz.	2 25
10	⅛ to 1 in.	1½ lb.	½ doz.	2 50
14	⅛ to 1¼ in.	3 lb.	½ doz.	3 50
18	¼ to 2 in.	5 lb.	½ doz.	5.00
24	¼ to 2½ in.	8½ lb.	½ doz.	7 25
36	½ to 3½ in.	16¾ lb.	⅙ doz.	13 50
48	1 to 5 in.	24 lb.	⅙ doz.	20 00

TRIMO WOOD HANDLE WRENCHES

Inches	6	8	10
Takes pipe	⅛ to ½ in.	⅛ to ¾ in.	⅛ to 1 in.
Each	$2.00	2 25	2 50

TRIMO PIPE WRENCH PARTS

For Iron Handle Wrench Only.

Sizes, inches		6	8	10	14
Movable Jaws	Each	$0 75	$0 80	$0.85	$1 15
Insert Jaws	Each	.35	40	.50	.60
Frames	Each	.38	.42	.50	60
Nuts	Each	12	.15	20	30
Sizes, inches		**18**	**24**	**36**	**48**
Movable Jaws	Each	$1 75	$2 25	$4 35	$7 50
Insert Jaws	Each	.70	.80	1 10	2 00
Frames	Each	.75	.95	1 70	2 20
Nuts	Each	.35	.55	1 10	1 50

FARMER'S WRENCH

No. 50 Deering Pattern

Made of finest quality malleable iron; for assembling farm machinery and implements; fits all standard nuts.

No. 50—Deering Pattern Wrench; weight dozen, 15 pounds ..... Each $0.20

TOOLS

SOCKET WRENCH SET

Contains 15 Steel Sockets; one Ratchet Handle; one 9½-inch Extension Bar

No. 13—Socket Wrench Set Each $5 50

SOCKET WRENCH SET

Contains 21 Pressed Steel Sockets; one 10-inch Ratchet Handle; one 9½-inch Extension Handle; One Universal Joint; one Double Offset Screw Driver

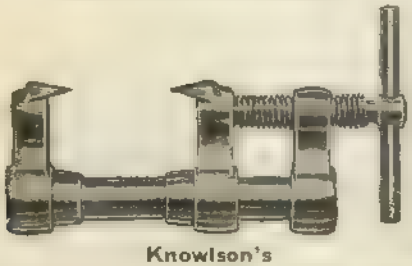
No. 10—Socket Wrench Set.. Each $0 50

SCREW DRIVER BITS

Drop forged from highest grade tool steel; fully guaranteed. Polished backs and bits.

No.		Length	Bit	Each
445	Screw Driver Bit	4¾ ins.	¼ ins.	$0 38
445	Screw Driver Bit	4¾ ins.	5/16 ins.	.38
445	Screw Driver Bit	5 ins.	⅜ ins.	.38
445	Screw Driver Bit	5½ ins.	½ ins.	42

SPRING LEAF SPREADER



Knowlson's

Spreads leaves just enough to insert the lubricant, without marring the paint; operation is quick and easy; keeps springs lively and resilient; made of drop forgings; handsomely nickel-plated and polished

Knowlson's Spring Leaf Spreader Each $2 50

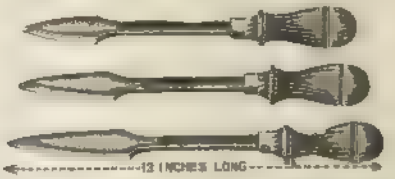
BEARING SCRAPER

Three Square

Made of finest quality tool steel. Perfectly ground and tempered

Three Square Bearing Scraper. Each $0 45

CURVED BEARING SCRAPERS



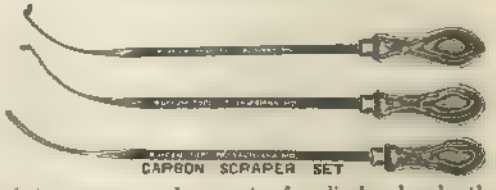
This scraper has the flat or under side depressed ⅛ inch, the cutting edges being 1/16 inch wide, so that same can be sharpened by a few rubs on an oilstone. Never necessary to put to a grinding wheel

Made of best English file steel, carefully hardened and tempered.

No.	Length	Length, Blade	Each
1202	10 inches	2½ inches	$0.60
1202	12 inches	3¼ inches	.65
1202	13 inches	4¼ inches	.70

1202—Curved Bearing Scraper Set; (One each, 10, 12, 13 inch) ..... Per set $..

CARBON SCRAPER SET



Used to scrape carbon out of cylinder heads through the spark plug and valve openings, saves tearing down an engine to clean cylinders; consists of 3 tools—one with "out" turn end, one with "in" turn end and one with "curved" end; length of tools 16 inches; polished finish; hardwood handle, mahogany finish; polished ferrule.

Carbon Scraper Sets Per set $1 00

OIL STONE

A high grade stone; mounted in neat, polished hardwood case; length 8 in.; width, 2 in.; thickness 1 in.

No. 821 Oil Stone ..... Each $2 00

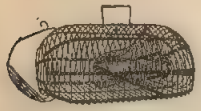
TRAPS

WIRE

MOUSE

No. 305—Midget, mouse, 5 in. diam., 3 in. high, 19 gauge coppered wire, six sheet steel coppered ribs, lacquered with patent rust proof lacquer, w't per doz. 3 lbs., per dozen $2.50

ONE DOZEN IN A PACKAGE



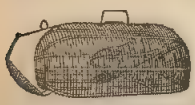
Coppered iron wire, flat steel ribs, lacquered to prevent rust, self-closing trap door.

REVONOC MOUSE

No. 408—9x5x5 in., w't per doz. 6 lbs., per dozen $9.60

HALF DOZEN IN A BUNDLE

REVONOC COMBINATION WIRE



Coppered iron wire, flat steel ribs, patent flange, safety door.

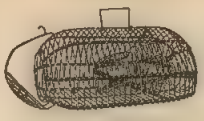
These traps are designed to catch and hold both rats and mice. Mesh wires are spaced ½ inch apart, and so locked that they cannot be forced apart. Patent flange around the opening makes it impossible for the rodent to pull down the trap door and escape.

REVONOC—16x8½x6¾ in., No. 18 wire nine flanged steel ribs, w't per doz. 32 lbs.

No. NN416—Full half dozen crate, per dozen $30.00

No. N416—Less than crate, per dozen $30.00

HALF DOZEN IN A CRATE



RAT

No. N315—Coppered iron wire, flat steel ribs, lacquered to prevent rust, self-closing trap door, 15x8½x6¾ in., w't per doz. 25 lbs., per dozen $14.40

HALF DOZEN IN A CRATE

REVONOC RAT

15x8½x6¾ in., w't per doz. 25 lbs.

No. N415—Full half dozen crate, per dozen $16.80

WE DO NOT BREAK CRATES

23x13½x7 in., w't per doz. 70 lbs.

No. NN422—Full sixth dozen bundle, per dozen $27.60

No. N 422—Less than bundle, per dozen $27.60

Coppered iron wire, sheet steel ribs self-closing tin trap door with flanged edge.

The lace wires are rigidly held in place by the heavy flanged sheet steel ribs and the trap is almost indestructible. There is a patent flange around the opening of the trap door, which prevents a rat from pulling it down after getting inside. Each trap is thoroughly lacquered to prevent rust.

REVONOC—RAT, 17x9½x7 in., No. 17 wire 9 flanged steel ribs, w't per doz. 34 lbs.

No. NN417—Full half dozen crate, per dozen $19.20

REVONOC—RAT, 19x10½x8 in., No. 16 wire, 11 flanged steel ribs, w't per doz. 41 lbs.

No. NN419—Full half dozen crate, per dozen $24.00

No. N419—Less than crate, per dozen $24.00

HALF DOZEN IN A CRATE

GOPHER

TRIUMPH

The easiest and safest trap to set. Jaws take a high grip, killing quickly. Well constructed, cannot get out of order. Gripper Jaws act independently adjusting themselves to uneven ground.

No. 51—W't per dozen 2 lbs., per dozen $3.00

ONE DOZEN IN A BOX

O. K.

No. 61—6¾x4x3 in., hardwood box, stained red, flat galvanized trigger, round coppered iron sticking bar, two strong springs w't per doz. 7 lbs. .....per dozen $4.50

ONE GROSS I A CRATE

NEW HOUSE

No. 64—All steel, length 5 in., 2¾ in., opening, w't per doz. 3¼ lbs., per dozen $4.35

MOLE

REDDICK, steel frame, height over all 24 in., six sharp steel tines, very strong, heavily tinned to prevent rusting, japanned steel spring, w't per doz. 35 lbs.,

This is a sure, sensitive and effective trap. No mole can pass under this trap and live.

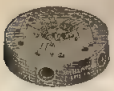
No. R16—Full half dozen crate, per dozen $16.80

No. 16—Less than crate, per dozen $16.80

HALF DOZEN IN A CRATE

MOUSE AND RAT TRAPS

WOOD CHOKER



MOUSE, one piece of wood, stained red, strong coppered steel springs, easily set.

No. 4—4 holes, diameter 4⅛ in., w't per doz. 3¾ lbs.,
per dozen $2.00

OFFICIAL

Hardwood base, double action trigger, heavy spring.

Nos.	65	66
Kind	Mouse	Rat
Size, in.	1⅞×3⅞	3⅛×8×7
W't per doz., lbs.	1¾	7
Per dozen	$0.80	2.80

The trigger is released by either upward or downward pressure. Is used by professional rat catchers.

ONE DOZEN IN A CARTON

Carry a line of goods upon which you can rely.

The dealer who carries H. S. B. & Co. Brands marks his store as a place where the better goods are sold.

A house with over sixty-seven years' experience stands back of our brands.

REVENOC

Oil stained dark color, hardwood base, wood trigger.

Nos.	87	88
Kind	Mouse	Rat
Size, in.	2×3⅝	3¼×7
W't, doz., lbs.	1¾	6½
Per dozen	$0.55	1.80

MOUSE, ONE DOZEN IN A DISPLAY CARTON; RAT, ONE DOZEN IN A BOX; ONE GROSS IN A CASE

CRUSO

CRUSO, hardwood base, tempered coppered steel spring, wood trigger.

Full crate lots.

Nos.	W85	W86
Kind	Mouse	Rat
Size, in.	2×3⅝	7×3½
W't, doz., lbs.	1	5
Crates, doz.	30	6
Per dozen	$0.35	1.70

Less than crate.

Nos.	85	86
Per dozen	$0.35	1.70

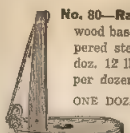
ONE DOZEN IN A BOX

"OUT-O'-SIGHT"

Hardwood base, wood trigger, coppered round striking bar, strong coppered steel spring.

Nos.	35	36
Kind	Mouse	Rat
Size, in.	3½×1¾	7×3½
W't per doz., lbs.	2	7
Per dozen	$1.50	2.80

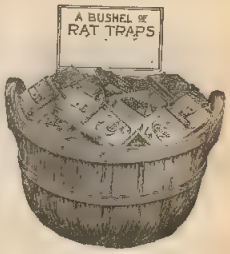
NO. 35, ONE DOZEN CARTONS IN A CARDBOARD DISPLAY BOX; NO. 36, ONE DOZEN IN A BOX



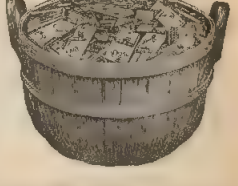
No. 80—Rat, 6×4×6 in., heavy wood base, very strong coppered steel spring, w't per doz. 12 lbs.,
per dozen $6.00

ONE DOZEN IN A CRATE

CRUSO TRAPS IN BUSHEL BASKET



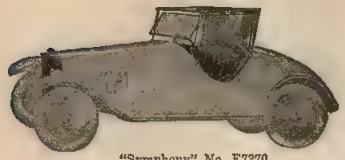
No. A154—54 Cruso Rat Traps in wide band stave bushel basket, with display card as above, w't 80 lbs. .....per basket $6 50



No. A1360—360 Cruso Mouse Traps, packed in wide band stave bushel basket, with display card as above, w't 30 lbs.,
per basket $9.00

Prices on Application.

SPECIAL BODIES FOR FORD CARS



"Symphony" No. F7370.

"Tuxedo" No. F7371.

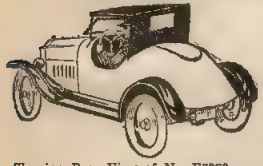
General Specifications:

Frame—Hardwood throughout, all joints properly made and securely fastened. Floor boards and dash furnished with all openings cut and wear plates furnished.
Body—22 gauge cold rolled body stock throughout.
Hood and Shell—22 gauge cold rolled body stock.
Top—Square type, collapsible, supported upon knock-down tubular frame; made of high grade pebbled finish top material; fitted with two-piece side curtains. Back of top and curtains equipped with square celluloid lights.
Windshield—Slanting, one-piece, ventilating type. Glass set in rubber in standard rolled frame.
Upholstery and Cushions—Manufactured leather pebbled or straight grain finish. French pleated and fully stuffed.
Cushion—Wood frame with oil tempered coil springs, fully stuffed and covered.
Painting—Primer, color and varnish coats. Stock colors red and brewster green. Hood and shell black baked enamel or same color as body at our option. Other colors extra and at a delay of three weeks in shipment.
Fittings—All bodies are fully equipped with necessary bolts and plates for attaching without alteration. All openings are cut in dash and floor. Floor and brake lever plates furnished. Fender irons standard equipment. Running board, dust-shield, fenders, and radiator not furnished. Bodies are built to fit any model T Ford Chassis.
IMPORTANT—In ordering, advise whether body is for old or new style radiator. Failure to do so means delay and expense.

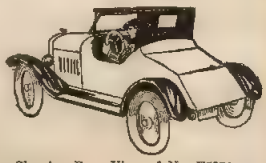
DETAILS OF SYMPHONY AND TUXEDO

Length overall, in.	120
Length overall, dash to back of cowl, in.	21
Length overall, dash to back of seat, in.	53
Extreme width of cowl, in.	37
Height of cowl from floor, in.	23
Height of seat from floor, in.	6
Height of back of seat, in.	22
Height of side of seat, in.	12½
Width of seat (outside measurement), in.	39
Width of seat (inside measurement), in.	36
Length, rear compartment bottom, in.	37
Width, rear compartment bottom, in.	37
Height, rear compartment bottom, in.	17
Size, rear compartment door, in.	17×36
Weight: crated, with top, windshield, hood and shell, lbs.	270
Without top and windshield, lbs.	250

Size of the crate, 94 in. long, 28 in. high, and 42 in. wide.



Showing Rear View of No. F7370.



Showing Rear View of No. F7371.

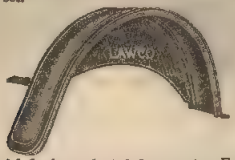
No. F7370—Symphony body complete—without top or windshield★ ..... each *$162.00*
No. F7370W—Symphony body complete—with windshield only★ ..... each *189.00*
No. F7370TW—Symphony body complete—with top and shield★ ..... each *231.50*
No. F7371—Tuxedo body—without top or windshield★ ..... each *120.00*
No. F7371W—Tuxedo body—with windshield only★ ..... each *146.50*
No. F7371TW—Tuxedo body—with top and shield★ ..... each *189.00*

NOTE—Hood and shell of Tuxedo interchangeable with 1917-20 Ford model. Body alone without shell and hood purchased and applied to a standard model T chassis.

★ Items Marked Thus ★ are Shipped from Factory Only.

COMMERCIAL FENDERS
FOR FORD CHASSIS

When a Ford car is converted into a commercial car, a pair of these fenders are necessary as the fenders which are furnished with the Ford chassis will not allow a body to be put on. The fenders here shown are made of heavy gauge steel with two coats of lustrous black enamel, baked on. They match the front fenders and are easily attached. Two in a set.



Commercial fenders adapted for one ton Ford trucks, for use with all truck units and Smith Form-A-Trucks, extra heavy steel, two irons and apron, very rigid and strong.

No. F7431

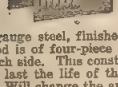
1 pair to a crate, w't 33 lbs.★ ....per pair $8.00
5 pair to a crate, w't 135 lbs.★ .....per pair 7.50

This Fender is designed to be used on Ford trucks, wherever a Ford has been remodeled into a delivery car. Easily installed. Finished in black enamel to match the front fenders furnished with Ford cars.

No. F7430

1 pair to a crate, w't 35 lbs.★ .....per pair $7.60
5 pair to a crate, w't 130 lbs.★ .....per pair 7.00

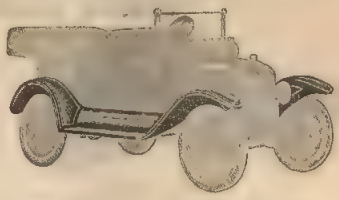
HOODS
—FOR FORD CARS—



Made of heavy gauge steel, finished with two coats of black enamel. Hood is of four-piece construction, hinged in center and on each side. This construction is in general use today and will last the life of the car. For all 1917 to 1921 Ford cars. Will change the appearance of a 1915-1916 Ford when used with our No. T7457 Radiator to that of a 1921 Model.

No. F7398—1721—1 pair to a carton, w't 22 lbs.,
each★ $6.70
No. F7399—5 pairs to a crate, w't 80 lbs.,
each★ 6.00

LAWCO INTERCHANGEABLE FENDERS



FOR 1917 TO 1921 FORD CARS

These Fenders are duplicates of the regular equipment on 1921 Ford cars and can be attached easily to all Models of 1917 and later. Made of the same gauge of material as used in the Ford Fender and finished with two (2) coats of high grade black enamel.

No. W7426—W't per set 85 lbs. . .....per set $20.00

ONE SET IN A CRATE

RUNNING BOARD SHIELDS
LAWCO

The Shields are made to fit Ford cars manufactured from 1917 to 1921. Exact duplicates as furnished on 1921 cars, manufactured of heavy gauge steel finished in two coats of black enamel. These shields will fit all Model T Fords, 1911 to 1921 if our No. W7426 Fenders are used in connection with them on 1911 to 1917 Models.

No. W7427—1 pair to a crate, w't 31 lbs.,
per pair $6.70
No. F7428—5 pairs to a crate, w't 105 lbs.,
per pair★ $3.00

SHIPPING FACILITIES

With our immense stock and very modern facilities for shipments we are enabled to fill orders with unequaled promptness. On some of the roads we have special through cars which enable us to reach distant points 24 hours ahead of shipments made in the regular way.

★ Items Marked Thus ★ Are Shipped From Factory Only.

STIMULATORS

ALL METAL DRUMS

Juvenile and Circus Designs

These are exclusively our designs and values -note our sizes and prices.

Exceptionally well made, white enameled heads, black hoops, heavy cord head adjustment, each with 2 smooth finish drum sticks, in corrugated shipping carton.

F790—5½ in. 3 doz. in carton. (Total $2.70) Doz. **$0.92**

F794—7 in. 2 doz. in carton. (Total $3.70) Doz. **1.85**

17½ IN. IMPORTED DECORATED TIN TRUMPET

Bright silver finish, gold braid and chenille wound. A heavy favorite with Holiday shoppers.

F6894—17½ in. bright silver finish, gold braid and chenille wound, round wire handle, lined bell 1 doz. in box Doz. **$2.75**

PLUSH TEDDY BEARS

Sleeping Eyes

They're just as popular as ever this season and these are the market's best values.

Cinnamon long pile fine quality plush, well stuffed full size bodies, cork stuffed turning head, composition moving eyes, jointed limbs, fine noses, stitched mouth and nose, ribbon bow and band, strong voices 1 in box.

	Each.	
F6108—17 "	"	2.10
F6109—19 "	"	2.40

"A B C" Play Balls

Our new design with the following features: Extra high bounce, very high embossing bringing out the letters and numerals distinctly, exceptional size and price.

Pure white stock, exceptionally heavy wall construction in order that they may stand extra inflation and bounce much better than the average ball. Packed in special fancy label metal corner box with full telescope cover

F1614—6 in. diam. ½ doz. in box. DOZ **$3.75**

F1615—7 in. diam. ½ doz. in box. Doz. **$8.25**

LOCOMOTIVE AND TENDER FRICTION TOY

The biggest dollar value that you can offer your trade

F3303—18x5x5½ in., red enameled body, gilt wheels and trim, ½ doz. in box. Doz. **$8.00**

"Popular" Imported Dressed Doll Asst.

It will be hard to keep enough of these in stock at the price you can make.

F6026—5 styles, 10 in., turning bisque heads, glass eyes, mohair wigs, jointed shoulders and hips, lowered center crepe and solid color saya dresses, French and baby styles, pongee braid trimmings, straw and fabric hats, underwear, painted shoes and stockings. Asstd. ½ doz. in pkg. Doz. **$2.25**

RACING AUTO MECHANICAL TOY

One of the best values in mechanical toys that we have ever offered -and that's saying a lot.

F3258—9½x3½ in., red body yellow wire gilt trim, enameled clock spring between rear wheels, lithe chauffeur ½ doz. in box Doz. **$7.00**

IMPORTED COMPOSITION BODY CHARACTER BABIES

Two leader values in imported dolls that should be on your counters.

Turning bisque heads, painted features, flesh tinted composition bodies, position limbs, hip and shoulder joints, lace trim slips with ribbon bows

F6310—9 in. painted hair ½ doz. in box Doz. **$2.25**

F6311—11½ in. painted hair ½ doz. in box Doz. **5.25**

ALL STEEL ENGLISH DOLL PERAMBULATOR

Display this perambulator with your line of dolls and you'll have mighty satisfactory sales.

F287—Ht. 27½ in., steel frame 19½x8½ in., 7 in. wire spoke wheels, heavy rubber tires, 2 bow heavy leatherette hood side curtains and footwell, fine steel gunner, enameled wood cross handle 15 in. carton, 10 lbs. Each. **$2.25**

BASEBALL BATS

No. 40TC Ty Cobb Model. Hand made of extra selected second growth mountain white ash, highly polished, golden finish. Gradual tapered barrel with thin handle. Exact model used by Cobb for 12 years. None genuine without registered trade mark, photo and autograph transfer of Ty Cobb Length 32 to 36 in., assorted weights....per dozen. **$30.00**

One in a paper bag, three dozen in a crate
Weight 100 pounds

No. 40 Louisville Slugger. Hand turned, made of selected second growth ash, straight grained, natural finish, highly polished. Assorted models, lengths 32 to 36 inches, assorted weights, per dozen, **$30.00**

One in a paper bag, three dozen in a crate
Weight 100 pounds

No. 100T Cherokee. Hand turned, selected second growth ash, straight grained, golden finish, highly polished. Taped handle, assorted models. Lengths 32 to 36 inches, assorted.....per dozen, **$21.00**

One in a paper bag, three dozen in a crate
Weight 110 pounds

No. 100 Professional Model. Hand turned, second growth ash, straight grain, natural finish, highly shellac polished. Assorted models. Lengths 32 to 36 inches, assorted weights .....per dozen, **$21.00**

One in a paper bag, three dozen in a crate
Weight 110 pounds

No. 75 Safe Hit. Made of second growth white ash, straight grained, natural shellac finish, highly polished. Transfer and branded. Lengths 32 to 36 inches, assorted weights .....per dozen, **$18.00**

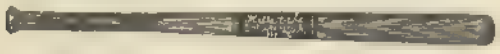
One in a paper bag, three dozen in a crate
Weight 110 pounds

No. 50 King of the Field. Second growth ash, straight grained, new golden finish, highly polished, with transfer and branded. Lengths 32 to 35 inches, assorted weights .....per dozen, **$12.00**

One in a paper bag, three dozen in a crate
Weight 110 pounds

No. 025 Boy's Model. Made of ash, flame burnt, golden finish, highly polished. Length 32 inches.....
.....per dozen, **$6.00**

Three dozen in a crate. Weight 75 pounds



No. 10 Crackerjack. Made of ash, green stained, highly polished. Length 28 inches.....per dozen, **$3.00**

Six dozen in a crate

SHOE PLATES

Reach Special

Hand forged tempered steel, beveled edge and points. Will not bend or break. Complete with screws.

No. 1T. Toe plates, weight 4 ounces.....per pair, **$0.75**
No. 1H. Heel plates, weight 3 ounces.....per pair, **.75**

REACH CATCHERS' MITTS

PERFECT CATCHERS'

Double face, moulded model. Made entirely of finest selected Reaco brown calfskin. Fitted with patent holdfast back and King adjustable, hand formed padding. Leather binding and leather welted seams. Strap and buckle thumb adjustment.

No. 12A. Weight 39 ounces..
.....each, **$25.00**

MOULDED MODEL

Made of Reaco brown tan horsehide. Full moulded face and pocket. Leather binding and lacing. Special hand formed padding, forming deep pocket. Reinforced back. Strap and buckle at thumb. Leather extension on back protects wrist

No. 41. Weight 38 ounces...
.....each, **$16.00**

LEAGUE MODEL

Made with brown tan Reaco horsehide face and fingers. Brown leather back. Cowhide strip. Leather laced. Strap and buckle thumb adjustment. Double stitched. Strap and buckle with buckle protector at wrist. Full size, regulation model.

No. BP. Weight 34 ounces..
.....each, **$9.00**

ASSOCIATION MODEL

Face and fingers are made of brown tan mitten leather. Black leather back and strip. Leather laced. Double stitched seams on strip and fingers. Strap and buckle back, with protector at wrist. Strap and buckle thumb adjustment. Regulation model.

No. 200. Weight 26 ounces...
.....each, **$7.00**

MEN'S AMATEUR MODEL

This mitt has an olive tan mitten leather face and fingers and wine leatherette back and strip. Laced edge Strap and buckle at wrist. Laced pieces between thumb and body of mitt. Medium size model

No. FP. Weight 28 ounces..
.....each, **$4.00**

JUNIOR MODEL

Tan leather face and fingers. Khaki back. Leatherette strip. Strap and button at wrist. Lacing adjustment at thumb. Youth's size.

No. 65X. Weight 13½ ounces
..... each, **$2.00**

All above, one in a box

See note at bottom of right hand column on following page.

REACH BASEMEN'S MITTS

SPECIAL MODEL

Reaco brown tan horse hide, one piece face. Hand made hinge padding Leather laced and bound. Adjusting strap and buckle at thumb Medium padding, with deep, flexible pocket

No.4S. Weight 20 oz.,each, **$13.00**

HINGE MODEL

Olive Reaco grain leather. Glove thumb. Hand formed hinge pad. Leather binding and lacing. Buckle and adjusting strap on thumb. Medium padding

No.4B. Weight 17½ oz., ea., **$8.80**

GRABBER MODEL

Brown mitten leather. Hand made pad. Leather laced, double stitched seams. Thumb strap adjustment. Full size

No.R. Weight 18 oz..Each, **$5.00**

REACH AMATEUR MODEL

Black leather face. Khaki back and finger pocket. Leather laced around entire edge Thumb strap adjustment. Hand made pad.

No.3R. Weight 13½ oz..each **$3.50**

REACH FIELDERS' GLOVES

PATENT LACED MODEL

Special drab Reaco horse hide Lined with soft glove leather Leather binding, welted seams Fitted with King patent lacing device for change of padding. Extra layer of padding with each glove.

No. KG. Weight 20 ounces... ....each, **$11.00**

No. OBL. Weight 13 ounces.. .....each, **10.00**

REGULATION MODEL

Drab horse hide. Lined with soft glove leather. Leather binding. Welted seams. Made on the OBL model. Medium padding. Requires no breaking in.

No.SW. Weight 12 oz..each, **$9.00**

See note at bottom of next column

All above, one in a box

REACH FIELDERS' GLOVES

SPECIAL LACED MODEL

Selected black grain glove leather. Leather lining. Leather binding. Welted seams. The lacing device permits rearrangement of padding. Medium padded in heel and fingers.

No. 7G. Weight 13½ oz...each, **$7.00**

SEMI-PRO MODEL

Special olive tan glove leather, full leather lining. Welted seams. Made on No. OBL model, with medium padding and flexible pocket.

No. 9G. Weight 13½ oz..each, **$6.00**

LACED MODEL

Brown tan glove leather. Leather palm lining. Laced wrist permits adjustment of padding. Is made on a duplicate model of higher grades.

No. 10G. Weight 12 oz...each, **$4.80**

See note at bottom of column.

YOUTHS' SPECIAL MODEL

Brown tan leather. Khaki lined, with leather palm lining. Welted seams

No. 5A. Weight 7½ oz...each, **$3.00**

BOYS' SPECIAL MODEL

Made of glove leather, full size youths' model. Well padded with felt. Leather palm lining.

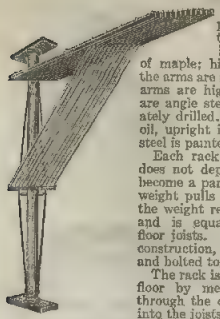
No.18C. Weight 2½ oz..each, **$2.00**

All above, one in a box

NOTE—All gloves and mitts are made in rights and lefts. Lefts are **regular,** and are used by players who throw with their right hand; rights are called "full rights," and are used by players who throw with their left hand. "Full rights" carried in stock only in No. SW and No. 10G gloves and all others in stock are regular, but can ship any in "full rights" from factory.

RUG DISPLAY RACKS

"BEST"



The upright which support the arms is made of thoroughly seasoned long leaf yellow pine; arms are of maple; hinges which are riveted to the arms are malleable iron; braces under arms are high carbon steel; hinge-bars are angle steel, hand-forged and accurately drilled. The arms are finished in oil, upright is painted two coats. The steel is painted and varnished.

Each rack is complete in itself and does not depend upon the building to become a part of it. Not one pound of weight pulls on the ceiling or walls, as the weight rests entirely upon the floor and is equally distributed over the floor joists. No nails are used in their construction, and all parts are mortised and bolted together.

The rack is fastened to the ceiling and floor by means of lag screws going through the ceiling plates (of the rack) into the joists or beams.

Equipped with 9 Foot Arms.

Under ceilings 12 feet 10 inches high or higher, the top of 9 foot arms is generally placed 12 feet 4 inches above the floor. This makes a 9x12 rug clear the floor about 6 inches, as the rugs are raised 2 inches above the arms when hung.

Where ceilings are less than 12 feet 10 inches, even as low as 12 feet 3 inches, the rugs can be hung the 12 foot way, up and down, but they will necessarily hang nearer the ceiling and floor. Under ceilings less than 12 feet, rugs can be turned in at the top or bottom—simply a matter of choice, or they can be displayed landscape on 12 foot arms.

Each arm displays two rugs.

	Each
No. 15—15 arms; capacity 30 rugs	✣$260 25
No. 20—20 arms; capacity 40 rugs	✣ 346 80
No. 25—25 arms; capacity 50 rugs	✣ 433 50
No. 30—30 arms; capacity 60 rugs	✣ 520 50
No. 35—35 arms; capacity 70 rugs	✣ 606 00
No. 40—40 arms; capacity 80 rugs	✣ 693 75

Shipped K. D.

Note—For 10 ft. 6 in. arms add 45 per arm; for 11 ft. 3 in. arms add 60 per arm; for 12 ft. arms add 60 per arm.

In case less than 15 arms are desired we will furnish the 15 arm unit or rack with as few as 10 arms allowing 400 per arm for each arm less than 15, but not less than 10. Inasmuch as the hinge-bars are drilled for 15 arms the other 5 may be added as they are needed.

DISPLAY STANDS

BROOM AND GROCERS

Plain, stands on casters, made entirely of iron; holds fifteen floor brooms, besides brushes, etc.; only occupies space of sugar barrel.

Prices on application.

	Each
No. 1—Weight each 22 pounds	

One in a crate, K. D.

✣F. O. B. Illinois Factory Only.

AXE DISPLAY RACKS

HARLAN

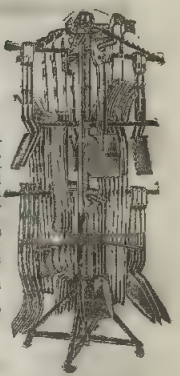
Cast iron base; hardwood, oil finished top fitted with roller bearings.

A compact and most convenient display rack.

Nos.	1	2
Capacity axes, dozen	3	6
Weight each, lbs.	65	75
Each	$48 00	66 00

Crated.

TOOL RACKS



Made entirely of steel and malleable iron, handsomely painted. All bracket arms are interchangeable. The rack is ball-bearing and mounted on heavy casters. Each tool can be removed without disturbing the others.

Height over all 9½ ft.; occupies floor space 2' 2" x 2' 1"; capacity 186 agricultural tools and 1 dozen axes.

	Each
No. A—Shipping weight each 225 lbs.	✣$163 50

One in a crate.

ADJUSTABLE

Occupies floor space 36 in. by 96 in. by 8 ft. high. Equal to 20 ft. of wall space if tools are hung on wall.

Holds 300 to 500 pieces of garden hoes, forks, rakes, handles, scythe snaths, shovels and all handled steel goods. Will take care of all handles by setting them on end in the middle division of rack. Scythes are set on end, heel down, fitting in a wire bracket.

Bolted together and mounted on six good casters.

	Each
No. 75—Hardwood, painted carmine red	✣$204 00
No. 75GO—Golden oak finish	✣ 222 00
No. 75MO—Mission oak finish	✣ 222 00

Shipped knocked down; wt. each about 280 lbs.

✣No. A—F. O. B. Ohio Factory Only.

✣No. 75—F. O. B. Illinois Factory Only.

"UNIVERSAL" ELECTRIC CLOTHES WASHER

Simple, rigid construction. Fully enclosed cabinet. Noiseless in operation. Cylinder reverses every other revolution combining advantages of revolving and oscillating principle. Latest improved safety features applied to washer, wringer and motor.

No. W1930—Fitted with 110 volt, 60 cycle, alternating current motor, each $245.00

For D. C. voltage motors, add $5.00 extra.

SAFETY: All moving parts of the "Universal" Clothes Washer are entirely enclosed, eliminating any danger to children or to the operator from clothes caught in the motor or driving mechanism. The machine can only be started by a positive motion—shifting the control lever to its correct position—the quick release control stops the machine by simply striking outward the knob of the control lever. The tension of the wringer rolls can be instantly released by one stroke of the hand. All electric connections thoroughly insulated.

EFFICIENCY: The principle of the "Universal" Electric Clothes Washer combines the advantages of both revolving and oscillating type washers. By comparative tests the "Universal" Electric Clothes Washer has proved to be in a class by itself when it comes to thoroughly cleaning both the daintiest and heaviest fabrics in the quickest time and with the least possible labor.

SIMPLICITY AND DURABILITY: The control is simple, handy and very easily operated All mechanism is easily accessible by removing one of the side panels—will not require the constant service which has been the bug-bear of most Electric Clothes Washers.

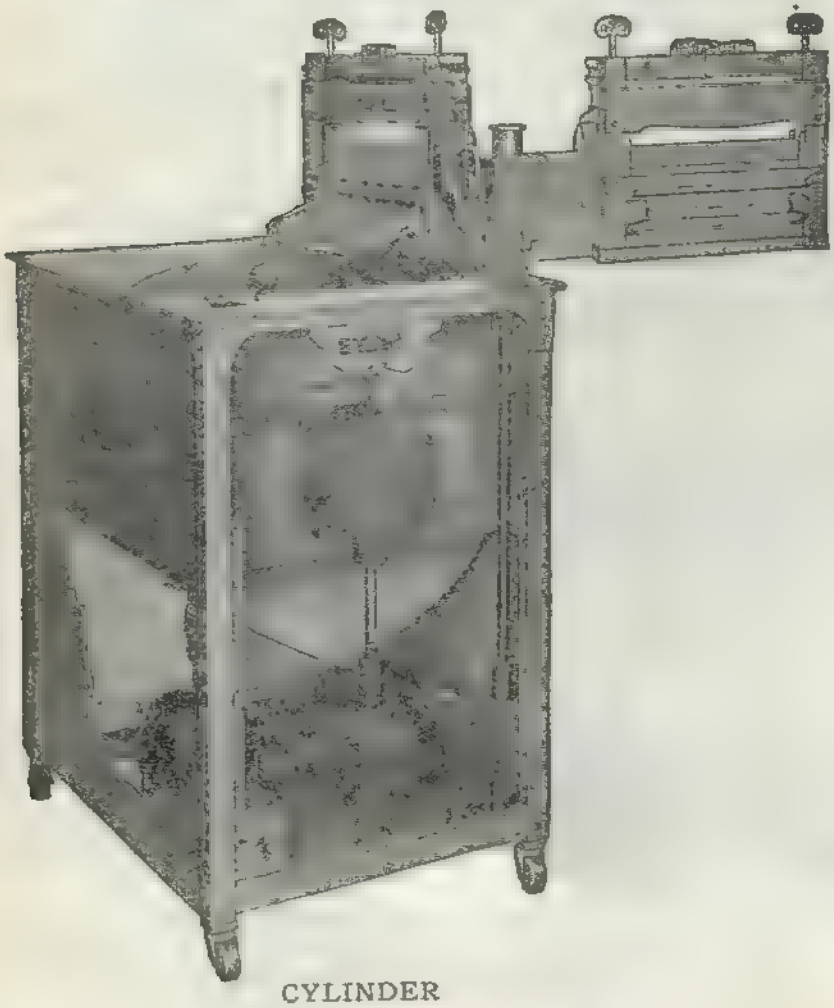
MECHANICAL SUPERIORITY: The machine equipped throughout with accurately cut gears completely enclosed and running in oil, eliminating the usual lubricating troubles on Washing Machines. In ordinary family use these parts will not have to be oiled for several years. It will give service for a life time if used according to factory directions.

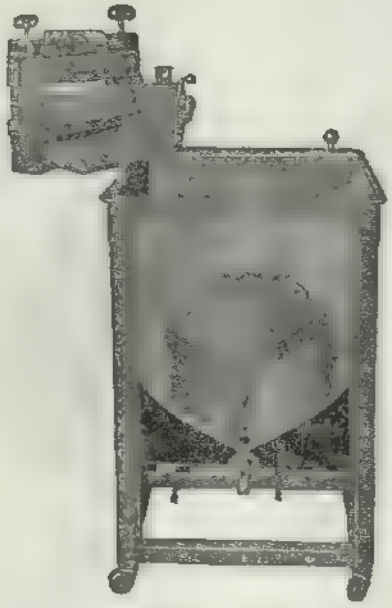
Latest improved swinging wringer, cannot be operated unless locked in position. Position cannot be changed while the rolls are in motion.

The cylinder automatically stops with opening at the top and locks in that position thus preventing the cylinder from rolling while clothes are being put in or taken out.

ATTRACTIVENESS: In appearance the "Universal" leads the field. The neat cabinet in which the whole machine is enclosed is beautifully decorated in distinctive blue gray enamel with decorative trade mark design. This gives an ornamental feature to the machine which appeals to the housewife who takes pride in her household equipment.

"UNIVERSAL" ELECTRIC CLOTHES WASHER





Sectional view showing quick draining tub construction

CYLINDER

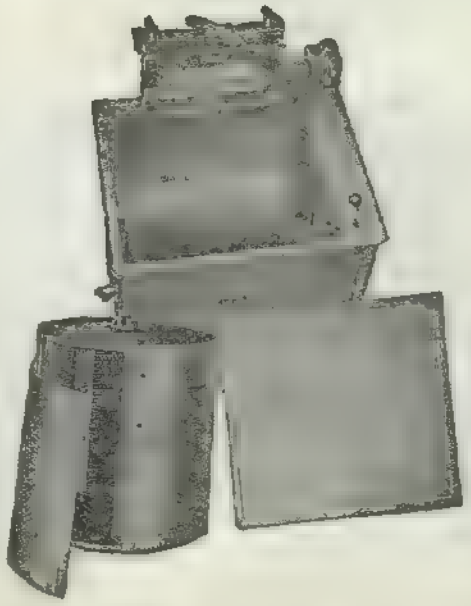
Durable, sanitary, zinc cylinder, reversible type. Length 18½ in. Diameter inside 18 in. Weight 19 lbs. Easily removed and cleaned. Size and construction of cylinder holes prevents possible injury to most delicate fabric.

The cylinder revolves twice one way and then reverses, revolving twice in the opposite direction, making 18 complete revolutions per minute. Action combines the advantages of both revolving and oscillating type washers. When not operating cylinder automatically locks in position with opening at top, a very desirable feature.

There are 5 Maple Lifters on the inside of cylinder which carry the clothes up until they fall back of their own weight into the hot suds. The action of hot suds surging through the clothes as they fall, washes out the dirt.

TUB

Quick draining, easily cleaned, galvanized tub with settling zone. Drain cock outside of cabinet 10¾ in. from floor, has threaded end for attaching hose, if desired.



Cylinder and cover removed showing inside of tub

"UNIVERSAL" CAMERAS

Made for Butler Brothers by Burke and James, Inc., makers of the famous "Rexo" Camera. There is no maker of Cameras in America that stands higher in the opinion of scientific men. That is why among all the Cameras makers of Europe and America they were selected to build Aeroplane Cameras for the British Army. Universal Cameras are sturdily built. The frame is more solid and stronger than other makes. Each Camera in the "Universal" line is a beautiful, finished instrument that will do perfect work. No Camera leaves the Burke and James, Inc. factory until it has passed the company's laboratory tests. This means that every Camera shipped is a perfect one. Butler Brothers are pleased to say that this is the first time the old and reliable corporation of Burke and James Inc. has ever sold a Camera through any other than its own agents.

UNIVERSAL CAMERAS

Five distinctive features found in every folding "Universal" camera

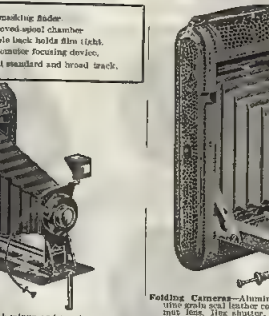
1—Self masking finder
2—Improved spiral chamber
3—Double back holds film tight.
4—Micrometer focusing device.
5—Rigid standard and broad track.

Box Cameras—Wood and metal construction covered with very durable imitation embossed leather, universal focus meniscus lens, 3 diaphragm stops, automatic shutter for both time and instantaneous exposure, new metal spool holding device insures quick loading and smooth winding of film, burnished brilliant view finders of a large size (except 1K6176), absolutely light tight

1K6176		1 in pkg.	
1K6179	Mfrs.' size of pictures 2¼x2¼	Each	$1.88
1K5177	" 2A " " 2¼x4¼	"	2.63
1K5178	" 3 " " 3¼x4¼	"	3.38

Junior Folding Camera—Aluminum and wood construction covered with imitation leather, covered double bellows, rapid rectilinear lens, Wollensak shutter, time bulb, 1-25, 1-50, 1-100 second graduations

1K5180	Mfrs.' size of picture 2¼x3¼	1 in pkg.	$9.75
1K5171	" 3A Jr. " 3¼x5½	"	14.25



Folding Cameras—Aluminum and wood construction, genuine grain seal leather covered, rigidly formed "S" swinging front, Ilex shutter, time bulb, 1-25, 1-50, 1-100 and 1-200 second graduations. Double back prevents fogging. Reversible finders insure sharp and clear pictures. Rich Unished standard and wide track

1K5172	Mfrs.' size of picture 2¼x3¼	1 in pkg.	Each
1K5173	" 3A " 3¼x5½	"	$16.50
			20.00

FOCUS ADJUSTOR

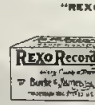
Vest Pocket Folding Camera—Aluminum body, morocco grain leather covered, rapid rectilinear lens and Ilex shutter, time bulb, 1-25, 1-50 second graduations. Equipped with one piece standard, operates on wide track, very rigid, each part locks perfectly

1K5174	Size of picture 1¾x2¾	Each	$7.50

Coat Pocket Folding Camera—Aluminum construction throughout, genuine grain seal leather covered, rapid rectilinear lens, Ilex shutter, time bulb, 1-25, 1-50, 1-100 second graduations. The wide back insures rigidity and interesting gumshoe between lens and plate of ample. Simplified loading device has swinging spool by means which enable easy and quick loading

1K5175	Size of picture 2¼x3¼	Each	$9.75

"REXO" FILMS



Very rapid, reproducing to a minimum your under exposures, highly ortho-chromatic giving superior results in photographing landscapes, flowers and colored objects. Made in sizes fitting all popular makes of cameras.

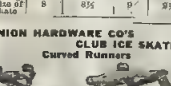
1K4497	1½x2½, 8 exposures, vest pocket Universal	Roll,	19c
1K4498	1¾x2¾, 8 exposure, Universal vest pocket Kodak or No. 2 Brownie and No. 2 Pocket Folding	Roll,	19c
1K4499	2¼x3¼, 6 exposure 1A Universal Jr. or Universal Box 1A Kodak or No. 1 Folding Brownie	Roll,	19c
1K4500	3¼x5½, 6 exposure, No. 3 Universal Box	Roll,	33c
1K4501	3¼x5½, 6 exposure, 3A "Universal" box, 3A Kodak, 3A Universal Junior, 3A "Universal" box, 3A Kodak, 3A Folding Brownie	Roll,	41c

ICE SKATES

The Union Hardware Co's skates have established such an enviable reputation for satisfactory service that they are in big demand everywhere. Simply to carry them in stock and display them well is to insure your store a profitable skate business.

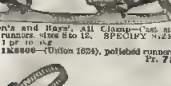
Chart showing proper size skate for shoes													
Size of Shoes	11, 11½	12, 12½	13, 13½	1, 1½	2, 2½	3, 3½	4, 4½	5, 5½	6, 6½	7, 7½	8, 8½	9, 9½	10, 10½
Size of Skate	8	8½	9	9½	10	10½	11	11½	12				

UNION HARDWARE CO'S CLUB ICE SKATES
Curved Runners

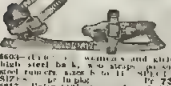


Men's and Boys', All Clamp—Cast steel runners, sizes 8 to 12. SPECIFY SIZES

1K4502	1 pr. in pkg.	Pr. 72c
1K4506	(Union 1624), polished runners	Pr. 72c



1K4503	(Union 1), women's and girls', high steel back, with rubber cap toe clamp, polished steel runner. Sizes 8 to 11. SPECIFY SIZES	1 pr. in pkg. Pr. 73c
1K5117	(Union 1624), women's and girls' high steel back, with rubber cap toe clamp, polished steel runner. Sizes 8 to 11. SPECIFY SIZES	1 pr. in pkg. Pr. 65c

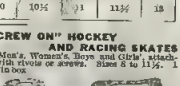


1K4618	(Union 1624½), women's and girls', high leather back, with strap, toe clamp, nickel plated steel runners. Sizes 8 to 11. SPECIFY SIZES	1 pr. in pkg. Pr. $1.25

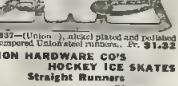
"SCREW ON" HOCKEY AND RACING SKATES

Men's, Women's, Boys' and Girls' attached with rivets or screws. Sizes 8 to 11½.

	1 pair in box	
1K4637	(Union 1), nickel plated and polished tempered Union steel runners	Pr. $1.32



UNION HARDWARE CO'S HOCKEY ICE SKATES
Straight Runners

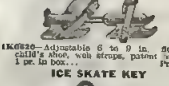


Men's and Boys' Toe and heel clamp. Sizes 8½ to 11½. SPECIFY SIZES

	1 pr. in box with key	
1K4640	(Union 1624½), polished steel runners	Pr. $1.05
1K4631	(Union 1624½), nickeled carbon steel runners	Pr. $1.35
1K4633	(Union 724), nickel plated and polished tempered steel runners	Pr. $1.80

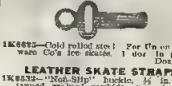
1K4634	(Union 834½), women's and girls', leather back and strap, toe clamp, polished steel runners. Sizes 8½ to 11. SPECIFY SIZES	1 pr. in box with key Pr. $1.38

EXTENSION SLED SKATE



1K4630	Adjustable 6 to 9 in. fits any child's shoe, with straps, patent buckles	1 pr. in box Pr. 46c

ICE SKATE KEY



1K4625	Cold rolled steel. For Union Hardware Co's ice skates	Doz. 25c

LEATHER SKATE STRAPS

1K4532	"Non-Slip" buckle, ½ in., oak tanned grained cowhide, creased edges, sewed, lengths 16 to 20 in.	2 doz. in bdl. Doz. 42c

PLANERT'S "NORTHLIGHT" TUBULAR RACING ICE SKATES
Complete With Shoes

Men, by champion exhibition and racing skaters.

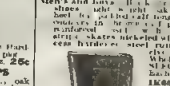
(Mfrs. 20). Tool steel runners, 1 inch tubing, cups and tubes, aluminum finish, dark chrome tanned leather shoes. Lined to the pattern tempered steel, galvanized steel screws. SPECIFY SIZES. 1 pr. in box

1K5515	Men's 6 to 11. 1 pr. in carton	Pr. $8.00
1K5616	Women's 3 to 8. " "	Pr. $8.00

HOCKEY SKATES WITH SHOES ATTACHED

Men's and Boys' Black calf, stitched soles, tight ankle, full bellows tongue, full calf lined vamps, full calf lined quarters, reinforced at heel and toe, patent leather stays, skates nickeled with spectacle protectors, steel runners securely fastened to shoes

1K4644	Sizes 6 to 10. Pair	Only $5.75
1K4645	Sizes 11 to 2. "	Only $6.75



Women's and Misses' Black calf, stitched soles, tight ankle, full bellows tongue, full calf lined vamps, full calf lined quarters, reinforced at heel and toe, patent leather stays, skates nickeled with spectacle protectors, steel runners securely fastened to shoes

1K4646	Sizes 6 to 10. Pair	Only $5.75
1K4647	Sizes 11 to 2. "	Only $6.75

Women's and Misses' Black calf, stitched soles, tight ankle, full bellows tongue, full calf lined vamps, full calf lined quarters, reinforced at heel and toe, patent leather stays, skates nickeled with spectacle protectors, steel runners securely fastened to shoes

1K4648	Sizes 6 to 10. Pair	Only $5.75
1K4649	Sizes 11 to 2. "	Only $6.75

Women's and Misses' Black calf, stitched soles, tight ankle, full bellows tongue, full calf lined vamps, full calf lined quarters, reinforced at heel and toe, patent leather stays, skates nickeled with spectacle protectors, steel runners securely fastened to shoes

1K4650	Sizes 6 to 10. Pair	Only $5.75
1K4651	Sizes 11 to 2. "	Only $6.75

FOOT BALLS

BASKET BALLS & GYM GOODS

The four biggest foot ball bargains in America—by all odds—are on this page. And we dare speak with equal strength about basket balls and other gym goods. Look the whole market over and then you'll be glad to buy from this page.

All Foot Balls, Basket Balls, etc. are fitted with Seamless Rubber Co.'s pure gum bladders which are guaranteed against defects but not against punctures.

"PENNANT" FOOT BALLS

1K8250—... thread, ... Each, $1.20

1K8252—... stitched sides, special oak tanned heavy pebbled grain leather, heavily reinforced with automobile tire duck lining, double stitched with 4 ply linen thread, rawhide ... steel needle. A marvel at ... Each, $2.25

1K8255—... canvas lined, double ... cotton thread, ... Each, $4.50

"PENNANT" BASKET BALLS

1K8230—Regulation size, tan pebbled grain leather, ... double stitched with linen thread, tubular lace. 1 in box. Each, $2.15

1K8231—... Each, $3.40

1K8232—"Official Intercollegiate," regulation size, weight and shape. Guaranteed ... hide, extra heavy canvas lined, rip-proof seams, rawhide lace and steel needle. Guaranteed the best that can be made. 1 in box. Each, $7.00

"PENNANT" VOLLEY BALL

1K8295—... white glazed leather ... lined, tubular lace. 1 in ... Each, $1.70

"COLLEGIAN" FOOT BALL HEAD GEAR

1K8285—... white ... Each, $3.10

FOOT BALL PANTS

1K8260—"... heavy ... padding ... thick guards, 25 to 34 ... Pr. $3.25

1K8261—Collegiate ... duck, ... ends of ... able ... Pr. $3.95

"PENNANT" PUNCHING BAGS Four Shapes

1K8234—"Champion Jr.," heavy selected tan grain glove leather, canvas lined, reinforced top and bottom, leather hanger, tubular lace, slightly under regulation size. We built this special to retail at $1.50—a wonderful value. 1 in ... Each, $1.35

1K8236—"Trainer's Regulation," finest selected light tan ... hide, canvas lined, reinforced ... Each, $4.50

PURE GUM BLADDERS

Seamless Rubber Co's best guaranteed grade, made of pure gum rubber, regulation size, guaranteed against defects but not against punctures. 1 in envelope.

1K8246—For Rugby foot balls. Each, $0.30

1K8244—For ... Each, .40

1K8248—For basket balls. Each, .45

"PENNANT" BOXING GLOVES

Full leather construction, ... number with padded wrist ... with best soft curled hair

Juvenile Pattern—Soft pliable tan glove leather, palm grip. 2 gloves in box.

1K8242—Boys' to 12 yrs. Set or $2.40
1K8241—Youths' size 2.00

1K8239—Professional pattern ... grip, heavy padded ... and roomy. Nothing like this can be obtained elsewhere to retail at $5.00. 4 pr. ... $3.40

... $5.50

BASKET BALL PANTS

... many sizes. Full legs, ... drill, belt loops, quilted ... to 44 waist. SPECIFY SIZES. ... pr. in box. Pr. $1.05

WORSTED GYM SHIRTS

Fine gauge, jersey knit, pure worsted, fast color, sleeveless athletic cut, sizes 34 to 46 in. chest. SPECIFY SIZES. 1 in env.

1K8270—Oxford gray.
1K8271—Navy blue. ... Each, $1.60

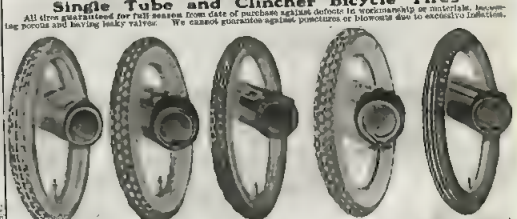
PENNANT ATHLETIC SWEAT SHIRT

Accelerates and absorbs perspiration—protects against muscular colds. For the athletic and all general sports.

1K717—Gem heavy rib knit. Fleece lined round neck, with front and back ... inserts, ribbed cuffs and bottom of shirt, reinforced seams, heavy maximum ... ½ doz. in box. Doz. $19.00

Single Tube and Clincher Bicycle Tires

All tires guaranteed for full season from date of purchase against defects in workmanship or materials, ... ing porous and leaving leaky valves. We cannot guarantee against punctures or blowouts due to excessive inflation.



"Cenga"—2 ply fabric, all gray rubber, non-skid tread. ... Each, $1.35 ... $1.40 ... $1.50

1K891—"Orinoco," 2 ply fabric, extra heavy white ... tread, all resisting. Each, $1.75

1K1022—"U. S. IV," 30x1½, 2 ply fabric with 2 extra plies on tread, chain design non-skid black ... Each, $1.94

1K976—"Orinoco," 28 x 1½ in., Single clincher, extraheavy motorcycle type. ... Each, $2.10

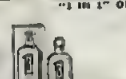
... Each, $3.15

IVORY GRAY BICYCLE INNER TUBES

Heavy tough resilient ivory gray rubber, especially built tube that will give the greatest possible amount of service.

1K1025—"30 & W." ... Each, 70¢
1K1026—"U. S." ... Each, ...

"1 in 1" OIL



1K1696—3 oz. bottle. ... box. Each, ... Doz. $1.20 (Total $1.40)

1K1696—3½ oz. ... able can. 1 can in box. Doz. $2.40

VISES

RALLIS

No. 1—1½ in. jaws, steel screw with handle, w't per doz. 7 lbs., per dozen $27.00
HALF DOZEN IN A BOX

BONNEY PATTERN

No. 1—1½ in. jaws, steel screw with wrought iron head, w't per doz. 15 lbs. .....per dozen $12.00
LOOSE

Steel screw with wrought iron head.

Nos.		
Width jaw, in.	2½	2
W't doz., lbs.	18	24
Per dozen	$13.50	18.80

LOOSE

Steel screw with wrought iron head, swivel attachment.

Nos.	03	04
Width jaws, in.	2½	2¾
W't, doz., lbs.	33	60
Per dozen	$22 50	34.50

LOOSE

No. 741 No. 761

ALL CLAMP BOTTOM, PLAIN IRON JAWS

Nos.	741	742	743
Width jaw, in.	1¼	1½	2
W't, doz., lbs.	36	39	42
Per dozen	$27.40	32.40	38.00
Nos.	745		746
Width, jaw, in.	2½		3
W't, doz., lbs.	60		105
Per dozen	$53.80		83.80

ALL CLAMP BOTTOM, STEEL FACED JAWS

Nos.	761	762	763
Width, jaw, in.	1¼	1½	2
W't, doz., lbs.	36	39	42
Per dozen	$34 80	39.80	46.80
Nos.	765		766
Width, jaw, in.	2½		3
W't doz., lbs.	60		105
Per dozen	$63.80		93 80

LOOSE

Swivel base, steel faced jaw.

Nos.	772	773	775	776
Width, jaw, in.	1½	2	2½	3
W't, doz., lbs.	36	42	66	114
Per dozen	$39.80	48.00	70.30	96.00

LOOSE

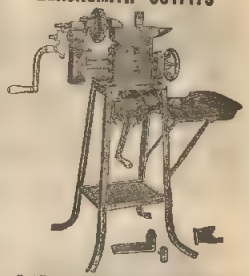
Fitted with loose malleable iron nut and solid steel screw. Face of jaw ground so that the jaws come up square, screw works easy and smooth. Body finished with a brown baked japan, working parts highly polished.

No. A12 Assortment—Consisting of display stand and 12 Victor Vises, w't 65 lbs. ..per assortment $43 60

Consisting of the following—

2 No. 741	1 No. 744	1 No. 761
2 No. 742	1 No. 745	1 No. 763
2 No. 743	1 No. 746	1 No. 773

CHAMPION IMPROVED COMBINATION BLACKSMITH OUTFITS



Outfit, equipped with Forged, Vise, Anvil, Pipe Vise, Drill Press and Emery Grinder, strictly a high grade combination tool built for service.

Gears are all cut. Forge pan 12x14 inches, large enough to take a plowshare. Pan cut away so that a plowshare can be put into it. The Blower-head attached is a real cut-gear, high speed outfit that runs silent, is speeded high enough to produce a white pressure heat so that welding can be done on any work.

Emery wheel is screwed on stud between vise jaws attached to high speed gear on this gear box, two substantial bearings—one on each side of vise jaws—support this wheel, making it a rigid, practical, durable grinder.

Screw accurately cut and two heavy shafts support vise so that jaws meet perfectly without lost motion.

Pipe vise operates without any change whatever. No parts are removed or lost and this machine takes pipe up to two inches

Legs are angle steel, well riveted to top plate and tool tray, two steel rods support forge pan

Height over all	40 in.
Height to top of Forge Hearth	26 in.
Width of Vise Jaws	4 in.
Extreme opening of Vise Jaws	4½ in.
Capacity of Pipe Vise	2 in.
Capacity of Drill Press	½ in.
Greatest distance from Spindle to Table	11 in.
Spindle bored to take	½ in.
Face of Anvil	3x5½ in.
Size of Hardie	⅝ in.
Size of Forge Hearth	12x14 in.
Depth of Forge Hearth	2½ in.
Speeds obtained by gearing	1 to 1, 1 to 4 and 1 to 14
Size of Emery Wheel	6x1 in.
Floor Space	19x32 in.
Weight Crated	185 lbs.
No. W19—Each	$46.00

VISES

REVONOC MACHINIST

REVONOC SWIVEL BASE, dead black finish, removable polished steel face jaws, milled and fitted.

The swiveling device is patented and is operative at all points, a REVONOC feature. It can be converted to the use of a left hand workman. These vises are exceptionally first-class in every respect.

Nos.	A172½	A173	A173½	A174	A174½	A175
Jaws, in.	2½	3	3½	4	4½	5
Opens, in.	3½	4	5	6	6½	7½
W't, lbs.	18	27	42	58	76	104
Each	$16.00	17.30	20.00	22.60	26.80	40.00

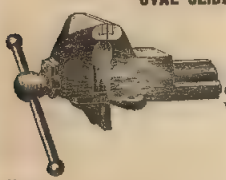
PACKED LOOSE

REVONOC STATIONARY BASE, dead black finish, removable polished steel face jaws, milled and fitted.

Nos.	A162½	A163	A163½	A164	A164½	A165
Jaws, in.	2½	3	3½	4	4½	5
Opens, in.	3½	4	5	6	6½	7½
W't lbs.	15	23	35	43	61	82
Each	$12.00	13.30	15.00	17.00	20.70	26.60

PACKED LOOSE

OVAL SLIDE



PARKER'S polished steel jaws, covered wrought iron screw.

Nos.	A30	A31	A32
Jaws, in.	2½	3	3½
Opens, in.	3¾	4	4
W't, lbs.	8½	13	20
Each	$5.60	6.80	8.30

LOOSE

Grey iron castings, cold rolled steel screw, crucible steel jaws, steel nut, black satin finish, polished face and jaws.

Nos.	A230	A231	A232
Jaws, in.	2½	3	3½
Opens, in.	3¾	4	4½
W't, lbs.	8	14	22
Each	$4 00	5.00	6.00

LOOSE

OVAL SLIDE

EMPIRE, solid cast steel, hardened jaws nicely finished.

Nos.	A025	A030	A035	A040
Jaws, in.	2½	3	3½	4
Opens, in.	3½	4½	4½	5½
W't. lbs.	8	10	14	20
Each	$7 50	9.00	12.00	15.00

PACKED LOOSE

YANKEE

All parts are accurately machined.

For use on Bench Drills or attached separately to bench.

No. 990—Main body and sliding jaw cast iron, size 6-2½x2 in high, jaws open 3 in., removable case hardened swivel jaw, w't per doz. 48 lbs. .....each $4.40

ONE IN A BOX

YANKEE SWIVEL

Vise is especially adapted for use in garage and home and for tool makers and machinists. While used on the bench the Vise proper can be quickly detached from base, and without removing work from Vise, can be used on Bench Drill, etc., and returned to base again.

No. A1993—7¼ in. long, 5¾ in. high, 2¾ in. wide, 1⅝ in. deep opens 3¾ in., steel face jaws and screw, main body machined finish, japanned base, steel block with V shaped grooves for holding round or irregular work, main body can be removed for use on drill press, swivel base is operated by small lever, size boxed 9-5x6 in., w't each 15 lbs. .....each $12.50

ONE IN A BOX

GARAGE VISES

Stationary Base with central Bolt, Nut and Washer for fastening to bench, also provided with bolt holes for permanently securing to bench. 3 in. steel jaws, opens 3½ in. Can be used as either Stationary or Swivel Bottom Vise.

No. A161½—W't each 12 lbs. .....each $7.20

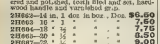
LOOSE

HAND SAWS AND SAW BLADES

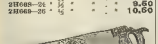
POPULAR SELLING SAWS

"Gold Seal" Crucible steel, ground, tempered and polished, tooth filed and set, hardwood handle and varnished all on.

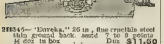
2H662—14 in. 1 doz in box . Doz.					**$6.60**
2H663	16 " 2 "	"	"	"	7.50
2H664	18 " 2½ "	"	"	"	7.75
2H665	20 " 2½ "	"	"	"	8.50
2H667	22 " 2½ "	"	"	"	9.00
2H668	24 " 2½ "	"	"	"	9.50
2H669	26 " 3 "	"	"	"	10.50



2H345— "Eureka." 26 in., fine crucible steel thin ground back, hand 7 to 9 points to inch, hardwood handle. Doz. **$11.90**

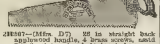


2H360— "Gold Seal." 26 in. tempered Lowell carbon steel, saw pack 5-8 in., ebony finish, nickeled 3 brass screws, filed and set, metal points, 10 in. to foot. Doz. **$12.15**



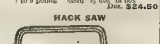
2H349— "Rehmann." 26 in. hand, 6 or 8 points, carburized steel, all tempered Payne's Bone Smith, skew back, brass screws, varnished, metal points, 10 in. to foot. Doz. **$14.60**

HENRY DISSTON SAW



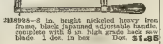
2H387—(Miss D7). 22 in straight back applewood handle, 4 brass screws, cased 7 to 9 points, tested by dot, to toe. Doz. **$24.50**

HACK SAW



2H39208—8 in. height nickeled heavy tee frame, black japanned adjustable handle, tempered steel blade, high speed, 24 teeth, blade 10 in. long. Doz. **$14.85**

"MASTER MECHANIC" BUCK SAW



2H9278 30 in hardwood frame red stained adj. varnishes, double brackets at each end, 2 steel pins, 2 cords, 2 straight bronze height blade, warranted ½ doz. to case. 20 lbs. Doz. **$11.26**

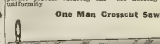
COMPASS SAW

2H310—12 in. crucible steel blade, filed and set, tempered, polished, black enameled handle, brass screws ½ doz. in box. Doz. **$3.85**

HENRY DISSTON & SONS' CROSSCUT SAWS

Crucible steel, hardened and tempered by the Disston patented process insuring the "ne plus ultra" qualities and uniformity.

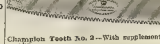
One Man Crosscut Saws



Champion Tooth No. 2—With supplementary handle. 2 in pkg.

2H7223—3 ft	Each,	**$2.95**
2H824—3½ ft	"	3.35
2H393—4 ft	"	3.75

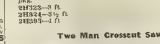
Two Man Crosscut Saws



Champion Tooth No. 826—"Triumph," narrow blade. 1 in pkg.

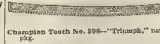
2H9211—5 ft	Each,	**$2.40**
2H9212—5½ ft	"	2.60
2H9213—6 ft	"	2.80

EXTENSION HACK SAW FRAME



2H3238—Steel frame, nickeled, and polished, holes 8 to 12 in blade, cherry finish handle, wrinkled blue. Doz. in box Doz. **$3.75**

CROSS CUT SAW HANDLE



2H3849—Loop pattern, 10 in. wood bar, 1¼ in. diam. malleable washer and 4 in loop rod. 12 pcs. in pkg. Pr. 40c

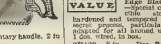
"GOLD SEAL"

HACK SAW BLADES

STAR VALUE

Flexible Rosh O. S. & A. C. Edge Blades 10 inches long, 24 teeth to inch, hardened and tempered by new process, particularly adapted for all ground use. 1 doz. wired, in box.

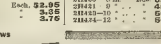
2H420—8 in.	Doz.	**32c**
2H421—10 "	"	**45c**
2H422—10 " . . .	"	**60c**
2H424—12 " . . .	"	**80c**



All Hard Blades—Special crucible steel, hardened and tempered by new process, nonscientific blades for all around use. 1 doz. wired, in pkg.

2H3198—8 in.	Doz.	**40c**
2H3200—9 "	"	**50c**
2H4401—10 "	"	**65c**
2H418—12 "	"	**80c**

"MORRILL" SAW SET

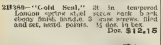


2H722 Improved anvil, sets all pressed points, polished, 4 dies in box. Doz **$4.10**

PRICE tickets are the least expensive and most effective form of advertising.

VISES—GRINDERS—WHETSTONES

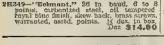
STANLEY "VICTOR" JERSEY VISES



Cold rolled steel, 1 piece body, hard steel roller, maple locks and throats, hardened and ground steel jaws inset with serrated steel plates, 1 screw.

2H779—3Mdls. 701,	2½ in. Jaws, 3 lbs	Each.	**$1.38**
2H776—3Mdls. 703,	3 in. Jaws, 3 lbs.	Each	**$1.83**

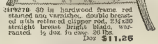
BENCH VISES



Oval sliding chilled steel face, polished jaws can screw, black japanned finish. 1 in pkg. Each

2H4010—3¼ in. jaws, 5 lbs	Each	**$1.95**
2H613—3 in. jaws, 14 lbs.		**2.85**
2H615—3½ in. jaws, 23 lbs		**3.25**

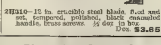
"COLUMBIAN" VISES



STAR VALUE

2H4035—3½ lbs., 3 in. jaws, open 3 in., chilled steel face, polished and japanned, 2 screws.

Steel screw block and bolt base. 1 in pkg. Each **$2.30**



Swivel Base—High grade malleable iron frame, wrought steel sliding bar, machine turned screw, block and handle hardened and tempered steel, ground and polished jaws, polished finish.

2H6249—3 in. jaws, open 3¾ in., wt. 11 lbs	Each	Ont

2H6024—3 in., 3¼ in. polished jaws, open 3¾ in., wt. 11 lbs., malleable iron frame, polished and lacquered turned steel drill screw in pkg. Each, Ont

"CLIPPER" NEVERBREAK STEEL SAW CLAMP

2H3498—12 in. over all, 10 in. working jaw, all frame, jaw working on steel eccentric made entirely of steel, practically unbreakable, black japanned finish. ½ doz. in pkg.

Doz. **$10.50**

STEWART "HANDY WORKER"

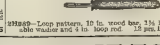
6 Tools in One

2H7927 — Cuts, drills, countersinks, reams, bolts, metal cutter 3 speed mandrel with flange, capacity for work up to 2 in. diameter, wheels, screwdriver, bronze bushed, buffing wheels for cleaning work all attachments interchangeable, easily operated. Each, complete in box, 90 lbs Each, **$17.95**

SAW CLAMP

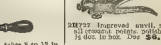
2H6698 The thing saws 2 to 6 in. long, japanned finish. 1 in pkg. Each **68c**

BENCH SCREW



2H631 1 in. hub wrought iron, sliding wood handles. 1 in pkg. Each, Doz.

COMBINATION FORGE, ANVIL, VISE, DRILL AND PIPE VISE

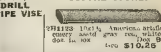


2H8597—Forge 26 in. high, heavy steel, heavy braced cast iron receptacle for holding tools, oil cups, etc., anvil 50 lbs., 6 in. face, 2 in. horn, 3 in. diam. cast steel pedestal, anvil, 42 x 12 in., with handy vise, 3½ in. jaws open 11 in., with vise pipe up 60 in. diam., drill 1 in. capacity, 3 in. diam. fly wheel, main drill. Wt. complete about 235 lbs. 1 in crate. Each, **$17.90**

WHETSTONES

"Quick Cut"—6x1½, oil, selected Vermont. Each

2H11172 1 doz. in box Doz. **Ont**



"Excello" — 5x1¼x⅝ oil, each in box.

2H11177—1 doz in box Doz **95c**

"Bear Creek"—7x2x1, oil or water, extra selection mounted in convex cherry octagon box

2H11198 ½ doz. in box Doz. **$2.95**

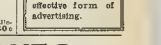
CARBORUNDUM SCYTHE WHETSTONE

2H6049—12 in extra medium solid carborundum stone, mounted in wood. Ready for the harvest field. 1 doz. in carton. Doz. **$2.95**

SCYTHE STONES

2H11173 1¾x4¼ American artificial emery and grain combination stone. Doz. in box Doz **90c**

Each **$10.25**



2H11194 "Bear Creek," 10 in. extreme edge, 3 in. handle, selection fine cutting. 3 doz. in box. (Valid 25.50) Doz **95c**

2H11163 "Quick Cut," 9x1¾, extra quality Jersey Hammered stock. 1 doz in box Doz **$1.65**

(Valid 20.10)

HAND GRINDSTONES

Selected Berea sandstone, red annealed iron frame & trough, black japanned steel hood & handle, ball-bearing journals, wood stock 1 in cross.

2H11063—8 " 2 "	Each.	**$2.11**
2H11064—8 " 50 "	"	**2.25**

LARGE GRINDSTONE

"Keenedge"—30 to 33 in. thick, uniform grit, tubular frame, full ball bearings, adjustable seat, 4 to 5 in. face, selected Berea stone, mounted horizontally on frame to suit operator.

2H11051—1 in crate. 90 lbs Each **$6.95**

BICYCLE BELLS

ASSORTMENTS

Made of the best cast bell metal. Stands are made of wood; attractive rubberoid finish. Height 15⅝ inches, width 15⅝ inches; base and standard threaded so that base can be detached. All bells are carefully inspected before leaving factory.

Assortment consists of twelve bells, assorted designs and finishes, diameter 2 inches.

Per Doz. Assorted

No. 1B—Assortment, with stand $12 00
No. 01B—Assortment, without stand 10 95

Bells packed one in a cardboard box, stand packed in separate box; weight per assortment, with stand, 5½ lbs.

REGINA SIGNAL

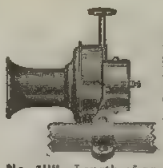
Can be attached to the front or rear fork side of the bicycle, and the fly-wheel which operates directly against the side of the tire makes it possible to use on any bicycle with the extra long extension front and rear guards. Gongs are made of the best two tone chime type, giving a clear and loud sound; operated with a long steel nickel plated chain.

Per Dozen

No. 10RS—3 inch gong; screw clamps; full nickel plated $30 00

One in a cardboard box, weight per dozen 12 lbs.

BICYCLE SIGNALS



Similar in construction and appearance to an automobile horn. Produces a clear and effective warning sound. Intended for bicycles and light weight motorcycles.

The tone can be adjusted to suit operator.

Full black enameled case, with bright steel bracket and pin.

Per Dozen

No. 1HH—Length of projector 2½ inches; length over all 5 inches; diameter bell 2½ inches $52 50

One in a cardboard box; weight per dozen 18 lbs.

BICYCLE RIMS

WOOD

For cemented tires, single piece thoroughly seasoned hard maple wood. For 28x1½ or 1⅝ inch tires.

Natural finish.

Per Dozen Rims

No. INF-24—Front and rear wheels, bored 28 holes; for 24 inch tires $30 00
No. INF-26—Front and rear wheels, bored 28 holes; for 26 inch tires 30 00
No. INF-28—Front and rear wheels, bored 36 holes; for 28 inch tires 30 00

Packed loose, average weight per dozen 18 lbs.

G. & J. STEEL LINED

For clincher tires; single piece, thoroughly seasoned hardwood maple; natural finished, steel lined.

For 28x1½ or 1⅝ inch tires.

Per Dozen

No. 2-36—Front and rear wheels, bored 36 holes $34 50

Packed loose, average weight per dozen pairs 36 lbs.

BICYCLE RIMS

STEEL

Cement Type.

For single tube tires; made of best grade steel; black enameled. For 28x1½ or 1⅝ inch tires.

Per Doz. Rims

No. 1S—Front and rear wheels, bored 36 holes $22 20

Packed loose; average weight per dozen pairs 35 lbs.

STEEL

G. & J. Type.

For clincher tires; made of best grade steel; black enameled. For 28x1½ or 1⅝ inch tires.

Per Doz Rims

No. 1SC—Front and rear wheels, bored 36 holes $23 25

Packed loose; average weight per dozen pairs 30 lbs.

D 2

BUILT UP BICYCLE WHEELS

For bicycles. Includes axles, cups and cones, but no tires; front hubs have 32 spokes; rear hubs have 36 spokes; sprocket wheel has 9 teeth.

For 28 inch tires. Plain hubs with mahogany stained rims.

	Each
No. 01FP—Front; natural finish; with G. & J. rims	$7 05
No. 1FP—Front; natural finish rims	6 75

For 28 inch tires.

No. 5FE—Front; plain hubs with black enameled rims with red stripe in center	7 05
No. 6RE—Rear; plain hubs with black enameled rims with red stripe in center	8 70
No. 2RP—Rear; natural finish rims	8 25

With New Departure Brake.

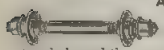
Complete with axles, cups and cones; 36 spokes; sprocket wheel has 9 teeth. For 28 inch tires. **Prices do not include tires.**

	Each
No. 8REB—Rear wheel; black enamel rim, with red stripe in center	$19 80
No. 8RPB—Rear wheel, natural finish rims	19 50

Packed loose.

BICYCLE SUNDRIES

AXLE SETS



These axle sets are a necessity in every bicycle repair shop. They are made in sizes to fit both front or rear hubs and the cones have adjustable flanges; they will fit practically any bicycle hub, made of excellent material and carefully finished. Complete with two adjustable cones, two nickel plated nuts and washers all assembled.

	Per Dozen Sets
No. 1FAS—Front $^{5}/_{16}$ inch, $4\frac{1}{2}$ inches long; weight per dozen sets $2\frac{1}{4}$ lbs	$5 70
No. 2RAS—Rear $\frac{3}{8}$ inch, 6 inches long; weight per dozen sets $3\frac{3}{4}$ lbs	6 00

Packed loose.

AXLE NUTS

Hexagon, machined turned, nickel plated and polished.

	Per 100
No. 1FAN—Front, $^{5}/_{16}$ inch	$5 70
No. 1RAN—Rear, $\frac{3}{8}$ inch	6 30

100 in a cardboard box; weight per 100 about $^{3}/_{4}$ lb.

REPAIR FORKS

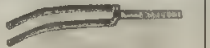
These repair forks are made to fit any size bicycle, whether 20, 22 or 24 inch frame. Made from the best steel tubing carefully constructed and very strong. They are brazed and filed but not enameled.

Stems are 9 inches long, 1 inch in diameter, threaded 24 threads to the inch for 5 inches.

	Each
No. 1FFB—Blued	$7 50

Packed loose; weight each 2 lbs.

REPAIR FORKS



Made of best steel tubing carefully constructed and very strong. Brazed and filed. Made to fit any size bicycle, whether 20, 22 or 24 inch frame.

Stems are 9 inches long; 1 inch in diameter; threaded 24 threads to the inch for $5\frac{1}{2}$ inches.

	Each
No. 10BE—Black enameled	$6 00

Packed loose; weight each 2 lbs.

BICYCLE SUNDRIES

SEAT POSTS

	Per Dozen
No. 1SP—With Expander: $^{5}/_{16}$ inch stem, 6 inches long; $2\frac{1}{2}$ inch extension, nickel plated; wt. per dozen, $9\frac{1}{2}$ lbs	$24 00

Wrapped separately in paper.

HANDLE BAR STEMS

Extension.

Forged top, tube stem nickel plated.

	Per Dozen
No. 1HBS $2\frac{3}{4}$ inch forward extension $\frac{7}{8}$ inch stem, $4\frac{1}{2}$ inches long; with hole for $\frac{7}{8}$ in. bar top, with 1 in. ferrule	$18 90

Wrapped separately in paper; weight per dozen 9 lbs.

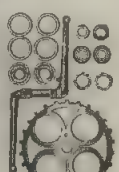
Regular.

Stem nickel plated.

	Per Dozen
No. 2HBS – $\frac{7}{8}$ inch stem, $4\frac{1}{4}$ inches long, with hole for $\frac{7}{8}$ in. bar top, with 1 in. ferrule	$18 00

Wrapped separately in paper; wt. per dozen 7 lbs.

REPAIR HANGERS



A high grade and well designed one pieced crank hanger with fittings complete; all parts heavily nickel plated and polished tapped for pedal shaft. Complete with balls, ball retainers, key washer and lock nut.

	Each
No. 2RFH 26 tooth removable sprocket; crank shaft $3\frac{1}{4}$ inches from sprocket to adjusting lock nut; cups $^{25}/_{32}$ of an inch in diameter, also two sets of bushings to make cups $1^{25}/_{32}$ and $2^{1}/_{32}$ ins. in diameter	$14 25

One in a cardboard box; weight each about 5 lbs.

REPAIR CRANK

Drop forged one piece steel crank carefully hardened, nickel plated and highly polished.

	Per Dozen
No. 1BC Length $7\frac{1}{2}$ inches; tapped to fit pedal; 20 thread	$63 00

Packed loose; weight per dozen about 24 lbs.

BICYCLE CHAIN

Diamond, B Shape Blocks.

No. 9D—$^{1}/_{16}$ inch wide; 54 links; 54 inches long; length over all 60 inches; hardened steel, straw colored blocks; B shaped side plates; one inch pitch; has one removable link for purpose of repairs. All other links are riveted.	
In lots of 1 to 10 chains, Each	$4 68
10 chains	43 89

One in a cardboard box; weight each about $1\frac{1}{4}$ lbs.

REPAIR LINKS	Per 100
No. 1SODB—For No. 9D chain; wt. per gross $2\frac{1}{2}$ lbs	$9 45
No. 1SODP Side links or plates	9 45

BAR & PACKAGE CANDIES

KLEIN'S CHOCOLATE BARS

Lunch Bar—Pure, sweet milk chocolate and high grade roasted peanuts, parchment wrapped and litho banded.
2Y1901—24 in box Box **92c**

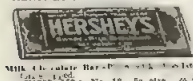
Almond Bar—High grade milk chocolate with whole roasted almonds, foiled, wrapped, litho banded.
2Y1902—24 in box . Box, **78c**

BORDEN'S CHOCOLATE BARS

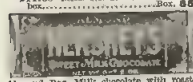
Plain Sweet Milk Chocolate—Scored bar
2Y1903—small size, 24 in box Box, **80c**

Almond Bar—Standard size, sweet milk chocolate, whole almonds, each bar wrapped and sealed
2Y1905—24 in box Box **80c**

"HERSHEY'S" CHOCOLATE BARS

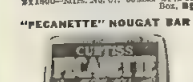


Milk Chocolate Bar—Plain sweet chocolate
2Y1797—Mfrs. No. 18, 5c size, 24 in box Box, **85c**
2Y1798—Mfrs. No. 18, 10c size, 12 in box Box, **85c**



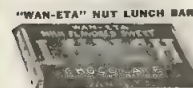
Almond Bar—Milk chocolate with roasted almonds, foil wrapped.
2Y1799—Mfrs. No. 20, 10c size, 12 in box Box **85c**
2Y1800—Mfrs. No. 67, 5c size, 24 in box Box, **85c**

"PECANETTE" NOUGAT BAR



"Pecanette"—Nougat center rolled in cream, coated with chopped pecans and one whole pecan on top
2Y1749 Box, **85c**

"WAN-ETA" NUT LUNCH BAR



2Y1469—1½ oz., rich, sweet milk chocolate filled with high grade roasted peanuts, each bar foil wrapped, litho banded, 24 in box Box **85c**

SUNTE'S TANGOS BAR

2Y1481—Maple cream bottom, marshmallow center covered with peanuts, chocolate dipped, foil wrapped. 24 in box. Box, **85c**

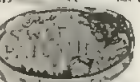
REDEL'S CANDY BARS

STAR VALUE

Cherry Bar—1¼ oz., whole red cherries in extra fine soft cream, vanilla flavored, heavily coated with light colored chocolate, each bar wax paper wrapped.
2Y1475—24 in box.....Box, **84c**

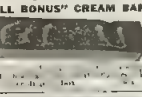
Crisp Spanish Peanut Bar—Full 2 oz., strictly No. 3 Spanish peanuts, fresh and crisp, each bar in printed transparent wrapper.
2Y1913—24 pcs. in box Box **84c**

Large Lunch [illegible] covered with a Butterscotch [illegible] wrapped in transparent [illegible]
2Y1915 Box **84c**



Sweet Patootie—2 oz. [illegible] cream and marshmallow layer, topped with peanuts, all over covered with thick milk chocolate. Fancy foil wrapped.
2Y1814—24 pcs in box..... Box, **85c**

"BILL BONUS" CREAM BAR



2Y1835 [illegible] wrapped
[illegible] box Box **85c**

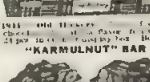
COCOANUT FUDGE BAR

2Y1963—3½ oz. full cream vanilla fudge bar, fresh cocoanut, cooked in cream, unwrapped.
24 pcs. in box..... .....Box, **87c**

OLD HICKORY FUDGE BAR

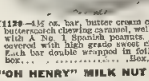
2Y1911—Old Hickory [illegible] bar chocolate [illegible] Paper [illegible] 24 per box [illegible] Box, **87c**

"KARMULNUT" BAR



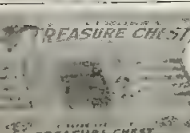
2Y1139—4½ oz. bar, butter cream center in Butterscotch chewing caramel, well covered with A No. 1 Spanish peanuts, all over covered with high grade sweet chocolate. Each bar double wrapped in foil. 24 in box..... .....Box, **$1.46**

"OH HENRY" MILK NUT BAR



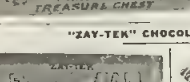
2Y1124—4 oz. bar [illegible] nut bar center, rolled in [illegible] covered with [illegible] chocolate coating. Each bar wrapped [illegible] line. 24 in box **$1.46**

CURTISS' TREASURE CHEST

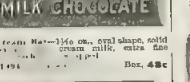


2Y29 Five kinds [illegible] in one [illegible] Nougat Bar, [illegible] wrapped except Nickel. [illegible] 11x22 in., printed in two colors to resemble the old time Pirate Treasure Chest. Assid. 100 bars in box..... .....Box, **$3.60**

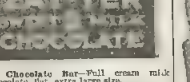
"ZAY-TEK" CHOCOLATE CANDIES



Full Cream Bar—1½ oz., oval shape, solid [illegible] cream milk, extra fine [illegible] dipped
2Y1491 Box, **43c**



Milk Chocolate Bar—Full cream milk chocolate, flat, extra large size.
2Y1991—24 bars in box. Box, **80c**



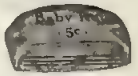
Almond Bar—Delicious chocolate nut and fruit bars.
2Y1699 24 bars in box . .Box **80c**

EATMORS

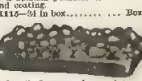
"Eatmors" Chocolate Buds—[illegible] in tube, filled with solid milk chocolate buds
2Y1841 [illegible] counter display carton, **80c**

"Silent Salesman"—Counter display stand free with 6 boxes chocolate bar goods, assid. as follows
3 boxes Almond Bars
1 box Full Cream Milk Chocolate Bars
1 box Hazelnut Bars
1 box Fruit and Nut Bars
2Y885—24 bars in box 6 boxes in asst. with display stand. . . . Asst. **$4.68**

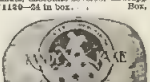
CURTISS' CANDY BARS



"Baby Ruth" The 5c Bit—1½ oz., open cream center, rolled in caramel and loaded No. 1 Spanish peanuts, coated with milk blend coating.
2Y1115—24 in box..... ... Box **84c**



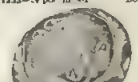
"Nickalof"—2 oz. bar, white vanilla marshmallow center, topped with Spanish peanuts, chocolate covered, unwrapped
2Y1120—24 in box. . Box, **84c**



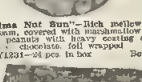
"Kandy Kake"—Chocolate pudding center, topping of crisp, roasted peanuts, chocolate covered, foil wrapped.
2Y1116—5c size, 1¾ oz. 24 in box Box, **85c**

CAROTHERS' BAR CANDIES

"Caravan"—Rich vanilla whipped cream center, dipped in peanuts with heavy coating of milk blend chocolate, glassine wrapped.
2Y1233—24 pcs in box Box, **84c**

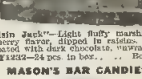


Malma Nut Bun"—Rich mellow maple cream, covered with marshmallow dipped in peanuts with heavy coating of dark sweet chocolate, foil wrapped
2Y1231—24 pcs. in box Box, **84c**



"Raisin Jack"—Light fluffy marshmallow, cherry flavor, dipped in raisins, heavily coated with dark chocolate, unwrapped
2Y1232—24 pcs in box. . . . Box, **84c**

MASON'S BAR CANDIES



Mint Patties—Mint flavor sugared cream, coated with natural liquor chocolate.
2Y1624—24 in box Box **85c**

"Trumps"—Quality marshmallow with apricot jelly, coated with sweet milk chocolate.
2Y1625—24 in box .....Box, **85c**

"Peaks"—Strictly fresh cut cocoanut, coated with a heavy natural liquor chocolate coating
2Y1627 24 in box . .....Box, **85c**

LIFE SAVERS

THE CANDY WITH THE HOLE

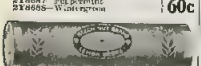
Absolutely pure, Lightly flavored, 14 wafers in foil wrapped pkg., banded. 20 pkgs. in display box.

2Y1965—Peppermint, "Pep-O-Mint"
2Y1967—Wintergreen, "Wint-O-Green"
2Y1968—Cloves
2Y1969—Licorice
2Y1970—Cinnamon, "Cin-O-Mon"
Box, $.54

"BEECHNUT" COMPRESSED TABLETS AND HARD CANDIES

"Beechnut" Compressed Tablets Absolutely pure, made from best quality ingredients, highly flavored, 17 wafers in foil wrapped pkgs., banded, 20 pkgs. in display box. Box

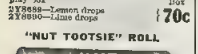
2Y8687 Peppermint
2Y8688—Wintergreen } 60c



"Beechnut" Hard Candies Pure sugar alloys to please in hard paper mint, foil wrapped pkg. banded 20 pkgs. in display box Box

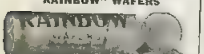
2Y8682—Lemon drops
2Y8690—Lime drops } 70c

"NUT TOOTSIE" ROLL



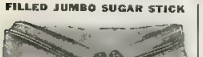
2Y1982—Delicious chocolate nut chewing candy 6 rolls, wax paper, foil wrapped and banded 24 rolls in box. Box 80c

"RAINBOW" WAFERS



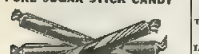
2Y4804—3 oz. roll, pure sugar wafers, assrd. flavors and colors, 3 color wax wrappers. 24 rolls in box..... Box. 87c

FILLED JUMBO SUGAR STICK



2Y1960—Pure sugar, assorted flavors, centers filled Chocolate, cocoa and peppermint flavors Each stick wrapped 24 pcs. in box Box $5c

PURE SUGAR STICK CANDY



2Y981—Assrd. flavors, wrapped, ayes 40 sticks to lb., 100 sticks in box 6 boxes (600 sticks) in case..... Case, $3.95

"CAMPFIRE" MARSHMALLOWS

Soft and fluffy, made from powdered sugar vanilla flavored, bright, white and clean Each pkg. wrapped in glassine making it airtight

3 Oz. Pkg— Doz.
2Y1682—1 doz in box. $0.80
2Y1670—2 doz. in case. ..... .87½
6 Oz. Pkg— Doz
2Y1693—2 doz. in box..... $1.07½
2Y1680—2 doz. in case..... 1.05

COLLINS' HONEY SCOTCH

2Y8214—Delicious butterscotch chewing candy Contains honey and best quality ingredients, 10 pieces in bont. 30 bonts in counter display carton Carton, $1.05

"OUR NAVY" KISSES

2Y1699—"Our Navy" kisses the boat is a toy sailor empty to a depth to hold candy. Each boat contains 10 mint striped cream kisses wrapped good enough to eat—worth wrapping—dozen packages in carton Doz. boats, 42c
Carton, 20 doz., Doz. loads, 39 .5c

KUM-BACK BALLS

2Y1363—Candy Kum-Back balls, filled with high grade wrapped kisses The ball is case pressed pulp, very strong fitted with long heavy rubber band with finger loop end. 50 balls in case Case, $3.60

CANDY FILLED GLASS NOVELTIES

Revolver—6¼ in., clear glass, filled with candy pellets
2Y354—3 doz in shipping case

Revolver—8 in., clear glass, filled with pure sugar candy pellets Doz 92c
2Y460—3 doz. in shipping carton. Doz. $1.60

Locomotive—5 in., clear glass, exact copy of real locomotive, filled with assrd. candy im.perials
2Y459—2 doz. in shipping case Doz 95c

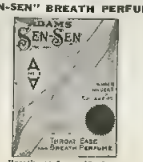
Telephone—4½ in. assrd. plain and painted glass bodies filled with candy pellets
2Y448—3 doz in shipping case Doz. 92c

Lantern—3½ in. assrd. colored glass lanterns filled with pure candy pellets
2Y449—3 doz. in shipping case Doz. 92c

GLASS NOVELTY ASSORTMENT Candy Filled

Big variety—small assortment
2Y401—Assortment consists of Fire Engine Camp, Locomotive, Lantern, Telephone, etc. 3 doz in pkg Doz. 92c

"SEN-SEN" BREATH PERFUME



2Y8620—Breath perfume, 40 pkgs. in transparent front display box.
BOX of 40 pkgs. $1.35

NO. 1 SPANISH SALTED PEANUTS

Unblanched No 1 Spanish peanuts selected, medium size, well salted fresh and crisp
2Y694—30 lbs in case Lb 12½c
2Y1699—10 lbs. in box " 13½c

"OLD DOMINION" PEANUTS

2Y1708—Jumbo peanuts, blanched and salted like almonds 5 lbs in friction top tins Lb 26c

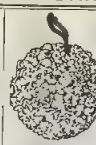
"O'-SO CRISP" NUT PACKAGES

Patented novelty package, air tight, wax paper wrapped, keeps contents fresh indefinitely

5c PKG—24 pkgs. in display carton

2Y1690—Fresh roasted Jumbo salted peanuts Carton 80c

POP CORN CANDIES



2Y9711 Ribbon pop corn ball, each ball tinted with fancy color ribbon Assrd pink and white. 200 balls in case. CASE (200 balls) $3.00

2Y726—"Cracker Jack," the best known, widest advertised pop corn confection Price in each package, 50 in case Case $1.88

LYON'S GLACE FRUITS

2Y1808—1 lb. boxes, assrd. California fruits, choice variety including candied apricots, pineapple, plums, cherries, etc., assrd in decorated burnt wood boxes, ribbon tied and parchment wrapped Box, 95c

"BORDO" JUMBO SALTED PEANUTS

2Y1695—Full 8 oz. pkg., extra fine quality nuts in barrel shaped glass, screw cap This package keeps nuts in good fresh condition. 2 doz. in case Doz. 89c
(Total $3.78)

COUGH DROPS & LICORICE

COUGH DROPS

Hinte's Cough Drops—Menthol-horehound cough drops One display carton containing six 5c packages free with each carton
2Y1282—36 pkgs. in carton Carton $1.26

Dean's Menthoiated Cough Drops—
2Y7490—40 pkgs. in box Box $1.35

Luden's Menthol Cough Drops—
2Y7488—40 boxes in carton Carton $1.40

Smith Brothers' Cough Drops—The genuine
2Y1603—40 boxes in carton Carton $1.45

"Red Cross" Cough Drops— Carton
2Y1915—20 pkgs. in display carton $1.50
FREE: 1 carton "Red Cross" stickers (120 count) with 3 cartons cough drops.

"4" & 5" LICORICE STICK

2Y3819—Genuine pure licorice stick. 30 cartons in box..... Box, $1.85

"A NO. 1" LICORICE DROPS

"A No. 1" Licorice Drops—Old fashioned licorice. Sell 2 for 1c
2Y1629—5 lbs. in box. Box, $1.65

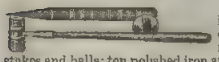
CROQUET SETS

Hardwood mallets; 5½ in. long; varnished and painted; fitted with 30 in. nicely varnished hardwood handles; two eight colored hardwood stakes; hardwood balls; ten polished iron arches.

Per Set

No. 28—Eight balls $8 25

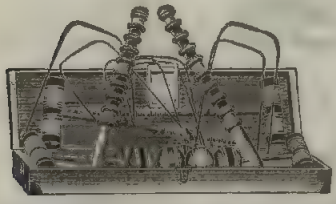
Three sets in a crate; weight per set 21 lbs.



Hardwood mallets; 5½ in. long; varnished and beaded; fitted with 30 in. oiled maple handles; rock maple stakes and balls; ten polished iron arches.

Nos.	14	16	18
No. of balls	4	6	8
Weight set, lbs	12	18	19
Per Set	$4 80	6 00	7 20

Three sets in a crate.



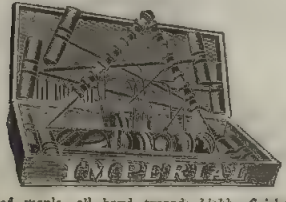
Mallets hand turned; best polish finish; 8 inches long with green band in center, nickel plated bands on end and rubber ends, short handles with green band, which screw in mallet. Selected fancy striped balls, two large fancy finished; eight-colored stakes; extra heavy enameled arches with sockets.

Box made of clear white pine with fine coach varnish finish; trimmed with polished brass corners to strengthen box; brass hinges and clasps; nickel plated handles.

Per Set

No. 70—Eight balls $48 00

Three sets in a case; weight per set 28 lbs.



Polished maple, all hand turned; highly finished with genuine white shellac, and lathe polished.

Mallets 8 inches long; short handles; nicely painted balls; two large beaded, four-colored stakes; heavy galvanized arches.

Per Set

No. 50—Eight balls $19 50

Three sets in a case; weight per set 28½ lbs.

PLAY GROUND OUTFITS

OUTDOOR HOME GYMNASIUM

Supporting Frame made of tubular steel, joined with heavy unbreakable fittings; stands on surface of ground, and requires no fastening or anchoring.

Horizontal Bar made of steel, hot galvanized; 1¼ inches in diameter and 7 ft. long; can be easily adjusted to any height desired.

Teeter Ladder made of selected seasoned hickory, with rungs wedged into sides so they cannot work loose.

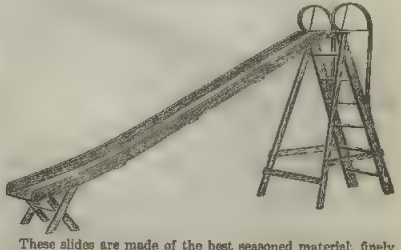
Combination Swing, Flying Rings and Trapeze. The supports are made of galvanized safety chain. The flying rings are made of heavy iron. The swing seat is made of heavy wood with iron supports. Either swing, flying rings or trapeze can be instantly attached to chain supports.

Each

No. 599M—The frame is 10 ft. high and occupies a ground space 8x8 ft. ..... ✣$211 95

One in a crate; weight 340 lbs.

KELLY SLIDES



These slides are made of the best seasoned material, finely finished to withstand constant exposure to the weather and the hardest and roughest use.

The sliding board is made of polished rock maple and is not greased or waxed.

The ladder is very strongly braced, having iron hand grips extending from the middle to the top of ladder, making it very easy for the child to climb.

Each

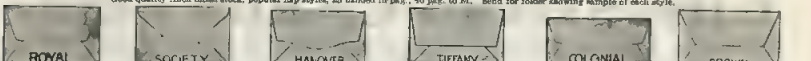
No. 511M—Medium Slide, height 6 ft.; length 12 ft. ✣$120 45

One in a crate; weight 195 lbs.

✣F. O. B. Missouri Factory Only.

"HAWTHORNE LINEN" CORRESPONDENCE ENVELOPES

Good quality linen finish stock, popular flap styles, 25 handed in pkg., 40 pkgs. to M. Send for folder showing sample of each style.



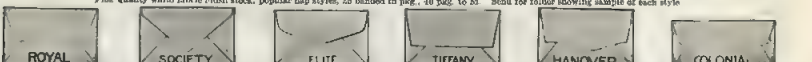
#3270 ROYAL 5½x3½	#3271 "Society," 5½x3½	#3272 "Hanover," 5½x3½	#3273 "Tiffany," 5½x3½	#3273 Colonial	#3276 Crown 6¼x3½
¼ M in box	¼ M in box	¼ M in box	¼ M in box	¼ M in box	¼ M in box
Per M, $2.25	Per M, $2.25	Per M, $2.25	Per M, $2.25	Per M $2.25	Per M $2.25
5 M lots, 2.10	5 M lots, 2.10	5 M lots, 2.10	5 M lots, 2.10	¼ M lots 2.10	5 M lots 2.10

"HAWTHORNE" INTRODUCTORY ASSORTMENT

#3278—¼ M each of the above 6 styles. Assrtd. 3 M in case, wt. 25 lbs. (Total $0.00) Per M **$2.10**

"OLD QUAKER LINEN" CORRESPONDENCE ENVELOPES

Fine quality white fabric finish stock, popular flap styles, 25 handed in pkg., 40 pkgs. to M. Send for folder showing sample of each style



#3280 Royal 5 x 3½	#3281 Society 5 x 3½	#3282 Elite 5½ x 3½	#3283 Tiffany 5½x3½	#3284 Hanover 5½x3½	#3285 Colonial 6 x 3½
¼ M in box	¼ M in box	¼ M in box	¼ M in box	¼ M in box	¼ M in box
Per M, $3.25	Per M, $3.25	Per M, $3.25	Per M, $3.25	Per M, $3.25	Per M, $3.25
5 M lots, 3.00	5 M lots, 3.00	5 M lots, 3.00	5 M lots, 3.00	5 M lots, 3.00	5 M lots, 3.00

"OLD QUAKER" INTRODUCTORY ASSORTMENT

#3288—¼ M each of the above 6 styles, finest quality fabric finish stock. Assrtd. 3 M in case, wt. 27 lbs. (Total $0.00) Per M, **$3.00**

PLAYING CARDS

U. S. PLAYING CARD COMPANY'S PLAYING CARDS

"Little Duke"—Small size 1¾x2¼, enameled assrtd backs. 144 1 doz in pkg. Doz **$2.50**

"Cadets"—Small size 1¾x2¼, assrtd backs. #3315—1 doz in box. Doz **$2.50**

"Piquet"—Hard finish, 2 color faces, assrtd. red and blue backs. #3515—Assrtd. 1 doz in box. Doz. **$3.75**

"Steamboat"—Assrtd. latest popular backs. #3999—Assrtd 1 doz in box. Gro **$34.20** Doz **$2.95**

Pinochle—(48 cards) Assrtd red and blue backs, enameled surface. 813 Assrtd 1 doz in box. Doz **$3.75**

"Hornet"—Enameled surface, easy slip, full colored fronts, neat back design, assrtd ⅓ red and ⅔ blue, each deck in tuck box. Doz #862—Assrtd 1 doz in carton. Gro. **$42.00** Doz. **$3.60**

"Bicycle"—Red and blue backs. Assrtd 1 doz. in box. #808—Ivory finish. Doz #808A—Air cushion finish **$4.35** Gro. **$61.00**

"Bicycle" Club Back—New design prevents tampering red and blue backs, new thickness with sealed flap. Assrtd. 1 doz. in box. #808CA—Air cushion finish Doz. **$4.85** Gro **$57.00** #808CI—Ivory finish Gro **$57.00** Doz. **$4.85**

Yogue—Assrtd. Ameri[illegible] backs in monotone colors [illegible] cigarette telescope case. Doz. #931 Assrtd 1 doz. in box **$6.25**

Congress—Air cushion finish with silver edges, assrtd. enameled backs, [illegible] #808N—White or Process blue. Doz. **$6.75**

NEW YORK CONSOLIDATED CARD CO. "BEE" PLAYING CARDS

[illegible] blue backs in tuck case, assrtd. enameled linen finish 1 doz in box. #882-1—As last Doz **$4.35** Gro **$61.00** #882-2 Enamel ivory finish, 183 border back Doz **$4.35** Gro **$51.00** #882-3—Cambric finish, 67 all over back Doz **$4.85** Gro. **$57.00** #882-4—Enamel ivory finish, 67 all over back Doz **$4.85** Gro **$67.00**

"STEAMBOAT" PLAYING CARDS

"Steamboat"—Universal Playing Card Co's cards, high finish, perfect slip popular backs. #0999—Assrtd 1 doz in box. Gro. **$32.40** Doz **$2.85**

TALLY CARD ASST.
Bridge or 500

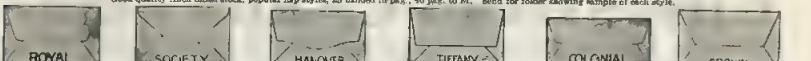
#3598 12 subjects 4¼x3½, dainty new backs & white [illegible] and Sport [illegible] Novelty backs. Assrtd 100 in box... BOX of 100 **$1.00**

PLACE CARD CABINET ASST.

#3575—A subjects assrtd butterflies, flowers [illegible] floral [illegible] in other subjects [illegible] some [illegible] [illegible] [illegible]

"HAWTHORNE LINEN" CORRESPONDENCE ENVELOPES

Good quality linen finish stock, popular flap styles, 25 handed in pkg., 40 pkgs. to M. Send for folder showing sample of each style.



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¼ M in box	¼ M in box	¼ M in box	¼ M in box	¼ M in box	¼ M in box
Per M, $2.25	Per M, $2.25	Per M, $2.25	Per M, $2.25	Per M $2.25	Per M $2.25
5 M lots, 2.10	5 M lots, 2.10	5 M lots, 2.10	5 M lots, 2.10	¼ M lots 2.10	5 M lots 2.10

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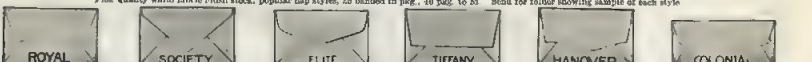

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5 M lots, 3.00	5 M lots, 3.00	5 M lots, 3.00	5 M lots, 3.00	5 M lots, 3.00	5 M lots, 3.00

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Bridge or 500

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PLACE CARD CABINET ASST.

#3575—A subjects assrtd butterflies, flowers [illegible] floral [illegible] in other subjects [illegible] some [illegible] [illegible] [illegible]

GUARANTEE VISIBLE GASOLINE MEASURES

Outfit comprises two separate and distinct units, a measuring device, which is primarily designed for location outside of building or any point where customer can drive up close; the pumping unit, consisting of a rotary vane pump driven by a powerful electric motor or gasoline engine, the whole pumping system being mounted on a cast iron base in the neatest and most compact manner. The pumping unit is intended for location inside the building, but at points close as practicable to the measure itself.

Container at top of pedestal is of glass, protected by a guard of expanded metal mesh, and marked to measure from one to five gallons. Operating in this container and extending down through the pedestal is a 1-inch standpipe which connects with the supply line from the gasoline tank by means of a union. This standpipe can be raised or lowered so as to adjust the height of the open end to the container to correspond with the 1, 2, 3, 4 and 5 gallon marks on the glass. Adjustment is made by means of a handle attached to the standpipe, and extending through the opening in the pedestal, the handle sliding in the notches in the circular clips.

The pipe to the right of the container is a conduit which carries the wiring for both the motor and the light globe. The pipe to the left of the container is a vent pipe, extending from the top of the container down through the pedestal, and connecting by means of a union to pipe from the intake end to the standpipe, which deflects the gasoline downward as it issues from the pipe opening.

OPERATION

Let us suppose three gallons is desired. The standpipe is raised to a height which will permit shutting of the handle into the notch marked 3, which causes the open end of the pipe to be even with the level of the three gallon mark on the glass. The ball handle is then raised, starting the motor which rapidly exhausts the air from the container drawing the gasoline up by vacuum. The liquid is permitted to flow until its level is above that of the open end of the standpipe, and the ball handle, being released by the operator is returned to its normal position by means of a spring. The action produced by the dropping of the ball is twofold, the current is turned off from the motor stopping the pump and at the same time admits air to the container, which at once permits any excess liquid to flow back through the standpipe into the gasoline storage tank, leaving but three gallons exact in the container. This is then drawn off by means of the faucet through the delivering hose, into the tank of the automobile.

No. 1—Guarantee Visible Gasoline Measures; wired for electric power plant and equipped with either AC or DC motor, also hose, nozzle and gasoline measure; wgt. 550 lbs. ..... Each $550.00

No. 2 Guarantee Visible Gasoline Measures; wired for electric power plant and equipped with either AC or DC motor, also hose, nozzle, meter and gasoline measure; wgt. 580 lbs. ..... Each 675.00

No. 3 Guarantee Visible Gasoline Measures; wired for electric power plant and equipped with either AC or DC motor, also hand power attachment, hose, nozzle, meter and gasoline measure; wgt. 600 lbs. ..... Each 720.00

No. 4 Guarantee Visible Gasoline Measures; equipped with hand power attachment also complete with hose, nozzle and gasoline measure; wgt. 450 lbs. ..... Each 445.00

No. 5 –Guarantee Visible Gasoline Measures; equipped with hand power attachment only, also complete with hose, nozzle and gasoline measure; wgt. 480 lbs. ..... Each 530.00

No. 6 Guarantee Visible Gasoline Measures; wired for electric power plant and equipped with either AC or DC motor, also hand power attachment, hose, nozzle and gasoline measure; wgt. 700 lbs. ..... Each 830.00

Second class freight

GREASE GUNS, MOTOR CLEANERS

ROTHWEILER BARREL PUMP

A Rothweiler Pump saves the big investment in oil tubs.

It will get all the oil out of the barrel. Easy to operate. Will last forever. Pumps a full quart to the stroke.

Patented anti-drip Spout. Oil cannot be wasted and the top of the barrel is always clean.

A Rothweiler Pump taps the original barrel, so your customer knows that he got the brand of oil asked for.

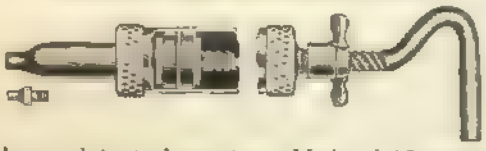
Rothweiler Barrel Pump—Each..... $10 00

SUNDERLAND No. 1 GREASE GUN

As shown, the cap unscrews from cylinder and drops back on hinge permitting the stripping ring to be pushed back toward handle. The piston is pulled back and gun is then filled by shoving cylinder into grease can. Cap is then swung into place and locked by turning cylinder into it. If hard grease is used the screw may be turned and the hard grease will be forced out through flexible spout. If soft grease is used the piston may be connected from a screw type to ordinary push type by half turn of locking device. Capacity, 12 ounces; length of cylinder 12 inches; weight 3 pounds. Made of heavy steel cylinders, finished in unpolished enamel.

No. 1 –Sunderland Grease Gun Each $6 00

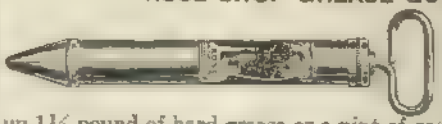
SILVER GIANT GREASE GUN



A heavy duty tool –no toy. Made of 16 gauge steel; dent proof. Threads too heavy to strip. For use with grease or oil. Equipped with malleable ratchet and threaded steel piston so that hard grease can be handled with ease. Spout for oil carried in handle. Washers made of best leather 3/16 inch thick and treated to withstand constant contact with grease. Guaranteed for five years. Capacity 12 ounces. Length 20½ inches. Weight 4 lbs. Packed one in a strong carton.

Silver Giant Grease Gun Each $3 50

ROSE SHOP GREASE GUNS



Made especially for shop use; self loading—fills by suction; will draw up 1¼ pound of hard grease or a pint of gasoline or lubricating oil with one stroke; made of heavy steel seamless tubing; brass top and detachable nozzle; measures 1½ inches outside by 24½ inches over all.

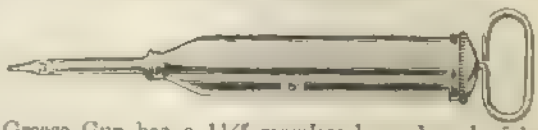
Rose Shop Grease Guns; wgt. 3 lbs..... Each $4 00

PIONEER GREASE GUN

Fitted with swivel ball joint at end to turn in any direction. Entire nozzle unscrews for filling with oil or grease. Barrel measures 1¼x12½ inches; length over all, 15 inches. Combination spout for oil or grease.

Pioneer Grease Gun Each $1 75

STANDARD GREASE GUN



Grease Gun has a 1⅛" seamless brass barrel of heavy gauge, is well made and fitted with cork plunger.

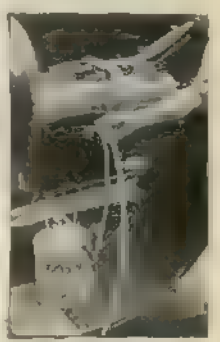
Standard Grease Gun..... .....Each $0 75

ROMORT ENGINE CLEANER

Air does not enter tank but passes right through the air tube, picking up the fluid at extreme end of cleaner, eliminating all danger of explosions. Capacity, 2 quarts. 20½ inches long, 4 inches diameter. Nozzle adjustable for fine or heavy stream.

Romort Engine Cleaner..... Each $3.50

IMPERIAL MOTOR CLEANER



Connect Motor Cleaner to air line as shown in top illustration, drop end of kerosene hose in can of kerosene, turn down thumb screw and "let 'er go!" Releasing thumb nut shuts off air. Flow of kerosene adjusted with knurled ring, where spout joins body of cleaner. Flow of kerosene may be shut off completely if desired, thus using the device for drying the cleaned surface.

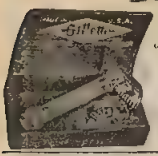
No. 20C –Imperial Motor Cleaner; wgt. ¾ lbs Each $2.50

UNIVERSAL COMPRESSION COUPLING

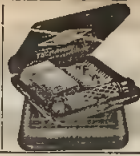
Is used in connection with Standard Schrader Pressure Gauge for determining the exact compression in each cylinder of a motor. Fittings furnished permit of it being attached to all motors.

Universal Compression Coupling . Each $1 00

"GILLETTE" SAFETY RAZORS



Gillette "Brownie" Safety Razor Old Type Gillette Safety Razor Nickel plated, 3 dozen blades in each. Gillette Blades, 10 shaving edges packed in imitation leather covered metal case. Ea. 67½c



"Perfecto"—A small compact set, triple silver plated new improved tool style Safety Razor, metal blade box containing 12 Gillette blades and shaving brush, put up in triple silver plated case, purple velvet and satin lined. Each $3.67½

"Tashaway G"—Gold plated razor and case. Dozen $8.41

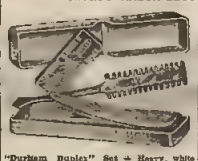
"GEM" SAFETY RAZOR

Triumph A Highly Nickel plated Frame, 3 blades in nickel metal container, in purple velvet lined highly nickeled flat metal case known as pocket edition. Set 63c
12 Sets (or more) Per Dozen $7.84

"SPORT" EVER READY POCKET EDITION RAZOR

"Sport"—Open Plate nickel frame, latest improved handle, 3 blades in nickeled blade holder, put up in an attractive triple plated pocket case. Set, $.63
(3 Doz. Lots or more) Doz. Sets 7.14

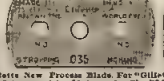
"DURHAM DUPLEX" SAFETY RAZOR SETS



"Durham Duplex" Set of Heavy white celluloid handle, safety guard and pkg. of 7 blades in handsome ivory grained celluloid case, Each $.85 ..... Doz. Lots, $6.25

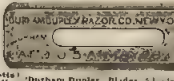
DeBarry Set, Durham Duplex Safety Razor, nickel plated blade, holder and handle, 5 blades, packed in celluloid case. Each, 73½c

"GILLETTE" NEW PROCESS BLADES



Gillette New Process Blades. For "Gillette" safety razor, 1 doz. blades in pkg. Pkg. 73½c
Gillette—½ doz. blades in pkg. Pkg. 37c

"DURHAM DUPLEX" BLADES

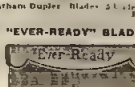


"Durham Duplex" Blades. 5 blades in pkg. Pkg. 37c

GEM DAMASKEENE" BLADES

Gem Damaskeene Blades for New Gem Jr. safety razor. 7 blades in pkg. Per 34c

"EVER-READY" BLADES



"Ever-Ready" Blades in pkg. Pkg. 25c

IMPORTED SAFETY RAZORS—FOR DOUBLE-EDGE BLADES

N7205—Imported Safety Razors for ... blades, nickel plated handle and adjustable ... Each in leatherette case. Doz. $2.00

N7210—Imported Safety Razor for ... double edge blades, nickel plated handle and adjustable ... Each in compact nickel plated vest pocket case. ... Doz. $2.25

N7212—Imported Vest Pocket Safety Razor for double edge blades, nickel plated brass handle, folding handle, in ... leather case. Doz. $2.25

N7215—Bonn Imported Silver Plated Safety Razor and handle for double edge blades, in satin lined leatherette case. Doz. $4.00

N7210—Imported Safety Razor, for ... blades, nickel plated handle and adjustable blade holders. Complete in hinged lid nickel plated case. Each $1.50

RAZORS—EACH RAZOR LISTED BELOW IS THOROUGHLY TESTED AND SET READY FOR USE BEFORE BEING SHIPPED TO US. WE GUARANTEE SATISFACTION.

N6710—5/8in. round point blade, hollow ground, shoulder, full tang, black rubber handle (Illus. $3.00) Each 80c

N6715—[illegible] 5/8 in. square point blade, double shoulder, polished tang, black rubber handle ... Doz. $12.00 Each $1.10

N6720—5/8 in. square point, hollow ground, double shoulder, polished tang, rubber handle (Illustration $13.20) Each $1.40

N6725—5/8 in. square point, hollow ground, double shoulder, polished tang, rubber handle (Illustration $13.20) Each $1.40

N6730—Wade & Butcher genuine bow ... square point blade, double shoulder, polished tang, black rubber handle ... Doz. $19.00 ... Each $1.75

RAZOR STROPS

N7150—... Each 50c

N7155—... Each 75c

N7160—... Each $1.00

N7165—... Each $1.25

N7170—... Each $2.00

N7175—... Each $2.25

STROPPING MACHINES—FOR SAFETY RAZOR BLADES

AUTOMATIC STROPPERS

For safety and regular style razor blades.

N14581—"Sterling" Stropper, all metal parts nickeled, 2¾-in. horsehide strop handle and attachment for sharpening safety razor blades. Each in paper box. Each 98c

ROYAL STROPPERS

N14597 A "Royal" Stropper for Gillette blades, nickeled frame, grained leather rollers, sharpens both edges Gillette blades at one time. Each in box ... Each, 84c

N14598—For Gillette blades, nickeled frame, grained leather rollers; sharpens all 4 sides of a Gillette without removal. Guaranteed to sharpen. Each in box ... Each, $2.21

N14599—For Gem, New Ready or other blades, otherwise as N14598 ... Each $2.21

N14600—For "Durham" Duplex blades otherwise as N14598 ... Each $2.21

GAUNTLETT'S DUBEL-EDGE STROPPER

TWINPLEX "DE LUXE" ROTARY STROPPER

For "Gillette" Blades.

N14590—Heavy ... plated razor dustproof, ... ring brushes in heavy nickel plated hinged ... frame. Long automatic ... strokes of the hand are sharpened without removing or changing ... Each $3.67½

N14593—For Durham Duplex Blades, otherwise as above. ... Each $3.67½

Walden Worcester Wrench Display Boards

This free Display Board allows display of your stock and will multiply your sales.

These free Display Boards have wooden backs, the front is of sheet metal handsomely lithographed in black and golden rod, the hooks are held by nut and check nut and there is no possibility of the board warping out of shape. An ornament to any store and a valuable sales producer.

Complete With Display Board $82.00

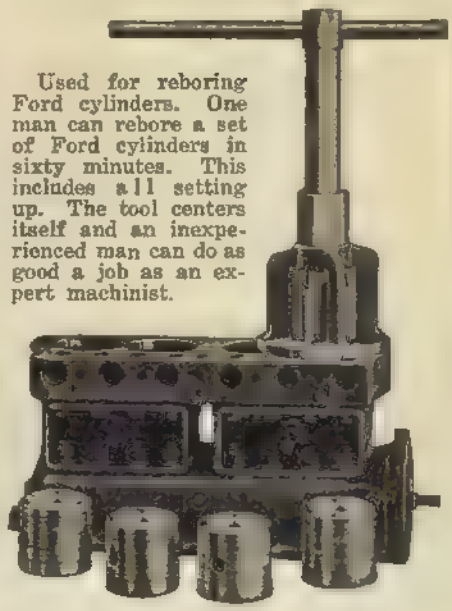
5	1620	$0.70	$3.50
5	5810	.55	2 75
5	2718	.60	3.00
5	2520	60	3 00
5	4564	1.30	6 50
5	2418	.80	4 00
5	1018	2.50	12.50
5	1020	2.50	12.50
5	6064	.77	3 85
5	6018	.88	4.40
5	6020	.88	4 40
5	VG-2	.88	4.40
5	VG-3	.55	2.75
5	5660	1.20	6.00
5	1881	1.10	5.50
5	3822	.66	3 30

80 Wrenches Total, $82.00

Directory of Wrenches for Ford Car

Axle housing bolt and nut	6064-1620
Ball socket bolt and nut	6018
Body bracket bolt nut	5660
Brake adjusting nut	4564
Brake reverse support bolt nut	2418
Brake shoe support nut	2418
Carburetor flange bolt and nut	1018
Clutch pedal support bolt nut	2418
Commutator case support bolt	2718-6018
Commutator case support bolt (On cars with self starter)	2720-6020
Connecting rod cap bolt nut	5810-1020
Controller shaft bracket bolt nut	2418
Crank case arm bolt and nut (side)	2418
Crank case arm bolt and nut (top)	2418
Crank case and cyl. cover cap screw	6018-2718
Crank case lower cover screw	6064
Crank shaft bearing bolt	1881
Crank shaft bearing bolt centre & front	1881-2418
Crank shaft bearing bolt nut	2418
Cylinder cover bolt nut	2718
Cylinder cover cap screw	2718-6018
Cylinder covar cap screw (cars with self starter)	2720-6020
Cylinder head cap screw	1020-1620-6020
Cylinder valve cover, stud nut	1018
Dash bracket to dash bolt nut	6064-1620
Differential case stud nut	2418
Differential drive gear screw	6064
Drive shaft roller bearing, stud nut	2720-1020
Fan adjusting screw	2718-6018
Fan bracket bolt	2418
Fly wheel cap screw	3822
Front fender iron bolt nut (side)	2418
Front fender iron bolt nut (bottom)	2418
Front radius rod nut	5660
Front and rear spring hanger nut	5660
Front spring clip nut	2418
Front spring perch nut	5660
Hub brake rod support, bolt and nut	1620
Hub bolt nut	6022-5660
Inlet and exhaust clamp stud nut	1018-2418
Magnet bolt	6018-2718
Muffle rod nut	6064-6016
Piston pin lock screw	1881
Radiator stud nut	2718
Radius rod bolt and nut	5660
Rear hub lock nut (late models)	2432
Rear hub lock nut	5660
Rear spring clip nut	5660
Reverse adjusting nut	4564
Running board, bolt nut	1881
Running board to fender, bolt nut	1881
Spindle bolt nut	2418
Spindle bolt with oiler	5660
Spindle connecting rod bolt and nut	5660
Spindle connecting rod bolt with oiler	5660
Steering post bracket, bolt nut	2418
Steering tube flange bolt nut	6064
Steering yoke clamp bolt and nut	2418
Transmission cover bolt and nut	6018
Universal ball cap, bolt and nut	1018-2718
Universal ball cap screw	2418-1018
Water cyl. inlet connection, cap screw	1020-1620
Water cyl. outlet, connection, cap screw	1620

Davis Cylinder Reboring Jigs and Reamers

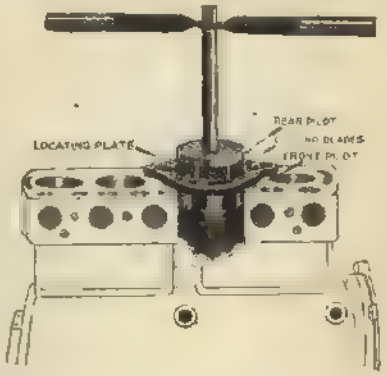


Used for reboring Ford cylinders. One man can rebore a set of Ford cylinders in sixty minutes. This includes all setting up. The tool centers itself and an inexperienced man can do as good a job as an expert machinist.

Reamer is adjustable for size. Weight 45 lbs. Worm blades can be sent out and reground.

Each $75.00

Ford Cylinder Reamers



The simplest solution of the problem of the worn cylinder. All working parts are hardened and ground, which includes the pilots, both front and rear, so that constant friction against the cylinder walls will not wear them. This tool reams the cylinder standard oversize.

Each

Cylinder reamer .031 oversize.....$22.50
Cylinder reamer, other oversizes.. 25.00

Spark Plug and Cylinder Head Nut Wrenches

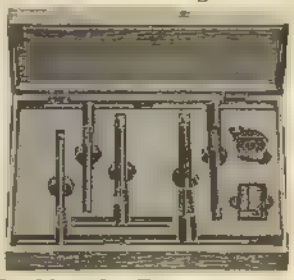
No. 1F Drop forged; same size and style as packed with regular Ford equipment .....each, $0.60

Dyer Bushing Extractors

This is a very simple tool that will save time, temper and tools. It is operated by squeezing the spring arms together with pliers and then inserted in one bushing. When driven in, it will expand after passing the first bushing and seat on the edge of the other. It will then be a simple matter to drive this bushing out. Made of tool stock, hardened and polished.

Each $1.50

Ford Bushing Extractor Sets



A combination set which will extract all Ford bushings. Consists of: No. 1 Tool for ⅛ to ¼-in. bushings, No. 2 Tool for ⅝ to ¾-in. bushings, No. 3 Tool for 47/64 to 1-in bushings. No. 4 Tool for ⅞ to 1⅛-in bushings and No. 79 Tool, consisting of spindle and Nos. 7 and 9 spools. Will extract bushings 1⅛ to 2⅛ in.

Complete in wood case....per set, $30.00

Tool Kits

This set contains all of the regular tools furnished with the Ford cars and in addition many tools very necessary in emergencies. Tools are of the best quality and finish. Consists of the following tools, 9 inch black automobile wrench, 3 inch electricians' round shank screwdriver, 6 inch black combinat on pliers, No 27 semi-finished drop forged wrench, 5 inch offset screwdriver, 8 ounce ball pein hammer and ⅝ inch cold chisel.

No. 910 .....each, $4.00

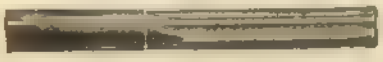
Adjustable Wheel Pullers

Fits Ford cars equipped with taper rear axles. Is adjusted by a bolt on one side of cap. Hub thread arrangement for adjustment prevents slipping of threads. To remove wheel simply screw wheel puller on the hub and tighten the bolt.

Ford Special ..... each, $0.65

BUSHING REAMERS FOR FORDS

Bushing Reamers



Highest quality steel accurately finished.

No. 2517	Differential case	$5.00
No. 3820	Front spring perch	2.25
No. 3844	Rear spring perch	2.25
No. 2525B	Differential pinion	2.25
No. 2527	Differential spider	3.75
No. 2540	D. S. front housing	3.75
No. 3521	Steering gear pinion	1.75
No. 2559	Hub cam shaft	1.90

Cam Shaft and Steering Post Bushing Reamers

Takes care of following bushings

No. 3042	Cam shaft front bearing.
No. 3043	Cam shaft center bearing.
No. 3044	Cam shaft rear bearing.
No. 3045	Steering post bracket bearing.

Each $2.75

Brake Drum Assembly and Driven Gear Sleeve Bushing Reamers

Reams following bushings

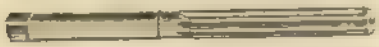
No. 3311	Brake drum assembly.
No. 3320B	Driven gear sleeve bushing.
No. 3320C	Driven gear sleeve bushing.

Each $5.50

Transmission Driving Plate Bushing Reamers

No. 3327B .....each, $3.25

Wrist Pin or Piston Bushing Reamers



This reamer is made especially to ream both bushings for the wrist pin at one operation and insures perfect alignment.

No. 3022½.....each, $2.25

Crank Shaft or Main Bearing Bushing Reamers

Designed to ream the three bushings for the crank shaft at one operation and obtain perfect alignment of these bearings. Saves much time in accomplishing this work, and constructed in a way to make it easily operated.

No. 3031-2-3.....each, $15.00

Spindle and Spindle Arm Bushing Reamers

Made to ream these bushings in perfect alignment at one operation. Long section is for the spindle body bushing and the short portion is for the spindle arm bushing. Furnished in straight or spiral flute.

Nos. 2713-2714 Reamers.....each, $2.00

Push Rod and Valve Stem Reamers

An oversize push rod reamer with pilot made to ream the push rod guides to take push rods ⅛ inch oversize. Has pilot long enough to engage the valve stem guides before the reaming portion enters the push rod guides. The tool can be operated with an ordinary double end reamer wrench.

No. 3058B With pilot.....each, $4.00

No. 3052X Valve stem bushing reamers .....each, 2.00

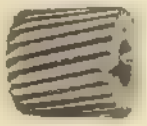
Spiral Flute Reamers

Made of highest quality steel obtainable and the best for the use intended, accurately finished.

No. 3024 For connecting rod.....each, $5.00

No. 3314½ For triple gear flanged bushing .....each, 2.50

Transmission Reverse Gear Bushing Reamers



No. 3304W .....each, $12.00

Transmission Slow Speed Gear Bushing Reamers

No. 3309W .....each, $8.00

Combination Reamer and End Mill for Propeller Shaft Bearing

Furnished for Ford Cars or Ford One-Ton Trucks

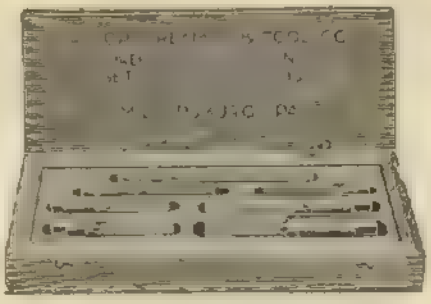
This tool reams the propeller shaft bearing and faces the end of the bushing in one operation. The guide accurately aligns the bearing with the shaft, and the end mill faces the bushing square with the bearing.

The guide is strongly recommended, as the short length of the propeller shaft bushing makes the use of a pilot reamer impractical.

No.		Each
2581R	For Ford cars	$ 9.00
1076R	For Ford one-ton trucks	10.00

Alvord Reamers for Ford Cars

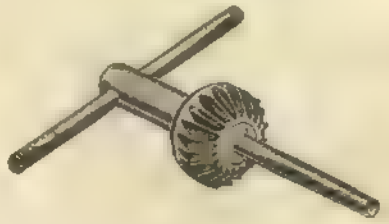
Ford Set No. 13



Consists of seven reamers, one each Nos. 2713-14, 2540, 3820-3844, 3044-3042-3545, 2559, 3059½, 3022½. Used in most repairs aside from transmisison work. Best quality tool steel, well finished and accurate to size. Packed in hardwood compartment case.

Per set $20.00

Valve Seating Tools



A handy tool for garage and repair shop, for use on the Ford and Fordson Tractor valve seats.

They do the work quickly and accurately; are made from highest quality tool steel. All machining is accurate and are capable of turning out a perfect job.

They will reface valve seats with the same accuracy and perfection as they do their other work.

		Each
No. 213	Valve Seating Tool	each, $2.25

One in a Carton

Valve Refacers

Is intended to scrape the face of the valve, and is so constructed that the proper angle will be given when using this tool.

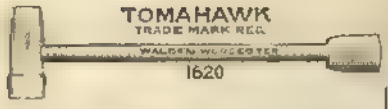
Each $0.25

WALDEN-WORCESTER WRENCHES

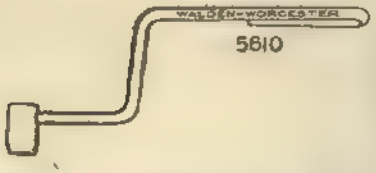
GARAGE SERVICE WRENCHES

AS APPLIED TO FORD CARS

ADAPTED TO OTHER POPULAR CARS

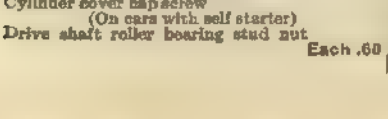


1620 Tomahawk. Triple socket Wrench. Socket sizes ⅜" and ½". This is the original Triple Socket Wrench, trademark "TOMAHAWK," having ½" rod connecting the two sockets. The sockets are particularly shaped to increase their usefulness. Will fit the following:
Axle housing bolt and nut
Brake shoe support bolt
Cylinder head cap screw
Dash bracket to dash bolt and nut
Drive shaft roller bearing, stud nut
Water cylinder inlet connection cap screw
Water cylinder outlet connection cap screw.
Each .70

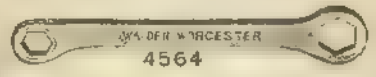


5810 Connecting Rod Wrench. Fits all connecting rod cap nuts. Includes the fourth connecting rod. This is an original design, the first wrench made to reach the fourth connection without removing the engine from the car. Be sure you get the wrench with all right angle bends and loop handle. No. 5810 stamped on handle.
Each .55

2718 Tee Handle Wrench. Socket 9/16", handle 6" shank 12". Used on:
Commutator case support bolt
Crank case and cylinder cover cap screw
Cylinder cover bolt and nut
Cylinder cover cap screw
Fan adjusting screw and nut
Magnet bolts
Radiator stud nut
Universal ball cap bolt and nut Each .60

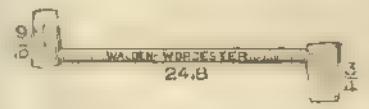


2720 Tee Handle Wrench. Socket ⅝", handle 6", shank 12". Used on:
Commutator case support bolt
(On cars with self starter)
Cylinder cover cap screw
(On cars with self starter)
Drive shaft roller bearing stud nut
Each .60

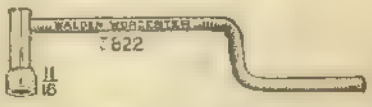


4564 Ratchet Wrench 1 1/16" hex opening particularly designed for use on the Ford brake and reverse transmission bands. Opposite end 15/16" for use on slow speed connecting lock nut and also CHAMPION X Spark Plugs. One of the most valuable tools to an owner on account of the ease in taking up bands. Each 1.30

5860 Triple Socket Offset Wrench Socket sizes 15/16" 7/8" and 13/16" Length over all 10½" Handle particularly designed for heavy duty. Will fit the following
Body bracket bolt and nut
Front radius rod nut
Front spring perch nut
Front and rear spring hanger nut
Hub bolt and nut
Radius rod bolt and nut
Rear spring clip nut
Spindle bolt with oiler
Spindle connecting rod bolt with oiler
Spindle connecting rod bolt nut Each 1.20

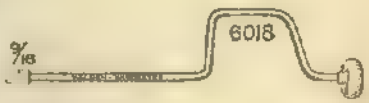


2418 Double Socket Offset Wrench. Length over all 9". Socket sizes 9/16" and ¾". Will fit the following:
Brake reverse support bolt and nut
Brake shoe support bolt
Clutch pedal support bolt and nut
Crank case arm bolt and nut (side)
Crank case arm bolt and nut (top)
Crankshaft bearing bolt nut
Crankshaft rear bearing bolt
Dash bracket to dash bolt and nut
Differential case stud and nut
Fan bracket bolt
Front fender iron bolt and nut (bottom)
Front spring clip nut
Inlet and exhaust clamp stud nut
Spindle bolt nut
Steering post bracket bolt and nut
Steering yoke clamp bolt and nut
Universal ball cap, bolt and nut
Universal ball cap screw
Each .80



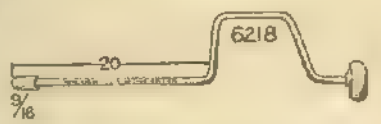
3822 Socket size 11/16" hex. Used on fly wheel cap screws, heretofore considered an impossible place for a socket wrench An ugly place made accessable. Each .68

1881 Socket sizes, 9/16" hex and 9/16" square. Length over all 9". Will fit the following:
Crank shaft, bolt and nut
Piston pin, locking screw
Running board, bolt nut
Running board to fender, bolt nut
Each 1.10



6018 Long Shank (11") Brace Speed Tool. Over all length 19¼". Socket size 9/16". Used on
Commutator case support bolt
Crank case and cylinder cover cap screw
Cylinder cover cap screw
Fan adjusting screw and nut
Magnet bolts
Transmission cover bolt and nut
Each .88

6020 Long Shank (11") Brace Speed Tool. Over all length 19¼". Socket size ¾". Used on:
Commutator case support bolt
(On cars with self starter)
Cylinder cover cap screw
(On cars with self starter)
Cylinder head cap screws
Each .88



6218 Long Shank (20") Brace Speed Wrench. Socket size 9/16". Over all length 26". Used on:
Front fender iron bolt nut (side)
Radiator stud nut
Each 1.10

6064 Short speed wrench. Socket size ½" hex. Length over all 13¾", Will fit the following:
Crank case, lower cover screw
Differential drive gear case
Muffler rod nut
Rear axle housing, bolt and nut
Steering tube flange, bolt and nut
Each .77

WALDEN-WORCESTER WRENCHES

GARAGE SERVICE WRENCHES

AS APPLIED TO FORD CARS
ADAPTED TO OTHER POPULAR CARS

TEEFLEX WRENCHES

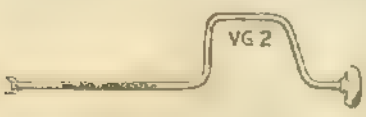
Universal joints and sockets have been used in combination with wrenches and are now complete in one solid tool. Will reach nuts otherwise inaccessible.

1016 Socket size, ½" hex. Length over all 13¼". Will fit the following
Crank case, lower cover screw
Dash bracket to dash, bolt nut
Muffler rod nut
Steering tube flange, bolt nut
Each 2.50

1018 Socket size, 9/16" hex. Length over all 13¼". Will fit the following:
Carburetor flange, bolt and nut
Commutator case support bolt
Cylinder valve cover, stud nut
Inlet and exhaust clamp, stud nut
Universal ball cap, bolt and nut
Universal ball cap, cap screw
Each 2.50

1020 Socket size, ⅝" hex. Length over all, 13¼". Will fit the following:
Connecting rod cap nut
Cylinder head cap screw
Water cylinder inlet connections, cap screw
Each 2.50

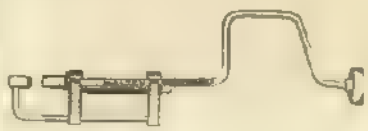
VG3 Short Valve Grinder Wrench—all steel. The original wire handle valve grinder redesigned with ⅜" bar handle which swivels on cone bearing. The fork end fits the head perfectly. Each .55



VG2 Long Shank Brace Grinder Wrench. Some garage men prefer the brace grinder in place of short grinder VG3. Fork end flexible and will reach all valves including one under the dashboard. Each .85

NUT AND BOLT SPEED WRENCHES

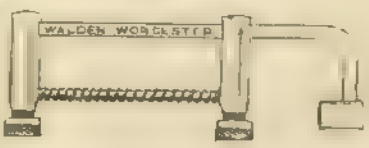
A one man tool. The extension socket holds either the nut or bolt head while the operator spins it off. Extension arm is adjustable for different bolt lengths.



6316 Socket sizes, ⅜" hex and ½" hex. Length over all, 20¼". Will fit the following.
Rear axle housing bolt and nut
Each 3.00

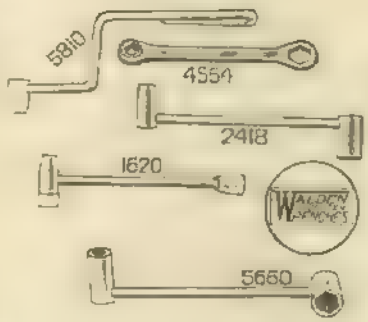
6318 Socket sizes, 9/16" hex and 5/8" hex. Length over all, 20¼". Will fit the following:
Ball socket, bolt and nut
Crank case arm, bolt and nut (side)
Steering post bracket, bolt and nut
Steering yoke clamp, bolt and nut
Transmission cover, bolt and nut
Each 3.00

NUT AND BOLT HOLDING ATTACHMENT



This attachment may be used in connection with either the brace speed wrenches (6000 series) or the long shank Tee handle wrenches (2700 series).

No. 6416—½ Each $2.00
No. 6418—9/16". Each 2.00



NO. 57 SET - FORD CAR

Weight 5.22 lbs. Price 4.55

1620 Tomahawk. Triple socket Wrench. Socket sizes ⅜" and ½". This is the original Triple Socket Wrench, trademark "TOMAHAWK." Will fit the following: Axle housing bolt and nut, Brake shoe support bolt, Cylinder head cap screw, Dash bracket to dash bolt and nut, Drive shaft roller bearing, stud nut, Water cylinder inlet connection cap screw, Water cylinder outlet connection cap screw. Each .70

5810 Connecting Rod Wrench. This is an original design, the first wrench made to reach the fourth connection without removing the engine from the car. Each. 55

4564 Ratchet Wrench 1 1/16" hex. opening for use on the Ford brake and reverse transmission bands. Opposite end 15/16" for use on slow speed connecting lock nut and also CHAMPION X Spark Plugs. Each 1.30

5660 Triple Socket Offset Wrench. Socket sizes 15/16", ¾" and 1 1/16". Length over all 10½". Will fit the following: Body bracket connecting bolt and nut, Front radius rod nut, Front spring perch nut, Front and rear spring hanger nut, Hub bolt and nut, Radius rod bolt and nut, Rear spring clip nut, Spindle bolt with oiler, Spindle connecting rod bolt with oiler, Spindle connecting rod bolt nut. Each 1.20

2418 Double Socket Offset Wrench. Socket sizes 9/16" and ¾". Length over all 9". Will fit the following Brake reverse support bolt and nut, Brake shoe support bolt, Clutch pedal support bolt and nut, Crank case arm bolt and nut (side), Crank case arm bolt and nut (top), Crankshaft bearing bolt nut, Crankshaft rear bearing bolt, Dash bracket to Dash bolt and nut, Differential case stud nut, Fan bracket bolt, Front fender iron bolt and nut (bottom), Front spring clip nut, Inlet and Exhaust clamp stud nut, Spindle bolt nut, Steering post bracket bolt and nut, Steering yoke clamp bolt and nut, Universal ball cap, bolt and nut, Universal ball cap screw. Each .80

WALKING AND TALKING DOLLS

EMBOSSED HAIR, CLOTH LIMBS PAINTED STATIONARY EYES WITH VOICE

T1798—Long hair composition head and hands; painted stationary eyes; cloth stuffed body, shoulder and hip jointed; with voice; lace socks, black patent leather slippers; dressed, gingham dress with rompers, tied bonnet to match; height 17 ins.; each in box. Each $1.95

T1799—Same as T1798, larger; height 21 ins.; each in box. Each 2.65

COMPOSITION LIMBS

T1800—Same as T1798, larger, and with composition limbs; height 27 ins.; each in box. Each 3.50

MOHAIR WIG, CLOTH LIMBS PAINTED STATIONARY EYES WITH VOICE

T1803—Unbreakable composition head and hands, mohair wig; stationary painted eyes; pink cloth stuffed body, shoulder and hip jointed; gingham dress, rompers, tied bonnet to match; lace socks and patent leather slippers; with voice; height 17 ins. Each 2.25

CRYING DOLL EMBOSSED HAIR PAINTED STATIONARY EYES

T1743—Embossed hair, composition head and hands, stationary eyes, pink cloth stuffed body; shoulder and hip jointed; cuffed trim lace dress, lace trimmed bonnet to match; slippers and socks; white and ornaments; ... height 13 ins.; each in ... Dozen 1.25

MAMA DOLL EMBOSSED HAIR PAINTED STATIONARY EYES

T1746—Flesh tinted composition head and hands; embossed hair, painted features, jointed arms, long cloth lace trim dress, says "Mama"; the most realistic of any talking doll ever made; length 15 ins.; each in box. Dozen .. 13.00 Each 1.15

T1804—Same as T1803, larger; height 21 ins.; each in box. Each 2.95

MOHAIR WIG, MOVING EYES

T1807—Same as T1803, but with moving eyes; height 17 ins.; each in box. Each 2.85

T1808—Same as T1807, larger; height 21 ins.; each in box. Each 3.50

NEGRO CHARACTER DOLLS

MAT FINISH

T1402—Full composition; finely modeled throughout; painted eyes and mouth; shoulder and hip joint; with diaper; height 7 inches; each in box. Each 1.00

MAT FINISH

T1407—Full curly hair, mat finished composition head and hands, stationary painted eyes; brown cloth stuffed body; shoulder and hip jointed; gingham dress, lace trimmed bonnet to match; stockings and slippers; height 14 ins.; each in box. Each 1.10

These negro dolls are big favorites among white children as well as "colored folks"; good features, natural complexions

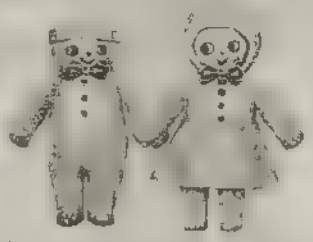
MAMA DOLLS

T1747—Long dressed, composition head and jointed arms, embossed hair, nicely tinted features; lace trim, tucked dress; says "Mama" very naturally and distinctly; length over all 15 ins.; each in box. Dozen ..... 13.00 Each 1.15

T1810—Embossed hair, mat finished composition head and hands, stationary painted eyes, brown cloth stuffed body, shoulder and hip jointed; gingham dress with rompers and tied bonnet to match; lace stockings, black patent leather slippers; height 17 ins.; each in box. Each 1.95

MISCELLANEOUS NOVELTY DOLLS

TERRY CLOTH DOLLS

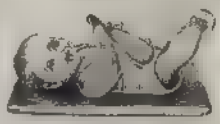


T1757—Turkish towling bodies, assorted boy, girl and clown, painted features; ribbon collar; practically indestructible; average height 9 ins.; 1 dozen assorted in box. Dozen 4.50

WITH VOICE

T1759—Same as T1757, larger; assorted horse, pig, rooster and duck; length horse and pig 12 ins., rooster and duck 9 ins.; good voice; 1/3 dozen in box. Dozen 7.25

CUSHION BABIES

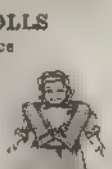


T1442—Jointed arm bisque doll, reclining on padded cushion, length doll 4 ins.; 1 doz. in box. Dozen ..... .80

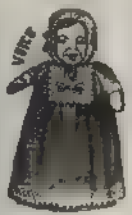
WHISTLING DOLL

T1794—Composition head and hands, painted features, shoulder and hip jointed; puckered mouth; when pressed whistles in very natural manner; trimmed floral costume; stockings and slippers; height 10¼ ins.; 1 dozen in box. Dozen 2.25

SQUEEZE DOLLS Celluloid Face



T1424—Composition body, arms and legs, shoulder joint; celluloid face mask, fancy color lawn lace trim costumes; with hat; voice; when pressed raises arms; height 7¼ ins.; 1 dozen in box. Dozen ..... .48



T1751—Celluloid head dressed doll with bellows; when pressed down cries, height 4¾ ins.; 1 dozen in box. Dozen ..... .72

T1752—Same as T1751; height 5½ ins.; 1 dozen in box. Dozen 1.75

DRESSED STUFFED BODY CLOTH DOLLS CELLULOID FACE WITH VOICE

T1755—Red and green flannel dressed soft stuffed doll with voice; celluloid face; pink cloth hands and feet; red hood, height 13½ ins.; ½ dozen in box. Dozen 3.75

T1822—Red and green flannel dressed soft stuffed doll, celluloid face, jointed arms; green hood; white hands, feet and ruffled collar; with voice; height 9½ ins.; 1 doz. in box. Dozen 2.15

T1825—Red and green flannel dressed soft stuffed, painted flesh color features, shaped eyes, black button eyes, green hat, brown shoes, ... with ... in pocket, large white ruffle collar; height 13 ins.; 1 doz. in box. Dozen 3.75

T1827—Same as T1825, large; height 16 ins.; ¼ dozen in box. Dozen 4.50

HARLEQUINS

T1781—Celluloid face, dressed bellows doll on turned wood handle; when shaken cries, length doll 7 ins., overall 13 ins.; 1 doz. in box. Dozen 2.15

CLAPPING DOLLS

T1774—Dressed clown figure, composition head, shaped stained wood arms, legs and feet, flannel costume gold braid and lace trim; when pressed squeaks and claps cymbals; length 11½ ins.; ½ doz. in box. Doz. 2.15

T1772—Composition head, embossed hair, painted features, hip jointed, shaped wood legs and feet; nicely dressed, strong spring; with cymbals; length 12 ins. Dozen 2.15

PROMPT SERVICE ALWAYS

CHINA AND BISQUE DOLLS

These dolls are wonderful sellers and with a small investment you can make a good showing and do a nice profitable business.

CHINA CAKE DOLLS

Not Jointed

T1019 — White glazed china, painted features, yellow hair; length 1¾ ins.; 1 gross in box
Gross .... .50

CHINA BOY DOLLS

Jointed arms and limbs

T1031 China doll, painted features, embossed hair, shoulder and hip jointed; painted shoes 1 doz. in box.
Gross 2.25

T1032—As T1031, length 4½ ins., 1 dozen in box Dozen..... .89

T1031—As T1070; length 6½ ins., 1 dozen in box. Dozen 1.25

T1055 — China boy doll with painted shoes and stockings, full jointed arms and legs, painted features nicely tinted; length 6½ ins.; one doz. in a box Doz. . . .45

BISQUE BOY DOLLS

Jointed arms and limbs

T1057 — Flesh tinted bisque boy doll, jointed arms and limbs; nicely painted features, length 5 ins.; 1 dozen in box.
Dozen 43

T1058—Same, heavier made, and extra fine quality bisque; length 4½ ins.; 1 doz. in box. Doz— .85

T1059—As T1058, length 6 ins., ½ dozen in box. Dozen.... 1.85

T1060—As T1058, length 6¾ ins. 1 in box Dozen 2.15

T1042 — Flesh tinted bisque, jointed arms and limbs; painted features, embossed hair, shoes and stockings and colored running trunks; length 5½ ins., 1 dozen in box
Dozen . .75

BISQUE GIRL DOLLS

Jointed arms and limbs

T1048— Fine girl doll, bisque; shoulder and hip jointed; embossed flowing hair painted with rosette; painted features and shoes; height 4½ ins.; 1 doz. in box. Dozen . .42

Jointed arms and limbs, with hair

T1035-Bisque doll, jointed arms and limbs, painted features, shoes and stockings long straight hair wig, length 3½ ins.; 1 dozen in box.
Dozen . ... .48

T1037—Same, larger, length 4½ inches, extra good; 1 dozen in box. Dozen ..... .82

T1038—Same, larger; length 5 ins.; 1 dozen in box Dozen .88

T1040—Same, larger, length 6 ins., 1 dozen in box. Dozen.....1.15

GT1227 — Flesh tinted bisque; jointed arms and limbs, painted features, shoes and stockings; long double plait hair wig; length 4 ins.; 1 dozen in box, Dozen .. .. .75

GT1228—Same, larger, length 4½ inches; 1 dozen in box Doz .85

GT1229—Same; with curly wig in place of plait; length 4½ ins.; 1 dozen in box Dozen. ..... .85

NOVELTY BISQUE DOLLS

All popular subjects, nicely made and finished; jointed arms, and made to stand

T1065-Standing bisque boy doll, painted features and hair; painted diaper; jointed arms with nursing bottle in hand; length 3½ ins. 1 dozen in box.
Dozen .. 42

T1078 — Standing full bisque doll; assorted boy and girl; jointed shoulder; painted features; painted hood height 4 ins.; 1 dozen in box Dozen. .. .42

T1076—Cowboy, finely modeled; with neck scarf, sombrero, cartridge belt, holster, etc.; nicely painted length 4 ins.; 1 dozen in box. Dozen .. .72

T1077 Red Cross Nurse' embossed hair, painted features, white cap and costume, black shoes; with emergency case; length 4 ins.; 1 dozen in box. Dozen. 72

T1078 — Ambulance Corps Nurse; khaki costume and cap, emergency belt and operating case; nicely modeled and colored; length 4 in.; 1 dozen in box. Dozen. .. .72

T1066 — Standing full bisque doll, jointed shoulders, finely modeled head; painted features; height 4½ ins.; 1 dozen in box.
Dozen .....,..... .45

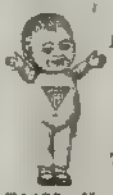
T1075 — Flesh tinted bisque girl doll, jointed arms; embossed hair, blue ribbon; painted features; in bathing costume, length 4 ins.. 1 dozen in box.
Dozen .38

GT1204 — Bisque, flesh tinted, painted features; embossed hair, jointed arms; white, blue shaded pantalettes and shirt; length 4½ ins.; 1 dozen in box. Dozen 85

ASSORTED THREE KINDS

T1081—Fine flesh tinted bisque, jointed arms; heavily embossed hair, blue ribbon band; excellent features, length 4½ ins.; 1 dozen in box
Dozen ..... .43

SONNY



Full bisque standing doll, "Sonny;" jointed shoulder; painted features, hair, shoes and stockings; 1 dozen in box

T1079—Height 4½ in.
Dozen . 45

T1080—Height 6 ins Dozen.. .82

BATHING DOLLS

T1061 — Finely modeled; painted features and hair, blue stripe bathing suit, red belt, jointed arms; length 3½ ins.; 1 dozen in box. Dozen..... .42

T1062 — Same, larger, length 4 ins. Doz. .72

T1063—Same, larger; length 5 in. Dozen ..... .89

T1068 — Sweetie; flesh tinted bisque, fine features; jointed arms, embossed hair, colored ribbon bows; length 5½ ins.; 1 dozen in box Dozen ..... .90

JOINTED ARM BISQUE KEWPIES

T1014—Select quality bisque; flesh tinted; painted features and hair jointed arms; length 4½ ins.; 1 in box
Dozen 2.00

T1015—Same, length 5¾ ins.; 1 in box
Dozen ... 3.75

T1016—Same, length 6½ ins.; 1 in box. Dozen.....6.25

T1017—Same, length 6½ ins., 1 in box. Dozen.....8.00

T1018—Same, length 8 ins., 1 in box. Dozen.....9.00

JOINTED ARMS AND LIMBS

T1074-Fine quality flesh tinted bisque; painted features; shoulder and hip jointed; embossed cap in colors length 3½ inches; each wrapped; 1 doz
n box Dozen .72

T1082—Flesh tinted bisque, extra fine quality; painted features; embossed painted hair; white and blue stripe hair band, pink bows jointed arms and limbs, length 5½ ins., 1 dozen in box
Dozen 90

COMPOSITION BODY DOLLS

BISQUE HEADS

T1331—Full composition body, jointed arms and limbs china head, embossed, hair, painted features; length 5 inches; 1 dozen in box.
Dozen .89

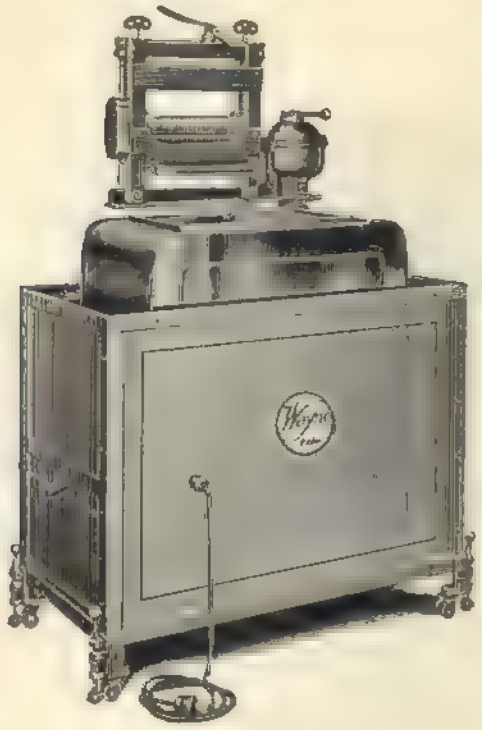
T1347—Same, but with extra fine bisque head; length 6½ ins.; 1 dozen in box. Dozen..... .90

CELLULOID DOLL ASSORTMENT

T1175—156 Dolls to retail 5c to 35c each; consisting of 1 dozen dolls to retail at 5c each; 4 dozen dolls to retail at 10c each; 3 dozen dolls to retail at 15c each; 4 dozen dolls to retail at 25c each; all handsomely dressed in assorted bright color embossed costumes; stationary arms, and jointed arms and limbs assorted; sizes range from 2½ to 6 ins. high; 13 dozen in case. Assortment 11 00

Dolls are every day sellers and you cannot afford to miss sales by not having a good showing in stock.

WASHING MACHINES



No. 100

ELECTRIC POWER

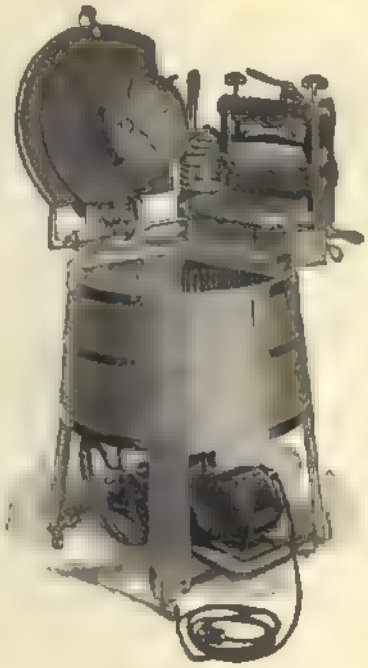
The Wayne washer is perfect in result, because correct in principle. The true rocking motion is obtained by means of curved steel rockers of which the cradle is an integral part and which is placed in the polished copper removable tub, which is devoid of pegs, slats, paddles, etc. The crank and connecting rod transmit the motive power, rocking the cradle, which agitates the clothes and water, forcing suds and water through the linen without possible injury to the finest fabrics. The tub is fitted with a short drain, water pours into pan and out through a spout in end of cabinet

Two levers control entire mechanism, one conveniently placed at side of tub controls starting and stopping of washer; other lever controls the action, forward, reverse and stop, of wringer; has but seventeen working parts, all bearings oilless. The high grade swinging wringer swings into four different positions, top lever operating rolls either way, lower catch locks wringer safely into any of four positions automatically. The expanding clutch starts tub smoothly, which is operated by a long lever. All exposed mechanism is inclosed. The insulated motor is ¼ horsepower, easily running washer and wringer at the same time, is set on special base to keep belt taut. The endless belt is made of ten-ply fabric and red rubber, wide and flat

Every joint and corner of the steel frame is welded, eliminating the use of bolts or rivets. Frame is fitted with casters and adjustable legs which adapt the washer to uneven floors, and are operated by foot lever. The cabinet is finished in baked on enamel, battle gray color. Regularly equipped with 110 volt, 60 cycle, single phase alternating current or 110 volt direct current motor, insulated cord and attachment plug.

Dimensions of frame, inches	36 x 18 x 25¼
Over all dimensions, inches	38½ x 24½ x 56
Floor to top of frame, inches	30
Floor to bottom of frame, inches	4¼
Floor to top of tub, inches	36
Tub, inches	26 x 14½ x 14½
Opening in tub, inches	17 x 11¼
Wringer rolls, inches	11 x 1¾
Weight, pounds	240
No. 100. Each	**$186.75**

WASHING MACHINES



No. 51M

ELECTRIC POWER

This machine has the vacuum system of washing clothes. The vacuum hood is made of one piece heavy corrugated galvanized iron, hot galvanized after it is stamped. Top castings are riveted to hood with copper rivets. The dasher post is made of round cold rolled steel and attached to hood casting. All outside gears are inclosed in a cylindrical guard, protecting operator from injury

Machine is equipped with a swinging wringer with hardwood frame, instant wringer release and 1¾ x 10 inch white rubber rolls; wringer operates in either direction, a reverse feature in case clothes get knotted to be removed, clothes can be removed from rolls without danger.

Tub is of Louisiana cypress, with legs thoroughly braced and fitted with casters. All gearing is machine cut and of cast malleable iron and steel Tub has three heavy, flat steel hoops. Dimensions of tub, height 12½ inches, bottom 23¼ inches diameter, top 20¾ inches diameter; finished in natural wood and varnished; all exposed iron parts are finished pearl gray. Equipped with high grade motor, cord and attachment plug. Regularly equipped with 110 volt, 60 cycle, single phase alternating current motor, or 110 volt direct current motor.

No. 51M. Electric vacuum washing machine. Weight 275 pounds ..... each, **$124.00**

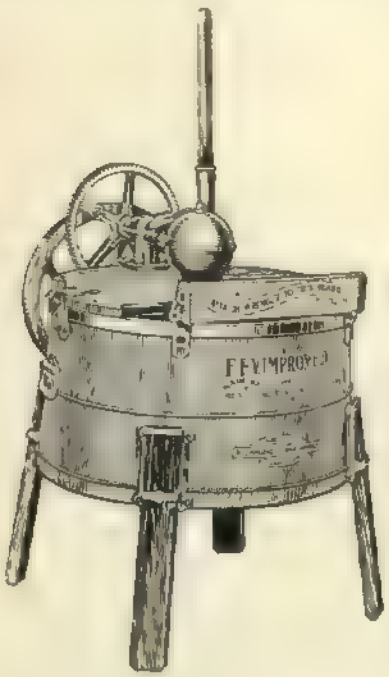
WASHING MACHINES

IMPROVED ROYAL

Water Power

Operates on 18 pounds pressure, by connection to ordinary water hydrants. The tub is of southern Louisiana cypress, with heavily reinforced lid, large wringer box and legs strengthened by cypress cross supports and steel rods. Has non-tearing agitator and shaft. The agitator is held rigidly to end of shaft and sliding movement to allow agitator to rest on top of clothes, is within the shaft. The motor is made entirely of brass and has a single valve and simple double follower head with full ability to stand wear and tear of 175 pounds pressure. Stave legs are strongly reinforced. Sides and bottom of tub corrugated. Highest grade rubber intake and outlet hose with connections. Tub is equipped with steel hinges. Lid support, handles and bolt with thumb nut lock

Improved Royal Water Motor Washer, Family Size.
Weight crated 75 pounds..... .each, **$32.25**



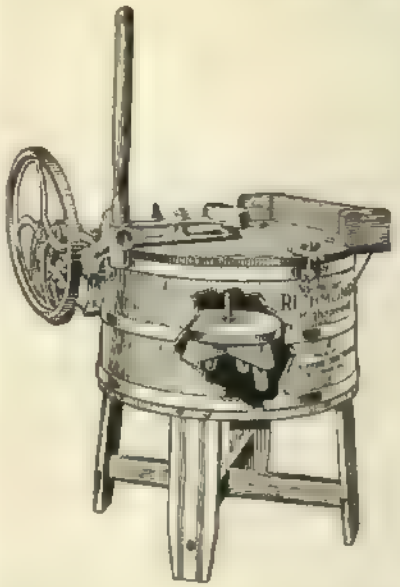
F. F. V. IMPROVED, HIGH SPEED

Virginia white cedar tub, corrugated inside, electric welded, galvanized steel wire hoops, sunk into grooves. Main frame is made of two solid halves, with self lubricating gear case. Gears are machine cut making them accurate, smooth running and noiseless. Fitted with fly wheel which runs on seven polished rollers. Lever handle is direct geared to mechanism and has forged steel pitman rod which drives machine with great power and speed. Tub equipped with substantial hinges, handles and cover fastener.

F. F. V. Improved, Family Size, Rotary Type. Weight crated 110 pounds.....each, **$22.50**

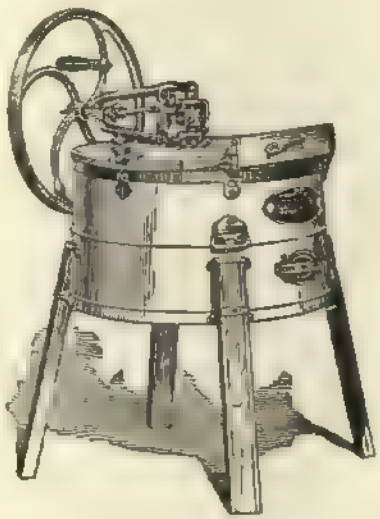
WASHING MACHINES

HIGH SPEED



Virginia cedar—clear white—tub, with hardwood legs, well bolted to the machine and securely braced. Tubs are corrugated on the inside and have tight fitting lids. The gears are all cut and covered, there are ten roller bearings, the dolly is of the X style, there is no dead center in its operation. The High Speed is finished with a coat of mahogany stain and completed with a coat of high quality coach varnish

High Speed, Family Size, Rotary Type. Weight crated, 115 pounds . . . . ..each, **$22.50**



MAJESTIC

Tub made of Virginia white cedar, with electric welded, galvanized steel wire hoops imbedded in grooves in staves. Corrugations on the inside of tub are smooth, the top fitting in tightly just above where corrugations end. Dolly is fitted with round, smooth pins. The mechanism consists of a large hub fitted with roller bearings, galvanized malleable dolly post, steel turned axle and large fly wheel which eliminates all lost motion. The legs set into substantial sockets. Wringer attachment securely fastened to tub. Tub equipped with substantial handles, hinges and cover fastener.

Majestic, Family Size, Rotary Type. Weight crated, 80 pounds .....each, **$17.25**

SHOP EQUIPMENT

AUTO AND TRUCK HOISTS

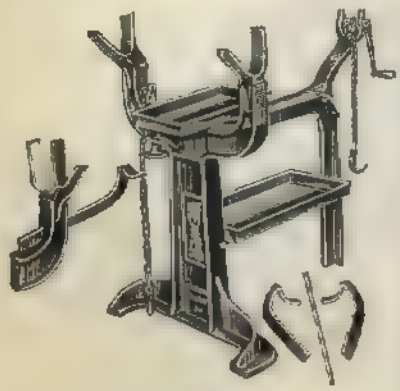
Auto Hoist has a leverage of approximately 200 to one; the heaviest cars may be raised with very little effort. Height of arch can be increased 24 inches by raising the braces on either side by means of the worm hoist, enabling raising of rear end of either limousine or touring car with top up, for removing the rear system. Carries upon four ball and roll bearing casters, 5 inches in diameter, insuring easy transportation. There is no danger of the Weaver Auto Hoist tipping over. The extremely wide base provides a safe and substantial foundation which insures the Hoist always standing erect. The Weaver Auto Hoist is used for many purposes. Height, 7½ to 9 feet; shipping weight, 555 pounds

Weaver Auto Hoist..... Each $120 00

Truck Hoist design is practically identical with auto hoist. Is of much heavier construction with recommended capacity of 6000 pounds for double suspension and 4000 pounds for single suspension. Leverage approximately 600 to one which is possible by employing worm type compound leverage gearing. Height 8 feet 4 inches to 10 feet. Weight 940 pounds.

Weaver Truck Hoist.. Each $200 00

UNIVERSAL AXLE STAND



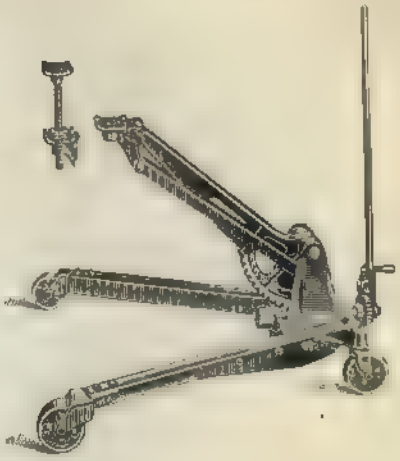
This Stand will handle any of the many different types of rear axles now in service and at the same time is simple in design. Will facilitate convenient and rapid work and is portable.

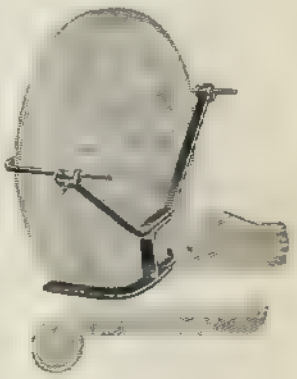
It is an advantage of no minor consideration to be able to pick up an axle, regardless of size or shape, and simply place it upon this stand the same as you would upon a bench, but have it held perfectly rigid and secure and in the most convenient working position.

The cast brackets are extremely strongly designed and made to withstand severe abuse. The design throughout carries extreme strength and simplicity, which is considered most essential in equipment of this kind. Shipping weight complete, 150 pounds

Weaver Universal Axle Stand.....Each $34.00

HI-LIFT JACK





Has been designed with an extreme range of lift to elevate either the front or rear of truck or passenger car to a height that permits mechanic to work comfortably and efficiently under car. Constructed on cantilever principal range of lift 7 inches to 45 inches.

Illustration at left shows truck wheel attachment in use with the Hi-Lift Jack. With this attachment truck wheels of any size or description may be handled with ease. Capacity 3000 pounds, Weight 225 pounds.

Weaver Hi-Lift Jack.. ...Each $60 00

Truck Wheel Attachment ....Each 10.00

SAFETY SERVICE CAN

A container in which gasoline, kerosene, lubricating oils, etc., may be carried in safety. Long flexible hose permits filling of fuel tanks and crank cases inconveniently located with ease. No muss, no waste. Service cars should be equipped with one or more of these cans

Weaver Safety Service Can ... . Each $5 00

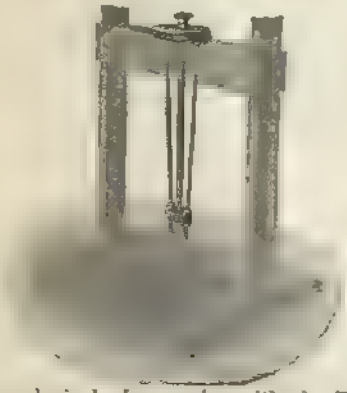
SHOP EQUIPMENT

FORCING PRESSES

For straightening shafts or axles; pressing bearings or hubs in or out of wheels; forcing gearings or bushings on or off, or many other such operations. Two sections of 5-inch channel iron blocking 8 inches long; two extension arms to attach to either end of bolster and vise block equipment furnished. Frame width, 32 inches; weight 435 pounds.

Weaver Forcing Press .....Each $80 00
Weaver Forcing Press (42 inches wide).....Each 95 00

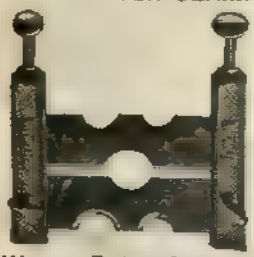
REAR AXLE ATTACHMENT



Designed exclusively for service with the Weaver Forcing Press. Indispensable in the shop doing any amount Ford Repair Work. The side rods are ⅝-inch high carbon stock 36 inches in length. Shipping weight, complete with face plate, 35 pounds; less face plate, 17 lbs.

Weaver Rear Axle Attachment .....Each $9 00
Weaver Rear Axle Attachment Less Face Plate
Each 4 50

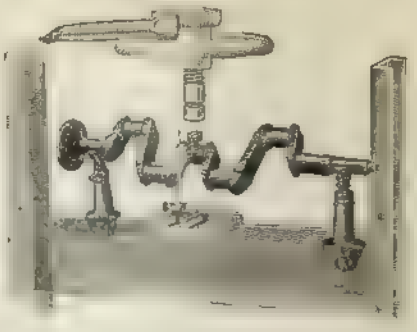
PULLER CLAMPS FOR ARBOR PRESSES



Used to securely clamp and support ball races, gears and other small parts of generators, motors, etc., which cannot otherwise be handled to advantage and with perfect safety. Jaws are made of high quality spring steel, supported within heavy brackets. Adjusted by means of powerful thumb screws.

Weaver Puller Clamp, 9 in. size, wgt. 10 lbs..Each $5 50
Weaver Puller Clamp, 16 in. size, wgt 24 lbs..Each 9.50

TRUING FIXTURES

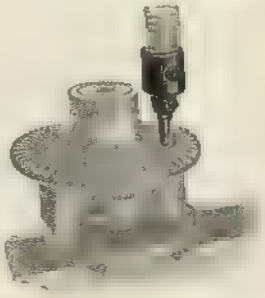


Fixtures hold shaft rigidly in position for straightening.

Can be set at any desired points on bolster of press thereby accommodating shafts of practically any length; fixtures held in place by set screws. Fixtures are adjustable in height making it possible to accommodate shafts of various diameters at points of contact. V Blocks are held rigid by set screws. V Blocks are made of steel, machined on inner surface. Fixtures are built amply strong to meet requirements of work for which they are intended.

Weaver Truing Fixtures Set $10 00

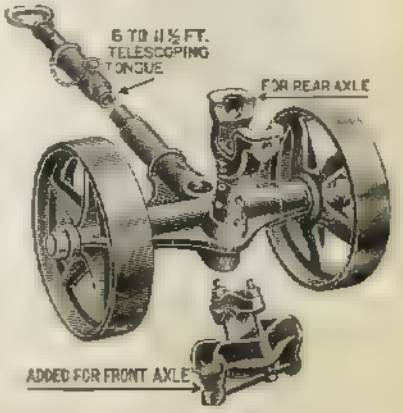
RIVETING TOOL



Will fit any Weaver press screw. Is especially useful in riveting ring gears. Enormous pressure that can be readily exerted insures tight fit and eliminates time and trouble of heating rivets. Heading tool will fit ⅜ and ⅝ inch rivets, is made of high grade tool steel. Heading tools of special size furnished at nominal cost.

Weaver Riveting Tool
Weight 3 pounds. Each $4 50

AUTO AMBULANCES



For transporting disabled automobiles to repair shop; can be quickly and securely attached to either front or rear axle of any car; main frame housing designed with provision for placing standard either in front of ambulance axle or back of it; height of standard may be adjusted; cast steel wheels 14 inches in diameter with 3 inch tires; full length steel axle 1¼ inches in diameter; telescoping tongue is of double strength steel tubing; adjusts every 6 inches to 11½ feet.

Weaver Auto Ambulances; weight 140 pounds. Each $35.00

Weaver Auto Ambulance Rubber Tired, weight, 215 pounds.....Each 65 00

WESTERN GASOLINE EQUIPMENT

BIG GUSHER ROADWAY OUTFIT

Pump—Long Distance Type, adjusted to measure 1, 2, 3, 4 or 5 gallons at a stroke. 9 in Seamless Brass Cylinder; ⅝ in. Brass Piston Rod; Heavy Brass Valves and Stuffing Box; Cut Steel Gears, Bronzed Bushed and protected by Gear Guard; Case Hardened Bearings and Spindles; Normal Capacity 25 Gallons per Minutes.

Quantity Stops—For 1, 2, 3, 4 and 5 gallons are located in front on Pump Standard to change measurements it is but necessary to push in the Nickeled Disc stamped with the quantity desired.

Gallon Meter—Keeps an accurate check of all gasoline drawn up to 99999 gallons at which point it reverts to 00000. Large legible figures stamped in the metal; Built with precision of a watch.

Indicator—Aluminum Etched Dial is attached to Front of Rack Bar, calibrated for every Pint from One Pint to Five Gallons, showing at a glance amount pumped in Pints if stopped between Gallon Buttons.

Finish—Pumps and Cabinets are highly finished in Vermilion Enamel with Gold Lettering and Nickel Trimmings.

Tanks—Galvanized Steel, riveted and soldered, equipped with Double Brass Foot Valves, Double Fill Pipes with Strainer, Lock Cap, Lock and Keys, Measuring Stick to determine number of gallons in Tank and Pipe Unions.

Dimension of Pump—Height 69 in., Height to Top of Discharge Pipe, 99 in.; Height to Top of Electric Lamp, 107 in.; 2 in. Suction Pipe and 1¼ in. Discharge Pipe

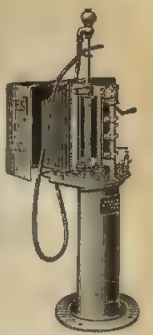
No. F4001-50A—WITH 12 GAUGE TANK

Capacity, Barrels...	2	3	4	5	7	10
Capacity, Gallons...	120	170	220	280	390	550
Weight, Lbs.....	1020	1090	1160	1230	1370	1580
Each	$615.00	640.00	670 00	695.00	750.00	830.00

No. F4001-50B—WITH 14 GAUGE TANK

Capacity, Barrels...	2	3	4	5	7	10
Capacity, Gallons...	120	170	220	280	390	550
Weight, Lbs.....	980	1040	1100	1160	1280	1460
Each	$600.00	615.00	635 00	657 00	700.00	765 00

WESTERN ROADWAY OUTFIT



Pump—Long Distance Type, adjusted to measure Gallons, Half Gallons, Quarts or Pints at a stroke; Is built entirely of Metal with Cylinders, Valves, Plunger Rod and Stuffing Box of Brass; Cut Steel Gears, Balance of Pump is Heavy Cast and Wrought Iron; Requires but two and one-half turns of the Handle to discharge a gallon, giving pumping capacity of 12 gallons per minute.

Gallon Meter—Keeps an accurate check on all gasoline drawn up to 9999 gallons, at which point it reverts to 0000, making it a Continuous Meter. Every tenth of a gallon is shown in red figures, so value of oil may be computed in 10ths if sold in small quantities.

Discharge Register—This device automatically tallies every gallon pumped from 0 to 10 gallons and is reversible from any point.

Finish—Pumps and Cabinets are highly finished in Vermilion Enamel with Gold Lettering and Nickel Trimmings.

Tanks—Galvanized Steel, riveted and soldered, equipped with Double Brass Foot Valves, Double Fill Pipes with Strainer, Lock Cap, Lock and Keys, Measuring Stick to determine number of gallons in Tank and Pipe Unions.

Dimensions of Pump—Height 82 in.; Height to Top of Discharge Pipe, 82 in.; Height to Top of Electric Lamp, 100 in.; 1¼ in. Suction Pipe and 1 in. Discharge Pipe.

No. F4001-49A—WITH 12 GAUGE TANK

Capacity, Barrels...	2	3	4	5	7	10
Capacity, Gallons...	120	170	220	280	390	550
Weight, Lbs.....	650	720	790	860	1000	1210
Each	$405.00	432.00	459 00	486.00	540 00	621 00

No. F4001-49B—WITH 14 GAUGE TANK

Capacity, Barrels...	2	3	4	5	7	10
Capacity, Gallons...	120	170	220	280	390	550
Weight, Lbs.....	610	670	730	790	910	1100
Each	$385.20	406.80	428.40	450.00	493.20	558.00

ELECTRIC LAMP ATTACHMENTS

	Each
Extra for Electric Lamp; Is only furnished when so ordered, and at an additional cost.....	$45.00

MOGUL OUTFIT

Pump—Is of our Long Distance type, adjusted to measure 1, 2, 3, 4 or 5 gallons at a stroke; 9-inch Seamless Brass Cylinder; ⅝-inch Brass Piston Rod; Heavy Brass Valves and Stuffing Box; Cut Steel Gears, Bronzed Bushed and protected by Gear Guard; Case hardened Bearings and Spindles; Normal capacity 25 gallons per minute.

Automatic Gear Shift—For quick return of Rack Bar, which can be reversed in a ratio of one reverse motion of the handle to five forward turns.

Indicator—An Aluminum etched Dial is attached to front of Rack Bar and is calibrated for every pint from one pint to five gallons, showing at a glance the amount in pints if stopped between gallon buttons.

Discharge Register—Automatically tallies every 5 gallons pumped from 0 to 50 gallons and is reversible from any point.

Removable Pump Handle—Handle may be slipped off, making Pump fool and meddler proof.

Quantity Stops—For 1, 2, 3, 4 and 5 gallons are located in front on Pump Standard To change measurement it is but necessary to push in the nickeled disc stamped with the quantity desired.

Finish Pump and cabinet are highly finished in Vermilion Enamel with Nickel Trimmings.

Tanks—Galvanized Steel, riveted and soldered, equipped with Double Brass Foot Valves, Double Fill Pipes with Strainer, Lock Cap, Lock and Keys, Measuring Stick to determine number of gallons in Tank and Pipe Unions.

Both Pumps and Tanks are tested, inspected and labeled by the National Board of Fire Underwriters.

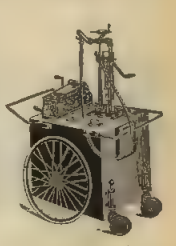
No. F4001-52A—WITH 12 GAUGE TANK

Capacity, Barrels..	2	3	4	5	7	10
Capacity, Gallons..	120	170	220	280	390	550
Weight, Lbs	610	680	750	820	960	1170
Each	$405.00	432.00	459.00	486 00	540.00	621.00

No. F4001-52B—WITH 14 GAUGE TANK

Capacity, Barrels..	2	3	4	5	7	10
Capacity, Gallons..	120	170	220	280	390	550
Weight, Lbs.....	570	630	690	750	870	1050
Each	$385.20	406.80	428.40	450.00	493.00	558.00

PORTABLE OUTFIT



This Tank is built to withstand the severest possible strain and hard usage a Tank of this description is subjected to, and after reading the following specifications, it will be admitted that we have accomplished our object.

The Tank has a capacity of 50 gallons and is built of ¾-inch Black Tank Steel, all joints being welded under the new process, making the Tank seamless. The Wheel Flanges and connections are made of Forged Steel and welded to the Tank. It is equipped with Steel Wheels having twenty-eight ¾-inch Steel Spokes fitted with Roller Bearings and 1¼-inch Cushion Tires. The Wheels are fitted with Brake, making Tank stationary when filling.

The Pump measures Gallons, Half-Gallons, Quarts or Pints at a stroke; Is equipped with Register that automatically tallies the amount pumped from 0 to 10 gallons, Safety Automatic Shut-off Cock; Locking Device, and six feet of Gasoline Hose with a Special Filling Nozzle. The Pump Cylinder rests in a Cup-shaped Extension on bottom of Tank so that all the gasoline can be pumped from the Tank before refilling.

A Glass-covered Gage on top of Tank shows at all times the exact number of gallons in the Tank, the Brass Dial being graduated for each gallon from 0 to 50. The Glass Face is protected by a Self-closing Spring Cover of polished brass.

The Filler Cap is provided with Inner Tube and Strainer, Ball-valve Air Vents and Locking Device.

The Pumps are finished in Black Enamel with Nickel Trimmings, and Tank is highly finished in Vermilion Enamel with Polished Brass Trimmings, making a very handsome appearance.

By use of the Autographic Register an accurate charge account can be maintained of all gasoline used, as all charges are made in triplicate, original slip goes into locked Slip Box on end of Tank, duplicate to customer and triplicate is wound up on inside of Locked Register, making record of the transaction.

Register is finished in full Nickel and when sent out is loaded with 500 slips in triplicate. This Register and Slip Box are not part of the regular equipment and are only attached when so ordered and at an additional cost.

Inspected, labeled and approved by the National Board of Fire Underwriters.

Prices include Pump and Tank complete with 6 feet of Steel Lined Hose, Hose Nozzle, 10 gallon Discharge Register, Magnetic Float Gage, Wheel Brake, Roller Bearing Steel Wheels with 1¼ inch Cushion Tires.

	Each
No. F4001-42—Portable Outfits.....	$405.00

EXTRA ATTACHMENTS

	Each
No. F4001-42A—Autographic Register	$45.00
No. F4001-42B—10,000 Gallon Meter	45.00

SELF-MEASURING OIL OUTFITS

Pumps are built of Metal throughout; Seamless Brass Cylinders, Heavy Brass Valves, Automatic Discharge Register and Anti-Drip Nozzles. Each Pump is adjusted to measure either Gallon, Half Gallon, Quart or Pint at a stroke; Indicator shows number of gallons in Tank; All Steel Tanks are built of 14 Gauge Galvanized Steel (nearly ⅛ in. thick), riveted and soldered throughout and finished in three coats of Dark Olive Green Enamel.

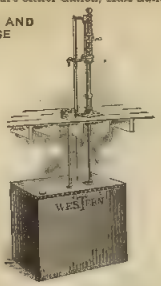
FOR KEROSENE AND GENERAL USE

No. F4002-82—FIRST FLOOR TANKS

All Steel

14 Gauge Galvanized Steel, riveted and soldered throughout; Finished in a Rich Dark Green Enamel; Pump is finished in Black Enamel with Nickel Trimmings. Pump measures Gallons, Half Gallons, Quarts or Pints at a stroke; With Discharge Register, Anti-Drip Nozzle and Quantity Indicator.

Barrels	Capacity Gallons	Depth, In	Width, In	Length, In	Weight, Lbs.	Each
1	65	30	21	27	200	$140.00
2	120	30	29	36	260	160.00
3	170	30	34	42	320	180.00
4	220	36	34	46	380	200.00
5	280	36	36	50	440	225.00



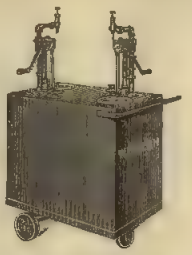
No. F4002-85—CELLAR OUTFITS

All Steel

14 Gauge Galvanized Steel, riveted and soldered throughout and finished in Dark Green Enamel; Suction Pipe is 1¼ in. Galvanized Iron and passes through a Heavy Iron Flange with Stuffing Box. The return pipe from Drip Pan is 1 in. and screws into Flange on Tank

Barrels	Capacity Gallons	Depth, In	Width, In	Length, In	Weight, Lbs.	Each
1	65	30	21	27	240	$155.00
2	120	30	29	36	300	175.00
3	170	30	34	42	360	195.00
4	220	36	34	46	420	215.00
5	280	36	36	50	480	240.00

FOR LUBRICATING OILS



DOUBLE

14 Gauge Galvanized Iron Tank, with Two Compartments for Two Grades of Oil; Tank Welded Joints; Mounted on Angle Iron Frame with Two 6 in. and One 4 in. Wheel, with Ball Bearing Swivel Joint; Tank is fitted with Metal Gauge Stick calibrated for each Gallon of Tank Capacity and with 6 in. Drip Pan; Pump is adjusted to measure Quarts, Pints and Half Pints at a Stroke; Fitted with Positive Anti-Drip Nozzle and with Locking Device.

Each

No. F4002-67—Total Capacity 60 Gallons, Capacity of Each Compartment 30 Gal...$290.00

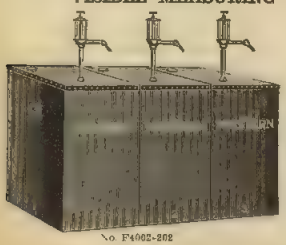
SINGLE

14 Gauge Galvanized Iron; Welded Joints; Mounted on Angle Iron Frame with Two 6 in. Wheels and One 4 in. having Wheel with Ball Bearing Swivel Joint; Tank is fitted with Metal Gauge Stick caliberated for each Gallon of Tank Capacity and with 5 in. Drip Pan; Pump is adjusted to measure Quarts, Pints and Half Pints at a Stroke; Fitted with Anti-Drip Nozzle and with Locking Device.

Each

No. F4002-65—60 Gallon..$160.00

VISIBLE MEASURING PUMPS



No. F4002-202

No. F4002-201

The Visible Measuring Pump is without question the most attractive Pump for converting an ordinary Steel Barrel into a Self-Measuring Outfit. Will fit any regular shipping drum. The Measuring Cylinder is made of heavy clear glass, seated on treated cork gaskets, top and bottom being connected by four stay rods, making it a simple matter to take pump apart.

When Pump is operated the oil is discharged into the Glass Cylinder and all oil in excess of a quart flows back into barrel through overflow pipe, leaving an accurate quart in the Cylinder ready for discharge. Lever on Discharge Nozzle is equipped with Spring Catch and spring must be released before lever can be raised. It requires but 30 seconds to fill and discharge the Cylinder.

Pumps can be furnished complete with three 15-gallon tanks. They are built of heavy steel, welded throughout making them leak-proof and practically indestructible. Tanks are 12½ inches long by 12½ inches wide, by 24 inches high and each unit is fitted with 4 inch Screw Cap for filling and with Handle on each side. Handsomely finished in two coats of Olive Green Enamel. Tanks can be furnished with each unit mounted on a truck fitted with three Ball Bearing Swivel Casters.

Each

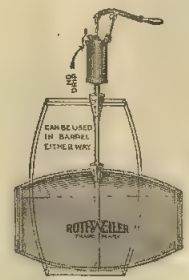
No. F4002-201—Pump Only..... $50.00

Per Unit

No. F4002-202—Complete with Tanks, without Truck.....$75.00

No. F4002-203—Complete with Tanks, with Truck..... 90.00

BARREL PUMPS



ROTHWEILER

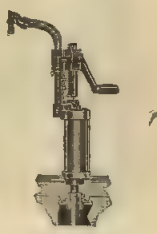
For Oils, Gasoline, Turpentine, Light Paint, etc.; Can be used through Head or Side of Barrel as shown

The adjustment and fastening consists of a long tapered Wooden Plug which will fit any size hole from 1½ to 3 in. When the Plug is driven in the Barrel it wedges the Barrel fastening and at same time clamps the adjustment. One operation performs both functions. All parts are interchangeable. Pump works smoothly and easily and will draw fully one quart at each stroke. It also drains Barrel thoroughly

Each

No. P4002A9—Fitted with Non-Drip Spout which is turned up when not in use; Pump is finished with two coats of Black Paint.....$25.00

One in Box; Weight 20 Lbs. Each



MILWAUKEE

Self Measuring

Converts ordinary Steel Barrel into a Self-Measuring Outfit for Oils or Kerosene, Not used for Gasoline Pump is made especially for Non-Volotile Liquids.

Three Measuring Adjustable Stops, May be sealed by one seal; Turn of a Small Lever enables one to measure accurately a Quart, Pint or Half Pint of Oil; Spring Lock prevents tampering, or drawing of Oil by unauthorized persons.

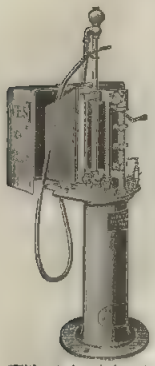
Each

No. P4002A—Steel Cylinder; Leather Plunger; Adjustable Stops; Non-Drip Faucet Lock with Two Nickel Plated Keys $40.00

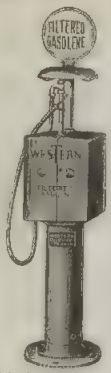
One in Case; Weight 25 Lbs. Each

GASOLINE OUTFITS

WESTERN ROADWAY FILLING OUTFIT



(Without electric lamp)



(With electric lamp)

Tanks and pumps are tested, labeled and approved by the National Board of Fire Under-writers.

Equipment is guaranteed by the manufacturers against any defect in material or workmanship for a period of three years.

Cabinet—Built of 1/16 inch iron, with overlapping weather proof doors, with Corbin six-tumbler lock; door at bottom of pedestal giving access to drain cock of filter chamber and pipe union.

Pump—Long distance type, measuring gallons, half gallons, quarts or pints at one stroke; is made entirely of metal, with cylinder, valves, plunger rod and stuffing box of brass; cut steel gears; remainder of pump of heavy cast and wrought iron.

Gallon Meter—Keeps accurate check on all gasoline drawn up to 9999 gallons at which point it reverts 0000. Every tenth of a gallon drawn is shown in red figures during operation of pump.

Gravity Filter—Is attached below pump cylinder. Strains gasoline from water and other impurities, which gravitate to settling chamber and are drawn off through drain cock at bottom.

Discharge Register—Automatically tallies every gallon pumped from 0 to 10 gallons and is reversible from any point.

Independent Discharge Nozzle—Pump is fitted with discharge openings on either side, one for attaching hose, the other for filling cans. The can filling cock is attached to swivel coupling and when not in use is swung back out of the way.

Hose and Filling Nozzle—The 1 inch discharge pipe extends 20 inches above pump and terminates in a automatic air vent valve that allows the oil in the hose to drain, to this vent fitting is attached 8 feet of 1 inch steel lined hose with brass filling nozzle.

Automatic Door Stop—Holds door rigid while operating pump.

Removable Pump Handle—Can be slipped off, making pump fool and meddler proof.

Quantity Stops—Located in front on pump standard, to change measurements, it is but necessary to push in the disc stamped with the quantity desired, give one stroke of the handle and the exact amount is obtained.

Finish—Pump and cabinet are highly finished in vermilion enamel with gold lettering and nickel trimmings.

Tanks—Galvanized steel, riveted and soldered, equipped with double brass foot valves, double fill pipes with strainer, lock cap, lock and keys, measuring stick to determine number of gallons in tank and pipe unions.

(See next Column.)

GASOLINE OUTFITS

WESTERN ROADWAY FILLING OUTFIT

(Continued from preceding column)

Dimensions of Pump—Height to top of cabinet 52 inches; height to top of discharge pipe 82 inches; height to top of light receptacle 100 inches; width open 24 inches; width closed 15½ inches; depth 11 inches; diameter of pedestal 8 inches; diameter of base 14 inches.

Outfit consists of pump and tank, complete with fittings but without pipe.

OUTFITS WITHOUT ELECTRIC LAMP

With 12 Gauge Tank.

Nos.	Capacity Barrels	Capacity Gallons	Weight Lbs.	Each
A-4912-2	2	120	660	✣$607 50
A-4912-3	3	170	720	✣ 648 00
A-4912-4	4	220	780	✣ 688 50
A-4912-5	5	280	840	✣ 729 00
A-4912-7	7	390	950	✣ 810 00
A-4912-10	10	550	1100	✣ 931 50

With 14 Gauge Tank.

Nos.	Capacity Barrels	Capacity Gallons	Weight Lbs.	Each
A-4914-2	2	120	600	✣$577 80
A-4914-3	3	170	650	✣ 610 20
A-4914-4	4	220	700	✣ 642 60
A-4914-5	5	280	750	✣ 675 00
A-4914-7	7	390	800	✣ 739 80
A-4914-10	10	550	900	✣ 837 00

OUTFITS COMPLETE WITH ELECTRIC LAMP

With 12 Gauge Tank.

Nos.	Capacity Barrels	Capacity Gallons	Weight Lbs.	Each
A-4912EL-2	2	120	660	✣$675 00
A-4912EL-3	3	170	720	✣ 715 50
A-4912EL-4	4	220	780	✣ 756 00
A-4912EL-5	5	280	840	✣ 796 50
A-4912EL-7	7	390	950	✣ 877 50
A-4912EL-10	10	550	1100	✣ 999 00

With 14 Gauge Tank.

Nos.	Capacity Barrels	Capacity Gallons	Weight Lbs.	Each
A-4914EL-2	2	120	600	✣$645 30
A-4914EL-3	3	170	650	✣ 687 70
A-4914EL-4	4	220	700	✣ 710 10
A-4914EL-5	5	280	750	✣ 742 50
A-4914EL-7	7	390	800	✣ 807 30
A-4914EL-10	10	550	900	✣ 904 50

Tanks and pumps packed separately in crates.

✣F. O. B. Missouri Factory Only.

STEAM HEATING FOR RAILWAY VEHICLES, STEAMSHIPS, BUILDINGS, Etc.

Westinghouse Patents.

Before the introduction of the Westinghouse System of Heating the usual practice was to utilise steam at a considerable pressure in the heaters. This practice was subject to many disadvantages, which were realised as the heating of railway carriages extended; and the Westinghouse System of heating by steam at atmospheric pressure was introduced to get rid of these.

Immediately it was introduced, the Westinghouse System showed the great advantages to be gained by its use; and the satisfaction which it has since afforded to the Railway Companies using it is shown by the remarkable annual increase in the number of railway carriages equipped with it, as well as by the number of additional Companies adopting it each year.

Avant l'apparition du système de chauffage Westinghouse on employait généralement pour le chauffage de la vapeur à une pression considérable. Ce système présentait de nombreux désavantages dont on s'est rendu compte lorsque le chauffage des voitures de chemins de fer commença à prendre de l'extension. C'est alors que le système de chauffage Westinghouse par vapeur sous pression atmosphérique fut introduit et remédia à tous les systèmes employés précédemment.

Dès son apparition, le système Westinghouse a prouvé les avantages qu'on pouvait réaliser par son emploi; et la satisfaction des Compagnies de chemins de fer qui l'ont employé est prouvée par la remarquable augmentation annuelle du nombre de voitures de chemins de fer munies de ce mode de chauffage, aussi bien que par le nombre de compagnies de chemins de fer qui l'adoptent tous les ans.

Ambulance Train of 16 coaches equipped throughout with Westinghouse Heating.
Train sanitaire de 16 voitures entièrement pourvu du système de chauffage Westinghouse

The Westinghouse System is notable for its simplicity, in consequence of which there are few pipe connections required; and the cost of installing the apparatus is extremely low, while the minimum of expense is required for maintenance.

Carriages fitted with this system can be run in trains, of which the remaining vehicles are equipped with any other system of heating using a main pipe to convey steam under pressure throughout the train; the standard couplings being used.

Many thousands of Westinghouse Heaters are now in use on all types of passenger vehicles on railways in Europe, Asia, Africa, and America in several cases in countries where the climate is one of the coldest in the world—and they have given entire satisfaction to the users. Trains fitted with this system have been exposed to a temperature of 36° F. below zero.

Le système Westinghouse est remarquable par sa simplicité, par le petit nombre de raccords de tuyaux nécessaires; la dépense d'installation de l'appareil est extrêmement minime et les frais d'entretien sont très réduits.

Les voitures munies de ce système peuvent faire partie de trains comportant d'autres voitures pourvues d'un autre système de chauffage et employant une conduite principale pour amener la vapeur sous pression dans toute la longueur du train, en faisant usage des accouplements normaux.

Des milliers d'appareils de chauffage Westinghouse sont actuellement en usage dans tous types de voitures pour voyageurs sur les lignes de chemins de fer d'Europe, d'Asie, d'Afrique et d'Amérique—en plusieurs cas dans des pays où le climat est un des plus froids du monde entier—et partout ces appareils ont donné satisfaction complète. Certains trains munis de ce système ont été exposés à une température de —36° C.

Manufactured by
Fabriqué par

THE WESTINGHOUSE BRAKE CO., LTD.

At their Works:
A ses Usines

82, YORK ROAD, KING'S CROSS, LONDON, N. 1, ENGLAND.

JOHN R. HYDE Managing Director.
JOHN C. SIMON Secretary.

Codes used A.B.C. (5th Edition) WESTERN UNION.

ROBERT HYDE & SON, LTD.,

ON ADMIRALTY AND WAR OFFICE LIST

Sur la Liste de l'Amirauté et du Ministère de la Guerre Britannique

En la lista de Proveedores de los Ministerios de la Marina y de la Guerra Británicos.

TRADE MARK

ABBEY

Marca de fabrica
Marque de fabrique.

Iron & Steel Founders.

Fonderie de fer et d'acier

Fundidores de Hierro y Acero

HYDE, SHEFFIELD.

High Quality Castings.

Pièces fondues de qualité supérieure

Piezas fundidas de alta calidad.

SPECIALISTS IN

AXLE BOXES and BEARINGS.

Railway Rolling Stock Parts and Fittings.

AXLE BOXES in **IRON** or **STEEL**, to any Specification, AND TESTED BEFORE DESPATCH.

BEARINGS, White-metal LINED, or Bronze to Specification.

STEEL CASTINGS, noted for inherent soundness, made from Steel ELECTRICALLY MELTED.

QUICKEST DELIVERIES.

Spécialités en boîtes et paliers d'essieux, pièces détachées et accessoires pour matériel roulant de chemins de fer.

Boîtes d'essieux en fer et acier de tous modèles, et coussinets garnis de métal blanc antifriction ou de bronze, d'après les spécifications.
Pièces en acier fondu renommées pour leur solidité. Usines en acier entièrement électrifiées.

Livraisons des plus rapides.

Especialistas en cajas de grasa y cojinetes piezas de guarnición y accesorios para material rodante de ferrocarriles.

Cajas de grasa en hierro ó acero laminado con tapas probadas antes de despachar.
Cojinetes forrados de metal blanco ó de bronce, según especificación.
Piezas de acero, conocidas por sus buenas cualidades fundidas de acero electricamente fundido.

Entregas rápidas.

Registered Offices: Woodseats, SHEFFIELD.

Telegraphic Address / Adresse Télégraphique / Telegramas: "WAGGWORK, SHEFFIELD"
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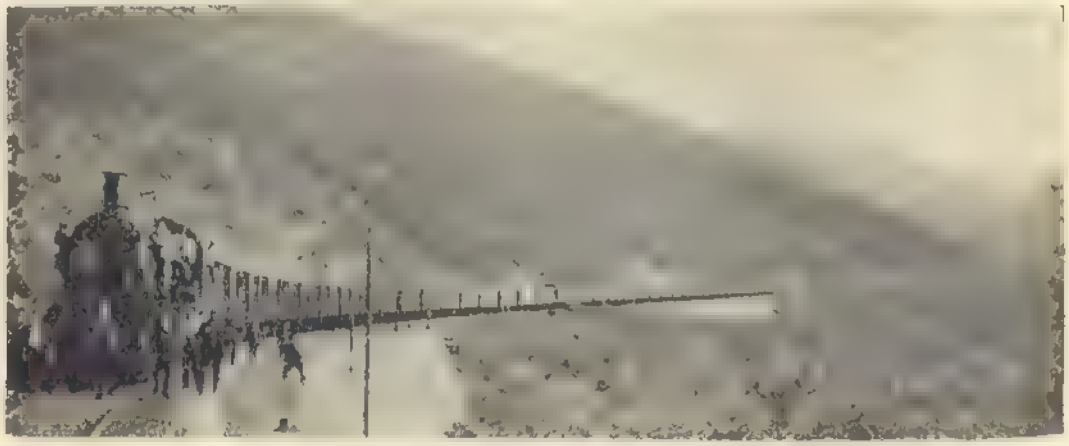
London Office: 5 VICTORIA ST., WESTMINSTER, S.W.
Telegraph: "Axletree, Vic., London." Telephone: 3126 Victoria.

Cardiff Office: 95 96, MERCHANTS' EXCHANGE.
Telegraph: "Climax, Cardiff." Telephone: 308 Cardiff.

Chesterfield Office: CLAYTON STREET.
Telegraph: "Wagowork, Chesterfield." Telephone 313 Chesterfield.

The Westinghouse Automatic Brake.



**Goods train of engine and 75 cars on the Hungarian State Railways fitted with the Westinghouse Automatic Brake with Non-Auto control.
Gradient of 1 : 40 over a distance of 24 miles.**

*Train de Marchandises du chemin de fer de l'Etat hongrois composé de la locomotive et de 75 wagons, munis du frein automatique Westinghouse, avec Contrôle Non-Auto.
Déclivité de 25 o/o sur 38 kilomètres*

For nearly half a century The Westinghouse Brake Co., Ltd., and its Associated Companies, have closely followed the developments in transportation, looking towards the safe and efficient handling of railway traffic under all conditions of service, and every problem presented to them has received careful study by their experts, based on the experience gained by them on railways throughout the entire World.

For every class of railway service:

High Speed;
Ordinary Passenger Trains;
Suburban Traffic involving frequent stops;
Long and Heavy Goods Trains;
Descent of Gradients, etc.,

appropriate brake apparatus is available, and the practical knowledge of the Companies' experts is always at the disposal of Railway Officials and other interested parties.

Pendant près d'un demi siècle la Société Westinghouse Brake Co. Ltd., et ses sociétés associées ont suivi de près le développement des moyens de transport, et ont concentré leur attention sur les questions de sécurité et de fonctionnement efficace des transports par chemins de fer sous toutes les conditions de service; et tous les problèmes qui leur ont été posés ont fait l'objet d'études des plus soigneuses, basées sur l'expérience acquise par leurs experts en matière de chemin de fer dans le monde entier.

Pour tous genres de transports par chemins de fer:

Rapide
Trains de voyageurs ordinaires;
Trains de banlieue sujets à de fréquents arrêts
Trains de marchandises longs et lourds
Descentes de plans inclinés, etc.,

il a été imaginé un frein approprié, et les connaissances pratiques des experts de la Compagnie sont toujours à la disposition des administrateurs d'entreprises de chemins de fer ou de toutes personnes intéressées

Enquiries are invited, and will be given prompt attention by:
Nous recevrons avec plaisir les demandes de renseignements auxquelles nous répondrons avec promptitude:

The Westinghouse Brake Company, Ltd.

Works and Offices: 82, York Road, King's Cross, London, N. I.

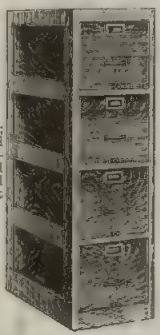
LETTER FILES

Roller-Bearing Drawers.

Solid quartered oak fronts; veneered ends, top and back panels; light oak derby finish. All hardware brass finish. Filing capacity, width 15⁵⁄₁₆ inches; depth 22¾ inches. Automatic drawer stops insuring full filing capacity.

Nos.	2DF	3DF	4DF
Drawers	2	3	4
Height, ins.	10½	10⅝	10⅝
Length, ins.	12	10¼	22
Wt. each, lbs.	78	83	124
Each	$38 70	47 25	55 50

One in a crate



Quartered sawed oak veneered; light oak (derby) finish; all hardwood drawers, dove tailed front with bottoms framed in. Drawers finished inside and equipped with brass label holder and pull and fibre rollers that operate on steel track.

Each

No. 14LF—Four drawers; height 54 inches; depth 27½ inches; width 14¾ inches ..... ✣$105 00

Crated; shipping weight each 127 lbs

OFFICE COSTUMERS

Wood.

Two inch square column with four brass plated hooks and heavy base; height 5⅔ feet.

(Shown also on page 3112)

Each

No. 31D—Light oak, (derby) dull rubbed finish $15 75

Wrapped singly, K. D.; weight each 10 lbs.

✣F. O. B. Georgia Factory Only.

INVALID CHAIRS

FIXED, ROLLING

With fixed rear swivel wheel and folding foot-board. Furnished regularly with hand rims on large wheels that will allow patient to propel chair forward and backward or turn in either direction at will. The graceful outlines of this chair will readily appeal to all as a most comfortable and easy riding chair. One of our most popular patterns.

	Inches
Height of back from seat	20⅜
Height of seat from floor	21
Height of seat from foot-board	17⅜
Height of arms from seat	9¾
Depth of seat	18
Width of seat between arms	18¾
Diameter of front wheels	28
Diameter of rear wheel	10
Width over all	29

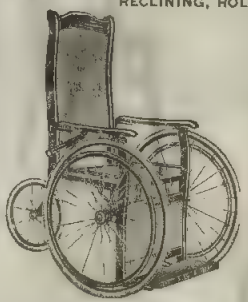
Bicycle ball-bearings on Nos. 647 or 648, extra steel elliptic springs, extra. If wanted without hand rims, less.

Each

No. 646—With oval steel rim wheels ..... ✣$87 75
No. 647—With ¾ inch rubber tires ..... ✣ 99 00
No. 648—With 1 inch rubber tires ..... ✣106 50

One in a crate; weight each 100 lbs.

RECLINING, ROLLING



With rear swivel wheel of large diameter, 14 inch. We particularly recommend this chair as being one of the easiest to handle and to manipulate This idea is entirely original, and has been a source of much pleasure to many who praise it highly for these qualities. Furnished regularly with hand rims on large wheels that will allow patients to propel chair forward and backward or turn in either direction at will.

	Wide Inches	Narrow Inches
Height of back from seat	31	31
Height of seat from floor	20	20
Height of seat from foot-board	17	17
Height of arms from seat	9½	9½
Depth of seat	20	20
Width of seat between arms	19	17
Diameter of large wheels	28	28
Diameter of small wheel	14	14
Width over all	29	27

Unless otherwise specified, wide chair will be shipped. Nos. 606 and 607 can be furnished with bicycle ball-bearings at additional charge.

Each

No. 606—With ¾ inch rubber tires $94 50
No. 605—With oval steel rim wheels ..... ✣ 82 50
No. 607—With 1 inch rubber tires ..... ✣101 25

One in a crate; weight each 100 lbs.

✣F. O. B. Ohio Factory Only.

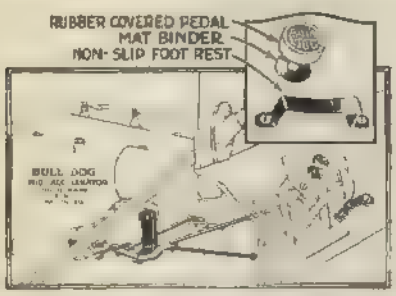
ACCELERATORS AND CARBURETORS

WILLIAMS FOOT ACCELERATOR

Has only three connections—hand throttle toeboard and carburetor lever. Each accelerator is adjusted at the factory. It can be removed and replaced in a few seconds without altering the original adjustment. The pedal projects through a small slit in the floor mat. Direct action on the carburetor is obtained without the use of ball-and-socket joints levers and other complicated devices. See illustration. The spring action which closes the foot throttle does not operate against the hand throttle. Best grade materials used throughout; no parts to work loose. Installation diagram and instructions printed on each box.

Williams Foot Accelerator . . . . . Each $3 00

"BULL-DOG" FOOT ACCELERATOR



Not a cheap takeoff, but a real article built for service and satisfaction. Don't make the mistake of buying the cheapest when you can obtain "BULL DOG" SATISFACTION for a few cents more; Simple in construction, easily installed, does not interfere with hand throttle or with removal of floor boards, all parts are steel, heavily japanned in black, and packed in neat carton.

Bulldog Foot Accelerator Each $1 50

PET COCK WRENCH

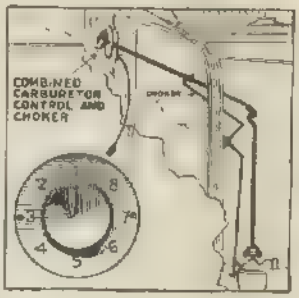
For Fords

A handy device for conveniently opening the pet cocks on Ford crank case for draining or determining oil level.

Pet Cock Wrench Each $0 50

CARBURETOR CONTROL AND CHOKER

For Fords



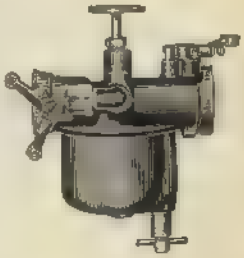
A device that answers two purposes, adjusting or choking the carburetor to facilitate easy starting. Replaces the old choker equipped on Ford instrument board. It only requires a few minutes to attach this device.

Carburetor Control and Choker. Each $1 50

HOLLEY CARBURETOR

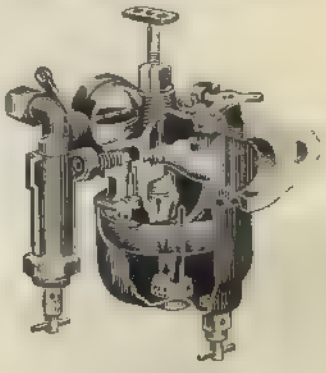
For Fords

The model N. H. Holley carburetor is very efficient; is used as equipment on Ford T cars. It is equipped with primary air passage in addition to intake shutter so designed as to insure easy starting. Inlet needle seat is removable and can be replaced in few seconds. Special alloy needle and metal float are not affected in any way by the impurities in present day gasoline.



Holley Carburetor Model N. H Each $7 50

KINGSTON CARBURETORS



For Fords

Specially designed for Ford users. Has many exceptional features, including a gasoline strainer, an integral part of the device. In these days of constantly lowering fuel values the need of strainers is apparent, and the addition will be appreciated by all Ford users.

Model L4S Ford Special Kingston Carburetors; complete with New Idea fuel separator and warm air collection, weight 5 ½ pounds. . . . . Each $7 50

Model L4—Ford Special Kingston Carburetors; without fuel separator, weight 3 pounds . . Each 6 00

SPEEDOMETERS AND PARTS

PARTS FOR STEWART SPEEDOMETER

F. W. S. Improved Swivel Joint

The most efficient and everlasting swivel made.

Extra large, one piece, all steel gear.

Steel end thrust bearings serve as grease cups

Every working surface steel against steel

Extra [illegible] special construction to prevent warping and insure perfect fit

Instantly interchangeable for right or left hand drive

All parts removable and interchangeable

The most efficient, most durable and in every way best Swivel joint ever made

No. 209—Right Hand for Stewart Speedometers, $2\frac{1}{2}$-1 Each $ .75

No. 209—Left Hand Swivel Joint, $2\frac{1}{2}$-1, for Stewart Speedometers. Each [illegible]

F.W.S. FLEXIBLE SHAFTS

No. 210—Shaft complete. Standard lengths 50-54-60, and 66 inches Each $4 50

No. 211—Outside housing only in the above lengths . . . . . Each 2 50

F. W S. SHAFT FITTINGS

C215 C216 C217

No. C215—Upper Clutches for Stewart Chain Drive. . . . . Each $0 15

No. C216—Links for Stewart Chain Drive, 11 links to the foot, per foot . . .

No. C217—Lower Sliding Bar Clutch for Stewart Chain Drive . . . . . Each .2

FIBRE GEARS

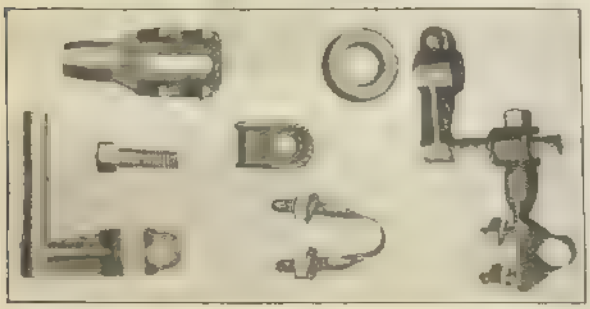
Cotter-Pin Type

No. 1 Gears Each $0 [illegible]

No. 2—Gears Each [illegible]

No. 3 Gears Each .5

SWIVEL CLAMP



No. 11—Upright . Each $0 60

No. 12—Cross Bar Each [illegible]

No. 13—Axle Clip . Each .15

No. 14—Swivel Block Each .

No. 15—Cap Screw. Each .

Clamp Complete Each [illegible]

J. M. SPEEDOMETER

For Fords, equipped with Electric starter and Instrument Board

Of new design and built to deliver long and accurate service

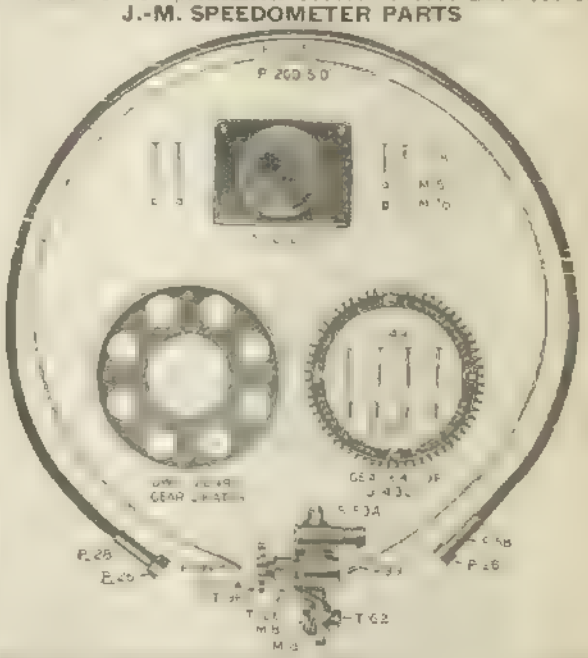
It is driven from back of cup, eliminating elbows, and permitting of installation of flexible shaft away from occupants of front seat. Beautiful in appearance, quick and accessible resetting device

Has 60-mile speed dial, 10,000-mile seasonodometer, 100-mile trip odometer. Is easily and quickly installed

It is mounted flush on black steel supporting plate, to match finish on instrument board; plate acts as reinforcement to instrument board, making it even stronger then before.

No. 3020 -J.-M. Speedometer . . . . . Each $15 00

J.-M. SPEEDOMETER PARTS



[illegible]
Finish Mounting Plate
Headlight Plate Screws
Plate to Dash Screws
[illegible]
Plate to Dash Washer
Chase Ring
[illegible]
[illegible] Casing
Cable Multiple Coil Ends P-189-99
[illegible] Swivel Section
[illegible]
[illegible]
[illegible]
Pinion Lock Nut
Pinion Lock Nut Washer
[illegible]
[illegible], Clip and 17-T Pinion Assembled
[illegible] T 0-P Large Drive Gear.
[illegible] R. H. Wood Screws
[illegible]
[illegible]

ALARM CLOCKS

EIGHT DAY MARATHON
Automatic Alarm

Eight Day Marathon Automatic Alarm rings until shut off by means of Push Button on Back of Clock; Switch releases automatically so Clock rings at same hour the following morning; Has Shut-Off Switch for use when alarm is not wanted

Movement has Steel Pinions and Heavy Brass Plates. There is spring power to run it for 14 days. Has almost silent beat; Heavy Seamless Brass Oval Case; 4 in. Gong Bell on Back; Arabic Numerals, Fancy Pierced Hands; Attractive Top Ornament

Height 8 in., Width 6 in., 4½ in. Dial

	Each
No. 3075A-B—Lemon Brass	$8.20
No. 3075A-C—Burnished Copper	8.20
No. 3075A-S—Satin Silver	8.20

One in Box, Weight 2¾ Lbs. Each; 24 in Case, Weight 94 Lbs. Case

WIRELESS CALL

One Day Continuous or Intermittent Alarm; Switch on Top of Clock sets alarm to ring continuously for five minutes or intermittently in 20 second intervals for 15 minutes

Seamless Brass Case, Solid Brass Movement with High Polished Bearings of Hard Pinion Steel; Large Dial; Plain Arabic Numerals which are easily read; Fancy Pierced Hands; Ornamental Top

Height 7⅛ in., Diam. 5¼ in., 4½ in. Dial

	Each
No. 3075B-B —Lemon Brass	$5 40
No. 3075B-C —Burnished Copper	5 40
No. 3075B-F —French Bronze	5.40
No. 3075B-N —Nickel Plated	5.20
No. 3075B-S —Satin Finish	5.40

One in Box, Weight 1⅞ Lbs. Each; 24 in Case, Weight 86 Lbs. Case

JUMBO WIRELESS

One Day Intermittent Alarm; Rings intermittently every 20 seconds for 15 minutes; A large Clock in an exclusive design.

Case made of Seamless Brass; 4 in. Full Metal Gong on Back; Fancy Pierced Hands, Roman Dial.

Height 8 in., Diam. 6¼ in., 4¼ in. Dial

	Each
No. 3075C-B —Lemon Brass	$5 70
No. 3075C-C —Burnished Copper	5 70
No. 3075C-F —French Bronze	5 70
No. 3075C-S —Satin Finish	5 70

One in Box, Weight 2¼ Lbs. Each; 24 in Case, Weight 86 Lbs. Each

THE WIRELESS

One Day; Alarms intermittently every 20 seconds for 15 minutes; Shut-off Switch on Top of Case.

Seamless Case; Ornamental Top, Fancy Pierced Hands and Roman Numerals; 4 in. Gong on Back.

Height 6¾ in., Diam. 3¼ in., 4¼ in. Dial

Nos.	Each
3075D-B—Lemon Brass	$4.70
3075D-C—Burnished Copper	4.70
3075D-F—French Bronze	4.70
3076D-S—Satin Silver	4.70

One in Box, Weight 1¾ Lbs. Each; 50 in Case, Weight 110 Lbs. Case

BABY CALL

Baby Call is a smaller model of Wireless Call; Has dependable time-keeping qualities and is a neat, trim, little Clock for Dresser, Shelf or Night Stand.

Switch on Top of Clock sets alarms to ring for five minutes or intermittently in 20 second intervals.

Height 4 in., Diam. 3 in., 2¼ in. Dial

Nos.	Each
3076E-B—Lemon Brass	$5.40
3075E-C—Burnished Copper	5.40
3075E-F—French Bronze	5.40
3075E-N—Nickel Plated	5.20
3075E-S—Satin Silver	5.40

One in Box, Weight ½ Lb. Each; 50 in Case, Weight 50 Lbs. Case.

JUNIOR WIRELESS

With 2½ in. White Porcelain Dial

A small model of the Jumbo Wireless; **One Day Intermittent;** Rings intermittently every 20 seconds for 15 minutes.

Case made of Seamless Brass, Fancy Pierced Hands and Arabic Numerals.

Height 5 in., Diam. 4 in., 2½ in. Porcelain Dial

Nos.	Each
3075F-B—Lemon Brass	$5.40
3076F-C—Burnished Copper	5.40
3075F-F—French Bronze	5.40
3075F-N—Nickel Plated	5.20
3075F-S—Satin Silver	5.40

One in Box, Weight 10 Oz. Each; 24 in Case; Weight 48 Lbs Case

BABY WIRELESS

A small model of the Wireless Clock; For Travelers use; With intermittent light sounding alarm, Shut-Off Switch on Top

Seamless Case, Ornamental Top, Fancy Pierced Hands and Roman Numerals; 2 in. Metal Gong on Back.

Height 3½ in., Diam. 2 in., 2 In. White Dial

Nos.	Each
3075H-B—Lemon Brass	$5.00
3075H-C—Burnished Copper	5.00
3076H-F—French Bronze	5.00
3075H-S—Satin Silver	5.00

One in Box, Weight ½ Lb. Each; 50 in Case, Weight 50 Lbs Case.

ALARM CLOCKS

EXCELLO

With 2 in. White Porcelain Dial; One Day Continuous Long Alarm; With Shutoff Switch on Back; Seamless Brass Case, Neat Globe design; Ornamental Stationary Top, Fancy Pierced Hands

Height 4½ in., Width 3¼ in.
2 in. White Porcelain Dial

	Each
No. 3086A-B —Lemon Brass	$5.00
No. 3086A-C —Burnished Copper	5.00
No. 3086A-FB—French Bronze	5.00
No. 3086A-N —Nickel Plated	4.80
No. 30C6A-S —Satin Silver	5.00

One in Box; Weight 8 Oz. Each
24 in Case; Weight 45 Lbs. Case

CALL BOY

One Day Continuous Alarm; Rings every 20 Seconds for 15 minutes; Alarm shut off on top of Case; Heavy Seamless Solid Brass Case; Roll Edge; Drop Handle, Convex Glass; 4 in. Metal Gong.

Height 5¼ in., Width 4⅓ in.
Diam. Dial 4½ in.

	Each
No. 3086B-B —Brushed Brass	$3.80
No. 3086B-C —Burnished Copper	3.80
No. 3086B-FB—French Bronze	3.80
No. 3086B-N —Nickel Plated	3.80
No. 3086B-S —Satin Finish	3.80

One in Box; Weight 1¾ Lbs. Each
50 in Case; Weight 110 Lbs. Case

WIZARD

One Day Alarm; Rings intermittently every twenty seconds for ten minutes; Fitted with Silent Switch on back.

The Wizard is high grade in every respect; Accurate and dependable; It embodies in its construction and adjustment all necessary features found in medium priced Clocks of standard grade.

Seamless Brass Case; 4 in. Bell Metal Gong on back; White Dial with fancy Arabic Numerals; Ornamental Hands; Height 6½ in., Width 4½ in., Dial 4¼ in.

	Each
No. 3086C—Nickel Plated Finish	$4.10

One in Box; Weight 1¾ Lbs. Each
50 in Case; Weight 110 Lbs. Case

OVAL

One Day Intermittent Alarm; Repeats at intervals of 20 Seconds for 3 Minutes; Seamless Brass Case; Heavy 4½ in. Bell on Back of Clock; Fancy Handle and Legs; Oval Dial with Fancy Arabic Numerals; Height 5¾ in., Width 5 in., Dial 4½ in

	Each
No. 3086D-OB—Old Brass	$5.80
No. 3086D-S —Brushed Silver	5.80

One in Box; Weight 2⅝ Lbs. Each
24 in Case; Weight 60 Lbs. Case

EMPRESS

Eight Day Alarm; Not Automatic; Shut-off Switch on top of Case; Drop Ring Handle; Plain White Dial with Arabic Numerals; 5 in. Gong on Base.

This Clock will run eight days with one rewinding, but is **not automatic;** Alarm Switch must be set each night. Height 7¼ in., Width 5½ in., Dial 4 in.

	Each
No. 3086F-N —Nickel Plated Finish	$6.00
No. 3086F-OB—Old Brass Finish	6.00

One in Box, Weight 1½ Lbs. Each; 24 in Case, Weight 35 Lbs. Case

AEROGRAM

One Day, Continuous Alarm, with Shut-off Switch; Made with dependable Movement and Seamless, Solid Brass, Dustproof Case.

This is a popular and reliable timepiece of excellent quality and workmanship; Has Drop Handle, Plain White Dial with Roman Figures; Brass Plated Back and 2 in. Bell that rings loud and clear; Will arouse the soundest sleeper. Height 6½ in., Width 4½ in.; Dial 4 in.

	Each
No. 3086E—Nickel Plated Finish	$2.20

One in Box; Weight 1¼ Lbs. Each
50 in Case; Weight 80 Lbs. Case

ROYAL MINIATURE CLOCKS

One Day Clock, Without Alarm; A Baby Model, Very neat in design and finish; Fitted with high grade movement; Metal case with Beaded rim; Drop Handle; Plain Dial with Arabic Numerals; **Height 3 in., Width 2¼ in.; Diam. Dial. 2 in.**

	Each
No. 3086J-RG—Rose Gold	$3.20
No. 3086J-N —Nickel Plated	3.00
No. 3086J-S —Satin Finish	3.20

One in Box; Weight ½ Lb Each

ALARM CLOCK ASSORTMENTS

There is nothing that will so stimulate the sale of Alarm Clocks as having them attractively displayed; It is not so necessary to make a big display as it is to make an impression on the mind of the customer, in a way that will create a desire for the article offered for sale; There are many different kinds of Alarms on the market, and there is a constant and increasing demand for dependable Time Pieces; the Display Stand and Rack shown below are splendid means for attracting attention and creating sales.

INTRODUCTORY

Mission Stand, 13 in. High

This Attractive Display Stand Given Free with THE INTRODUCTORY Alarm Clock Assortment

This splendidly arranged Display Stand will attract attention and create a desire for the articles displayed upon it. Placed on the counter or in the show window, it is bound to assist materially in helping Alarm Clock sales.

The Display Stand is strongly made of solid wood, and finished attractively in fumed oak. It is given Free with the following assortment of Alarm Clocks

When Will It Stop ?

COME IN AND REGISTER YOUR GUESS

It is not necessary to make a purchase. Each visitor to the store is entitled to one guess. The one guessing the nearest to the day, hour and minute the

Marathon Eight Day Automatic Alarm Clock

Will stop, will receive the clock FREE

MARATHON Eight Day Automatic Alarm Clock - - Retail Price $6.25

Sold and Guaranteed by The Correct Time Co.

Clock wound up and started

When Will It Stop Sign in Colors Size 11x14 In.

This Base and Clock Free with Assortment; Also Articles Listed Above

FREE WITH WHEN WILL IT STOP ASSORTMENT

1 Three Step Mission Stand.
1 Baby Wireless Mission Stand.
2 Wireless Clock Signs
2 When-Will-It-Stop Signs.
1 8-DAY MARATHON CLOCK.

BABY WIRELESS

Mission Rack, 10½ In. High

Neat, One Clock Display Stand Given Free with THE BABY WIRELESS Alarm Clock Assortment

We furnish, Free of Charge, a neat, attractive Display Stand with each Baby Wireless Assortment. The Stand is made of solid wood, finished Mission style; has a small Gilt Lettered Sign, held in position by Brass Plated Hook. The Stand with a Baby Wireless Clock displayed upon it, makes a splendid Counter Ornament as well as a valuable Sales Stimulator.

INTRODUCTORY

Quantity, Only	No.	List Price, Each	Retail Price, Each
3	3075H—Baby Wireless	$5 00	$3 75
2	3075I—The Wireless	4 70	3 50
2	3075C—Jumbo Wireless	5 70	4 25
2	3075B—Wireless Call	6 40	4 50
2	3075A—Marathon	8 20	6 00
2	3075E—Baby Call	5 40	4 00
3	3070A—Raylight Signal Marathon	11 00	8 00
2	3070B—Raylight Marathon	10 50	7 75
2	3070C—Raylight Wireless Call	7 40	5 25
2	3070D—Raylight Dayio	6 80	5 00
2	3070H—Raylight Baby Wireless	7 00	5 25
2	3070F—Raylight Baby Call	7 40	5 50
2	3070E—Raylight Flashlight	5 80	4.25
2	3086B—Call Boy	3 80	2.75
2	3086F—Aerogram	2 40	1.75

Total Retail Price $142 00

Per Assortment

No. 3069A—Assortment of Thirty Alarm Clocks, as Listed Above; Complete with Mission Three-Step Display Stand $193.20

Weight 110 Lbs. Assortment

WHEN WILL IT STOP

Quantity, Only	No.	List Price, Each	Retail Price, Each
3	3075H—Baby Wireless	$5.00	$3 75
3	3075I—The Wireless	4.70	3.50
3	3075C—Jumbo Wireless	5 70	4 25
3	3075B—Wireless Call	5 40	4 00
3	3075A—Marathon	8 20	6 00
3	3075E—Baby Call	5 40	4 00
3	3070A—Raylight Signal Marathon	11 00	8 00
3	3070B—Raylight Marathon	10 50	7.75
3	3070C—Raylight Wireless Call	7 40	5 25
3	3070D—Raylight Dayio	6 80	5 00
3	3070H—Raylight Baby Wireless	7 00	5 25
3	3070F—Raylight Baby Call	7 40	5 50
3	3070E—Raylight Flashlight	5 80	4 25
3	3086B—Call Boy	3 80	2 75
3	3086F—Aerogram	2 40	1 75
5	3088C—Wizard	4.30	3 25

Total Retail Price..... $223 25

Per Assortment

No. 3069B—Assortment of Fifty Alarm Clocks; Complete with Stand and Articles as listed above..... $311.00

Weight 135 Lbs. Assortment

BABY WIRELESS

The Baby Wireless has an Intermittent Light Sounding Alarm, It is 3½ In. High, 2⅜ In. Deep and has a 2 in. White Porcelain Dial; the Case is made of Seamless Brass and is Dust-Proof.

Assorted as Follows:

Quantity, Only	No.	List Price, Each	Retail Price, Each
3	3076H-C —Burnished Copper Finish	$5.00	$3.75
3	3076H-FB—French Bronze Fin.	5.00	3 75
3	3076H-E —Lemon Brass Finish	5.00	3.75
3	3076H-S —Satin Silver Finish	5.00	3.75
1	Display Stand		Free

Total Retail Price..... $45.00

Per Assortment

No. 3069C—Assortment of 12 Baby Wireless Alarm Clocks, Complete with Mission Hardwood Display Rack, 10½ In. High..... $60.00

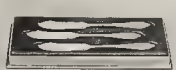
Weight 30 Lbs. Assortment

OLD COLONY 1847 ROGERS BROS. SILVERPLATE

UNLIMITED GUARANTEE

FRENCH gray handles, bright finish bowls and tines Beveled edged handles. A design that appeals to buyers of fine silverware.

SALAD FORKS—
J6243 ½ doz. in blue velvet lined box Doz. **$8.80**



BUTTER SPREADERS—
J6240—½ doz. in blue velvet lined box Doz **$7.20**

SUGAR SHELL—
J6243—Each in blue velvet lined box . . . . . Each, **79c**

BUTTER KNIFE—
J6244—Each in blue velvet lined box . . . . . Each, **89c**

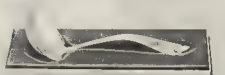
ICED TEA SPOONS—
J6262—½ doz. in blue velvet lined box Doz. **$7.10**

SOUP SPOONS—Round bowl
J6257—½ doz. in blue velvet lined box Doz. **$9.40**

COLD MEAT FORK—
J6249 Each in blue velvet lined box.. . Each **$1.17**

CAKE KNIFE—
J6246—Each in blue velvet lined box . . . . Each, **$1.17**

BERRY SPOON
J6248—Each in blue velvet lined box.. . . Each **$1.80**



GRAVY LADLE
J6247 Each in blue velvet lined box .ach, **$1.40**

ANNIVERSARY SETS

Anniversary 26 Pc. Set Velvet lined chest free 6 dinner knives, 6 flat handle dinner forks, 6 tea spoons, 6 table spoons, 1 sugar shell 1 butter knife. Each in 18x10½ velvet lined display box.

J6236 — With solid handle SET (26 pcs.) **$15.58**

J6231 With hollow handle SET (26 pcs.) **$19.58**

Anniversary 16 Pc. Salad or Dessert Set—1 salad spoon and 1 salad fork with olive wood bowl, 1 pie or ice cream server, 1 cheese server, 6 ice cream forks, 6 individual salad forks.

J6255—Each set in 13x10½ velvet lined display box. SET (16 pcs.) **$16.78**

KNIVES & FORKS

Medium Knives
J6258—Solid handle .36 dwt. ½ doz. in box. . . . . Doz **$5.80**
J6259—Hollow handle. ½ doz. in roll . . . . . Doz. **$13.80**

Medium Forks—
J6256—Solid handle (10 dwt.) ½ doz. in box. . . . . Doz. **$5.80**
J6252—Flat handle. ½ doz. in . . . . . Doz. **$6.90**
J6261—Hollow handle. ½ doz. in roll. . . . . Doz **$13.80**

SPOONS

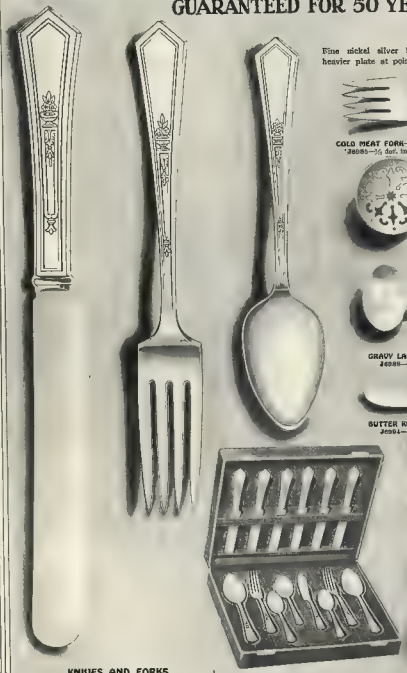
Tea Spoons—
J6263—½ doz. in lined box Doz. **$4.40**

Dessert Spoons—
J6253—½ doz. in lined box Doz. **$8.50**

Table Spoons—
J6254 ½ doz. in lined box . Doz. **$8.80**

"La Touraine" Wm. Rogers Mfg. Co. Anchor Brand

GUARANTEED FOR 50 YEARS



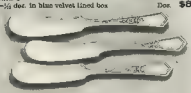
Fine nickel silver base, heavily plated and reinforced with still heavier plate at points subject to hard usage. New platinum finish.

COLD MEAT FORK—
J6085—½ doz. in blue velvet lined box . . . Doz. **$10.00**

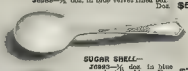
TOMATO SERVER—
J6090—½ doz. in blue velvet lined box. . . . . Doz. **$16.00**

GRAVY LADLE—
J6095—½ doz. in blue velvet lined box Doz. **$12.00**

BUTTER KNIFE—
J6084—½ doz. in blue velvet lined box Doz. **$8.00**

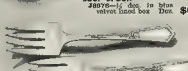


BUTTER SPREADER—
J6086—½ doz. in blue velvet lined box Doz. **$5.65**



SUGAR SHELL—
J6083—½ doz. in blue velvet lined box . Doz. **$7.00**

SOUP SPOON
J6076—½ doz. in blue velvet lined box Doz. **$6.60**



SALAD FORK—
J6084—½ doz. in blue velvet lined box Doz. **$6.30**

KNIVES AND FORKS

Medium Knives—½ doz. in box.
J6075—Solid handle Doz. **$ 4.75**
J6074—Hollow handle **11.90**

Medium Forks—½ doz. in box
J6075—Flat handle Doz. **$6.30**

KNIFE AND FORK SETS

6 knives and 6 flat handle forks. Each set in velvet lined box.
J6070—Fancy solid handle medium knives
SET (12 pcs.) **$6.70**
J6072—Hollow handle knives
SET (12 pcs.) **$10.35**

SPOONS

Tea Spoons—
J6067—½ doz. in box .Doz. **$3.15**

Dessert Spoons—
J6089—½ doz. in box Doz. **$5.65**

Table Spoons—
J6069—½ doz. in box Doz. **$6.30**

26 PIECE SET

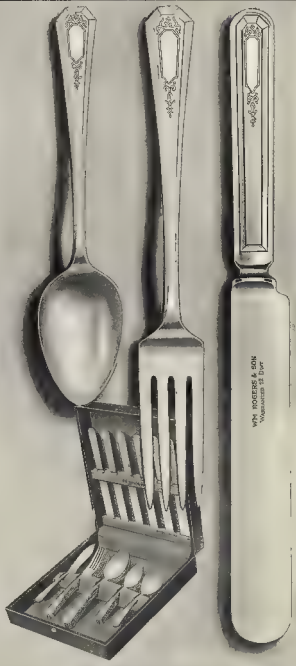
26 Piece Set—Six each tea spoons, table spoons, forks, knives, 1 sugar shell and 1 butter knife. Each set in "Silks" leatherette covered case, blue velvet lining.
J6096—Solid handle knives
SET (26 pcs.) **$14.40**
J6096—Hollow handle knives
SET (26 pcs.) **18.15**

35 PIECE SET

35 Piece Set—Six hollow handle knives, 6 flat handle forks, 12 tea spoons, 6 table spoons, 6 dessert spoons, 1 sugar shell and 1 butter knife. Each set in leatherette covered "Rhine" case, blue velvet lined.
J6097—1 set in chest. SET (35 pcs.) **$21.00**

WM. ROGERS & SON SILVERPLATE

GUARANTEED FOR 25 YEARS



"LINCOLN" PATTERN

Bright finish, beveled edge design

KNIVES AND FORKS

Medium Knives—½ doz. in box
J6305—Solid handle...Doz. **$4.60**

Medium Forks—½ doz. in box
J6306—Solid handle, Doz. **$4.60**
J6307—Flat handle... " **3.60**

SPOONS

Table Spoons
J6302—1 doz. in box...Doz. **$3.80**

Tea Spoons—
J6303—1 doz. in box...Doz. **$1.90**

Dessert Spoons—
J6301—1 doz. in box...Doz. **$3.60**

26 PIECE SETS

6 tea spoons, 6 table spoons, 6 medium flat handle forks, 6 fancy solid handle knives, 1 sugar shell, and 1 butter knife.

J6325—Each set in blue satem lined display box.
SET (26 pcs.) **$8.40**

J6327—Each set in leatherette covered hinged case, blue satem lined.
SET (26 pcs.) **$8.90**

"LA FRANCE" PATTERN

May finish, beveled edge, shield design

KNIVES AND FORKS

Medium Knives—½ doz. in box
J6138—Solid fancy handle, Doz. **$4.60**

Medium Forks—½ doz. in box Doz.
J6139—Solid fancy handle. **$4.60**
J6140—Flat handle.... . **3.80**

SPOONS

Tea Spoons—
J6151—1 doz. in box Doz. **$1.90**

Dessert Spoons—
J6153—1 doz. in box Doz. **$3.60**

Table Spoons—
J6154 1 doz. in box Doz. **$3.80**

26 PIECE SETS

6 tea spoons, 6 table spoons, 6 med um flat handle forks, 6 fancy solid handle knives 1 sugar shell and 1 butter knife.

J6154—Each set in blue satem lined display box.
SET (26 pcs.) **$8.40**

J6155—Each set in leatherette covered hinged case, blue satem lined
SET (26 pcs.) **$8.90**

Ambassador 1847 ROGERS BROS. SILVERPLATE

UNLIMITED GUARANTEE

Beautiful gray finish. This is the most popular pattern of this famous make and is being extensively advertised.

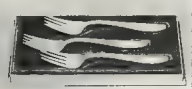
BUTTER SPREADERS—
J6860—½ doz. in blue velvet lined box. . . . . Doz. **$7.20**

BUTTER KNIFE—
J6885—Each in blue velvet lined box Each, **89c**

OLIVE SPOON—
J6862—Each in blue velvet lined box . . . Each, **$1.00**

SUGAR SHELL—
J6866—Each in blue velvet lined box Each, **79c**

SOUP SPOONS—
J6848—½ doz. in blue velvet lined box Doz. **$9.40**



SALAD FORKS—
J6867—½ doz. in blue velvet lined box. . . . . Doz. **$8.80**

ICED TEA SPOONS—
J6881—½ doz. in blue velvet lined box Doz. **$7.10**

COFFEE SPOONS—
J6856—½ doz. in blue velvet lined box Doz. **$4.40**

ORANGE SPOONS—
J6873—½ doz. in blue velvet lined box Doz. **$5.60**

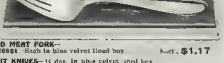
TOMATO SERVER—
J6849—Each in blue velvet lined box Each, **$2.00**

BOUILLON SPOONS—
J6870—½doz. in blue velvet lined box. . . . . Doz. **$8.20**

GRAVY LADLE—
J6868—Each in blue velvet lined box. . . . Each, **$1.40**

CREAM LADLE—
J6859—Each in blue velvet lined box. . . . Each **$1.07**

BERRY SPOON—
J6863—Each in blue velvet lined box. . . . . Each **$1.80**



COLD MEAT FORK—
J6891 Each in blue velvet lined box Each, **$1.17**

FRUIT KNIVES— ½ doz. in blue velvet lined box
J6892—Solid handle . . . . . Doz. **$5.10**

PIE SERVER Each in blue velvet lined box
J6876—Hollow handle . . . . . Each **$2.87**

CHILDREN'S SET Each set in blue velvet lined box
J6880—Knife, fork, spoon. . . . . SET, **$1.80**

CARVING SET Each set in blue velvet lined box.
J6957 2 pieces small size carving knife and fork SET, **$5.00**

KNIVES AND FORKS

	Doz.
Medium Knives—½ doz. in box.	
J6841—Solid handle, 10 dwt.	$ 5.80
J6842—Modified handle, weighs 12 dwt. . . . Doz.	10.50
J6865—Hollow handle. . . .	13.80
J6874—Hollow handle, stainless blade	15.00
Medium Forks—½ doz. in box	
J6843—Flat handle . . . . Doz.	$8.80
Knife and Fork Sets—	
J6846—6 solid handle knives, 6 flat handle forks in box. SET (12 pcs.)	$7.30
J6844—6 hollow handle knives, 6 flat handle forks in box. SET (12 pcs.)	$11.30
J6845—6 hollow handle dessert knives, 6 flat handle dessert forks in box SET (12 pcs.)	$11.00

SPOONS

Tea Spoons—½ doz. in box. . . . . Doz.	$4.40
Dessert Spoons J6841 ½ doz. in box Doz.	$8.50
Table Spoons J6842—½ doz. in box. . . . Doz.	$8.80

ANNIVERSARY SETS

Anniversary 26 Piece Set—velvet lined chest free, 6 dinner knives, 6 flat handle dinner forks, 6 tea spoons, 6 table spoons, 1 butter knife, 1 sugar ladle. Each in 12x16½ velvet lined display box

J6878—With solid handle knives SET (26 pcs.) **$15.58**

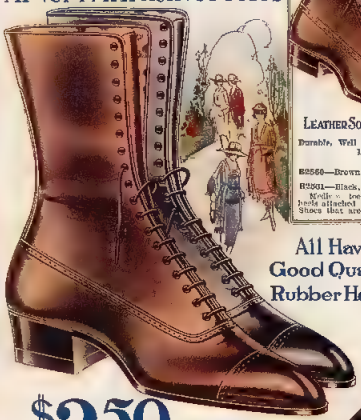
J6880—With hollow handle knives SET (26 pcs. **19.58**

Anniversary 16 Pc. Salad or Dessert Set—1 salad spoon and 1 salad fork with olive wood bowl, 1 pie or ice cream server, 1 cheese scoop, 6 ice cream forks, 6 individual salad forks.

J6881—Each set in 13x10½ velvet lined display box. SET (16 pcs.) **$16.78**

WOMEN'S BOOTS

Correct Styles for Fall At Very Attractive Prices



WALKING BOOTS

Low Heels

Medium Toe Last

Leather Soles

Durable, Well Appearing Black and Brown Side Leather Walking Boots

B2556—Brown, sizes 3 to 8.....Pr **$3.00**

B2561—Black, sizes 3 to 8.....Pr **$2.90**

Medium toe, tipped, low heels with rubber heels attached. McKay sewed soles of solid leather. Shoes that are thoroughly dependable.

Uskide Fibre Soles

Brown or Black Walking Boots With "Uskide" Fibre Soles.

B1306—Brown, sizes 3 to 8. .Pr **$3.00**

B1301—Black, sizes 3 to 8 ... .Pr **$2.90**

Medium toe tipped McKay sewed soles, low heels with rubber heels attached. The "Uskide" soles assure extra long wear and are dressy in appearance.

All Have Good Quality Rubber Heels

Only $2.50 Pair

Women's Attractive ARISTO KID Boots

Well Appearing Made of Good Quality Aristo Kid Leather.

B2305—Brown, sizes 3 to 8 . . . . . Pr
B2561—Black sizes 3 to 8 . . . . . Pr **$2.50**

Medium toes, tipped low heels with rubber heels attached. Exceptionally good values in medium priced shoes. The uppers are of a good smooth Aristo Kid leather. The soles will give good wear. Very dressy in appearance. Constructed to give service.

Women's Black and Brown Kid Lace Boots.

B2513—Brown kid, sizes 4 to 8 . . . . . Pr **$3.00**

B2514—Black kid, sizes 3 to 8 . . . . . Pr **$2.85**

Neat medium toe, tipped, imitation tip, military heels, rubber heels attached, McKay sewed sole, leather top facing. Decidedly good looking boots at a moderate price.

Women's Black and Brown "Aristo" Kid Lace Boots

B2520—Brown sizes 3 to 8 Pr **$2.50**
B2521—Black, sizes 4 to 8. Pr

"Aristo" kid leather uppers, McKay sewed soles, imitation tip, military heels with rubber heels attached. Exceptional values combined with good service.

Fashionable "Goodyear Welt" Boots

Women's Fine Quality Brown Kid Goodyear Welt Boots.

B2308L—Women's sizes 2 to 7 . . . . Pr, **$4.35**

Durable Goodyear welt soles, military heels with rubber heels attached, neat last, imitation tip, leather top facing. Distinctive in appearance and quality.

Women's Brown Calf Goodyear Welt Boots.

B2308 — Women's sizes 2½ to 7 Pr, **$4.00**

Fine quality tan brown calf, imitation tip, military heels with rubber heels attached, neat medium toe last, leather top facing Goodyear welt sewed soles.

Women's Fine Quality Black Kid Goodyear Welt Boots.

B2307 — Women's, sizes 2½ to 7 Pr **$4.00**

Fine quality black kid uppers, Goodyear welt soles, military heels with rubber heels attached, neat last imitation tip, leather top facing.

Women's Dress Boots of Superior Black and Brown Kid

B2305—Brown, kid, sizes 3 to 8. . . . Pr **$3.75**
B2306—Black kid, sizes 3 to 8 . . . . . Pr

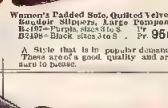
Super quality kid uppers, McKay sewed soles, very latest last, military heels with rubber heels attached, leather top facing. Distinctive in quality and workmanship.

Cozy Felt Slippers & Boudoirs for Men Women and Children

Women's Fancy Cuff, Chrome Leather Sole Moccasins. Sizes 4 to 8
B634—Fawn Felt . . Pr
B635—Copen Blue Felt . . Pr
B636—Purple Felt . . Pr
B638—Taupe Felt, sizes 4 to 8 Pr
B640—American Beauty Felt Pr
75c

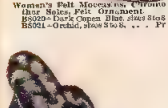
Women's All-Wool, Chrome Cushion Sole Ribbon Trimmed Moccasins. Sizes 4 to 8
B638—Purple Felt . . Pr
B640—American Beauty Felt Pr
B641—Old Rose Felt . . Pr
75c

Women's Kid-Finished Leather Slippers, Leather Soles. Sizes 4 to 8
B2401—Black Kid Leather . Pr $1.00
B2402—Tan Kid Leather . Pr $1.25
B2405—Red Kid Leather . Pr $1.25
B2406—Blue Leather . Pr $1.35
B2408—Black Kid Chrome Soles . . Pr 95c



Women's Padded Sole, Quilted Velvet Boudoir Slippers, Large Pompon.
B4197—Purple, sizes 3 to 8 Pr
B2496—Black, sizes 3 to 8 . Pr **95c**
A Style that is in popular demand. These are of a good quality and are sure to please.

Women's Leather Sole And Heel, Felt House Slippers For General Use.
B539—Gray Felt, sizes 4 to 8 . Pr
B540—Maroon Felt, sizes 4 to 8, Pr **80c**



Women's Felt Moccasins, Chrome Leather Soles, Felt Ornament. Sizes 3 to 8.
B5029—Dark Copen Blue, sizes 3 to 8
B5031—Orchid, sizes 3 to 8. . . . Pr **60c**

Women's Padded Sole, Ribbon Trimmed Moccasins. Low priced slippers of a good quality felt and are well made.
B676 Nell Rose, sizes 3 to 8 . . . . . Pr.
B677—Lavender, sizes 3 to 8 . . . . . Pr.
B678—American Beauty, sizes 3 to 8. . . . . Pr. **67½c**

Women's Felt Moccasins, Chrome Leather Soles And Heels. Sizes 3 to 8.
B5030—Gray Felt . . Pr
B5031—Black Felt . . Pr **87½c**
B5034—Copen Felt Blue Pr.
B5032—Orchid Felt . . Pr **$1.00**

Women's High-Grade Moccasins, silver color Moccasin trimmed, cushion sole. Sizes 3 to 8.
B666—Light Blue Felt.
B668—Navy Felt.
B667—Lavender Felt.
Pr. **$1.00**

Women's High Grade Ribbon Trimmed Cushion Sole Moccasins. sizes 3 to 8
B655—Lavender Felt.
B656—Navy Blue Felt.
B657—Turquoise Felt.
Pr **$1.00**

Women's Plush Trimmed Felt Juliets, Leather Sole And Heel. Sizes 3 to 8.
B5500—Gray Felt . . Pr
B5501—Black Felt . . Pr **87½c**
B5504—Copen Felt Blue Pr.
B5502—Orchid Felt . . Pr **$1.00**

Women's Ribbon Trimmed Felt Juliets, Leather soles and heels. sizes 3 to 8
B5578—Dark Blue. Pr.
B5579—Orchid . . . Pr
B5580—Pervale . . . Pr **$1.00**

Bead Trimmed Leather Indian Moccasins.
B4130—Men's, sizes 7 to 11 Pr **$1.25**
B4134—Women's, sizes 4 to 6. Pr **$1.10**
B4132—Misses', sizes 11 to 2 Pr **90c**
B4133—Children's sizes 9 to 10 Pr **65c**

Women's High-Grade Cushion Sole "Hyte" Slippers, sizes 3 to 8
B674—Copen blue.
B673—Dark Orchid
Pr. **$1.07½**

Men's & Boys' Slippers

Men's Brown Leather Slippers. Cushion sole, tape bound
B655—Brown, sizes 6 to 11 Pr. **$1.25**

Women's Extra Quality Felt, Plush Trimmed Juliets, leather soles and heels. Sizes 3 to 8.
B562—Rose Felt. Pr
B558—Light Blue Felt Pr
B567—Lavender Felt. Pr **$1.25**

Men's Gray Felt Slippers, one-piece leather sole, welted heel, tape bound, fancy design.
B530—Gray Felt, sizes 6 to 11 Pr. **62½c**

Boys' Brown Felt Indian Pattern Moccasins cushion soles.
B622—Sizes 3 to 6 Pr **90c**

Men's Gray Felt Slippers, Chrome Leather Cushion Sole with felt collar, sizes 6 to 11
B630—Gray Felt. . . . Pr. **87½c**

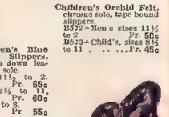
Men's Brown Felt Slippers, Chrome Leather Cushion Sole, with collar, sizes 6 to 11
B636—Brown Felt . . Pr **87½c**

Misses' & Children's Slippers

Children's Dark Blue Felt Juliet chrome leather soles.
B570—Sizes 11 to 2 Pr. **60c**
B571—Sizes 8 to 10½ Pr. **50c**

Children's Orchid Felt, chrome sole, tape bound slippers.
B572—Sizes 11½ to 2 Pr. **50c**
B573—Child's, sizes 8½ to 11 . . . . Pr. **45c**

Children's Blue Felt Slippers, turn down leather sole
B600—Sizes 11½ to 2. Pr. **65c**
B601—Sizes 8½ to 11. Pr. **60c**
B602—Sizes 6 to 8. Pr **55c**



Children's Orchid Felt Juliets, plush trimmed, leather sole and heel.
B5500—8 to 10½ . . Pr **80c**
B5501—Sizes 8 to 11 Pr **80c**
B5502—Sizes 6 to 10½ Pr **75c**

Children's May Rose Felt Bootees, fancy design cuff, chrome calf vamp sole.
B553—Sizes 11½ to 2 Pr **70c**
B554—Sizes 8 to 11 Pr. **60c**

Children's Fawn Felt Moccasins, Indian Head design with felt collar cushion sole.
B5624—Sizes 11½ to 2 Pr **80c**
B5624—Sizes 8 to 11 Pr. **75c**

SPOTLIGHT SPECIALS

HARDWOOD KITCHEN CHAIR

A big leader for your furniture department.

P6502—Hardwood, seven glass finish, saddle seat braced back, wt 10 lbs each. ½ doz in bdl, $ d.

Doz **$12.50**

DUCK SEAT ADJUSTABLE RECLINING CHAIR

Neat and hook out pleces heavy duck. A big seller and profit payer at this time of the year.

P2827 Best grade Michigan red beech frame, natural finish, varnished, reclining shaped arm rests can be adjusted to 4 positions, seat and back one piece duck brown and tan stripe, 4 to a bdl, 20 lbs each.

Doz **$18.00**

GOLDEN OAK FRAME MIRROR

Priced low for this month only

P7867—Good quality 14x22 oval frame, golden oak finish, 17x25 in. over all. Our prices are very low 1 doz in case.

Doz **$9.00**

POPULAR PRICED MIRROR ASSORTMENT

You would pay more elsewhere

P2097—Frame 10x12 glass 8x10 in., 1 in. hardwood frame, assti 3 doz each of cushion walnut, white enameled and antique gilt. Assti, 3 doz in case. 36 lbs

(Total $10.58) Doz **$3.50**

UPHOLSTERED REED ROCKERS

Closely woven reed, nice hardwood frames, steam bent posts and rockers.

Seat 21x21 in., ht. of back above seat 26 in., double braced open work back, flare arms, loose cushions, back and seat upholstered with floral art cretonne. Wrapped, 50 lbs.

P6804—Parental brown.

Each **$12.75**

P6831—Old ivory enamel
P6833—Putty enamel
P6843 Painted brown.

Each **$13.75**

UPHOLSTERED FIBER ROCKERS

This large oversized rocker is strongly made and covered with high grade upholstery and you pay less.

Seat 21x21 in. ht. of seat above back 39 in., high pillowed back, spring filled slip seat, upholstered with high grade floral art cretonne. Wrapped, 60 lbs.

P6816—Parental brown.

Each **$21.50**

P6831—Old ivory enamel
P6833—Putty gray enamel
P6838—Painted brown.

Each **$23.50**

SOLID OAK PORCH SWING

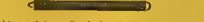
Malleable iron hooks bolted to upright posts allowing full use of arms

P1899—60 inches long and 4 only fluted finish, seat 18 in. deep back 21 in. high above seat, malleable iron hooks bolted to upright posts, allowing full use of arms. Bridgeport chains and ceiling hooks. Crated 1x d.) 40 lbs Each.

$2.95

"SWING EASY" PORCH SPRING

Makes a porch swing ride like a Pullman car Display them with your line of porch swings



P49—May be attached to any chain or ceiling hook, adds 100% comfort in using your swing. 1 pr in box

pr. **49c**

GOLDEN OAK "COMFORT" KITCHEN CABINET

Rounded corners and edges, all joints mortised and tenoned, guaranteed not to sag or pull apart. Under the maker's name plate you would pay much more.

MATERIAL—Solid Indiana oak

SIZES—Ht. 70 in., sliding top 19x40 in.

FEATURES—46 lbs. tilting flour bin with sifter. Wood cutter and bread box with ventilating sliding top. Drop roll curtain

EQUIPMENT—Complete set of five spice jars, one tea and one coffee container, crystal glass sugar jar on swinging steel hanger, large bread board. Crated 500 lbs.

P2845 Golden oak, inside and out, porcelain sliding top

Each **$23.75**

GENUINE LEATHER SLIP SEAT DINERS AND ARM CHAIRS

Attractive designs priced very under market

P6814—Diner, quarter sawed white oak, golden stained finish, thick posts and doweled grouting leather Spanish brown slip seat 1 in bdl set up, 20 lbs

Each **$3.25**

William and Mary design, quartered oak, genuine leather, Spanish brown slip seat.

P6099—Diner, Jacobean, 2 in bdl Each, **$4.75**

P6101 Diner, fumed, 2 in bdl Each, 4.75

P6101 ½—Arm chair, fumed, 1 in bdl Each, 7.50

"Queen Anne" design, American walnut, slip seat, genuine leather, Spanish brown with black slip seat.

P6099—Diner, 2 in crate, 67 lbs. Each, **$ 8.00**

P6099—Arm chair, 2 in crate, 35 lbs. Each, **13.25**

"Queen Anne" design, cane back, selected quartered red gum, American walnut finish, shaped top, cane back, genuine leather Spanish brown slip seat

P6098—Diner, 6 in crate, 67 lbs Each, **$ 9.90**

P6099—Arm chair, 1 in crate, 80 lbs. Each, **13.90**

SPOTLIGHT SPECIALS

TOY STEEL WHEELBARROWS

An outdoor toy that goes fast as a 60 center.

F17—Dump barrow, 24 in. handle 13x8½ in. box. It has a steel spoke wheel, red painted, steel body, tubing arched handle, 10 in. rubber tired wheel, heavy steel axles, wheels and bed fastened with screws and bolts. ½ cart, 15 lbs. Each **$4.25**

"NEVER TIP" CHILDREN'S SULKIES

Note the special brace to prevent tipping. Three always sell big at this time of the year and the prices are mighty interesting.

F219—"Dandy" carries 150 lbs. seat 11x14 in. 3-ply leather, 12 in. heavy 16 in. reinforced rubber tire, nickeled extra heavy handle, and foot rest, 3 in. nickeled spoke wheels, 1 in. nickeled steel axles and tube-baked black enameled gear, bronze and nickeled trade mark. Each 2 in crate, 17 lbs.

Each, **$1.60** Doz. **$18.00**

F220—Heavy wood seat 14x10 in., red painted, green enameled, reinforced brace for reversing, nickeled fenders and foot rest irons, 10 in. japanned double spoke wheels, ¾ in. rubber tires, 48 in. heavy wood handles, 2 in crate, 34 lbs.

Each, **$1.75** Doz. **$20.00**

2¼ IN. BLACK INFLATED RUBBER BALL

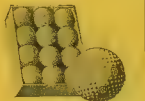
A 2¼ in. black ball to retail for 5c. The largest rubber ball value of the year

F1013—2¼ in. diam., best quality, inflated with compressed air, extra high bouncer. 1 doz. in box

Doz. **45c** Gro **$5.10**

"BOUNCER" BRAND INFLATED RUBBER BALL

The bouncer golf pattern. Strictly first quality goods.



F1088—Diam. 2½ in., golf pattern, high grade clear white rubber inflated with compressed air, extra high bouncers. 1 doz. in box

Doz. **85c**

"FAST FLIGHT" PRACTICE GOLF BALL

A genuine golf ball that will measure up to standard requirements of the golfer.

F1501—1⅝ in., dimple pattern. Made of new materials and by a new method perfectly centered and to exact standard weight. Will outdrive and outlast golf balls worth 1 doz. in box

Doz. **$1.20**

"JUMBO" ROUND RUBBER BALLOON

An exceptional value and a popular seller at a dime.

F1610—43 in. circumference, solid colors, metal yellow, blue and green. Assrtd. 1 doz. to pkg.

Doz. **74c**

FEATHERWEIGHT BABY WALKER

Steadily increasing in popularity. Permits baby to learn how to walk without fear of injury. Note our low price.

F1930—Ht. 17 in., diam. top rim 11 in., floor rim 20½ in. strong bright finish steel frame, heavy fabric woven, removable cloth seat, may be detached and folded flat. Each **$1.65**

(Total $4.95)

IMPORTED "BABY BUD" BISQUE DOLL

An outdoor doll for small children

F9301—5 in. Pure Dutch tinted bisque, painted features, wears rompers, exposed jointed short skirt, movable cardboard wool, which give different expressions at each pose, sent in box. 1 doz. in pkg.

Doz. **74c**

8½ IN. TURNING HEAD CHINA LIMB DOLL

You usually pay much more for this size

F9003—8½ in. reputation turning china head and breast plate china forearms and legs, somewhat stuffed strong red muslin body, painted features, hair and footwear. 1 doz. in box

Doz. **95c**

"OVERLAND" WOOD COASTER WAGONS

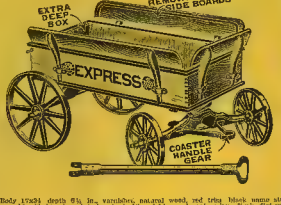
These wagons are made right and priced right—in fact they would be bargains at considerably higher prices.

Clear white ash, natural finish trimmed in red with black and green, sanitized, removable beds, black enameled steel gears, 10 spoke arch front construction, wheels with heavy iron hub tube front hardwood spokes, heavy welded steel felloes and tires, each wheel fitted with 12 oval rolled steel bearings, extra large malleable iron fifth wheel ¾ in. rounded steel axles firmly braced, 7 rod graphic ingrain which bends back to permit steering, rear box malleable iron brace. Each in sacks, cotton gears and wheels inside wagon box

	Body	Wheels		Each
F95—(Mfrs 0A),	12x28 in	8 in.	1 in carton, 24 lbs	$ 3.92
F25—(" 1A)	14x32 "	9 "	" 28 "	4.29
F26—(" 2A)	14x42 "	11 "	1 " " 37	4.93
F27—(" 3A)	14x48 "	11 "	1 " " 39	5.63

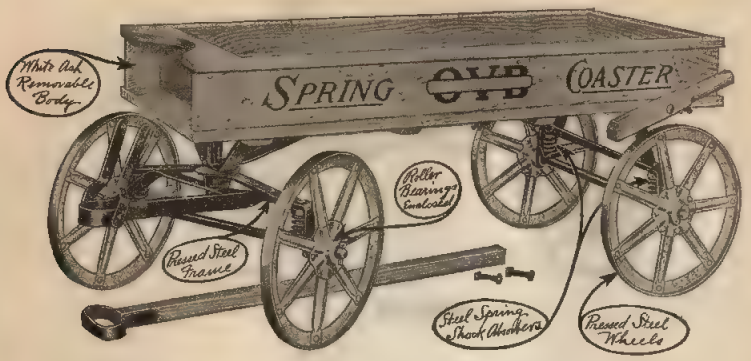
"CASH AND CARRY" WOOD EXPRESS WAGON

At 80% more than we are asking this wagon would be a remarkable bargain



F78—Body 17x34 depth 6¼ in., varnished, natural wood, red trim, black name stencil, removable side boards and dash, wheels 10 and 14 in. painted spokes, ¾ in. flat welded iron strands on ¾ in. round steel axles, coaster handle gear, body and wheels painted bright red with black stripings. 1 in crate, 50 lbs

Each **$2.98**



OYB SPRING COASTER

THE WORLD'S BEST COASTER WAGON

OYB SPRING COASTERS are recognized by the Jobbers and Dealers to be the leader for sales and profits.

WHY? Because OYB was built for SERVICE, STRENGTH and DURABILITY. For easy riding the OYB is in a class by itself.

Follow the black arrows and read the reasons why OYB excels.

For Five Years the boys' most famous coaster.

Order now!

Increased manufacturing facilities enable us to make early and prompt shipments.

Sizes and List Prices

Stamped Steel Wheels

No. N232—Body 14x32 in., wheel 8 in., w't each 31 lbs. ..... per dozen **$133.00**

No. N234—Body 14x34 in., wheel 10 in., w't each 34 lbs. ..... per dozen **142.80**

No. N238—Body 16x38 in., wheel 10 in., w't each 38 lbs. ..... per dozen **160.70**

No. N240—Body 18x40 in., wheel 10 in., w't each 43 lbs. ..... per dozen **183.60**

No. N332—Body 14x32 in., wheels 8 in., w't each 25 lbs. .....per dozen $119.00

Speedy and Durable —Removable Body

No. N334—Body 14x34 in., wheels 10 in., w't each 30 lbs. ....per dozen $129.60
No. N338—Body 16x38 in., wheels 10 in., w't each 35 lbs. .....per dozen 143.00
No. N340—Body 18x40 in., wheels 12 in., w't each 40 lbs. .....per dozen .....

BOXING GLOVES

ZENITH

The Perspiration-Proof Lining always remains soft and pliable and will not become stiff and hard, no matter how long in use; **Lace Wrist** and Palm which give a closer Fitting Glove, strengthens the Hand and Wrist and affords Better Ventilation; **Patent Adjustable Palm Grip,** Sewed at the ends only, allowing it to move freely and conform to any shape or size of hand.

Note—A Set Consists of Four Gloves, 2 Right Hand and 2 Left Hand; We Do Not Break Sets

GENUINE CORBETT

Per Set

No. 3383A—8 Oz. Mens Size: Finest Imported, **Light Russet,** Glove Kid, Filled with Superior Curled Hair; **Padded Cuff;** Patent Perspiration Proof Lining, Laced Wrist, Adjustable Palm Grip $12.00

Weight 3 Lbs. Set

CORBETT PATTERN

Per Set

No. 3383B—8 Oz. Mens Size; Fine Craven Tan Kid, Olive Tan Palm; Filled with Fine Quality Curled Hair; **Padded Cuff;** Patent Laced Wrist and Adjustable Palm Grip . $9 00

Weight 3 Lbs. Set

FIGHTING PATTERN

Per Set

No. 3383C—5 Oz. Mens Size; Fine **Napa Tan Kid,** White Leather Welted Seams and Binding, Filled with Best Curled Hair, Patent Laced Wrist; **Padded Cuff;** Palm Grip; the most popular fighting Glove made. $8.00

Weight 2¾ Lbs. Set

CORBETT PATTERN

Per Set

No. 3383D—8 Oz. Mens Size; Fine **Napa Tan Kid,** Olive Tan Palm; Filled with Good Quality Curled Hair; Black **Padded Cuff;** Patent Perspiration Proof Lining; Laced Wrist and Adjustable Palm Grip $7.50

Weight 2½ Lbs. Set

CORBETT PATTERN

Per Set

No. 3383E—8 Oz. Mens Size; Fine **Brown Tan Leather; Padded Cuff;** Palm Grip, Well Padded with Good Hair; Laced Wrist.....$6.50

Weight 3 Lbs. Set

REGULAR PATTERN

Per Set

No. 3383F—Mens Size; Bag and Palm Grip; **Green Napa Leather;** Welt Stuffed with Good Hair; Brown Palm, **Padded Cuff;** Laced Wrist.....$4.50

Weight 2½ Lbs. Set

BOYS

Per Set

No. 3383H—Boys Size; Brown Tan Leather, Corbett Pattern, **Padded Cuff;** Deep Laced, Adjustable Palm Grips..$5.50

Weight 2¾ Lbs. Set

YOUTHS

Per Set

No. 3383J—Boys Size; Brown Tan Leather; Brown Palm; Well stuffed with Hair; **Plain Cuff;** Muslin Lined; Palm Grip; Laced Wrist $4.50

Weight 1½ Lbs Set

All Above, One Set in Box

ANKLE BRACES

LEATHER

Fine Tan Leather; Relieves pain, helps cure sprain and prevents turning of Ankle, Can be worn over Stocking; lace very tight in center.

Dozen Pairs

No. 3383K—For Men; 6 to 12 Shoes $18.00

Open Stock

Weight 2 Lbs. Dozen Pairs

WRIST STRAPS

LEATHER

Fine Tan Grain Leather; With Strap and Buckle; Adjustable to any Size; Prevents injury to Wrist; Worn extensively by athletes

Dozen Pairs

No. 3383L Width 2¼ in..$4.50

Open Stock

Weight 1 Lb. Dozen Pairs

SUPPORTERS

ATHLETIC

High grade Elastic Web; Open Front; Self Adjusting; Highly recommended for athletes,

Nos	3383M	3383N	3383P
Waist, In..	22-28	28-36	36-44
Per Dozen.	$11.00	11.00	11.00

One in Box

Average Weight 3½ Lbs. Dozen

INDIAN CLUBS

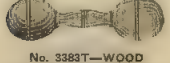
No. 3383R—MAPLE

First Quality Rock Maple, Polished Finish

	Pair
Weight ¾ Lb.	$1.20
Weight 1 Lb.	1 40
Weight 1½ Lbs .	1.60
Weight 2 Lbs.	1.80
Weight 3 Lbs.	2.50

Open Stock

DUMB BELLS



No. 3383T—WOOD

First Quality Rock Maple, Polished Finish;

Weight of each Dumb Bell is given

Weight, Lbs....	¾	1	2	3
Per Pair.....	$1.20	1.40	1.80	2.50

Open Stock

IRON

Cast Iron, Black Japanned Finish; Evenly Balanced; When ordering do not fail to mention Weights wanted.

Per Pound

No. 3383V—Weights 1, 2, 3, 4, 5, 8, 10 and 15 Lbs. Each.....$0.25

Open Stock

HAND BALLS

PURE RUBBER

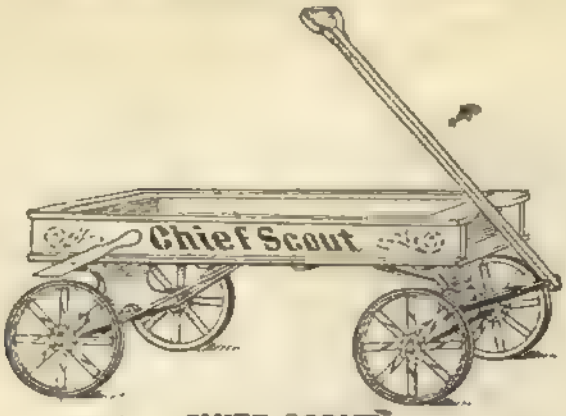
The durability of our Hand Balls is nothing short of marvelous, retaining their speed to the very last; The construction throughout renders these Balls absolutely accurate; They will respond to the players scientific shots admirably

Per Dozen

No. 3383W—Diam 1⅝ in.....$8.40

One Dozen in Box; Weight 1¾ Lbs. Dozen

WOOD COASTER WAGONS



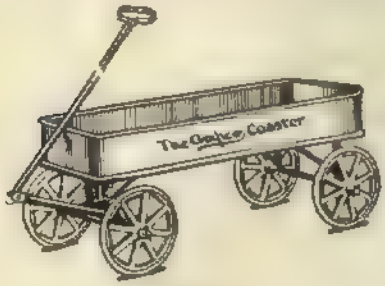
CHIEF SCOUT

Box, platform and bolsters are made from best quality hardwood, removable box rim. Pressed steel hubs. Eight ⅝ inch hardwood spokes. Felloes are made of ¾ x ⅞ inch tough Wisconsin rock elm and the tires are of ¾ x ⅛ inch band steel, electric welded and set by hydraulic press and drilled and fastened by four special made clincher nails. Roller bearings consist of eight pieces of ⅞ inch cold rolled steel shafting and are built into the hub. Rollers are held in place by 12 gauge washers. The barrel in the hub acts as an oil retainer and rollers are easily lubricated. Wheels are painted red with yellow and black striping. Box is painted yellow with red and black striping. All iron work enameled black.

Nos.	320	360	400
Each	$9.00	10.00	11.25
Platform, inches	14 x 32	16 x 36	18 x 40
Wheels, diameter, inches	10	10	10
Weight, pounds	30	35	40

One in a fibre box

STEEL COASTER WAGONS



AMPCO

Box and wheels are japanned vermilion red, other parts are black, high gloss finish. No bolts, nuts or screws are used, six cotter pins all that is necessary to assemble a wagon. Wheels have rubber tires and roller bearings.

The box is made of 22 gauge steel reinforced by a ¼ inch rod at top. The box is easily removed from platform. The wheels are 9 inches in diameter, the axles are of ½ inch steel. These coasters are strong, easily assembled, easy running and noiseless. They are packed, knocked-down, in dust proof carton. Shipping weight 31 pounds. Full directions for assembling accompany each wagon.

Ampco Coasters. All steel construction, full height 14¼ inches; box is 5 inches high, 13 inches wide, 32½ inches long.....each, **$10.00**

EXPRESS WAGONS

20TH CENTURY COASTER

Has sheet steel body, beaded; kiln dried wood bottoms, with cross cleats; steel gears, wire wheels, front and rear wheels same size; body red enameled outside, green inside, stenciled in gold; gears and wheels baked black enamel; natural hardwood handle. Both front and rear gears and all braces made of wide heavy steel. The stability of the front gear is greatly increased by the improved fifth wheel construction. The pulling strain through the draw iron is now direct on the front axle; rear gears equipped with three strong steel braces with bottom board reinforced with hardwood cross cleats with bolts passing through braces, cleats and bottom of box. Steel axles of proper size to withstand hard usage.

Nos.	118	122	126	130	132
Per dozen	$21.00	27.00	40.00	60.00	70.00
Body, inches	8 x 18	10 x 22	12 x 26	14 x 30	15 x 32
Wheels, front, diam. in.	6	8	10	11	11
Wheels, rear, diam. in.	6	8	10	11	11
Weight per dozen, lb.	80	105	200	240	300

No. 118, one third dozen, balance one sixth dozen in fibre carton

MINIATURE FARM WAGONS

STUDEBAKER JUNIOR

An ideal plaything for the girl or boy, combines all the qualities of a perfect toy. Made to imitate the large farm wagon of the same selected materials and the same care. Stock is of the best with all parts braced and bolted; seat and ends are removable; sides of box reinforced with hardwood uprights; wheels fitted with steel tires and hardwood spokes; heavy steel axles. The wagon is attractively painted and varnished.

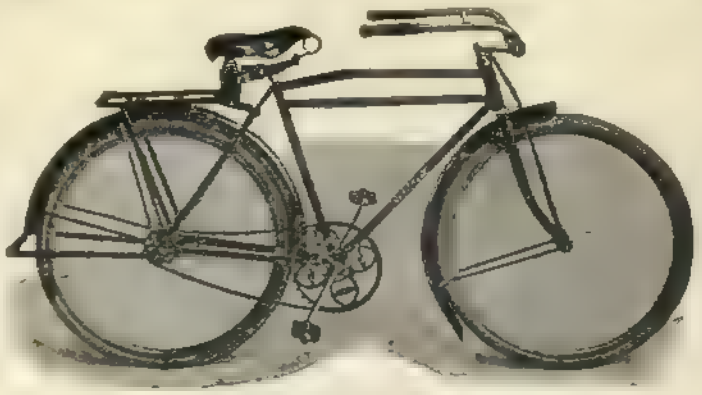
Studebaker Junior Miniature Farm Wagon. Box 36 inches long, 17 inches wide; front wheels 12 inches; rear wheels 18 inches diameter; weight crated 60 pounds. Complete with hand pole.....each, **$18.00**

Goat pole .....extra, ...

Shafts .....extra, ...

MEN'S BICYCLES

Frames have the reinforced joint construction, hubs are concave turned from solid bar and the bearing cups are formed therein making them integral, cups and cones are hardened, giving durable wearing surface for the balls. Equipped with especially designed one piece hanger.



CRANBERRY MOTORBIKE

Specifications

Frame—20 inch; made of 1 inch steel, with reinforcements at each joint.
Fork—Truss, full enameled to match frame.
Crank Hanger—One piece and oil tempered.
Front Hub—Turned from bar steel, nickel plated and polished.
Coaster Brake—Morrow.
Wheels—28 inch, equipped with non-skid tires.
Pedals—No. 1 rubber.
Handle Bars—Motorbike pattern, braced.
Saddle—Motorbike.
Stand and Carrier—Enameled to match frame.
Mud Guards—Front and rear, enameled to match frame.

With Single Tube Tires		With Double Clincher Tires	
No. 58 Cranberry. Indian red	each, **$56.00**	**No. 150 Cranberry.** Indian red	each, **$60.00**
No. 60 Cranberry. Blue	each, **56.00**	**No. 160. Cranberry.** Blue	each, **60.00**

Tool Bag and Tools. Extra.....**$1.50**

CHEROKEE ARCH FRAME

Specifications

Frame—22 inch. Made of 1 inch steel with reinforcements at each joint.
Fork—Forged arch crown, enameled to match frame.
Crank Hanger—One piece and oil tempered.
Front Hub—Turned from bar steel, nickel plated and polished.
Coaster Brake—Morrow.
Wheels—28 inch. Equipped with single tube non-skid tires.
Pedals—No. 1 rubber.
Handle Bars—No. 6, 22 inches wide.
Saddle—Bon-ton.
Stand—Enameled to match frame.
Mud Guards—Front and rear enameled to match frame.

No. 30. Cherokee. Black with red head.... each, **$1.00**
No. 40. Cherokee. Gray with green head..... each, **$51.00**

Tool Bag and Tools. Extra **$1.50**

Each bicycle paper wrapped, one in a crate

TOOL WEDGES

Malleable iron, natural finish.

No. 1742—Light axe, 1¼ oz., 2 in. long, 1 3/16 in. deep, head 9/16 in. wide, w't per gro. 15½ lbs., per gross $8.00

TWO DOZEN IN A BOX

Malleable iron, natural finish.

No. 1747—Hammer or hatchet, ¾ oz., 1 3/16 in. long, ¾ in. deep, head 9/16 in. wide, w't per gro. 4½ lbs., per gross $5.00

THREE DOZEN IN A BOX

Malleable Iron, Natural Finish.

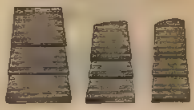
No. 1705—Hammer, for sizes 0, 1 and 1½ NAIL HAMMERS, cross pattern, wedges the handle against the eye of the tool in **four directions,** a very secure hold; length 1 5/16 in., width ¾ in., depth ¾ in., w't per gross 3¼ lbs. .....per gross $1.60

ONE GROSS IN A BOX. WE DO NOT BREAK BOXES

H.S.B. & CO. REV-O-NOC

We Stand Behind the Brand.

TOOL WEDGES



Malleable iron, natural finish, plain wedge pattern, cross ribbed to hold securely.

No. 1704—Hammer, for sizes 2 and 3 nail hammers, length 9/16 in., depth 1 1/16 in., w't per gross 1¾ lbs., per gross $1.30

No. 1703—Hammer, for medium and large machinists and riveting hammers, length 7/8 in, depth 1 1/16 in., w't per gross 1 lb., per gross $1.00

No. 1702—Hammer, for small machinists and riveting hammers, length ¾ in., depth 1 1/16 in., w't per gross 2 lb. .....per gross $0.80

ONE GROSS IN A BOX. WE DO NOT BREAK BOXES

Our reputation founded on over sixty-seven years' business stands back of the HSB brand.

All goods branded HSB are guaranteed to be of highest quality material and workmanship and free from imperfections.

In selling HSB articles there is a profit for you and satisfaction to your customers.

WHITE MASONS' TAPE

Rubberized Fabric, ¾ in. Wide, Similar to Tire Tape.

White Mason tape is used for wrapping the fingers and hands of stone masons, bricklayers, mechanics and kindred trades. Is also used for wrapping tool handles, baseball bats, etc.

The strong friction, wearing and insulating qualities of this tape, together with its light color, makes its particularly adapted for interior work in the electrical line.

No. 2½—½ lb. roll, w't per doz. 3 lbs., per dozen $3.60

ONE ROLL IN A CARTON; 100 LBS. IN A CASE

AXE RACKS

Can be used on the counter or on the wall by supporting with brackets. For counter use a fine display can be made by placing two racks back to back. The rack is ornamental and attractive, and will save its cost by keeping axes off the floor, away from the dirt and sprinkler.

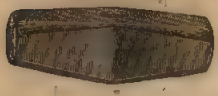
No. F15 Briggs—Semi-circular, hard wood, painted red, base 22½x11½ in., height 13 in., holds up to sixteen handled and sixteen unhandled axes, w't each 16 lbs., **each★** $7.50

ONE IN A FIBRE SHIPPING CARTON

NOTE—We do not give away Axe Racks as premiums.

★ Items Marked Thus ★ Are Shipped From Factory Only.

STRIKING HAMMERS

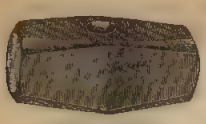


Regular or Nevada long pattern, solid forged steel, polished faces, oil finish.

Nos.	863	864	865	866
W't, lbs.	3	4	5	6
Per dozen	$8.65	11.50	11.50	11.50

Nos.	867	868	8610	8612
W't, lbs.	7	8	10	12
Per dozen	$13.45	15.35	19.20	23.05

LOOSE



Oregon short pattern, solid forged steel, polished faces, oil finish.

Nos.	874	875	876
W't, lbs.	4	5	6
Per dozen	$11.50	11.50	11.50

Nos.	877	878	8710	8712
W't, lbs.	7	8	10	12
Per dozen	$13.45	15.35	19.20	23.05

LOOSE

MASON'S HAMMERS

Solid Forged Steel, Polished Faces Oil Finish.

Nos.	854	855	856
W't, lbs.	4	5	6
Per dozen	$17.30	19.80	23.75

BLACKSMITHS' HAND HAMMERS

ENGLISH PATTERN, solid forged steel, polished face, oil finish.

Nos.	2922	2923
W't, lbs.	2	3
Per dozen	$7.90	9.50

LOOSE

BLACKSMITHS' SLEDGES

Solid forged steel, cross pein, polished face, oil finish.

Nos.	1304	1306	1308
W't, lbs.	4	6	8
Per dozen	$11.50	11.50	15.35

Nos.	1310	1312
W't, lbs.	10	12
Per dozen	$19.20	23.05

LOOSE

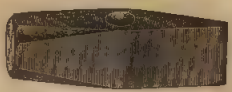
Solid forged steel, double face, oil finish, polished faces.

Nos.	1604	1606	1608
W't, lbs.	4	6	8
Per dozen	$11.50	11.50	15.35

Nos.	1610	1612	1614	1616
W't, lbs.	10	12	14	16
Per dozen	$19.20	23.05	26.90	30.70

LOOSE

STONE SLEDGES

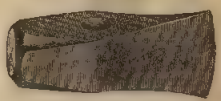


Solid forged steel, polished face, oil finish.

Nos.	9210	9212
W't, lbs.	10	12
Per dozen	$19.20	23.05

LOOSE

WOOD CHOPPERS' MAULS



Oregon pattern, oval eye, solid forged steel, polished face, oil finish.

Nos.	2135	2136	2137	2138
W't, ea., lbs.	5	6	7	8
Per dozen	$14.40	17.30	20.15	23.05

LOOSE

SHIP OR TOP MAULS

Solid Forged Steel, Polished Faces Oil Finish.

Nos.	1565	1566
W't, lbs.	5	6
Per dozen	$16.65	19.95

LOOSE

H.S.B. & CO. REV-O-NOC

We Stand Behind the Brand.

KITCHEN CABINETS

Made with all the latest features and improvements by one of the best kitchen cabinet manufacturers in America. Under the maker's name plate you would pay at least 25% more than these quotations.

Rounded corners and edges, all joints mortised and tenoned, guaranteed not to sag or fall apart. Interior of cupboards in three coats white enamel (unless stated). Exterior finished in three coats of golden or white enamel as specified. Three ply panel backs.

"Our Leader"

MATERIAL—Solid Indiana oak
SIZE—Ht. 68 in., stationary top 22x40
FEATURES—Tilting metal flour bin with sifter, capacity 40 lbs. Three ply body, mortised and tenon construction with guaranteed glued joints.
EQUIPMENT—Bread board, wood cake or bread box with ventilated metal sliding top. Casted, 170 lbs.

P8548—Golden oak inside and out, stationary wood top. Each, **$16,50**

P8544—Golden oak inside and out, stationary enameled top. Each **$17.50**

"New Priscilla"

MATERIAL—Selected white Indiana oak.
SIZE—Ht. 70 in., white porcelain sliding top 20x40 in.
FEATURES—Big swinging decorative glass fronted doors, three large shelves for utensils, dishes, etc. Base has drop front, drawer, bread and cake box and sifter drawer for flour. Sliding shelf for pastry rolling board, dust proof sliding section.
EQUIPMENT—Complete set of four spice jars, one tea and one coffee container, new style large size white enamel wood sugar bin jars, also bread board brackets for fastening meat grinder. Casted, 310 lbs.

P8034—White enamel inside and outside with porcelain sliding top. Each **$39.50**

P8035—Golden finish outside, white enamel inside, white porcelain sliding top. Each **$34.50**

"Comfort"

MATERIAL—Solid Indiana oak
SIZE—Ht. 70 in., sliding top 22x40 in
FEATURES—40 lbs. sliding metal flour bin with sifter. Wood cake and bread box with ventilated sliding top. Drop roll curtain
EQUIPMENT—Complete set of five spice jars, one tea and one coffee container, crystal glass sugar jar on swinging stem hanger, large bread board. Casted, 300 lbs.

P8543—Golden oak inside and out, porcelain top. Each, **$23.75**

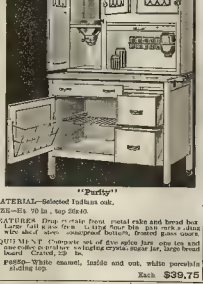
"The Marvel"

MATERIAL—Selected Indiana oak
SIZE—Ht. 70 in., top 19x40
FEATURES—Drop curtain front, bread cake and bread box with ventilated sliding top. Large full size flour bin, sliding sieve, small bin and a sliding steel measuring device, glass doors in top, sliding flour bin.
EQUIPMENT—Complete set of five spice jars, one tea and one coffee container, crystal glass sugar jar on swinging stem hanger, large bread board. Casted, 250 lbs.

P8546—Golden oak outside white enamel inside, white porcelain sliding top. Each, **$32.75**

P8542—Golden oak outside white enamel inside, white enamel sliding top.

Each, **$29.75**



"Purity"

MATERIAL—Selected Indiana oak.
SIZE—Ht. 70 in., top 20x40.
FEATURES—Drop curtain front, metal cake and bread box. Large full size flour bin, four bin pull out, sliding white metal sieve, concealed bottom, beaded glass doors.
EQUIPMENT—Complete set of five spice jars, one tea and one coffee container, crystal glass sugar jar, large bread board. Casted, 350 lbs.

P8650—White enamel, inside and out, white porcelain sliding top.

Each **$39.75**

"De Luxe"

MATERIAL—Selected white Indiana oak.
SIZE—Ht. 70 in., top 20x40 in.
FEATURES—Roll curtain front, metal cake and bread box, large full size flour bin, tilting flour bin, five drawer base, two partitions, sliding sieve above, steel concave bottom, beaded glass doors, two shelves in top.
EQUIPMENT—Complete set of five spice jars, one tea and one coffee container, swinging crystal sugar jar, large bread board. Casted, 350 lbs.

P8636—White enameled inside and outside, white porcelain sliding top. Each **$47.75**

P8637—Golden finish outside, white enamel inside, white porcelain sliding top. Each **$45.00**

Wood Top Kitchen Table

P1518—White enameled top, 24 x 36 in. Legs 28 in. high, with drawer 7 in. long x 9 in. wide.

Each **$3.25**

Less qty. of Each, **$2.90**

Porcelain Top Kitchen Table

P4098—Indestructible porcelain top, 30 x 48 in., coats white enameled iron locking frame, drawer 7 in. deep, 5 in. wide, fitted large with drawer of silence sliding ball bearing. Each, **$6.90**

Drop Leaf Kitchen Table

Built of solid oak, golden label golden lum bolted in top. Size open 42 x 42 in., closed 21 x 42 in. Capacity 5 to 6 persons. P5190 Pedestal Round Top. Each **$8,50**

KITCHEN CHAIR

P9101—Hardwood, white enamel finish, braced back, 16 in. seat, 30 in. high. Each, **$2.25**

Messrs. WORSNOP & COMPANY, Ltd.,

Telegrams:
Télégrammes: Telegramas:
"WORSNOP, HALIFAX."

THE CARLTON LAMP WORKS, HALIFAX, England.

Code: *Code:* Código:
A.B.C. (5th Edition).

Nous sommes les [illegible] fabricants de lampes de mineurs [illegible]

Lampes de toutes sortes—électriques, acétylène et à benzine

Pour les accumulateurs électriques, voir la Série Electricité

WE ARE THE LARGEST LAMP MANUFACTURERS IN THE EMPIRE.

Every description of Lamps—Electric, Acetylene and Paraffin

For Electric Accumulators see Electric Series

Somos los constructores de lámparas en mayor escala en el Imperio

Toda clase de lámparas—eléctricas, acetileno y de parafina.

Para Acumuladores eléctricos véase la Serie Electricidad

LES NOUVEAUX ACCUMULATEURS "ALKLUM"

Ne contiennent pas d'acide.
Ne contiennent pas de plomb.
Ne craignent pas de fondre en cas de charge.
Peuvent être employés pendant la somme complet d'ampères-heures.
Ne peuvent pas être endommagés par un excès de charge.
Durent dix fois plus longtemps que les accumulateurs en plomb.
Les plus légers du monde.
Le voltage se maintient pratiquement à la même pression pendant tout le temps que la batterie est employée, de manière que la lumière ne baisse pas.
Sont vendus avec la garantie qu'ils sont supérieurs à n'importe quel autre accumulateur du monde entier.

THE NEW ALKLUM ACCUMULATORS

Contain no Acid.
Contain no Lead
Have no Celluloid Case
Can be run down the full amount of ampere-hours.
Cannot be hurt by over charging
Have ten times the life of lead accumulators
And are the lightest in the world
The Voltage is maintained at practically the same amount all the time the battery is being used, so that when used for lighting the light does not diminish

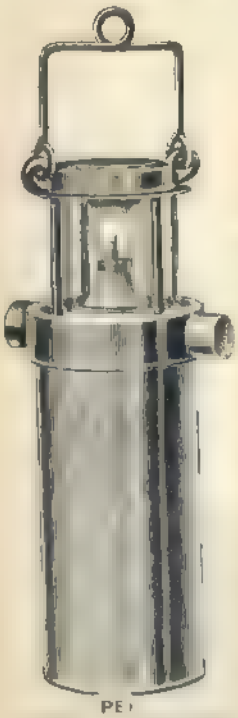
Sold with a Guarantee that they are superior to any other in the world.

LOS NUEVOS ACUMULADORES "ALKLUM"

No contienen ácido.
No contienen plomo.
No [illegible]
Pueden descargarse por [illegible] amperes horas.
No [illegible]
Tienen [illegible] vida que los acumuladores de plomo.
Y son los más ligeros en el mundo.
El voltaje se mantiene en su totalidad por así decir, durante todo el tiempo que la batería está en uso, para que la luz no disminuya.

Se venden con una garantía de que son superiores á [illegible]

WORSNOP PATENT ELECTRIC MINER'S LAMP.



PE)

APPROVED BY THE BOARD OF TRADE.

Sec. 33 of the Coal Mines Act, Statutory Rule, 1915, No. 249.

Price **36/-.**

Absolute Safety. Absolute Certainty.

The Worsnop Patent Safety Lamp is the latest invention and the last word in Electric Miner's Lamps.

It is both the strongest and lightest Electric Miner's Lamp made for the power of light given

It is less liable to get out of order than any other system.

Will last TEN TIMES as long as lamps containing the old-fashioned lead Accumulators.

The accumulator is guaranteed to maintain its efficiency for FOUR YEARS, but experiments show that it will probably be quite good at the end of TEN YEARS and even much longer.

LAMPE ÉLECTRIQUE BREVETÉE "WORSNOP" POUR MINEURS.

Modèle approuvé par le Conseil du Commerce

Section [illegible] of the Coal Mines Act, Statutory Rule, 1915, No. 249.

Prix: Frs. 45 pièce.

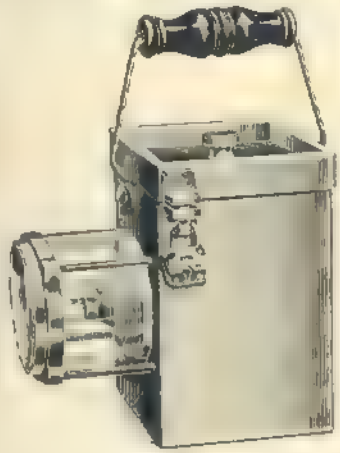
Securité absolue.
Certitude absolue

La lampe de sûreté [illegible] dernier mot en matière de lampes de mineurs électriques.

Elle est en même temps [illegible] légère de toutes les lampes de mineurs, relativement à la puissance d'éclairage qu'elle possède.

Elle est moins sujette à se détraquer que tout autre système.

[illegible] durera dix fois plus longtemps que les accumulateurs [illegible] ordinaires, et [illegible] très bon état après 10 ans de service et même davantage.



(TI)

ELECTRIC SAFETY LAMP.

For use by Mine Officials.

Price - - - 36/- each.

GOLD MEDAL awarded at the Panama Exhibition

Lampe électrique de sûreté pour contrôleur de mines.

Prix. Frs. 45 piece.

Médaille d'or à l'Exposition de Panama.

LÁMPARA ELÉCTRICA, PATENTE "WORSNOP," PARA MINEROS.

APROBADA POR LA JUNTA DE COMERCIO.

Sec. 33 of the Coal Mines Act, Statutory Rule, 1915, No. 249.

Precio: 36/- cada una. Certeza absoluta. Seguridad absoluta.

[illegible] Lampara de seguridad [illegible] Electricidad [illegible]

Las [illegible] y la luz ligera de las Lámparas Eléctricas [illegible] para la potencia de luz [illegible]

[illegible] desarrollado [illegible] [illegible] [illegible]

COOKSON & COMPANY, LIMITED,

Newcastle-on-Tyne and London,

Manufacturers of Lead and Antimony in all forms.

Fabricants de Plomb et d'Antimoine sous toutes ses formes.
Fabricantes de Plomo y Antimonio en todas sus formas.

Cookson's Assayers' Refined Powdered English Litharge "Crescent" C&C Brand.

(T!)

Wherever Assayers' Litharge is used, our Brand is essential. It is extremely pure and fine in texture. In particular it is manufactured by special processes, so that it shall contain a minimum possible quantity of precious Metals.

Our Assayers' Litharge is guaranteed to contain less than 5 grains of Silver to the ton and no Gold. Such material can be absolutely relied upon to give consistent results.

Packing.—This Litharge is usually packed in 1 cwt. (50 kilos) kegs, or smaller sizes if required.

Quotations.—Vary with the Lead market, and are always as reasonable as is consistent with the extra cost of producing material of such extreme purity.

La Litharge Anglaise Pulverisée et Raffinée de Cookson pour Essayeurs, Marque C&C "Crescent."

Dans tous les cas où la Litharge pour essayeurs est employée, notre marque est indispensable. Elle est d'une pureté très élevée, et d'une texture très fine. Notre procédé special de fabrication fait qu'elle ne contient que la quantit. minimum possible de metaux precieux.

Nous garantissons que notre Litharge pour Essayeurs contient moins de 1 3 d'un gramme d'argent par tonne et point d'or. Un tel produit ne peut que donner les resultats les plus satisfaisants

Emballage: Généralement en Barils de 50 kg., ou d'autres plus petits si on le désire.

Prix. Nous cotons suivant les fluctuations au Marche des Plombs, et nos prix sont aussi moderes que possible, vu les frais exceptionne's de production d'une matiere d une telle purete.

El Litargirio Inglés Pulverizado y Refinada para Ensayadores de la Casa Cookson, marca C&C "Crescent."

Por doquiera se usa el Litargirio para Ensayadores, el de nuestra marca es indispensable. Es de una pureza y fineza inmejorables. Nuestro procedimiento especial de fabricacion hace que dicho metal no contenga mas que la cantidad minima posible de metales preciosos.

Garantizamos que nuestro Litargirio para Ensayadores contiene menos de 1 3 de gramo de plata por tonelada, y de oro ni una triza. Es pues un producto mereciendo la mas completa confianza en cuanto a sus resultados.

Se expide en barriles de 50 Kgs., 6 en otros mas pequeños si así se desea.

Precios.—Cotizamos éstos segun las fluctuaciones del Mercado de Plomos, y visto los gastos excepcionales en la elaboracion de un producto de tanta pureza—nuestros precios siempre se hallaran muy módicos.

TENNIS SUNDRIES

TENNIS BALLS

Prices on Application

No. 3—Wright & Ditson Championship .....per dozen $....

No. 23—Paramount, championship, regulation in every particular, per dozen .....$....

TENNIS SHOES

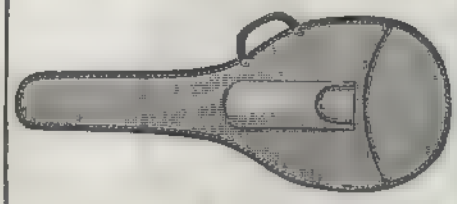
CHAMPION, canvas uppers with black rubber soles, cemented.

No. 74—Men's white Balmorals, per pair $4.00
Sizes 6, 6½ 7, 7½, 8 and 8½, carried in stock.

CHAMPION, canvas uppers with black rubber soles, cemented.

No. 78—Men's **white** Oxfords, per pair $3.50

RACKET CASES



No. 12.

No. 11—Olive drab twill, plaid lined, double texture with ball pocket, per dozen $18.00

No. 12—Olive drab twill, plaid lined, double texture, with ball pocket, leather bound with leather handle, per dozen $24.00

TENNIS RACKET RESTRINGING

We have an expert in charge of this work.

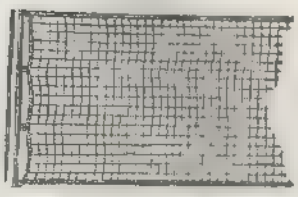
No. 3—Grade, **Good** quality gut, per racket $2.50
No. 2—Grade, Special quality gut, per racket $3.50
No. 1—Grade, **Best** quality gut, per racket $4.50

COURT MARKERS

Put in any powdered material, such as marble dust, airslacked lime, plaster of Paris, or ground plaster, such as is used for fertilizing purposes. By sprinkling immediately after marking, or by marking at evening before the dew falls, the lime is rendered more permanent. Fill the wheel about two-thirds full, which is sufficient for once marking the court.

No. 15—9 in. perforated cylinder wheel .....per dozen $32.00

TENNIS NETS



WHITE COTTON, PLAIN BOUND

No. 100—Single court, 27 ft., 12 thread .....per dozen $42.90
No. 106—Double court, 36 ft., 15 thread .....per dozen $55.40
No. 109—Double court, 42 ft., 15 thread .....per dozen $65.20

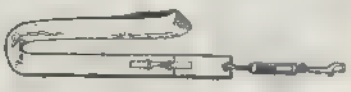
WHITE COTTON, CANVAS BOUND

No. 106CB—Double court, 36 ft., 15 thread .....per dozen $71.80
No. 107CB—Double court 36 ft., 21 thread .....per dozen $85.40
No. 109CB—Double court, 42 ft., 15 thread .....per dozen $84.70
No. 110CB—Double court, 42 ft., 21 thread .....per dozen $100.30
No. 112DC—Double court, double center, 42 ft., 21 thread, per dozen $137.30

TENNIS TAPES

Double Court .....per set $8.70
Extra Galvanized Staples, per hundred $0.60

CENTER STRAPS



No. 3-0.

No. P2-0—Canvas, new device for holding center of net at regulation height of 3 ft., superior to the iron, as it does not chafe the net or deflect the ball, per dozen $26.40

No. P3-0—Canvas, fitted with turnbuckle, height of net can be adjusted to a hair, superior to the iron, as it does not chafe the net or cause the ball to glance off or strike out of court .....per dozen $33.00

TENNIS RACKETS

WRIGHT AND DITSON'S

Wright & Ditson rackets weighing 13 oz. and over are guaranteed by the manufacturers for 30 days after date of purchase. Rackets on which claim of defect is made must be forwarded for inspection and all transportation charges paid by the sender.

Used by National Champions and prominent players throughout the country. The frame carefully selected for playing quality and balance. Has green binding and trimming on the throat, 5½-inch handle. Long and narrow shape especially adapted for stroke players and for overhead work; handle is the same size throughout playing surface, which gives the player the same grip when playing from back of the court as at the net.

No. 37—Gold Star, in weights 13½, 14 and 14½ oz. .....each $18.00

Named in honor of the famous Davis Cup. Made of choicest materials especially selected, oval in shape, dogwood re-inforcement and black walnut laminated concave throat, single stringing, 5½ in. handle.

No. 35—Davis Cup, in w'ts 13½, 14 and 14½ oz. .....each $18.00

Oval shape with concave white dogwood throat; frame made of well seasoned second growth ash in the new style chamfering, making a fine appearing and durable racket; double center stringing. Red, white and blue binding where strain in playing comes on frame. 5½-inch handle.

No. 34—All American, in weights 13½, 14 and 14½ oz. .....each $11.00

Strung with good quality gut, extra center strings, shoulders reinforced, beveled frame, light cherry throat. Very practical racket for medium price. In light, medium and heavy weights.

No. 21—Champion .....each $8.00

This racket has for a long time been one of the most popular among the medium priced rackets. Strung with good quality gut bound at shoulders and on frame where the strain comes. Made in light, medium and heavy weights.

No. 23—Longwood .....each $8.00

Frame made of selected white ash, mahogany throat. Strung with good quality gut, extra strings in center. Reinforced at shoulders with binding. Made in light, medium and heavy weights.

No. 26—Park .....each $4.00

Very popular low priced racket with extra center strings, well finished throughout. Light, medium and heavy weights.

No. 27—Hub .....each $3.50

TRADE MARK

SHIPBUILDING

WE BUILD ALL TYPES OF COMMERCIAL VESSELS, INCLUDING PASSENGER SHIPS, OIL TANKERS, CARGO BOATS, TRAIN FERRIES, ICE BREAKERS, CABLE SHIPS, AND ALSO THE PROPELLING MACHINERY, EITHER RECIPROCATING, TURBINE, OR INTERNAL COMBUSTION.

OUR SHIPYARD CAPACITY IS THE LARGEST IN THE BRITISH EMPIRE.

CONSTRUCTION DE NAVIRES.

Nous construisons tous types de navires de commerce, y compris les bateaux pour passagers, pétroliers, bacs à trains, bateaux brise-glace, bateaux pour la pose des cables sous-marins et aussi que les machines de propulsion soit alternatives soit à turbines soit à combustion.

Le tonnage de nos chantiers est le plus grande de l'Empire Britannique.

CONSTRUCCION DE BUQUES.

Construimos todos tipos de buques comerciales, incluso buques de pasajeros buques-tanques, buques de carga, barcos de transporte de trenes, buques rompe-hielos, buques para colocación de cables submarinos, así como la maquinaria propulsora, sea alternativa á turbina ó á combustion.

La capacidad de nuestros astilleros es la mayor en el Imperio Británico

SIR W. G. ARMSTRONG, WHITWORTH & CO., LTD.,

NEWCASTLE-UPON-TYNE.

LONDON OFFICE

8, GREAT GEORGE STREET, WESTMINSTER, LONDON, ENGLAND.

Cablegrams: "ZIGZAG PARL., LONDON"

ROSE, DOWNS & THOMPSON, LIMITED,

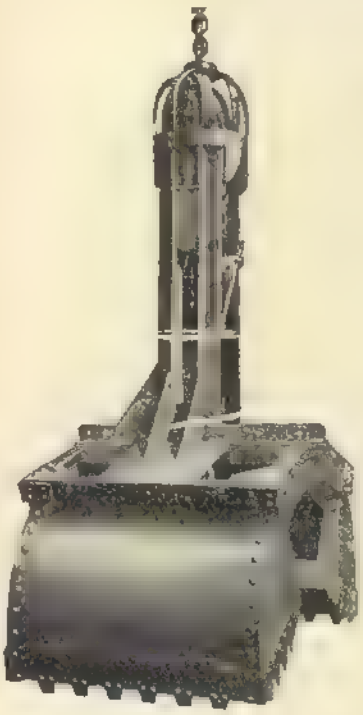
12, MARK LANE, LONDON, E.C.
Cables: *Câbles:* Cables:
"Arroser, London."

OLD FOUNDRY, HULL.

ESTABLISHED, 1777.
Cables: *Câbles:* Cables: "Rose, Hull."

20, FOOCHOW ROAD, SHANGHAI.
Cables: *Câbles:* Cables:
"Rosedowns, Shanghai."

SINGLE-CHAIN AUTOMATIC GRABS.



For use on any ordinary Crane: suitable for dredging, excavating, loading and unloading all kinds of materials, including COAL, SAND, MINERALS, CEMENT, etc., etc.

The following are particulars of Standard Grabs, different types of which are supplied for different purposes.

(AC)	No. 1—15	cub. ft.	capacity.	20	tons approx.	quantity	coal	handled	per hour.
(EF)	„ 2—18	„	„	24	„	„	„	„	
(IB)	„ 3—23	„	„	31	„	„	„	„	
(OD)	„ 4—30	„	„	37	„	„	„	„	
(UX)	„ 5—35	„	„	43	„	„	„	„	
(SA)	„ 6—39	„	„	45	„	„	„	„	
(PE)	„ 7—44	„	„	50	„	„	„	„	
(TI)	„ 8—78	„	„	90	„	„	„	„	

All the above grabs supplied with AUTOMATIC OPENING GEAR, or can be opened at any position by hand, rope or wire.

GODETS A UNE CHAINE AUTOMATIQUE.

Pour être employés sur une grue ordinaire. Convenant pour Dragage, excavations, pour charger et décharger toutes sortes de matériaux, tels que charbon, sable, minerais, ciment, etc., etc.

Les renseignements suivants sont particuliers aux godets standardises de différents types, que nous livrons pour les besoins différents.

No. 1—[illegible] pieds cubes de capacité. 20 tonnes, quantité approx. de charbon manipulée par heure.

„	2—18	„	24	„
„	3—23	„	31	„
„	4—30	„	37	„
„	5—35	„	43	„
„	6—39	„	45	„
„	7—44	„	50	„
„	8—78	„	90	„

Tous les godets ci-dessus sont livrés avec ouverture automatique, pouvant être ouverts dans n'importe quelle position, à la main, par corde ou fil de fer.

EXCAVADORES AUTOMÁTICOS DE CADENA SENCILLA.

Para usarse con cualquier grúa ordinaria, á propósito para dragar, excavar, cargar y descargar toda clase de materiales, incluyendo carbón, arena, minerales, cemento, etc., etc.

Los datos siguientes pertenecen á los excavadores "standard," de diferentes tipos.

No. 1—[illegible]	pies cúbicos	de capacidad	20	toneladas cantidad aproximada de carbon manipulado por hora
„	2—18	„	24	„
„	3—23	„	31	„
„	4—30	„	37	„
„	5—35	„	43	„
„	6—39	„	45	„
„	7—44	„	50	„
„	8—78	„	90	„

Todos los excavadores arriba citados van provistos de mecanismo automático para abrir, ó pueden abrirse en cualquier posición á mano, con cuerda ó alambre.

Next Page 897

KEY DUPLICATING MACHINE

YALE

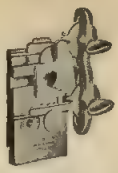
Will cut Duplicate Keys for Pin Tumbler Cylinder Locks, and for Lever Tumbler and Warded Locks, extremely fast and accurately; Includes full directions for operating. Can be mounted on Bench, Cabinet, etc.

Each

No. W894D—Size 6x10 in., by 7 in. High; Furnished with One Rotary File, One Saw Tooth Rotary Cutter, necessary Test Pieces and Wires for Vises $35.00

One in Box; Weight about 20 Lbs. Each

KEY JIG



HARRISON

An Accurate Key Cutting Machine; Two Gauge Pins furnished with each machine; One for V Groove and one for Round Groove; Made of Polished Steel with Brass Thumb Nuts, Bow Clamp Japanned Iron.

Each

No. 894E—Size 1½x2¾ in.....$10.00

One in Box, Weight ⅝ Lbs. Each

EXTRA FILES

Per Dozen

No. 894F—Special 5 in. Square Files, for above.....$14.40

KEY AND BAGGAGE CHECKS

Round

Square

BRASS

Made from 19 Gauge Sheet Brass; In 5 Lb. Boxes

ROUND

Per Pound

No. 894H—1¼ in. Diam. ¼ in. Hole, approximately 76 to Pound.....$1.28

No. 894J—1⅝ in. Diam. ⅜ in. Hole, approximately 68 to Pound..... 1.28

No. 894K—1⅞ in. Diam. ⅝ in. Hole, approximately 54 to Pound..... 1.28

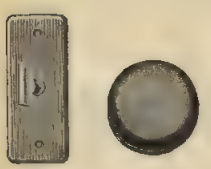
SQUARE

Per Pound

No. 894L—Size 1¾x1⅛ in. with ⅝ in. Slot; Approximately 37 to Pound..$1.28

5 Lbs. in Box

BELLS



DOOR

Mechanical Turn Button

4¾x2 in. Turn Button Plate, Wrought Bronze Metal, 3½ in. Steel Gong with Steel Base.

Per Dozen

No. 894M—Lemon Brass Turn Button Plate and Gong.$14.40

No. 894N Old Copper Turn Button Plate and Gong. 14.40

One Set in Box, with Screws

Weight 12 Lbs. Dozen

ALARM

Place Bell on Casing and the Strike on Door; Opening Door trips Hammer and Rings Gong; Turn Strike to one side when not in use.

Per Dozen

No. 894P—4 in. Diam.; Gold Bronzed Steel Bell, 3½x2⅝ in. Japanned Iron Base Plate, 1½ in. Strike.....$13.00

One in Box

Weight 13 Lbs. Dozen

GONGS

No. 894R—LOCOMOTIVE

Polished Bell Metal Gong; 4 to 8 in. Maple Hammer, 10 and 12 in. Liguum Vitae Hammer outside of Gong; Central Lever connected with and operated by a Bell Pull; Used as Signal in Boats, Mines, Elevators; Call and Alarm in School Buildings, etc.

Diam. In.	Weight Dozen, Lbs.	Dozen
4	25	$23.80
5	30	31.50
6	33	45 00
7	60	64.00
8	72	89 00
10	112	159 60
12	170	285 00

One in Box

No. 894T—HOUSE

Nichols Patent, Polished Bell Metal Gong, Japanned Iron Plate, Malleable Iron Hammer inside Gong; Operated by a Pull attached to outside of Door, connecting with Hammer Lever, or used as Signal on Dumb Waiters, various Calls, etc.

Diam. In.	Weight Dozen, Lbs.	Dozen
3	11	$17 50
4	15½	22.00
5	20	30 80
6	25	44 00
7	33	61.50
8	49	88 00

One in Box

See Page 545 for Farm, School, Church and Fire Alarm Bells

FOOT SCRAPERS

Per Dozen

No. 894V—Tyler Pattern; Steel, Japanned; Size 2½x5¾ in. $2.00

One Dozen in Box, with Screws

Weight 9 Lbs. Dozen

Per Dozen

No. 894W—Japanned Cast Iron, Size 2½x6 in.; Takes No 12 Screws $2.90

One Dozen in Box

Weight 5½ Lbs. Dozen

LETTER BOX PLATES

WROUGHT STEEL, POLISHED

Size 2½x6¾ in., with 1x4⅜ in. Opening

Per Dozen

No. 894W2—Lemon Brass.$12 00

No. 894W4—Old Copper... 12 00

No. 894W5—S. O. Brass .. 13.25

No. 894W9—Bower Barff . 13.25

Weight 5 Lbs. Dozen

Size 2⅝x8 in., with 1½x6 in. Opening

No. 894X2—Lemon Brass. 24.00

Weight 6 Lbs. Dozen

Half Dozen in Box, with Screws

CHAIN DOOR FASTENER

WROUGHT STEEL, POLISHED

Enables opening Door a few inches, but not so far that any one can enter, or manipulate it.

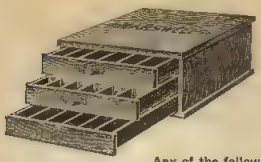
Per Dozen

No. 894Y2—Lemon Brass..$9.00

Half Dozen in Box, with Screws

Weight 1¾ Lbs Dozen

KEY ASSORTMENTS



—MARSWELLS—

Per Assortment

No. W892A—Consists of 30 Dozen Cut Keys and Blanks, assorted as follows: ½ Dozen each Nos. 892F1 to 892L7, inclusive; 1 Dozen each Nos. 892M1 to 892M4, inclusive, and 892P1 to 892P4, inclusive; 2 Dozen each Nos. 892N1, 892N2, and 892N3; ½ Dozen No. 892N4, Arranged in a Three-Drawer Sectional Cabinet, Size 14x11⅛x5 in. High, divided into Compartments, each marked with Key Number; Made throughout of White Wood, finished with Two Coats of Shellac.....$33.00

Weight 17 Lbs. Assortment

Any of the following Keys may also be ordered individually, exclusive of above Assortment

(Sager Genuine) 892B(66) | (Sager Genuine) 892C(77) | 100 (As Yale 8) 892D1 | 200 (As Sargent 2681-0) 892D2 | 250 (As R & E 752B) 892D3 | 255 (As R & E 852B) 892D4 | 300 (As Old Lockwood) 892D5 | 305 (As New Lockwood) 892D6 | 350 (As Nor-walk 84) 892D7 | 506 (As Penn 510B) 892D8 | 150 (As Corbin 99) 892E1 | 155 (As Corbin 97) 892E2 | 450 (As Read-ing 92H) 892E3

892F1 | 892F2 | 892F3 | 892F4 | 892F5 | 892F6 | 892H1 | 892H2 | 892H3 | 892H4 | 892H5 | 892H6 | 892H7 | 892H8 | 892H9 | 892J1 | 892J2

892K1 | 892K2 | 892K3 | 892K4 | 892K5 | 892K6 | 892K7 | 892L1 | 892L2 | 892L3 | 892L4 | 892L5 | 892L6 | 892L7

892M1 | 892M2 | 892M3 | 892M4 | 892N1 | 892N2 | 892N3 | 892N4 | 892P1 | 892P2 | 892P3 | 892P4

GENUINE KEY BLANKS

892-8 | 892-10 | 892-6 | 892-99 | 892-97

Per Dozen

No. 892-8—2 in. Long; For all Yale Standard Cylinder Locks and Night Latches.....$1.70

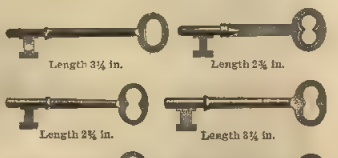
No. 892-10—1⅞ in. Long; For Yale Cabinet Locks, using ⅞ in. Cylinder.. 1.70

No. 892-6—2 in. Long; For Yale Padlocks, as, Yale No 745S, etc 1.30

No. 892-99—2 in. Long; For Old Corbin Cylinder Locks and Night Latches. 2.10

No. 892-97—2 in. Long; For New Corbin Cylinder Locks and Night Latches. 2.10

BIT KEY ASSORTMENTS



Per Dozen

No. 892T1—Skeleton Key Assortment; Consists of 3 Dozen Keys, ½ Dozen of each of 6 styles illustrated.....$0.50

Three Dozen in Box; Weight About ½ Lb. Dozen

ASSORTED KEYS

Cupboard | Cabinet | Trunk

Per Dozen

No. 892T2—Cupboard; Assorted Sizes and Bits.....$1.10

No. 892T3—Cabinet; Assorted Sizes and Bits..... 1.00

No. 892T4—Trunk; Six Assorted Changes 2.40

Six Dozen in Box

Weight About ¼ Lb. Dozen

CORN POPPERS

NO-FAULT

The sliding cover is locked or opened by means of the rod on handle and which is operated by the thumb

No-Fault. Cold rolled steel pan and cover, hardwood handle, with rod; size of pan 7⅝ x 6½ x 2¼ inches; capacity 1⅗ quarts; weight per dozen 12 pounds ..... per dozen, **$4.00**

One dozen in a case

PERFECTION

Fitted with coarse screen wire cover which enables operator to sift out half popped kernels of corn; the cover is locked or opened by means of the wire rod on handle.

Perfection. Cold rolled steel pan, screen cover metal bound, extra long wood handle; size of pan 9½ x 8⅛ x 2¾ inches; capacity 1½ quarts; weight per dozen 17½ pounds..... per dozen, **$6.00**

One dozen in a case

CORN POPPERS

ROUND

Wire pan, tin bound edges and wire braced; stamped tin cover, wood handle

No. 3. Round, blued wire pan; capacity 1 quart; weight per dozen 6¾ pounds.....per dozen, **$3.60**

SQUARE

Best quality steel wire pan and cover, both with tin bound edges; wire braced under pan; wood handle.

Quarts	1	2
Per dozen	$3.60	4.85
Weight per dozen, pounds	7	9½

Three dozen in a case

*PEANUT ROASTERS AND CORN POPPERS

IMPROVED NICKEL MINT

Equipped with two large power springs, located in body of machine, and affords ample power to operate both the peanut and popcorn cylinders at one time with ease, and without frequent winding.

The hopper cylinder has capacity of 3½ bushels per hour and peanuts can be dumped into drawer beneath when roasted without removing cylinder; a mixer insures evenness in roasting. Corn is popped in rotary popper which pops every kernel that can be popped. Raw corn is fed into the back end of drum and as it pops it is automatically ejected into showcase. Unpopped corn can be dumped by reversing the motion of the drum, without removing it from its position; is equipped with a boiler for warming peanuts, generator under boiler, long burner under peanut cylinder and five prong burner under popper. Has finished oak case, with glass partitions and sliding door for each compartment; hot peanuts on one side and flaked corn on other side. Painted in maroon and black, with gold lettering. "Buttered Popcorn" on one side, "Fresh Peanuts" on other side.

With steel axles, steel springs and wire wheels.

Length	45
Width	34
Height to top of dome inches	56
Height to top of tank, inches	71
Show case, popcorn part, inches	18¼ x 13½ x 20
Show case, peanut part, inches	18¼ x 12½ x 20
Popcorn drum, inches	10 x 15
Capacity boiler, quarts	8
Capacity per roast, peanuts, quarts	10
Flaked popcorn per hour, bushels	3½
Wheels diameter, inches	20
Rubber tires, inches	¾
Weight, pounds	550

Price on application

*Not carried in stock; will ship from factory.

LIME SQUEEZERS

YANKEE

The strainer holds the pits and pulp and only the clear juice is delivered into the glass. Jaws are held together with a hollow brass rivet. Strainer is cast solid to one of the jaws.

No. 18. Cast aluminum, polished, jaws open 2¼ inches, length 7 inches, weight per dozen 4 pounds. .....per dozen, **$16.00**

One dozen in a box

LEMON SQUEEZERS

LIDON

Solid cast aluminum cup plunger and lid. Movable cover with strainer lid. Pits and pulp are held in lemon cup, causing pure juice to be delivered into the glass.

No. 37. Cast aluminum, with japanned iron frame, weight per dozen 22 pounds.....per dozen, **$16.00**

One twelfth dozen in a box, twelve boxes in a case

Porcelain bowl and aluminum lid, with hard maple plunger, movable aluminum cover.

No. 38. With porcelain bowl, aluminum cover, japanned iron handles, weight per dozen 24 pounds .....per dozen, **$12.00**

One twelfth dozen in a box, twelve boxes in a case

No. 41. Made of hard maple with polished lignum vitae bowl and plunger, nickel plated hinge, weight per dozen 15 pounds ..per dozen, **$15.00**

*SHOP STOOLS

Has veneered hardwood seat set in steel ring, legs made of ⅜ inch diameter steel rods twined together, bolted up with ⅜ inch carriage bolts, metal parts old copper finish

Height, inches.	18	20	22	24
No. 213. Each.	**$3.20**	**3.40**	**3.60**	**3.80**
Weight, pounds	9½	10	10½	11

*Not carried in stock; will ship from factory

*SHOP STOOLS

Has hardwood veneered seat set in steel ring, heavy steel foot rest. Legs made of ⅜ inch diameter steel rods, twisted together, bolted up with ⅜ inch carriage bolts. Metal parts old copper finish.

Height, inches..	24	26	28	30
No. 214. Each.	**$4.80**	**5.00**	**5.20**	**5.40**
Weight, pounds.	10	10½	11	11½

*SHOP CHAIRS

With latest designed back, hardwood veneered seat set in steel ring, legs made of ⅜ inch diameter rods, twisted together, built up with ⅜ inch carriage bolts, metal parts, old copper with special finishes made to order, seats in dark golden quarter oak or birch mahogany. State finish when ordering

Height, in..	18	19	20
No. 31. Each.	**$5.50**	**5.50**	**5.50**
Weight, lb.	10½	11	11½

Height, inches.	21	22
No. 31. Each.	**$5.50**	**5.50**
Weight, pounds.	12	12½

*ICE CREAM TABLES

With pure white glass top and ¾ inch raised edge, will not stain or craze. Legs of steel rods twisted together, built up with carriage bolts, metal parts old copper.

Top diameter, inches.	20	24	30
No. 323. Each.	**$19.50**	**20.80**	**25.60**
Weight, pounds	42	46	50

Six in a crate

*Not carried in stock; will ship from factory.

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Jeux de roues et d'axes. Manivelles de locomotives massives et assemblées. Locomotives "FAIRLIE." Machines de Traction. Installations de Houillères. Installations d'aciéries. Chaudières de locomotives. Arbres pour Machines Marines de toutes sortes. Pièces venues de forge en fer et en acier.

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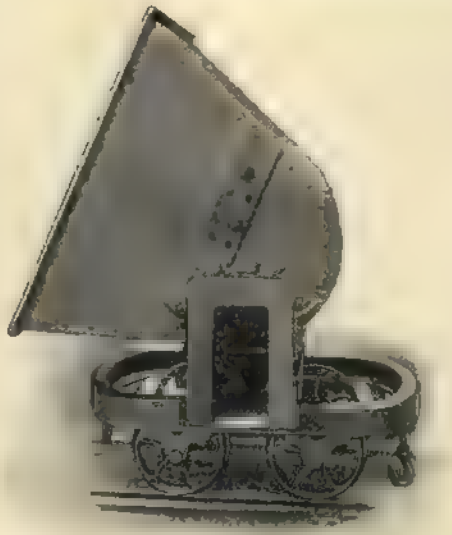

We supply different types and sizes of Steel Tipping Wagons, Platform and Sugar Cane Wagons, etc., for narrow gauge track. Designs and prices will be submitted on receipt of enquiries.

Nous fournissons différents types et modèles de wagonnets en acier, à bascule, à plate-forme, et wagons (canne à sucre) pour voies étroites. A réception de demande de renseignements nous fournirons dessins et prix.

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Enquiries are also invited for Points and Crossings, Turntables and all Light Railway accessories, of which we are actual makers. We quote keenest prices and guarantee best workmanship.

Nous serons également heureux de fournir prix et renseignements sur les aiguillages, croisements, plaques tournantes et accessoires pour chemins de fer légers, dont nous sommes fabricants. Nos prix sont les plus bas, notre main-d'œuvre la meilleure

Solicitamos consultas para cambios y cruzamientos, plataformas giratorias y todos los accesorios para ferrocarriles ligeros, de los que somos constructores. Cotizamos los precios más razonables y garantizamos la mejor mano de obra.

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HATCHETS

GRIFFITH (GERMANTOWN)

First quality, solid forged tool steel, hardened poll, tempered bit, sharpened ready for use, white hickory handles, polished.

GRIFFITH (GERMANTOWN), Polished. Lathing, Haines Pattern.

Adze eye, round neck, bell poll, polished, black finish on neck and under eye.

Per Dozen

No. 312—Width cut 2⅛ ins., lgth. over all 12¾ ins.; diam. head 1¼ in., wt. without handle, 17 oz. $63 00

Half dozen in a cardboard box; weight per dozen 18¾ lbs.

GRIFFITH (GERMANTOWN), Full Polished. Lathing, Underhill Pattern.

Hardened square poll, checkered head.

Per Dozen

No. 300—Width cut 2 ins., length over all 12 ins., wt. without handles 15 ozs. $60 84

Half dozen in a cardboard box; weight per dozen 17¼ lbs.

GRIFFITH (GERMANTOWN) Full Polished. Barrel.

First quality, solid forged tool steel, hardened poll, tempered bit, white hickory handles. Double slot; square neck.

Per Dozen

No. 288—Width cut 2¼ inches; length head 1 inch; length over all 11 inches. $49 35

Half dozen in a cardboard box; weight per dozen 14 lbs.

GRIFFITH (GERMANTOWN), Painted Blue. Produce Dealers.

Special top nail slot, square neck and poll, polished bit.

Per Dozen

No. 286—Width cut 2 in., lgth. head 5 in., lgth. over all 14 in. $47 40

Half dozen in a cardboard box; weight per dozen 12 lbs.

GRIFFITH (GERMANTOWN), Fire Bronzed. Rig Builders or Oil Derrick.

Octagon neck and round poll.

Nos.	1317½	1318	1318½
Size	1	2	3
Cut, in.	3¼	3½	3¾
Length over all, in	17½	18	18
Weight doz., lbs.	25	28	35
Per Dozen	$59 10	62 79	66 15

Half dozen in a cardboard box.

HATCHETS

GRIFFITH (GERMANTOWN), Fire Bronzed. Broad or Bench.

Single bevel, right hand, polished bit and head.

Nos.	361	362	363
Size	1	2	3
Width cut, in.	3½	4½	5
Lgth. over all, in.	14	14½	14
Wt. per doz., lbs	24	36	40
Per Dozen	$55 29	60 54	68 43

Third dozen in a cardboard box.

UNDERHILL, Full Polished. Lathing, Chicago Pattern.

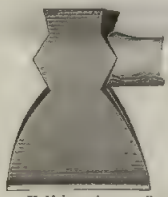
Solid forged crucible steel. Hand tempered and tested, hardened square poll, checkered head. White straight grain hickory handles.

Per Dozen

No. 400 Size 2, width cut 2 in., lgth. over all 13½ in., wt. without handle, 15 ozs. $72 00

Half dozen in a cardboard box; weight per dozen 17¼ lbs.

HURD'S, Gun Metal Finish.



Special Linemen's Pattern.

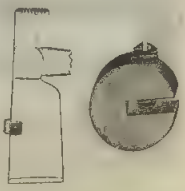
Crucible steel cap on poll carefully hardened. The blade is ground with a short bevel which gives it more of a cold chisel edge, and is specially tempered.

Per Dozen

No. 85—Width cut 4¼ in., lgth. over all 16 in., wt. without handle 2½ lbs. $72 00

Half dozen in a cardboard box; weight per dozen 47 lbs.

SHINGLE GAUGES



Per Dozen

No. 40—Made of cold rolled polished steel, ¾ in. diam., 7/16 in. thick, with slot 5/16 inch wide and 7/16 inch deep. $6 00

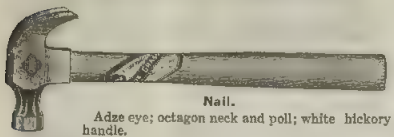
One dozen on a display card; half gross in a cardboard box, weight per dozen 18¾ lbs.

HAMMERS

—BLUE GRASS—

Drop forged from one solid piece of extra quality crucible tool steel; hardened face; hand tempered claws; extra quality second growth white hickory handles, polished and waxed.

—BLUE GRASS—
Full Polished with White Hickory Handle.

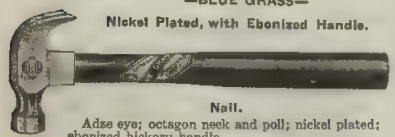


Nail.
Adze eye; octagon neck and poll; white hickory handle.

Nos.	47-2	47-1½	47-1
Size	2	1½	1
Diam. face, in	15/16	1	1⅛
Wt. (no handles), ozs	13	16	20
Wt. per doz., lbs	14	18	22½
Per Dozen	$46 50	48 00	49 50

Half dozen in a cardboard box.

—BLUE GRASS—
Nickel Plated, with Ebonized Handle.



Nail.
Adze eye; octagon neck and poll; nickel plated; ebonized hickory handle.

Nos.	247-2	247-1½	247-1
Size	2	1½	1
Diam. face, in	15/16	1	1⅛
Wt. (no handles), ozs	13	16	20
Wt. per doz., lbs	13	18	22½
Per Dozen	$60 00	61 50	63 00

Half dozen in a cardboard box.

—BLUE GRASS—Polished.

Nail.
Adze eye; plain poll; highly polished, black finish under claw, white hickory handle.

Nos.	400-2	400-1½	400-1
Size	2	1½	1
Diameter face, in	15/16	1	1⅛
Weight (no handles), ozs	13	16	20
Weight per doz., lbs	14	18	21½
Per Dozen	$39 00	40 50	42 00

Half dozen in a cardboard box.

HAMMERS

—BLUE GRASS—

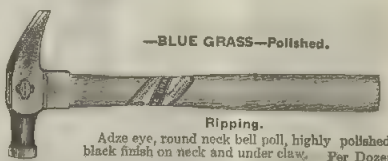
Drop forged from one solid piece of extra quality crucible tool steel; hardened face; hand tempered claws and peins; extra quality second growth white hickory handles polished and waxed.

—BLUE GRASS—Polished.

Nail.
Adze eye, round neck bell poll; highly polished, black finish on neck and under claw.

Nos.	401-4	401-3	401-2	401-1½	401-1
Size	4	3	2	1½	1
Diam. face, inches	¾	13/16	15/16	1	1⅛
Wt. (no handles), ozs	5	9	13	16	20
Wt. per dozen, lbs	7	10	13	18	22½
Per Dozen	$36 00	37 50	39 00	40 50	42 00

—BLUE GRASS—Polished.

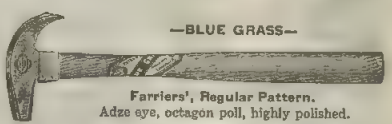


Ripping.
Adze eye, round neck bell poll, highly polished, black finish on neck and under claw. Per Dozen

No. 402—Size 1¼; diameter face 1 1/16 inches; weight without handles 16 ozs.; weight per dozen 22 lbs... $40 50

Half dozen in a cardboard box.

—BLUE GRASS—



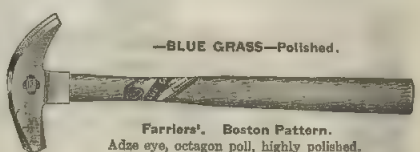
Farriers', Regular Pattern.
Adze eye, octagon poll, highly polished.

Per Dozen

No. 414—Diameter face, 7/16 inches; weight without handles 7 ozs.; weight per dozen 8 lbs. $37 50

Half dozen in a cardboard box.

—BLUE GRASS—Polished.



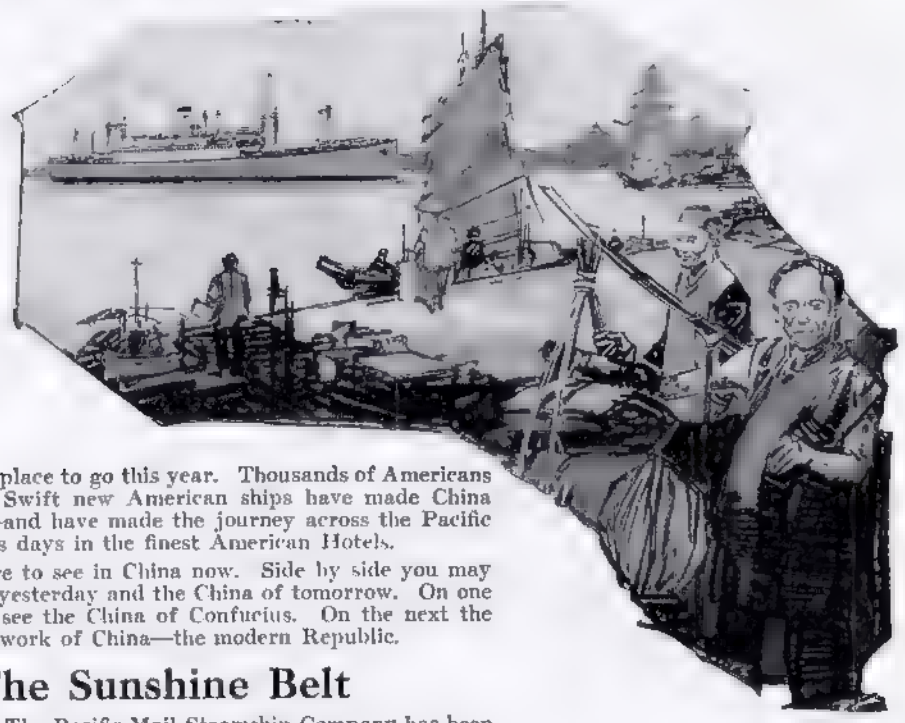
Farriers'. Boston Pattern.
Adze eye, octagon poll, highly polished.

Per Dozen

No. 415—Dia. face 9/16 in.; wt. (no handle) 12 ozs.; wt. per dozen 17 lbs. $43 50

Half dozen in a cardboard box.

This is the Year to see China



CHINA is the place to go this year. Thousands of Americans are going. Swift new American ships have made China more accessible—and have made the journey across the Pacific as comfortable as days in the finest American Hotels.

There is more to see in China now. Side by side you may see the China of yesterday and the China of tomorrow. On one corner you may see the China of Confucius. On the next the undeniable handiwork of China—the modern Republic.

The Sunshine Belt

For 73 years The Pacific Mail Steamship Company has been known in every port on the Pacific. Their service is unexcelled.

Now under their direction, new Government-owned ships have broken the speed record on the Southern route. The ships sail from San Francisco to Hawaii, Yokohama, Kobe, Shanghai, Hongkong, and Manila over the "Sunshine Belt." Stop-overs in any Eastern country may be arranged. A day's stop is made at Honolulu, giving the traveler sufficient time to see its picturesque life, to visit the beach at Waikiki, and view the near-by scenic wonders. Remember that this is the direct route to Japan and the Philippines, as well as to China. Every stateroom is on the outside. Beds have taken the place of berths. Running water, electric fans, electric radiators, and bed reading lamps equip each room. Most of the rooms have private baths.

You should know more about it. If you will send the information blank you will receive full particulars and descriptive literature. Address U. S. Shipping Board, Information Division 1551, Washington, D. C. If you cannot go abroad, clip the coupon anyway and urge some friend who may go to send it in. You will help to build your Merchant Marine.

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The
SINGLE-SIX
COUPE

ASK THE MAN WHO OWNS ONE

With the advent of the Single-Six, Packard brought about a complete reversal of fine-car manufacture.

Instead of limited production, Packard now applies the sound principles of larger production, and its resulting economies, to a car of the very highest quality.

Instead of high manufacturing costs, and lower values in the product, it accomplishes lower manufacturing costs, and far higher values in the product.

It is safe to say that no plant in the world, producing a car of Packard's quality, could go farther in this direction.

The Packard organization is skilled and experienced in the finest kind of work. Packard precision-machine equipment is not excelled.

Working to the high Packard standard of excellence, but on a basis of costs now analyzed and budgeted almost to the penny, Packard is enabled to embody in the Single-Six a height of value hitherto unattained in the field of fine cars.

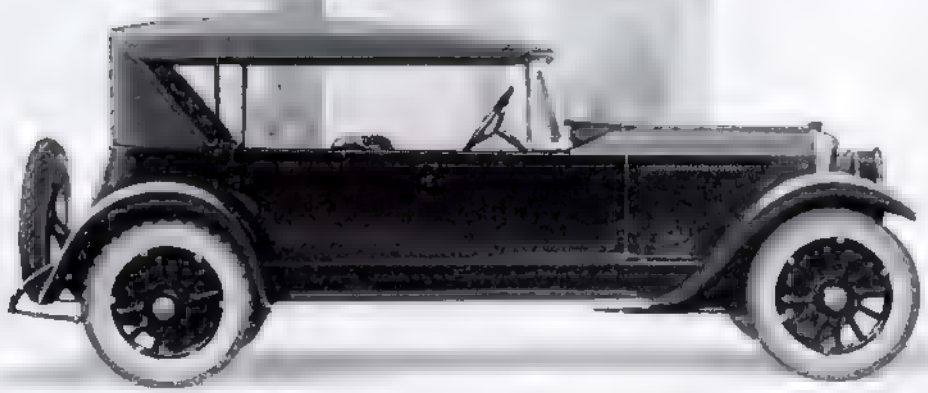
Five-Passenger Touring, $2485; Seven-Passenger Touring, $2685; Runabout, $2485; Sport Model, $2650; Coupe, $3175; Five Passenger Sedan, $3275; Seven-Passenger Sedan, $3525; Five-Passenger Sedan Limousine, $3325; Seven-Passenger Sedan Limousine, $3575; at Detroit

The Packard Twin-Six provides a quality of motoring beyond which it is not possible to go. Truck users know there is profit in hauling with Packard Trucks. All Packard upkeep is made still more economical by Packard standardized service

PACKARD

PAIGE

The Most Beautiful Car in America



Master of the Highway

Under the hood of the Paige 6-66 is a mighty 70-horse-power engine that performs its work with the ease and smoothness of a giant turbine. This vast reserve power means not only great performing ability but long life and uninterrupted service.

Remember, that the Paige 6-66, Daytona model, holds every world's stock chassis speedway record from 5 to 100 miles. Here is proof not only of superb performance but heroic strength and stamina.

You should ride in the Paige to learn the zest of ample power and perfectly balanced chassis construction. Then you will at once notice the benefits of 131 inches of wheel base and 61 inch rear springs.

And if you should desire to own one as you undoubtedly will—there is a pleasant surprise in store. For the Master of the Highway is now yours for $2195.

The New 6-66 Prices

6-66 Lakewood 7-Passenger Touring	$2195
6-66 Larchmont II, Sport Type	2245
6-66 Daytona, 3-Passenger Roadster	2495
6-66 Sedan, 7-Passenger	3155
6-66 Limousine, 7-Passenger	3350
6-66 Coupe, 5-Passenger	3100

All Prices F. O. B. Factory, Tax Extra Cord Tires Standard Equipment on all Models

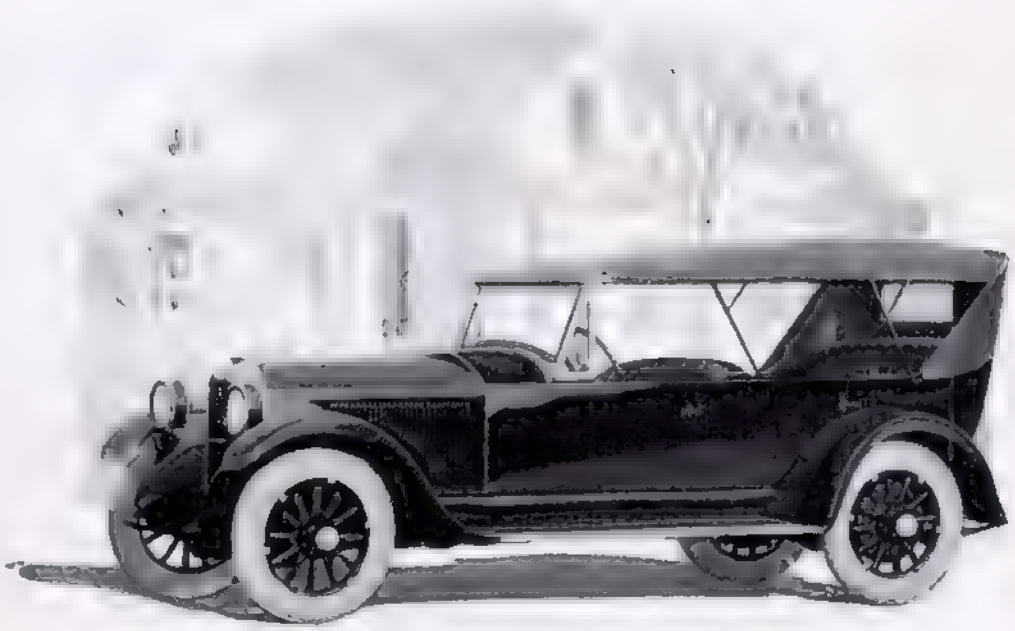
PAIGE

The new Series Paige 6-66 Enclosed Models are superbly beautiful examples of the coachmaker's art. They offer every luxury and convenience that the most discriminating motorist could desire.

And, most important of all, they promise years of care-free service with a world famous chassis that is the last word in six-cylinder engineering.

If you would know enclosed car motoring at its best, we recommend one ride behind the giant 70 horsepower engine which has practically banished vibration at any and all driving speeds. Won't you take that ride in the Sedan or Coupe at your first opportunity?

THE MOST BEAUTIFUL CAR IN AMERICA



The Master Now Costs $2195

The mighty 70 horsepower motor of the Paige 6-66 means absolute command of the Highway.

With its 131 inches of wheel base it matches in size as well as power those cars for which you have been accustomed to pay from $4,000 to $5,000.

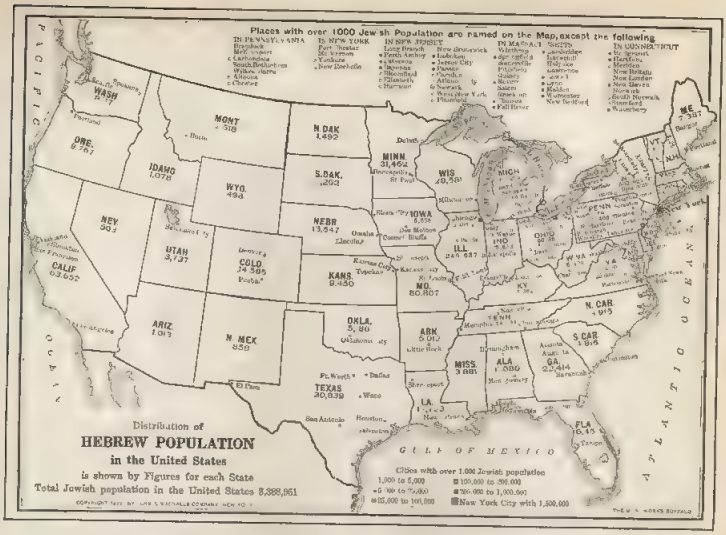
And it possesses the beauty of line, the fine appointments and finish that make it a car of distinction in any company.

The superb balance of the car—the perfect coordination of clutch, transmission and rear axle—guarantees not only delightful, care-free motoring, but years of it at minimum expense.

These are the true qualities of a champion. They are yours today for $2195 f. o. b. Detroit.

PAIGE

THE MOST BEAUTIFUL CAR IN AMERICA



JEWISH INCREASE IN AMERICA

POGROMS and other less violent forms of anti-Semitism in Eastern Europe have resulted in a progressively large Jewish immigration to our shores, and this influx, combined with a natural increase, has brought the Jewish population in the United States up from 1,777,185 (estimated) in 1907 to 3,390,301 (estimated) in 1918, an increase of 1,613,116, or nearly double, in eleven years. The total given on the map is for continental United States only. The Jews now constitute 3.22 per cent of the entire population of the country. Intermarrying but little with other stock, and rarely leaving the faith of their fathers, the Jews in the United States have preserved their racial homogeneity, as they have done in all countries since the great dispersion early in our era, and are found clustered mainly in the great centers of population. Approximately three-fourths of the Jews here are found in ten cities, according to the American Jewish Year Book, whose figures form the basis of this article and map, and about half of the entire number live in New York, where they constitute about 25 per cent. of the total population. The other nine cities leading in the number of Jewish inhabitants are Chicago, with 225,000; Philadelphia, 200,000, Cleveland, 100,000; Boston, 77,500; Baltimore, 60,000; St. Louis, 60,000; Pittsburgh, 60,000; Newark, 55,000, and Detroit, 50,000. It is interesting to note, however, we read in the Year Book, that while New York contains such a large quota of the Jews of the United States, it is not proportionately the most Jewish city. Chelsea, Mass., has a Jewish population of 13,000, or 28 per cent. of its general population.

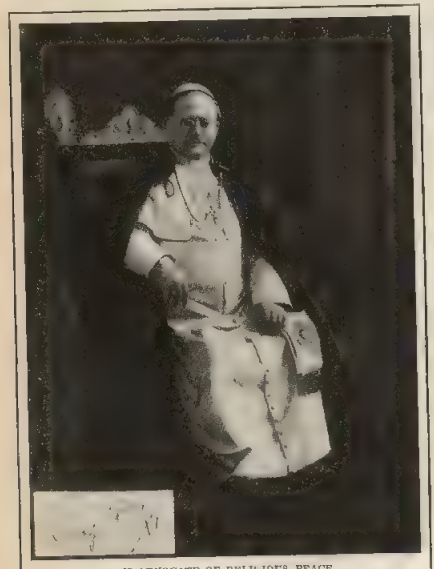
While New York State contains the largest number of Jews—1,603,923—Wyoming, in continental United States, contains the smallest quota, 498, and Alaska has only two more. Looking seaward, we find that there are 150 Jews in the Hawaiian Islands; 500 in the Philippines, and 200 in Porto Rico. Pennsylvania comes second to New York in its Jewish population, with 322,406, and then, in their order among the twelve States which contain 90 per cent. of the Jews in this country, are: Illinois, 246,637, Massachusetts, 189,671; Ohio, 166,361; New Jersey, 149,476, Missouri, 80,807; Connecticut, 66,862; California, 63,652; Maryland, 62,642; Michigan, 63,254; and Indiana, 25,833.

THE GOOD IN "WILD YOUNG PEOPLE"—Youth will have its fling, and some 2,000 years ago that wise old Roman, Cicero, remarked that "madness attends youth as prudence does age," and this, we are told, is about as far as just criticism can go against the youth of to-day. No child, it is said, is really bad, and the "wild young people of to-day" against whom so much stern criticism has been directed in recent months are all right at heart and no worse than their parents were a generation ago. It is no new topic, this talk of the folly of youth, says the St. Louis *Globe-Democrat*, remarking that—

"The world has been wild and youth could not help but take on the aspects and the manner of wildness. It is a symptom, not a disease. And it is passing. Has it worked a moral degeneration of youth? It has not. The average youth of to-day, girl or boy, is sound. The flamboyances of the day are superficial. They have touched the surface of youth with garish pigments, but they have not marred its soul. For somehow, the soul of youth is commonly steered safely through the perils that beset it. Much that we think is corrupting somehow does not corrupt. The world is filled with men and women, staid and respectable, who were wild things in their youth, and by far the greater part of the wild youngsters of to-day will be the respectable fathers and mothers of to-morrow. Most assuredly we need better homes and a number of other bettered influences, but after all 'there is a divinity that shapes our ends, rough hew them how we will,' and youth in particular is never without its guardianship."

THE PAPACY'S PROGRAM

PEACE WITH ITALY, reunion of the Roman Catholic Church with the Greek and Russian Orthodox Churches and a return of the Anglican Church to Rome are among the possibilities envisioned by some observers in the new accession to the Papacy. Whatever the general view may be, at least one Anglican paper thinks that the road to Rome may be opened



AN ADVOCATE OF RELIGIOUS PEACE

Pope Pius XI, who, as a member of the 'liberal school,' is said to hope for reconciliation with Italy and with the Greek, Russian and Anglican Churches

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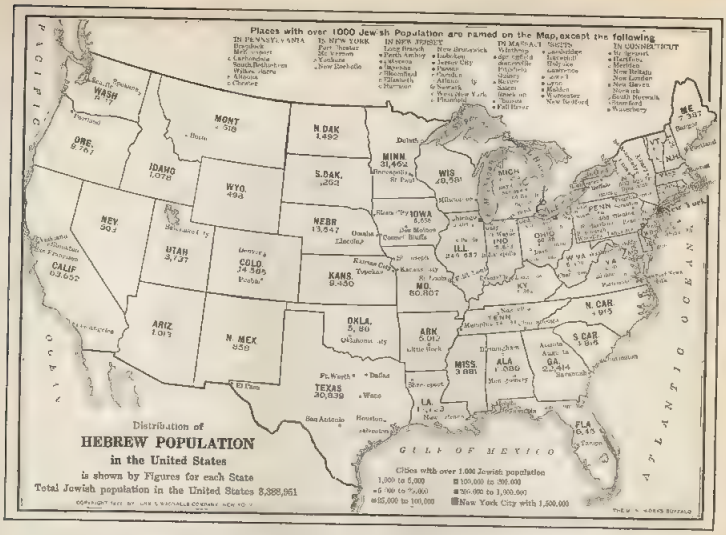


JEWISH INCREASE IN AMERICA

POGROMS and other less violent forms of anti-Semitism in Eastern Europe have resulted in a progressively large Jewish immigration to our shores, and this influx, combined with a natural increase, has brought the Jewish population in the United States up from 1,777,185 (estimated) in 1907 to 3,390,301 (estimated) in 1918, an increase of 1,613,116, or nearly double, in eleven years. The total given on the map is for continental United States only. The Jews now constitute 3.22 per cent of the entire population of the country. Intermarrying but little with other stock, and rarely leaving the faith of their fathers, the Jews in the United States have preserved their racial homogeneity, as they have done in all countries since the great dispersion early in our era, and are found clustered mainly in the great centers of population. Approximately three-fourths of the Jews here are found in ten cities, according to the American Jewish Year Book, whose figures form the basis of this article and map, and about half of the entire number live in New York, where they constitute about 25 per cent. of the total population. The other nine cities leading in the number of Jewish inhabitants are Chicago, with 225,000; Philadelphia, 200,000, Cleveland, 100,000; Boston, 77,500; Baltimore, 60,000; St. Louis, 60,000; Pittsburgh, 60,000; Newark, 55,000, and Detroit, 50,000. It is interesting to note, however, we read in the Year Book, that while New York contains such a large quota of the Jews of the United States, it is not proportionately the most Jewish city. Chelsea, Mass., has a Jewish population of 13,000, or 28 per cent. of its general population.

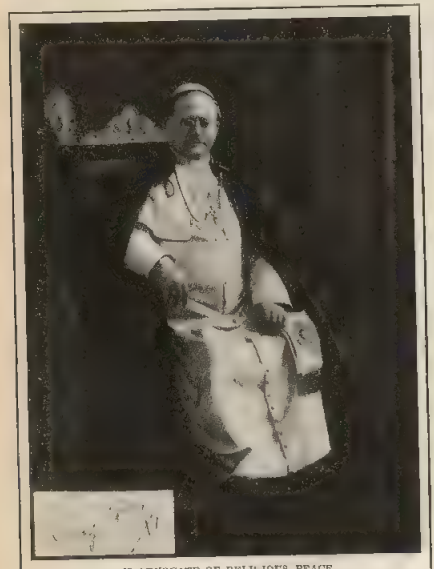
While New York State contains the largest number of Jews—1,603,923—Wyoming, in continental United States, contains the smallest quota, 498, and Alaska has only two more. Looking seaward, we find that there are 150 Jews in the Hawaiian Islands; 500 in the Philippines, and 200 in Porto Rico. Pennsylvania comes second to New York in its Jewish population, with 322,406, and then, in their order among the twelve States which contain 90 per cent. of the Jews in this country, are: Illinois, 246,637, Massachusetts, 189,671; Ohio, 166,361; New Jersey, 149,476, Missouri, 80,807; Connecticut, 66,862; California, 63,652; Maryland, 62,642; Michigan, 63,254; and Indiana, 25,833.

THE GOOD IN "WILD YOUNG PEOPLE"—Youth will have its fling, and some 2,000 years ago that wise old Roman, Cicero, remarked that "madness attends youth as prudence does age," and this, we are told, is about as far as just criticism can go against the youth of to-day. No child, it is said, is really bad, and the "wild young people of to-day" against whom so much stern criticism has been directed in recent months are all right at heart and no worse than their parents were a generation ago. It is no new topic, this talk of the folly of youth, says the St. Louis *Globe-Democrat*, remarking that—

"The world has been wild and youth could not help but take on the aspects and the manner of wildness. It is a symptom, not a disease. And it is passing. Has it worked a moral degeneration of youth? It has not. The average youth of to-day, girl or boy, is sound. The flamboyances of the day are superficial. They have touched the surface of youth with garish pigments, but they have not marred its soul. For somehow, the soul of youth is commonly steered safely through the perils that beset it. Much that we think is corrupting somehow does not corrupt. The world is filled with men and women, staid and respectable, who were wild things in their youth, and by far the greater part of the wild youngsters of to-day will be the respectable fathers and mothers of to-morrow. Most assuredly we need better homes and a number of other bettered influences, but after all 'there is a divinity that shapes our ends, rough hew them how we will,' and youth in particular is never without its guardianship."

THE PAPACY'S PROGRAM

PEACE WITH ITALY, reunion of the Roman Catholic Church with the Greek and Russian Orthodox Churches and a return of the Anglican Church to Rome are among the possibilities envisioned by some observers in the new accession to the Papacy. Whatever the general view may be, at least one Anglican paper thinks that the road to Rome may be opened



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Class of 1922, Davey Institute of Tree Surgery. Thorough scientific education plus practical skill trained into them, makes these young athletes master Tree Surgeons

A Million Dollar Business in Saving Trees

By Martin L. Davey, General Manager

THE business of The Davey Tree Expert Company is now running at the rate of one million dollars for 1922. It has taken more than twenty years of steady building to reach this volume. The Davey Company sells nothing but service—the services of carefully selected, highly trained, scientifically educated Tree Surgeons, who save trees without guessing or experiment, when they can be saved. This service is available almost everywhere in the eastern half of the United States. Nearly fifteen thousand clients have been served up to this time, many of them regularly.

Lieut. Colonel Frank K. Hyatt, treasurer of the Pennsylvania Military Academy, in a letter written to The Davey Tree Expert Company December 2, 1921, said:

> "Three of your men are performing tree surgery at the college and while I had only engaged them for two days, their work was of such character that I was compelled to hold them longer. In fact, they will probably be with us four or five days.
>
> I can seem to have thorough knowledge of their work and the foreman in charge is a very unusual man. It gives me pleasure to congratulate you on the character of work which your employees are doing."

This letter is typical of many hundreds of voluntary letters of commendation received by the Davey Company from its clients. They come regularly from every section served by Davey Tree Surgeons. It is significant that nearly every letter emphasizes the high-type men, their apparent skill and ability to do their work with intelligence and thoroughness and speed, but more particularly the fact that they are diligent and zealous workers.

The evolution of Davey Tree Surgery compared to the automobile

I do not presume to say that every last client is 100% satisfied. That would be too much to expect from a human organization. But more than 95% of the clients are fully pleased with both the work and the service. Nor would I claim that the Davey organization has always been as good as it is today, nor that the methods employed have always been as remarkably good and successful as they are now.

Davey Tree Surgery has been before the public nearly as long as the automobile, and its development has been almost parallel. You will easily recall the automobile of fifteen or twenty years ago. You recall how often it broke down, how many times it was laid up by the roadside? You remember its imperfect mechanism, its poor lighting, the hard job of cranking? Well, the fundamental principles of the automobile were the same then as now. The wonderful progress has been made in the refinements and the mechanical improvements. Then think of the really marvelous piece of machinery that you buy in the modern automobile.

Just so with Davey Tree Surgery. The fundamental principles were the same fifteen or twenty years ago as today. It was then relatively crude and imperfect. But honest effort and a determined purpose have produced refinements and mechanical improvements and scientific accuracy that are both marvelous and inspiring.

Only two or three men out of a hundred applicants are finally accepted

However, it is the human element of the Davey organization that I wish to describe. The high type men, their surprising efficiency, their zeal and skill and knowledge are the result of something back behind. That something is a policy that could produce no other result.

From time to time we need additional men. We run advertisements in the cities within a reasonable distance of our headquarters, giving our specifications. Many replies are received. An information blank is sent to each applicant, in which he must give his life history. If a hundred information blanks are returned, our experience has shown that not more than fifty seem to meet our requirements. The others are cast aside.

We then send our representatives to these cities and notify the fifty to report at a certain hotel for personal interviews. Out of the fifty men thus interviewed, we select not more than five who seem to be the right kind.

A regular training field where practical training is given to every man

These five are brought in to Kent (Ohio) for practical training, where we maintain a regular training field. These five are put through a thorough course of practical training for several weeks, at the end of which we select not more than two or three as qualified and made of the right stuff.

Thus, out of an original hundred definite applicants, we get not more than two or three. The process of selection, though it is severe, works wonders and gives us unusual men for the very important work which we do.

Those who finally pass are sent out into the field, always under the direction of master Tree Surgeons. They simply grow into the work and acquire almost intuitive skill.

A chief expert travels regularly from squad to squad

The [illegible] have a chief expert who spends all of his time traveling from squad to squad to check up on all the details of the work and the merit of each individual—to see that our high standard is consistently maintained. Occasionally he tells us that a certain man is not our kind and should not be in the Davey organization. That man is promptly dismissed. Very often he tells us that certain men are doing especially fine work and recommends advancement. Such men are promptly advanced.

So the really good men remain with us—and they like their jobs mighty well. Naturally enough, they give superior service.

Constant supervision by local representatives

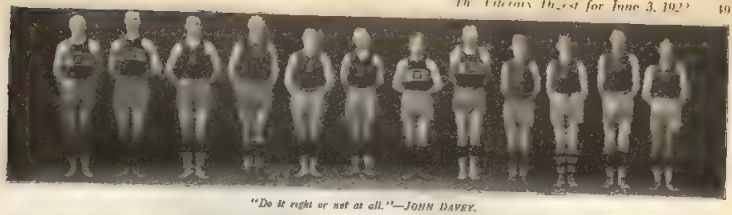
In addition to this, a number of squads are under the constant supervision of each local representative, of whom we have nearly thirty, whose highest self interest requires watchful care of the interests of each client, to see that he gets the maximum service.

More than this, we require periodic reports on every man in our field force. Our local representatives give detailed monthly reports on the foremen under their supervision. Each foreman gives a monthly report in great detail concerning each man in his squad. Every bit of information from every source about each individual goes into his personal service record. And every one knows that his service record is complete and strives to keep it good.

The only place in the world where the science of Tree Surgery is taught

When a man in the field force has reached a proper state of development, he is brought in to Kent to attend our resident school. This course covers two years—four months each year. We maintain a regular school with complete library and laboratory equipment and a corps of instructors with fine scientific training from various colleges and universities, plus special training in the Davey organization. There is no other school in the world that teaches Tree Surgery, so we maintain the Davey Institute of Tree Surgery as a matter of practical necessity.

In this school we teach only those things required to make real Tree Surgeons—nothing superfluous or unnecessary. The course includes Botany and Dendrology, Pathology and Entomology, Soils and the Feeding of Trees, Spraying



"Do it right or not at all."—JOHN DAVEY.

and Fruit-growing, and above all the Theory and Practice of Tree Surgery.

Every man in the Davey organization is a trained man—Davey trained

When a man has been with us long enough, has had the necessary amount of complete training, and has demonstrated to us his ability and qualifications, he is entrusted with the handling of operations—then and only then.

Every man in the Davey organization is a trained man Davey trained. If a man should apply to us for employment and say that he is an expert and understands all phases of the work, recommends himself highly—we say to him, if we should happen to need men, "All right, you may start in at the bottom and show us." Very few of them ever come and we are just as well satisfied. Our experience has shown us that not more than one in ten of these so-called tree men from the outside is the right kind of man. None of them are real experts when they come to us. All of them have many things to unlearn.

The Davey Research Department does the experimenting—the client's trees are never experimented upon

In addition to all these other things, we maintain a Research Department in charge of scientists of practical experience. It is their duty to work out every scientific and practical problem of Tree Surgery, as fast as possible. They have done wonderful work. They gather data from every available source, particularly from the experience of the Davey organization, in addition to original experiments. Every experiment is conducted in Kent by our Research Department and never on the trees of a client.

For instance, our Research Department has worked out a list of "forbidden trees," those which experience has demonstrated are not worth complete treatment or do not respond properly to treatment. On these trees our experts are permitted to do only first-aid work.

A national organization that carries with it an assured protection to tree owners

There is no other national organization in our field. There are, of course, many local imitators. It is an unfortunate fact that there are mighty few good ones among them. We would be happy if they were all good and well qualified. But who will supervise them? Who will train them? Who will provide the discipline that will hold them to high-quality service? Who will pass judgment on the results of their work?

There are quite a number, who have never had any contact with the Davey organization, who claim falsely that they are Davey men. There are some, unfortunately, whom we have been obliged to let go for obvious faults, who attempt to capitalize on the prestige of the Davey name, to our detriment and to that of the profession we have built up and have endeavored to honor.

The unseen things that make quality are only possible because of large volume

In the Davey organization it is the unseen things (rigid selection of men, practical and thorough training, supervision of chief expert and local representatives, resident school, Research Department, standardization of methods and organization discipline that make real quality and lasting merit. On a business of nearly three-quarters of a million dollars in 1920, we spent three times as [illegible] on these unseen things which make quality [illegible] made in profit. In spite of the depression,

JOHN DAVEY

Father of Tree Surgery

[illegible] gave to the world the science of Tree Surgery. Before the publication of [illegible] a of the scientific [illegible] ment of trees [illegible] ged. John Davey created the [illegible] fundamental principles [illegible] ...ercises and [illegible] ...ery improvement [illegible] ...radual outlines [illegible] ...ate into popular form [illegible] ...act that the tree is a living, breathing [illegible]

MARTIN L. DAVEY,

General Manager, who made of a father's dream a business reality and built the Davey [illegible] tion.

[illegible] ...ree functions just as truly [illegible]

This question of [illegible] mental importance [illegible] to exist as a vital, forward-[illegible] ...ess we protect what we have [illegible] up that which we have so far [illegible] We can not afford [illegible] ...much longer [illegible] America must [illegible] decline and [illegible]

we did a business of almost six hundred thousand in 1921 and spent four times as much on these hidden things that make quality as our profit amounted to. The business of the Davey Company is now running at the rate of one million dollars for 1922.

Davey methods have been standardized. Davey work is the same in Boston as it is in Chicago, the same in New York as in Kansas City, the same in Montreal as in New Orleans. Davey experts are of uniformly high type, all thoroughly trained, all carefully selected and developed. And best of all is organization discipline that requires and maintains a constant high standard down to the smallest details of work and service.

A tree-man may fool the public but he cannot fool us

It has seemed to me that the greatest thing the Davey organization does for its clients, over and above all these other things, is that of relieving the client of all worry and responsibility in the selection of the men who are to treat his priceless trees. A tree-man may fool the public most of whom know little about trees. But he cannot fool us. A man must be right in every sense of the word or he cannot go very far in the Davey organization.

We, who know Tree Surgery values, select the men to whom this work of very great importance is to be entrusted. We know they are right and worthy of your confidence and our confidence or we would not send them to you. They come to you with our seal of approval.

They carry with them the most priceless possession we have—our reputation. We are as jealous of that reputation as a good woman is of her good name. Business and professional success are merely results. The causes are behind the scenes. And that is the reason for this little story of the Davey organization.

THE DAVEY TREE EXPERT CO., Inc.,
[illegible] Elm Street, Kent, Ohio.

Branch offices with telephone connections: New York, Astor Trust Bldg. Fifth Ave. and 42nd St.; Boston, Massachusetts Trust Bldg.; Philadelphia, Land Title Bldg.; Baltimore, American Bldg.; Pittsburgh, 331 Fourth Ave.; Buffalo, 310 Franklin St.; Cleveland, Hippodrome Bldg.; Detroit, General Motors Bldg.; Cincinnati, Mercantile Library Bldg.; Chicago, Westminster Bldg.; St. Louis, Central National Bank Bldg.; Kansas City, Scarritt Bldg.; Montreal, 252 Languichiere, West

Davey Tree Surgeons are near you—if you live between Boston and Kansas City. They are easily available and handle operations of any size, large or small. Write or wire Kent, Ohio, or nearest office.

DAVEY TREE SURGEONS

Every real Davey Tree Surgeon is in the employ of The Davey Tree Expert Co., Inc., and the public is cautioned against [illegible] representing themselves [illegible] connected with the Davey Company and not with an individual [illegible] ...ed-out employees. Every owner of trees [illegible] ...should insist on employing only Davey men. Any one who claims to be a Davey man, or pledges [illegible] ...should be reported [illegible] ...at once to the Main Office at Kent, Ohio.

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Through the accuracy of this Dayton Moneyweight Scale thousands of hardware merchants are securing their full profits on these articles.

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Oxidized iron platform 16" x 16".

Supplied with scoop, also wire rack.

"On and Off" Scoop lever balances scale when either scoop or wire rack is used.

Supplied with Total Adder.

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Counter space, 24"x20".

Base 5¼" high.

Regular finish gray enamel.

Charts:

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H—Graduated every ounce, price values 4c to 60c per pound.

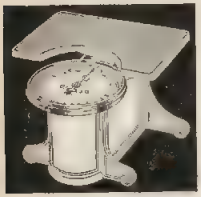
M—Graduated every ounce, price values ranging from 2½c to 40c per pound.

T—Graduated every ounce, price values ranging from 10c to 60c per pound.

AA—Graduated in ounces, price values ½c—5c to 75c per pound.

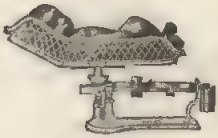
DAYTON

Scalemakers on a Large Scale



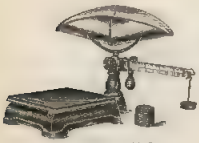
The DETECTO
A bath room scale that registers every lb. up to 300 lbs.

The ENTERPRISE
Spring Scale
For butchers, markets, etc.



The PERFECTION
For weighing the baby

The GROCERS' COUNTER SCALE



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For hardware and factory use.

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N. Y. Showroom, 71 Warren St.

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Toledo Scale Co., Toledo, O.
Triner Scale & Mfg. Co., 2714 W. 21st, Chicago, Ill.
Troemner, Henry, 911 Arch, Philadelphia, Pa.
Turnbull's—See Landers, Frary & Clark
Union—See Jacobs Bros. Co.
Universal—See Landers, Frary & Clark

SCALES, Grocers'—See Scales, Counter

SCALES, Hardware—See Scales, Counter

SCALES, Household

(See also Scales, Counter)

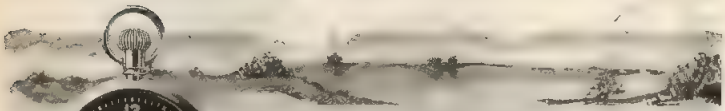
American Cutlery Co., 764 Mather, Chicago, Ill. "National"
Chatillon (John) & Sons, 85 Cliff, New York, N. Y. "Foster Bros."
Dayton Moneyweight Scale Co., Dayton, O.
★For descriptive data of the above, see index on page 6
Detecto—See Jacobs Bros. Co.
Fairbanks Co., 416 Broome, New York, N. Y.
Foster Bros.—See Chatillon (John) & Sons
Hanson Bros. Scale Co., 825 N. Ada, Chicago, Ill.
Household—See Standard Scale & Supply Co.
Jacobs Bros. Co., 225 Wallabout, Brooklyn, N. Y. "Detecto." "Perfection"
★For descriptive data of the above, see index on page 6
Landers, Frary & Clark, New Britain, Conn. "Universal"
National—See American Cutlery Co.
Perfection—See Jacobs Bros. Co.
Schwartz (M.) & Sons Mfg. Co., 908 W. Chicago Av., Chicago, Ill.
Standard Scale & Supply Co., 1681 Liberty Av., Pittsburgh, Pa. "Household"
Triner Scale & Mfg. Co., 2714 W. 21st, Chicago, Ill.
Universal—See Landers, Frary & Clark

SCALES, Letter—See Scales, Postal

SCALES, Milk

American Scale Co., Kansas City, Mo.
Dayton Moneyweight Scale Co., Dayton, O.
★For descriptive data of the above, see index on page 6

Ingersoll
Prices Reduced!



Yankee Radiolite
now $2.50

Waterbury Radiolite
now $5.00

Midget
now $3.00

Ingersoll Yankee—Enlarged View

—And in Every Walk of Life

Ingersoll Yankee
now $1.50

DOCTOR, lawyer, merchant, chief—butcher, baker, candle-stick maker—every man, woman and youngster should have an Ingersoll Watch.

Millions already possess Ingersolls. They have been bought by tens of millions.

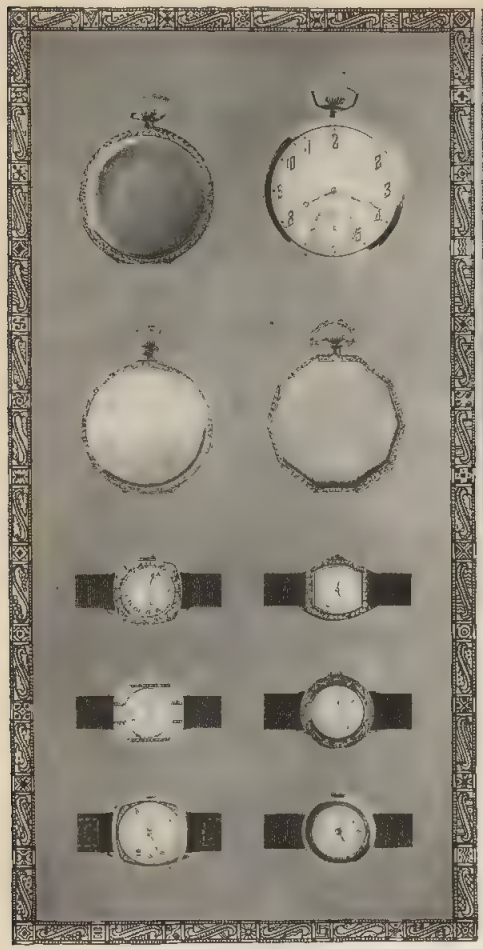
Around the world, for rich and poor alike, Ingersoll Watches keep good time—and good faith. Sturdy, reasonable, reliable, they carry a sound guarantee.

For work and recreation, summer time and all the time even if you have a high-priced watch—it is well to own an Ingersoll time-keeper.

At golf, tennis, motoring—on field or stream—you need an Ingersoll.

One need not worry about loss, theft nor breakage. The cost of a new Ingersoll is so small, comparatively. Get one before your vacation.

INGERSOLL WATCH CO., Inc.
NEW YORK SAN FRANCISCO CHICAGO



A few of the many rich examples of case making designed and fashioned by the Wadsworth artists. The illustrations show the cases considerably smaller than actual size

AS the spirit of Christmas thrills us anew with thoughts of giving, it is then that we wish to remember some dear one with a gift of fitting sentiment.

Such a gift is not chosen lightly, but with a care as thoughtful as the sentiment which inspired it. What then is more in keeping with the sincerity of your regard than a watch—a reliable movement in a beautiful Wadsworth Case?

In the watch cases pictured here you see some of the newest and finest examples of Wadsworth artistry—cases which for beauty and exactness of fit have never been surpassed. Among the many exquisite creations of the Wadsworth artists you will

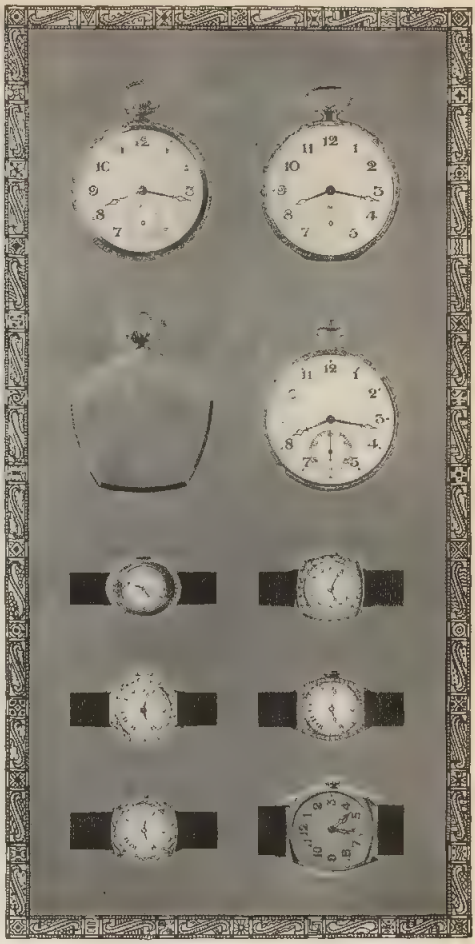
Wadsworth Cases

find one well fitted to bear your message of affection.

For more than thirty years Wadsworth Cases have dressed and protected the leading watch movements. Many of the most beautiful, most popular watch-case designs with which you are acquainted are Wadsworth creations.

When you buy a watch select a movement that your jeweler will recommend and see that it is dressed in a Wadsworth Case. The Wadsworth name in a watch case is your assurance of correct design, finest material and perfect workmanship.

THE WADSWORTH WATCH CASE COMPANY
Dayton, Kentucky, suburb of Cincinnati, O
Case makers for the leading watch movements



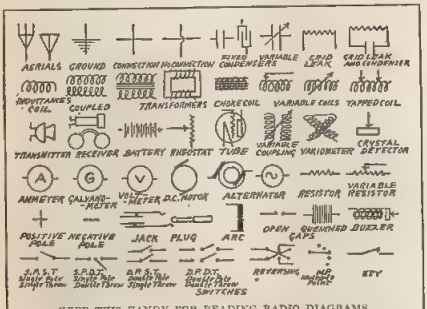
Illustrating the character of an artistry which builds beauty and endurance into the finest watch cases of today. The illustrations show the cases considerably smaller than actual size

Make Watches Beautiful

through the Post Office Department all receiving stations should be licensed and the receiving apparatus rented at a fixt rate which would insure a sufficient revenue to maintain a high-class program of entertainment from the transmitting station, or a service charge made for the programs furnished."

The situation has been well summarized editorially in *Radio* (San Francisco), which takes the broad view that radio broadcasting is a public utility:

"Many people are raising the question as to who will maintain radiophone broadcasting stations in the future. The answer is found in the recommendation of the Washington Radio Conference 'that radio communication is a public utility,' and in the fact that definite bands of wave-lengths have been set aside for broadcasting from government stations and public institutions. The broadcasting of information of all kinds will soon become as much of a public necessity as are good roads. The inaugural address of the next President of the United States will undoubtedly be heard by the people of the country by radiophone. The Borough of Queens, New York City, is considering the installation of a municipal station. On every hand there are signs to show that the broadcasting of the future will be conducted as a governmental function, or at least as a governmentally regulated monopoly.



KEEP THIS HANDY FOR READING RADIO DIAGRAMS.

RADIO SYMBOLS

IN THE PRESENTATION of radio circuit diagrams, or 'hookups' certain symbols are universally employed in order to make it unnecessary to cumber the drawing with descriptive words or even letters. But of course if one has not learned the import of the symbols, the drawings are unintelligible. For the benefit of readers whose interest in radio is of recent origin (some of whom have written to ask fuller interpretation of diagrams hitherto published), we present here a group of the symbols commonly employed, excerpted from *Popular Radio* (New York), regarding which Mr. A. Hyatt Verrill made this explicative comment:

"The symbols used in radio are comparatively few and are shown in the accompanying illustration.

"Do not, however, make the mistake that was made by an amateur who, seeing the symbols representing the primary and secondary coils of an inductance coil drawn side by side, constructed his coil in that way and wondered why his set would not work!

"Inductances are represented side by side in the diagrams merely to avoid confusion of lines, and the two windings should invariably be placed one over the other.

"Also, bear in mind that diagrams of wiring are always shown with the wires running straight, parallel and with square corners, and with a great deal of space between them. This is done for the sake of appearances in the drawing, ease in drafting, and to render 'reading' the diagrams easier. In following such a diagram the wires may be carried at any angle, in curves or around corners and may be placed much closer together than is indicated. If you should examine a ready-made set you would find instruments and wires packed closely together with the wires far from straight and parallel. Indeed, it is an unwise plan to carry wires parallel for any distance, as there is always a tendency to 'induced' currents when this is done. The main points to remember are to cross wires as seldom as possible; to keep them well separated where they cross; to keep them as short as possible; to have them well insulated and to make good connections."

RADIO FROM A RING

INGENIOUS YOUNG AMATEURS continue to vie with one another in the production of midget radio receiving sets. In the Springfield (Mass.) *Republican*, Mr. Avery E. Lord tells of the work of a New Jersey boy whose latest product is made in the form of a ring to be worn on the finger. It is of course to be understood that diminutive sets such as this use a crystal detector, and therefore can not be expected as a rule to bring messages from stations more than fifteen or twenty miles away, with occasional extension by five or ten miles under exceptionally favorable circumstances. But there is perennial interest in the fact that so tiny a mechanism can be made to interpret any radio messages whatsoever, even with the aid of an aerial

Here is Mr. Lord's account of the ring receiver:

"A radio receiving set so efficient that it can receive music, speeches or spark messages as well as many large-sized sets, altho it is built in the form of a ring and is no larger than many of the little finger rings now affected by many persons, is what Alfred G. Rinehart, 19, of 527 Morris avenue, Elizabeth, N. J., claims for a set which he has just completed. At a demonstration given at his home recently, Mr. Rinehart's claims seemed to be justified, for F. Reed Campouilliez, at WJZ, was clearly heard singing from the 'Messiah,' and not a word or a note of the accompaniment was missed. The tiny set took the words and music from the air and gave them out through the phones as loudly and as clearly as an ordinary telephone message under good conditions.

"The entire set, outside of the slender coil, slightly more than an eighth of an inch in diameter, which is smoothly covered with sealing wax and encircles the finger, measures but 1 by ⅝ by 7-16 inches. These measurements include the brightly polished bakelite panel on which are mounted a diminutive crystal detector of the 'cat-whisker' type, and a small switch control which is connected with the coil by nine taps, and which permits as many different tuning adjustments by means of a movable hand which makes connections with any one of nine tiny brass studs neatly arranged in the form of a semicircle.

"The ring set seems to eliminate interference to a remarkable degree, and concerts or code messages can be received over it without any difficulty due to imperfectly heard passages under normal conditions. With the inner coil-taps, a wide range of tuning is possible. During the test, WJZ at Newark could be tuned out completely, without a trace of it being heard, and a code message which was being transmitted, picked up, merely by moving the switch control on the ring over one point.

"Although the inventor of this ring set recently built a 'Domino Midget' set measuring only 1¾ by 1 by ⅝ inches, he has used an entirely different hookup for his ring set. With this miniature receiving apparatus he can receive messages transmitted on wave lengths up to and including 550 meters.

"To emphasize the efficiency of his tiny set, the inventor disconnected it from his two-strand, 75-foot aerial and water-pipe ground and went outdoors, connecting the set to the metal stem of an ordinary umbrella for an aerial, and using a screw-driver stuck into the earth for a ground. With this outfit the listeners heard numbers sent out by WJZ, faintly, but loud enough to distinguish the tunes and hear the operator signing off."

RADIO · DEPARTMENT

IS RADIO ONLY A PASSING FAD?

WONDER AT THE VERITABLE EPIDEMIC of interest in the new radio art is pretty sure to be followed whenever radio is being talked about—and it is being talked about wherever people congregate—by the question as to whether this interest will last. The consensus of opinion appears to be that, whereas there will of course be many modifications of present conditions, and doubtless quite unexpected developments, yet the value of radio from the standpoint both of entertainment and substantial public information and education is far too great to permit doubt of the permanency of this new public utility.

Meantime it is of interest to read such a summary of the present status of the art as is given in *Radio Digest Illustrated* (Chicago). One can hardly doubt that a movement which has attained such proportions in so short a time meets a genuine public need:

"Radio which started as a scientific experiment only, recently has become a craze, but now certainly it is rapidly approaching the status of a business, or perhaps a profession.

"Even the experts do not dare estimate the number of receiving stations, altho 600,000 has been hazarded as a fair guess, most of them saying that the output of the manufacturers only is the limit to which receiving stations will go. It is known, however, that there are 18,690 sending stations to-day; this surprising figure was reached on April 15 and includes commercial, ship and amateur stations licensed by the Department of Commerce. Of the total, 15,907 are land stations, of which 678 are commercial, the balance being amateurs and special amateurs.

"There are ten transoceanic companies operating in this country. One hundred and twenty other stations are licensed to operate from city to city, while 36 'PG' stations are licensed to communicate from the coast to ships.

"The number of limited commercial stations commonly called broadcasting stations, which send out radio telephonic entertainment, market and weather reports, reached 182 on April 15, but other applications are on file and the daily mail brings dozens of them. There were only 67 such stations on March 10, showing an increase of nearly 3½ a day. Thirty-two were issued during the past week. Special stations total 534, comprising 213 experimental, 123 technical, mostly colleges, and 198 special amateur stations. There are to-day 15,031 regularly licensed amateurs transmitting, and of course receiving also, all of whom are licensed through their district inspectors in the nine districts into which the country is divided for their convenience.

"American ships to the number of 2,783 are carrying radio and are listed as ship stations; this number is nearly four times the total ships which were licensed before the war, which indicates the growth of radio on the high seas.

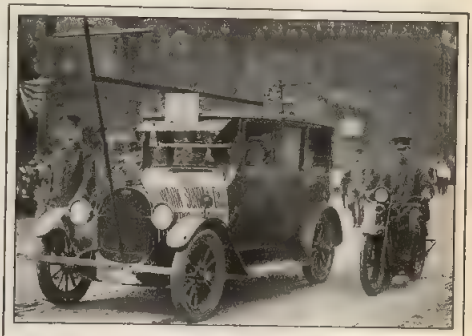
"The radio telephone is rapidly coming into ordinary business life:

"Among the 32 new broadcasting stations licensed recently, Los Angeles secured eight, including one license for a laundry and dye works.

"St. Louis opened three stations, one of which is operated by the local Chamber of Commerce; six newspapers took out broadcasting licenses, bringing the total number of daily papers sending news and entertainment to 24.

"Of course there are many radio corporations, electrical manufacturing equipment companies sending entertainment, but there are also hardware and departmental stores, oil, stone and motor dealers, as well as chambers of commerce, municipalities, churches and colleges."

The Newark *Call*, which has been making a new practical use of the radiophone that is shown in the accompanying illustration, tells as follows of the interest in American broadcasting methods that has been manifested in England, and of the British attitude toward what they regard as a quixotic project:



A NEW PRACTICAL USE OF THE RADIOPHONE

Reporters of the Newark (N. J.) *Sunday Call* riding about the city and reporting a parade directly to the *Call* office by phone.

"English analysis of the radio situation in this country is that we have gone 'wireless crazy' and have lost all perspective of the basic economic principle of broadcasting. While admitting that the United States has opened to the world another new development and has done tremendous things with radio in the last half-year, English observers who have come over to this country to make a survey of our achievements insist that the principle along which we have been working is off balance because it is economically unsound.

"Britishers refuse to be taken on flights of fancy by the boundless public utility of broadcasting as a great medium for the dissemination of information and tenaciously cling to the theory that unless a charge for the service as now given can be made at the receiving end the cost of maintaining the service will continue to be a constant and increasing drain upon the transmitting agency with no revenue to offset it.

"In England, the control of radio receiving and transmitting stations, both amateur and commercial, is under the Post Office Department which has hobbled the amateur with such drastic restrictions that the development of the radio science has not been as advanced as on this side.

"The English press, attracted by the wide-spread interest in this country, has carried the awakening message to the British public, and a noticeable stir of radio enthusiasm is the result. However, there has been no broadcasting in England, due largely to the fact that the English interpretation of a broadcasting service is that it should be self-supporting.

"To make broadcasting self-supporting the Britishers believe that one special agency should be licensed to broadcast, and that

A SIMPLE VARIOMETER RECEIVING SET

MUCH OF THE COMPLAINT about interference that comes from novices in radio receiving is due to the use of tuning devices that are not sufficiently sensitive. In the usage of the experienced amateur, the type of tuning coil known as a variometer has pretty generally taken the place of the single-tapped induction coil and the familiar loose coupler. A tapped coil serves very well where it is not necessary to distinguish too closely between wave systems; but may prove inadequate when really nice discrimination is in question. The variometer, consisting essentially of two coils, one of which rotates on its axis within the hollow of the other, permits the most infinitesimal gradation of adjustments. In one position, the two magnetic fields coalesce and mutually strengthen each other; as the inner coil is rotated, the mutual relations of the magnetic fields are indefinitely modified and at 180 degrees they are fully opposed. The inductance of the antenna system is thus shifted from minimum to maximum, tuning for waves of all available lengths, by merely turning the knob attached to the axis of the "rotor" coil.

Some of the most elaborate radio receiving outfits on the market use this system. One that has three stages of audio-frequency amplification has carried automatic control of rheostats and condensers to such a stage that nothing whatever is required of the perator who would "listen in" but to turn the pointer on a single dial, thus operating the variometer, guided solely by results. You have merely to turn the pointer until the sound you wish to hear is loudest and clearest—and then sit back and listen. Once the pointer is adjusted, it may be left there, and if you wish to listen to the same station on another evening, all that is necessary is to push a button, just as you turn on an ordinary electric light.

An article by Mr William F. Crosby, in *The Modulator* (New York), tells how to make a very simple set with variometer for tuner. Here is the description:

"By referring to the accompanying diagram it will be seen that this set is about as simple as it is possible to make a set that will really work well. The set consists primarily of a good make of crystal detector, a variometer and a small variable or fixt condenser. The phones and the wire for the aerial will also have to be purchased.

"It is best to buy the variometer, altho it is not much of a job to make one from two cardboard tubes. One of these tubes will have to be small enough so that it may be turned all the way around inside the larger one. The large one will have to be about three and a half or four inches in diameter and about two and a half inches long. These two cardboard tubes should be given a couple of coats of shellac and then wound with about 40 turns of No. 24 cotton covered wire. A shaft will have to be run through the center of these tubes in such a way that the large tube is stationary and the small one turns. It will simplify matters if, when winding the wire, a space of about a quarter of an inch is left in the middle of each of the tubes to allow the insertion of this shaft. The shaft should be made of brass and it may be left long enough so that a knob of some sort can be fastened on the outer end.

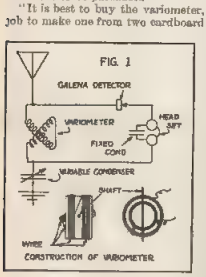


FIG. 1
CONSTRUCTION OF VARIOMETER

"This variometer will not be quite as good as the ones purchased in the radio stores, because the windings will have a greater degree of separation, but it will work good enough for a set that is only going to be used for a short-distance reception.

"The variable condenser had better be purchased, as this is very difficult to make. A small fixt condenser may also be used in this place, but the variable condenser will give the best results, as it allows the operator to tune the set better. Another small fixt condenser should be connected across the receivers.

"After the parts are all together, wire them up as shown in Fig. 1. The whole set may be mounted in a small cabinet if the maker so desires. All connections should be soldered and ordinary No. 18 bell wire will do for wiring."

MORE AND MORE INDOOR AERIALS

REPORTS CONTINUE TO COME from Washington of experiments by the Bureau of Standard experts with various types of loop aerials. We learn of one aerial only nine inches across, and another about six feet, both of them said to be capable of intercepting messages from across the ocean. At this season in particular the loop aerial makes appeal because of its virtual elimination of "static." And it is not the government experts alone who are experimenting. Many amateurs in all parts of the country are testing the loop in one form or another. The New York *Globe* tells of apparently successful experiments to extend the application of the indoor aerial to the receiving outfit using only a crystal detector. Needless to say, the Bureau of Standards experiments, and those of most amateurs, have been made with vacuum tube (triode) detectors. Indeed, it has been accepted almost as axiomatic that it is necessary to employ amplifying tubes (usually involving several stages of radio frequency), to make amends for the relative insensitiveness of the loop. But this necessity does not seem to apply to the form of loop used by the experimenters to whom *The Globe* refers:

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NINE-INCH COIL HEARS EUROPE

This coil antenna, made at the Bureau of Standards, at Washington is but nine inches square yet when hooked up with extremely delicate receiving apparatus will detect radio signals from Europe.

"Amateurs of Elizabeth, N. J., which is a hotbed of radio activity, are frankly skeptical of the experts' repeated statements that indoor aerials won't work with crystal sets.

"Martin J. Corcoran, principal of the Boys' Vocational School, and one of Elizabeth's foremost radio experimenters, is one of them. Mr. Corcoran, after trying out both kinds, announces himself as in favor of the indoor variety for crystal as well as bulb sets. He states that his conclusion is based on his own experiments and trials made in Elizabeth by his pupils.

"He explains that indoor aerials are found to be far superior to outside ones in cases where conditions are not ideal for the outdoor antennæ, where long straightaway stretches of wire can not be erected or where tin roofs or other objects which lessen an outside aerial's efficiency can not be avoided.

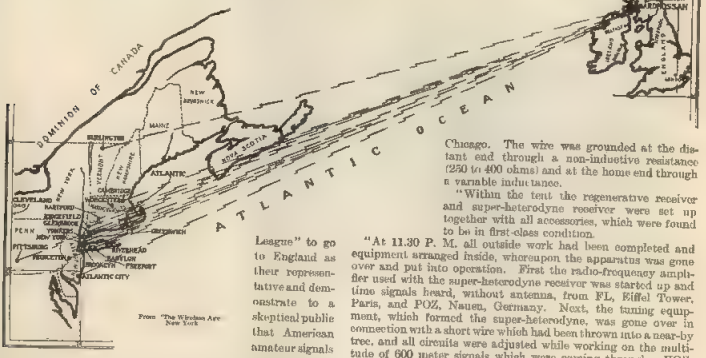
"Mr. Corcoran reports that in his own case, a continuous wire, 144 feet long, strung in four lengths in his attic, with one end leading to his set, gives him better results than he obtained with a 200-foot outside aerial. He states that he finds the efficiency of the indoor aerial is increased by running a loop from the free end to the section of wire leading from his receiving set."

RADIO · DEPARTMENT

RADIO AMATEURS SPAN THE ATLANTIC

THE AVERAGE RADIO AMATEUR may wisely be admonished to content himself with a limited range of transmission; but this is by no means to say that the exceptional amateur may not properly have long-distance ambitions. In an article in *The Wireless Age* (New York) which bears the suggestive title of "The Far Call," Mr. Paul F. Godley tells us that there are in America 20,000 radio amateurs whose interest in the transmission of small radio signals over greater and greater distances "transcends all else."

Mr. Godley should know, for it was he who was selected last autumn by a group of these amateurs constituting themselves "The First National Convention of the American Radio Relay League" to go to England as their representative and demonstrate to a skeptical public that American amateur signals could be registered across the Atlantic. Mr. Godley's task—which had for him "the romance of strange, fascinating, delightful adventure; a vision of the spirit of youth, vital eagerness, far-darting imagination"—began with the selection of the amateurs who were to send the signals from America that he purposed to catch up over there in Scotland



From "The Wireless Age" New York

"On November 1 (1921), the preliminary tests, which all were invited to enter, began, and the entrants transmitted on schedule each night up to November 5 in an effort to cover the distance of 1000 miles overland, failing which they were to be disqualified for participation in the main event. All my equipment was set for action, the super-heterodyne receiver being fed by a three-foot loop antenna. And what interest there was! Seventy-eight star stations scattered through every radio district worked to schedule with clock-like precision. Station 5ZA in Rosewell, New Mexico, consistently pounded in night after night on a four-ohm telegraph sounder by virtue of relays in the circuit. Those were the first thrills.

"Then came the night of November 14 with a farewell dinner, and with all arrangements completed, I sailed for England. Twenty-five contestants had qualified—two more were added later. At noon the following day the *Aquitania* slid down the North River, and I was off."

The ocean voyage with its "occasional snatches of 200-meter stuff"; the brief stop in London, where he "listened in on all the strange commercial calls up and down the European shores," and was distracted on settling down to 200-meters by "gobs and gobs of static and whole orchestras of harmonics"—these furnished interesting preliminary experiences, but the main adventure began at Androssan, Scotland, at an improvised station with headquarters in a tent pitched on a rather forlorn coast. Mr. Godley thus describes the final preparations and the moment of his triumph:

"On Wednesday, December 7th, the 1400 foot stretch of line was completed, the wire being supported by 2 x 4 inch posts 12 feet high, and laid out to point directly toward

Chicago. The wire was grounded at the distant end through a non-inductive resistance (250 to 400 ohms) and at the home end through a variable inductance.

"Within the tent the regenerative receiver and super-heterodyne receiver were set up together with all accessories, which were found to be in first-class condition.

"At 11.30 P. M. all outside work had been completed and equipment arranged inside, whereupon the apparatus was gone over and put into operation. First the radio-frequency amplifier used with the super-heterodyne receiver was started up and time signals heard, without antenna, from FL, Eiffel Tower, Paris, and POZ, Nauen, Germany. Next, the tuning equipment, which formed the super-heterodyne, was gone over in connection with a short wire which had been thrown into a near-by tree, and all circuits were adjusted while working on the multitude of 600 meter signals which were coming through. YCE, Cape Race, was there, and most as strong as any of them, and I took this as a good omen.

"Finally the beverage wire was thrown in, preliminary adjustments made at both ends of the wire, and tuning started, the first signals recorded being the host of harmonics from the high-power stations, altho these were not as bothersome as was the case near London. Search for short-wave amateur signals began at 1 A. M.

"At exactly 33 minutes later the universe cracked wide open! In one magic moment Scotland's erstwhile gloomy shores became a haven of rest! Muscle soreness, soul sourness, fatigue and doubt vanished, and my unexpectedly difficult but insistent duty became a joy forever!

"Cold rains then were as liquid sunshine; boisterous cutting winds as balmy, heaven-sent breezes. Nothing in the whole sad world could possibly be wrong—nothing, for an American amateur signal was piling in on us and rising in strength until at 1:42 in a very positive manner, his 60-cycle synchronous spark spelled out a message to some one that he would 'see him later' and plastered the call letters 1AAW where the whole world might read!

"On the night of December 9 the weather had again gone very wet, and the winds had grown considerably heavier. Atmospherics were also heavier than the night before, being of about the same order as on the night when 1AAW was heard. At 12.50 A. M. on the morning of the 10th, after listening for sparks, we switched for continuous wave reception and immediately picked up station 1BCG (Greenwich, Conn.) on 230 meters. We had some difficulty with him due to atmospherics and a

very bothersome harmonic from the station at Clifden, Ireland, 150 miles away. Both these were nullified to a great extent by various adjustments of both the apparatus and the line wire.

"On the night of December 10-11, 18 different stations were logged, the secret code words being gotten from three of them, while dozens more were heard but not logged, either due to our inability to make out their weak signals through static—because of the number of stations working at one time and the resultant jamming—or because of the failure of stations, working locally to use their station calls when transmission was ended.

THEIR STATION WAS HEARD IN SCOTLAND.

Here are the men who sent the message that was heard in Scotland. Behind them is their station. From left to right they are: Amy, Grinan, Burghard, Armstrong and Cronkhite. Their call and a complete message were the first to be received in Scotland from America.

"The most remarkable feature was the strength of some of these signals. 1 BCG's signals could have been heard easily 400 feet from the tent. Altho we started out to see how far away he could be heard, we gave the idea up because of the rain which was coming down, and because of the time which would have been taken. 1ARY and 2FD (and later 2FF) (Burlington, Vermont; Flushing, N. Y.; and Brooklyn, N. Y., respectively) almost equaled 1 BCG as to strength, during one or two very short intervals. 1BDT (Atlantic, Mass.), a spark station, altho by no means as strong, almost equaled 1 BCG in steadiness of signals during a long period. Two of the continuous wave stations were using powers of less than 30 watts!"

The climax came on the morning of December 12, when, after hearing signals from dozens of stations at the same time, the eager listener caught a worded message, assuring him "hearty congratulations" from the Greenwich, Conn. station, 1BCG, signed with the names of its owners and operators: "Burghard, Inman, Grinan, Armstrong, Amy, Cronkhite." That was the first message ever sent across the Atlantic with amateur radio; and no readable signals from American amateurs were heard during the remainder of the tests. Presently atmospheric conditions ceased to be propitious, and the coming of a cyclone made it necessary to dismantle the tent on the afternoon of the 16th.

On the 19th Mr. Godley was back in London, and found that great enthusiasm was being shown as a result of the tests. "Station 1BCG had been heard by five British amateurs, by a Dutch amateur in Amsterdam, and by an American ship operator in the harbor at Hamburg, Germany, and all the newspapers in Belgium, France, and the British Isles were featuring the story."

Mr Godley goes on to say that British Amateurs had heard signals from Salem, Cambridge, and Marion, Massachusetts; from Hartford, Connecticut; from Brooklyn, New York, and Valley Stream, Long Island; and from unidentified stations. He gives the complete list of stations heard by him at Adrossan to the number of about thirty, mostly located along the Atlantic seaboard, but including such interior stations as Burlington, Vermont; Cleveland, Ohio; Pittsburgh, Pennsylvania; and Indianapolis, Indiana.

Notwithstanding the fact that two of the most distant stations, Cleveland and Indianapolis, used spark-wave transmission, Mr. Godley has very pronounced opinion as to the superiority of continuous-wave transmission, as will appear from his concluding words:

"In glancing over the above list one is struck by the preponderance of the continuous-wave stations, and by the fact that the British heard C. W. stations only. That can mean only one thing, that C.W. is far superior, and I should like nothing better than to see all amateurs change over to continuous wave at once. Spark methods are horribly out of date, and are so inefficient, comparatively, as to be ridiculous, were it not that many have invested good money in spark equipment. Station 1AFV (Salem, Mass.), since the tests has gotten three messages across to England (Scotland) on 200 watts of C. W. Many stations of the Atlantic seaboard are reaching to the California coast with similar powers, while the west coast stations have been shoving signals into the Hawaiian Islands. The day is not far distant when amateurs the world over will be exchanging greetings in many languages, and by the same token, the day is almost here when the spark stations will be of interest as having to do with history only."

PACIFIC COAST RADIO

IF THERE WERE ANY QUESTION that the interest in radio is country-wide, an editorial comment in *Rosin*, the San Francisco periodical (which began life about four years ago as *The Pacific Radio News*), would put to rest all doubts. Evidently the Pacific coast amateur is quite as well served as he of the Atlantic seaboard. Witness this comment:

"There is radio music in the air, every night, everywhere. Anybody can hear it at home on a receiving set, which any boy can put up in an hour. One of these sets costs less than a phonograph. With it can be heard grand operas, orchestras, phonographs' music, market reports, press summary, sermons, and speeches. All that is needed is a hundred-foot clear-span of copper wire, a couple of batteries and a cabinet set that can be bought from a radio dealer in every town.

"No better investment can be made as to a means for making a home more attractive to the entire family. Radio brings fathers and sons together on a common basis of mutual interest. The women can easily run in during the afternoon and have a constant source of entertainment for their guests. Any phonograph selection will be played by request to the operator in charge of the sending station. No home is complete without radio."

MR. GLAVIN'S RADIO CAR

UNDER THE PICTURESQUE TITLE "The Wireless Hound—An Interesting Case of Radio Control," the *Scientific American* (New York) some months ago described a curious little vehicle which more recently has been exhibited at the Radio Conventions at the Hotel Pennsylvania, New York, where it excited the wonderment of thousands of observers. After stating that ever since Marconi succeeded in getting a coherer to work by means of wireless waves, so that distant circles might be controlled as desired, men in various countries have been planning and experimenting with radio-controlled craft of all kinds; and, referring to the radio-controlled motor boats of John Hays Hammond, Jr., and to Herr Fokker's plan for crewless airplanes, the account continues:

"Now comes Edward F. Glavin of Yonkers, N. Y., with a radio-controlled vehicle which represents nine years of persistent effort and experimentation and numerous disappointments, all blended into the practical working model which is shown in the accompanying illustration. Mr Glavin has succeeded in applying the principle of radio control to a land vehicle, which is considerably more difficult than that of aquatic craft.

"The 'wireless hound,' as this bizarre vehicle has been termed by those who have seen it going through its antics, is driven by an electric motor. The vehicle has four wheels—one in front which does the steering, two wheels which turn freely on a fixt axle, and a center driving wheel. The electric motor is mounted on a pivoted frame in such a manner that its weight is brought to bear on its rubber-faced pulley pressing down on the driving wheel. Storage batteries furnish the current for the motor as well as for other purposes.

"The control is of consists of the usual tuned transmitter a spark coil, telegraph key, oscillating circuit, and aerial. Each time the key is depressed, a train of signals is sent out to the aerial of the wireless hound. Each train of signals causes the detector to respond, operating a relay and closing a secondary circuit in conventional way. The secondary circuit makes use of a control or contact drum carrying various brass strips which, when turned, make various combinations of circuits in conjunction with the brushes or fingers pressing down on them. Thus in the first position the contact or control drum may make the necessary connections for starting the motor. The next position operates part of the electromagnets controlling the steering-wheel, so as to turn the vehicle to the left, while the next position restores the steering-wheel to the normal position and the vehicle straightens its course. The next two positions turn the vehicle to the right and straighten it out. Perhaps the next position stops the vehicle. At any rate that is the way the control operates."

'THE WIRELESS HOUND.'

A radio-controlled vehicle which obeys its master's wireless commands. The inventor is here seen explaining how it works.

Details of operation aside, the little car rolls about in any desired direction in response to signals given by the hand of its inventor and translated into electromagnetic radio waves by an assistant who presses the telegraph key. The performance is in a sense simple when explained, yet it always seems mysterious. It may reasonably be expected that before long the principle will be applied to some types of commercial vehicles, tho the limitations of the method are obvious, in as much as the operator must keep the controlled mechanism within view. It has been suggested by Mr. Glavin that wheeled apparatus on farms—including motor-drawn plows, reapers, and the like—may perhaps be operated by radio. Meantime the writers of fiction have taken slight liberties with the future, as when Mr. Stoddard Goodhue, in his story called "The Phantom Auto" in *Everybody's Magazine* makes Mr. Glavin's invention the background of a series of episodes in which automobiles are controlled by radio operated from an airplane. Almost any day we may see that feat accomplished in the world of fact.

RADIO BELOW 275 METERS

NOW THAT THE AMATEUR KNOWS just where he stands, it obviously behooves him to inform himself fully on the subject of waves between 275 and 150 meters. In an article in *Q S T* (Hartford, Conn.), the official organ of The American Radio Relay League, Inc., Mr. Boyd Phelps, 9ZT, has things to say that should interest all amateurs who are not already proficient in the art of sending short waves. Mr. Phelps makes a plea for diversity of wave-lengths, regarding it as "ridiculous that out of the immense number of possible adjustments we should all strive for the same one." And he gives some very practical details as to the way in which the "crowding on and just above 200 meters" may be avoided:

"The chief difficulty in the minds of many is the thought of having to use an antenna only a few feet long and perhaps not extending up high enough to clear surrounding objects. The following methods worked out by the writer obviates this great disadvantage.

"An antenna with a fundamental of 300 meters when excited by a straight gap was found to emit waves on 300, 100, 43, and 33 meters. It was only necessary to excite the aerial at one of its harmonic frequencies to have it absorb and radiate energy on that wave. It was found that the ratio of one to three does not hold between the harmonic and the fundamental when the aerial is loaded. At 9FO with the large antenna having a fundamental of 450 meters the use of a series condenser was impractical for 200 meters. All of the secondary of the oscillation transformer was inserted, bringing the wave up to 525 meters; the first harmonic then increasing to 169 meters as determined with a spark gap in the ground lead and a spark coil connected across this gap. With the closed circuit carefully tuned to 169 meters and coupled to the antenna circuit good radiation was obtained on this wave-length. Moving any clips on the oscillation transformer caused a falling off of antenna current. With the wave meter coupled to the ground a sharp wave was found at 169 meters, but no matter how close the wave meter was coupled to the aerial circuit no wave could be found around 525, which was the normal wave-length of the open or aerial circuit. This new method permits easy working on 200 meters and below with a large aerial.

"It is perhaps not well to encourage the above experiments too much, especially in coastal cities, as inaccurate adjustments may cause a strong wave to be emitted at about 600 meters. The real value of this method of tuning comes in the use of continuous wave. A vacuum tube, we are told by many eminent experimenters, will in laboratory circuits oscillate at wave-lengths of five meters or less. Tuning is extremely sharp at low wave-lengths so that more stations may be accommodated at wave-lengths differing but few meters."

RADIO · DEPARTMENT

RADIO FROM AN ELECTRIC-LIGHT SOCKET

GREAT INTEREST HAS BEEN AROUSED by the newspaper reports of a successful experiment of Maj Gen. George O. Squier in the utilization of an ordinary electric-light system for the dissemination of radio messages. General Squier made a demonstration before a number of experts in his office, in which he attached a radio receiving telephone set to a socket of an electric light on his desk. By merely pulling the lamp cord, the General started and stopt the messages

In *Popular Radio* (New York) we find this description of the interesting test

"The demonstration included the receiving of news, music and talks from a distant room in the Munitions Building, where a radiotelephone transmitter (S C R 67) was connected through an ordinary socket to the lighting circuit of the building. Music from a phonograph was transmitted to the 110-volt electric line through a standard microphone such as was developed during the war for aviators.

"There is no interference, no fading, and weather does not affect the broadcasting by this new method. The process is based on General Squier's invention of 'line radio' or 'wired wireless' which he perfected some time ago and which permits the use of a line as a guide, altho the messages go on wireless waves which follow the line. The turning of the switch, however, cuts the circuit, and the sound ceases.

"Future uses for the new invention suggests that a hotel can supply all of its guests with music from a sending station in the basement; a single orchestra can furnish music for the local playhouses and movies, and invalids at home or in near-by hospitals can get such entertainment as is furnished locally. 'Every home and every room in a hotel where there is an electric lamp can now keep in touch with the world,' General Squier said

The qualifying statement is made, however, that experts are doubtful whether the system can be used over the large lighting cables in city streets; and amateurs are advised not to play with this new idea until they have more definite information on the subject. Meantime the new experiment gives added interest to the remarkable "wired wireless" method. Another article in *Popular Radio*, by Dr. Henry Smith Williams, tells how General Squier came to develop this method as a war emergency. The U. S. Signal Corps had been called upon by the Allied Council to furnish 100,000 miles a month of insulated telegraph and telephone wire, and no such quantity could be produced, chiefly because there was lack of adequate machinery to make the braided covering for the wire.

"Confronted with this situation, the United States Signal Corps, with General Squier at its head, not unnaturally realized the desirability of finding a substitute for braided cotton thread.

"The Signal Corps found it. Indeed, it found something not merely 'just as good,' but in many respects vastly better. Confronted with the shortage of braiding machines, General Squier said in effect: 'Let us try electron tubes instead.' Asked to supply 100,000 miles of braided cotton a month, he said: 'I will give you an unlimited quantity of electromagnetic waves instead.'

"Succinctly stated, what General Squier did was to run a bare wire of phosphor bronze across the Washington channel of the Potomac River from the Army War College to the opposite shore in Potomac Park, letting it sink to the bottom and lie there absolutely unprotected. A standard Signal Corps radiotelephone and telegraph set was directly connected to each end of the wire; one set served as transmitter and the other as receiver. At the receiving end, the bare wire was directly connected to the grid terminal of an electron tube of the receiving set and the usual ground connection was left open. Tuning a wire to a frequency of about 600,000 cycles a second, excellent telegraphy and telephony were attained.

"Sundry other confirmatory experiments having been made with a submerged wire, attention was directed to the possibility of conveying a directed message along a wire lying on the ground. A bare No. 16 wire was laid on the surface of the earth connecting the main laboratory with the Signal Corps and a small field station one and three-quarter miles distant. Radiotelephone instruments used were standard sets utilizing an oscillating transmitter of the electron tube type. It was found that good telephone communication could be made with this equipment.

"As the next important step, the bare transmitting wire was buried in the earth to a depth of about eight inches. The soil was moist, sandy loam, only a few feet above tide-water. The wire thus buried conveyed the electromagnetic current as before, and satisfactory communications were established for the distance of about a mile. To make the experiment more definitive, tests were made with the buried wire not laid in a straight line, but turning in various angles.

"The successful termination of the experiment may be said to have established the principle of 'wired wireless' beyond controversy. It is obvious to any one familiar with the general principles of radio transmission that it should be possible, by using different wave-lengths, to send several messages simultaneously in either direction along a single wire, each message indistinguishable except to the particular instrument tuned to receive it. Practical experiment was presently to demonstrate the validity of this assumption."

Such, then, is the method for which its originator suggests a new and highly important practical application. It will be understood that the wires that follow along the wire do not con-

Photo from International

RADIO BROADCASTING OVER ELECTRIC LIGHT WIRES

General Squier, the inventor of "wired wireless" and Chief of the Signal Corps of the U. S. Army, is here seen receiving music and messages from an ordinary electric light socket by another new process he has perfected

stitute an ordinary electric current, but are the electromagnetic waves of radio, not traveling on the wire itself, but for some strange reason holding to a channel of ether which has the effect of a tube about the wire, and thus being directed to a particular goal instead of being dissipated into space in every direction.

It is suggested that there are great possibilities of conservation of power in the method, and that the problem of interference of waves conveying different messages in the air is virtually solved by "wired wireless." Should it be found that the ordinary electric light wires which run out from a power station and branch perpetually to reach multitudes of homes, can be used effectively to distribute radio messages, broadcasting will take on new aspects, and is assured a greater importance in community life than even the most sanguine of enthusiasts had hitherto predicted for it.

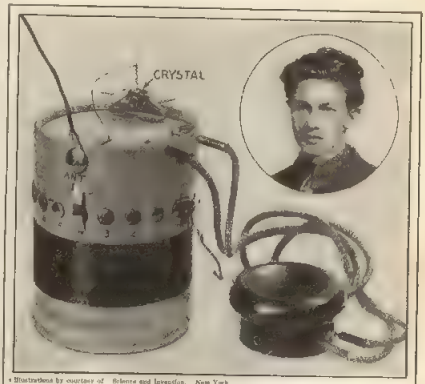
THE SIMPLEST RADIO RECEIVER

NOT LONG AGO A PRIZE CONTEST was instituted by *Science and Invention* (New York) the intention of which was to stimulate ingenious persons to devise the simplest possible of radiophone receiving sets. "What was wanted," the editor explains, "was an outfit that could be made by any one without knowing anything whatsoever of radio mechanics. We wanted an outfit that could be made from scraps lying about in almost any home, and from things that could be procured readily without making special fittings, etc."

The response demonstrated anew the wide interest in radio. Over eight hundred manuscripts were received, and more than one hundred models of outfits. Men in all walks of life competed, and four articles with models were received from women. The smallest outfit was wound upon an ordinary thread spool and did not weigh more than one and a half ounces. The first prize was awarded to "a young New York genius of twenty-one," for an apparatus which the editors declare to be, in their opinion, "the simplest outfit that can possibly be made." There is further editorial assurance that this is a complete and practical radio-receiving telephone apparatus, which works well, the cost, without the telephone receivers, was less than forty cents. The inventor tells us that a knife or razor blade and a small nail are the only tools required to make it, and he declares that the complete set can easily be constructed in about half an hour, and that it is "as efficient as most of the crystal sets now being sold and in most cases superior to them." The editors express the hope that those laymen who are still skeptical as to radio will find time to build the outfit. Here is the inventor's own account of the way to make this simplest of radiophone receivers:

"The material required is as follows:

1 paper container (4" in diameter)
13 paper-fasteners (small size)
2 paper-fasteners (large size)
3 paper clips



Illustrations by courtesy of Science and Invention, New York

JAMES LEO McLAUGHLIN AND HIS PRIZE OUTFIT

It can be made in thirty minutes, he says, with a knife or razor blade and a small nail, and is "as efficient as most of the crystal sets now being sold." Aside from the phones, it cost less than forty cents

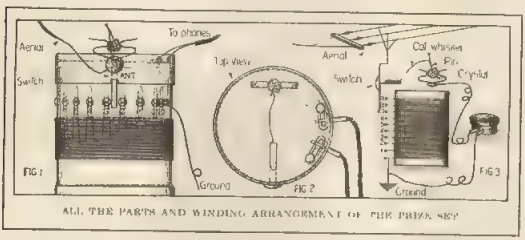
2 oz. No. 26 enameled copper wire
1 small piece of silicon or galena
1 common pin

Take the container and punch nine holes one inch down from the top, with a small nail, one-half inch apart. Into each hole push a paper-fastener. With pen and ink number each fastener from right to left, 1 to 9. Alongside of hole No. 1 push two fasteners with a paper clip underneath -mark GND (ground). One-half inch down from GND punch a small hole, this is the starting point of the coil.

"Take the wire and push the end through the hole. Wrap the end around one of the fasteners GND (on the inside of the container). Be sure that where the wire touches the fastener, the enamel has been scraped off or else a poor connection will result.

Next pull the wire tight and commence winding the coil. The total number of turns is seventy, and a tap is taken off at each of the following turns: The 15th, 20th, 30th, 40th, 50th, 55th and the 70th.

"Fig 1 shows how to tap the coil. The important things to look out for are that the coil is wound as tight as possible, and that the enamel is scraped off the wire, where it makes connection with the fasteners. The 15th turn is contact No. 1, the 20th No. 2, etc. The next job is the switch that moves over the contacts. Fig 2 shows how this is made. Take one of the large



ALL THE PARTS AND WINDING ARRANGEMENT OF THE PRIZE SET

fasteners, push the ends through the side of the cover, close to the lid. Bend one end down flush with the side and push the other end through the top and bend over.

"Put the cover back on the container and bend the end of the fastener so that it rides over the contacts easily, when the cover is turned, but be sure that it touches each of them. Break off the surplus end.

"The other large fastener is pushed through the lid opposite the switch and is bent, as shown on Fig. 2, so that it can hold the small crystal. A short piece of bare wire (about No. 24 will do) acts as the cat-whisker, a pin is fastened to one end and the other end is wrapt around the end of the switch—the part that is bent over (see Fig. 2)

"Fig. 3 shows the diagram of connections and needs little comment.

"The telephone receiver is a single Murdock without head

FARM LIFE ISN'T WHAT IT USED TO BE

Grandpa listens in on the wireless to "Old Dan Tucker" and "Turkey in the Straw."

Doubles in the Cleveland *Plain Dealer*

band, and can be purchased for about $2.00. Of course any other kind may be substituted.

"For the antenna one-half pound of No. 18 bare copper wire will do. This will give about 100 feet of wire. Two porcelain cleats will also be required and should not cost over 5 cents. The wire can be had for about 30 cents.

"String the wire the greatest length possible, and attach outer end to a tree or other elevation, at least thirty feet high. The other end of the wire enters the house and is attached to the switch button marked ANT and a short piece of rubber tubing should be slipped over the wire where it passes through the wall of the building.

"A good ground can be had by connecting a wire to the nearest gas or water pipe. Scrape the pipe for a length of about two inches, so that it shines, then wrap several turns of wire around it and twist tightly.

"To operate the set, bend the cat-whisker wire so that the pin rests on the crystal. Move the pin over the surface until a signal is heard; at the same time move the switch over the contacts, and leave it on the one that brings in the station the loudest. With this set in New York City using only a single No. 24 wire, 25 feet long strung up in a room, WDY'S and WJZ'S concerts came in fine, and on several occasions, the phone could be held about six inches from the ear and still the music and voice could be distinguished."

HOOKED UP WITH THE WORLD

NOT INFREQUENTLY WE HEAR the opinion exprest that the present extraordinary vogue of radio represents "a craze that can't possibly last." The holder of this opinion is usually a city man who has some friends with whom the receiving telephone is probably little more than a toy. Many such there are, doubtless. But the future of the receiving telephone in the home does not rest primarily with the city dweller who is within easy reach of numerous entertainments. It rests with the residents of the villages and with a farm population numbering thirty odd millions. Here are people who can not step round the corner to an entertainment, nor gain the news from an evening paper.

But now the radiophone brings news and entertainment into their homes. An inkling of what this means may be gained from an account of the personal experience of a Kansas farm boy, named Hugh Stout, as related in the *Kansas Farmer* (Topeka). It is a matter-of-fact recital, yet even five years ago it would have seemed like a fantastic dream. The youth who is speaking lives away out in Kansas; but in his daily experiences he is a cosmopolite. Let him tell the story:

"We have been using a radiotelephone receiving set for about a year and have been regularly receiving market reports, concerts, news items, conversations between operators, reports of stolen automobiles, descriptions of men hunted by the police, and a number of other things. On the evening of February 24 we heard an organ recital from a church in Pittsburgh, Penn., and a concert given by the *News*, of Detroit, Mich.

"The stations which we can hear best are Pittsburgh, Detroit, Kansas City, Denver, and Madison, Wis. We also hear occasionally from Oak and Wahoo, Neb., Slater, Jefferson City, Mo., St. Louis, Mo., Chicago, Ill., Dallas and Childress, Tex., and from our neighbors at Wichita, Great Bend and Kiowa, Kan. We get the correct time twice a day from Annapolis, Md.

"The set which we have is mounted on a wall board panel which is fastened to a wooden box containing a type 'B' battery for the audion tubes. The tuning portion of the apparatus consists of a three-coil mounting and two sets of coils and two variable condensers. One set of these coils is for the radiotelephone and all stations using a wave-length ranging between 180 and 450 meters. Two of the coils have 35 turns of wire, while the third one has 25 turns. The other set of coils is for receiving messages from air stations using a wave of from 10,000 to 20,000 meters in length.

"For a detector we have a Cunningham detector tube. The control for this detector consists of a rheostat, a type 'B' battery switch and a fixt grid condenser. We use a Radiotron amplifier tube with a transformer and socket and a rheostat to control the current to the filament in the tube. We use two sets of 3 000 ohm receivers.

"The aerial is made of three wires about 125 feet long and 25 feet high. We have found that by using the telephone line in place of the aerial and the aerial in place of the ground, we get better results and have less interference from static electricity. This will not always work on all stations as it changes the wave-length of the receiving set.

"A set like the one we describe will receive messages from radiophone broadcasting stations and from spark wireless telegraph stations. It would cost a little more than $60 with a 6-volt storage and a 60-volt dry-cell battery. We use a number of flashlight batteries connected together in series.

"We did not make up any of the units of this set which we use because we think that factory-made instruments are more satisfactory since they have been made by experts and have been tested before being sent out. The units which we now have we mounted on the panel ourselves, but we had some help in hooking them up properly.

"The other evening we had some guests here at the farm and all of us listened to a splendid concert by a symphony orchestra in Chicago. At 8:55 I changed the coils on my set for those adapted to the greater length waves and tuned up for a message from Annapolis which sends out the time every evening. For five minutes before the hour, the Annapolis operator dispatched a continuous signal that sounded like a mechanical hum, each variation marking the elapse of a second. At exactly the hour the sound stopt for an instant and the listeners set their watches to Government time sent 1,000 miles through the air.

SCIENCE AND INVENTION
Continued

THE LIGHT CURE

TREATMENT of disease by light-rays is reviewed in an editorial contribution to *The Journal of the American Medical Association* (Chicago). The writer is somewhat cautious in commending it, but thinks that it has been undoubtedly beneficial in some maladies, and that it has possibilities. That sunlight is beneficial to green plants, he notes, is an every-day observation. Through the intermediation of chlorophyl (green vegetable coloring matter) light energy is stored under conditions most advantageous to mankind. There is a wide-spread conviction that sunlight is health-giving to man as well as to vegetation; but proof of this traditional belief, he thinks, is not so easily secured. He goes on:

Sunlight is only one of numerous environmental factors to which the human organism is subject, and they can not readily be dissociated so that each can be charged with its specific responsibility for well-being or the reverse, as the case may be. It would be manifestly unfair to say that heliotherapy (sunlight treatment is an entirely unexplored field; but it will scarcely be denied that its present claims and its accomplishment are essentially based on empiricism. To admit this is not derogatory to the possibilities of medical treatment through the agency of light rays, but rather a challenge to promote the scientific aspect of the subject. The latest studies of the sunlight treatment of rickets, notably those of A. F. Hess and others in this country, should give a marked impetus to the investigation of the physical factors as well as the clinical results

The instance cited is a notable one for heliotherapy. Clark has suggested other fields in which the already evident possibilities of light therapy deserve experimental consideration from a clinical standpoint. The pioneer work of Finsen emphasizes the importance of considering a diversity of forms of radiant energy in skin affections. The relative safety of treatment with ultraviolet rays over roentgen-ray exposure should add to the desirability of careful consideration of the respective merits. In tuberculosis, especially surgical tuberculosis, heliotherapy has long had advocates The observations made have warranted the suspicion that light of short wave-lengths, which is known to have marked bactericidal effects, may not be without salutary influence in the treatment of wounds. Other suggestions might be cited, while the familiar inflammatory reaction known as sunburn is an omnipresent reminder of the potency of absorbed ultraviolet light. It should be remembered that the potent rays of shorter wave-length do not penetrate glass. The shorter the wave-length, the smaller the layer of skin that will absorb the rays. Artificial lights, if glass-covered, are therefore harmless and therapeutically weak. Sunlight rarely contains enough for ultraviolet rays to produce injury. Consequently, heliotherapy that demands highly potent effects must look to artificial sources of radiation. The quartz mercury arc and bare metallic arcs are known to belong in the potent class, and as has often been warned, may be extremely injurious so that the eyes should be protected from them

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"Seward on beautiful Resurrection Bay, surrounded by picturesque mountains, forests, and trout streams; Spencer Glacier with its vari-colored ice masses pushing down within a few hundred yards of the railroad, Anchorage—at the head of Cook's Inlet—the railroad headquarters and outfitting point for many trips of interest; Mount McKinley, monarch of North American mountains, tossing its snowy crest four miles in the air, visible for 300 miles on the railroad; Mt. McKinley National Park, 3,000 square miles of untouched nature, the center of an unsurpassed wild game country, reached from McKinley Park Station."

President Harding's contemplated trip to Alaska in August will include something in the nature of a formal opening of the railway. Through trains are now operated between Seward and Nenana with buffet, observation cars and, as planned, with sleepers during the coming summer. The uncompleted bridge crossing the Nenana River at Nenana necessitates the only break on the line, the river now being crossed by ferry. At Seward, Anchorage, Nenana and Fairbanks will be found hotels far above the average for small towns. They are equipped with electric lights, steam heat, baths and other modern improvements. For complete steamship service to Alaska our readers are referred to table, page 77, "Pacific Coastwise Routes."

SELECTED BOOKS ON ALASKA

Travels in Alaska, John Muir, Houghton Mifflin Co., $2.25.
Alaska, Ella Higginson, The Macmillan Co., $3.00.
Alaska, Our Beautiful Northland of Opportunity, Agnes Rush Burr, The Page Co., $5.00.
Conquest of Mt. McKinley, Belmore Brown, G. P. Putnam's Sons, $5.00.
Guide to Alaska and Yukon, Rand McNally & Co. $2.00.
A Chechako in Alaska and Yukon, Charlotte [illegible] Stokes, $5.00.

THE LURE OF HAWAII

Writing of Hawaii in The London *Times*, Lord Northcliffe recently said:

"No matter what sort of fairyland you have imagined Hawaii to be, no matter what colorless, anemic pamphlets you may have read of it on the way there, its magical reality far and far exceeds its advertised charm. . . . It is just a scrap of Paradise dropt down by a lucky fluke into the middle of the Sea of Endless Summer."

Cooled by the steady, northeast trades sweeping over countless miles of the Pacific the summer temperature of Hawaii is delightful. Indeed as Leland E. Cofer, Assistant Surgeon-General, U. S. Quarantine Service has written:

"The usual medical 'don'ts' do not apply to Hawaii's climate. The influences in these beautiful islands offer the least resistance to bodily well-being of any well-known health resort of the world."

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RADIUS RODS—See Rods, Radius, Automobile

RAFTER BRACKETS—See Brackets, Rafter

RAG DOLLS—See Dolls, Cloth or Rag

RAILING, Balcony—See Railing, Porch, Counter, Balcony, Etc.

RAILING, Counter—See Railing, Porch, Counter, Balcony, Etc.

RAILING FITTINGS—See Fittings, Railing

RAILING, Pipe, Iron, Brass and Bronze

Cincinnati Iron Fence Co., 3320 Spring Grove Av., Cincinnati, O.
★For descriptive data of the above, see index on page 6
Columbus Brass Co., Columbus, O.
Dow Co., Louisville, Ky.
Durecon—See Waukesha Steel Products Co.
Meyers (Fred J.) Mfg. Co., Hamilton, O.
★For descriptive data of the above, see index on page 6
Newman Mfg. Co., 722 Sycamore, Cincinnati, O
Simmons (John) Co., 110 Centre, New York, N. Y.
Smith (F. F.) Wire & Iron Wks., 2340 Clybourn Av., Chicago, Ill.
Tyler (W. S.) Co., Cleveland, O
Waukesha Steel Products Co., Waukesha, Wis. "Durecon"
Wickwire Spencer Steel Corp., Madison Av & 42d, New York, N. Y.
★For descriptive data of the above, see index on page 6

RAILING, Porch, Counter, Balcony, Etc.

Cincinnati Iron Fence Co., 3320 Spring Grove Av., Cincinnati, O.
★For descriptive data of the above, see index on page 6
Meyers (Fred J.) Mfg. Co., Hamilton, O.
★For descriptive data of the above, see index on page 6
Stewart Iron Wks. Co., 17th & Madison Sts., Cincinnati, O.
★For descriptive data of the above, see index on page 6

RAILING, Wire, Partition

Acorn Wire & Iron Wks., 5912 Lowe Av., Chicago, Ill.
Meyers (Fred J.) Mfg. Co., Hamilton, O.
★For descriptive data of the above, see index on page 6
Stewart Iron Wks. Co., 17th & Madison Sts., Cincinnati, O.
★For descriptive data of the above, see index on page 6

RAILROAD LANTERNS—See Lanterns, Railroad

RAILWAY SYSTEMS, Toy

American Flyer Mfg. Co., 2219 S. Halsted, Chicago, Ill.
★For descriptive data of the above, see index on page 6
Cass (N. D.) Co., Athol, Mass.
Hafner Mfg. Co., 3128 Carroll Av., Chicago, Ill. "Overland Flyer"
Interstate Electric Novelty Co., 60 Tillary, Brooklyn, N. Y.
Ives Mfg. Corp., Bridgeport, Conn.
Kingsbury Mfg. Co., Keene, N. H.

SPORTS ▾ AND ▾ ATHLETICS

A THRILLER THAT IS BECOMING MORE AND MORE RARE.

"The stolen base is the most perfect example of the unexpected It enables a player to be a thinking human being, not a mere cog in a machine."

BASE-STEALING'S SENSATIONAL DECLINE

ALTHO IT HAS ALWAYS BEEN the showiest feature of baseball and perhaps the most popular with grandstand and bleacher alike, base-stealing is undergoing what Mr. F C. Lane, a contributor to the *Baseball Magazine*, regards as nothing short of a "sensational decline."

Ten years ago base stealing was developing in both major leagues about as rapidly as fielding and pitching skill. For several years, as far back as we care to trace the upward trend, base-stealing totals were climbing, and then came the turning-point. Base-stealing declined for a number of years, crept down the slope just about as rapidly as it had ascended. But this decline unfortunately did not terminate in another gradual incline. On the contrary it speeded up as it progressed, so that the last few seasons have seen a falling off in base-stealing so pronounced as to prove alarming to any one who wishes to see baseball preserved as a game well rounded in every department.

No corresponding increase in batting or fielding can quite compensate for the deplorable shrinkage in the stolen bases.

The decline of the stolen base is not an incident to be brushed aside with a casual comment. In fact, it is not an incident at all. It is a steady and seemingly accelerating trend Base-stealing which a year ago had reached a point which we confidently hoped would be termed the zero mark has since that time sunk many degrees below that zero

The story of the rise and decline of modern base-stealing may be graphically traced in the records of fifteen seasons. At the beginning of this era, in 1907, the National League stole 1,380 bases. In 1908 that figure remained about the same, namely, 1,372. The following season it took a decided brace to 1,539. A year later, in 1910, it stood at 1,593, while in 1911, it reached its highest total, 1,691.

N neteen hundred and eleven was the red-letter year in National League base-stealing. From that date to the present there has been a pretty steady decline, marked by a few variations, slumping dismally to the abyss of the past two seasons. For example, five years after 1911, the base-stealing total had fallen off practically 500 bases and stood at 1,194. There was a temporary spurt the next year, succeeded by an even deeper depression in 1918. In 1920 the total slumped under the one-thousand mark to 969. And last year it ebbed still further to a meager 803

How melancholy is this showing may be better expressi in terms of percentage. The base-stealing total in 1921 was about 47 per cent. of the base stealing total in 1911. The intervening years had seen stolen bases decline by nearly 53 per cent. This is no mere fluctuation of one season contrasted with another, but a drastic decline which cuts to the very heart of base-stealing as a popular department in the game

To emphasize this decline still further, we might refer to the records of the individual clubs. For example, in 1912 the Giants, the league leaders in that respect, stole 347 bases. Last year the Giants were still league leaders, but against the shining total of 347, they presented a new total of 137, a falling off of 210 bases, or more than three-fifths. In 1911, the club which stood at the bottom of the list was Philadelphia, with 153. Last season Philadelphia also stood at the bottom of the list with 66. The tail-ender declined proportionately as much as the champion, but the tail-ender of 1911 far surpassed the champion of 1921

Even more deplorable, so Mr. Lane tells us, is the record in the American League, where base-stealing increased during the seasons following 1907 and reached its red-letter year in 1912, with a total of 1,809 stolen bases that season, but immediately began to decline.

Three years later base-stealing had fallen off by nearly 400 bases. In 1918 the total of stolen bases slumped below the one-thousand mark and has still further slumped through succeeding seasons. In 1920 it was down to 750. Last season it hit a low level of 693

Ten years have wrought a strange and ominous decline in the American League stolen base. That ten years has seen a total considerably higher than the National League total dwindle to a meager residue, considerably below the National League's low level. In other words, American League base-stealing has fallen from even greater heights to lower depths than has been the case in the National circuit.

The total last year, 693, is but slightly more than 38 per cent. of the total ten years earlier. In other words, ten years have seen American League base-stealing fall off nearly 62 per cent.

In 1912 Washington was the champion base-stealing club, with a total of 262. Last season by an odd fatality, Washington also led American League clubs with a total of 111 The tail end club in base-stealing in 1912 was St. Louis. But St. Louis in 1912 stole 176 bases, which was more than 50 per cent. increase over and above the showing of the champion American League base-stealing club in 1921

Prior to 1918, no club in the American League stole so few as 100 bases. Two hundred bases was a very common showing. Last year only one club in the American League stole as many as a hundred bases—the Washington club. Cleveland, which contended with the Yankees for the pennant until the close of the season and ranked as World's Champion by virtue of its victory the previous season, stole exactly 58 bases. Is there not something to cause concern in the trend of the game when the team that is considered the most powerful in either league steals a little more than half a hundred bases, approximately two a week for an entire club?

Still further light is shed upon this melancholy story by the records of the champion clubs in the American League. For

many years the leading club perforce stole considerably more than 200 bases. Had it failed to do so, it would not have been the champion. In 1913 American League base-stealing saw its leading champion, Washington, steal 288 bases. In 1918, the American League champion slumped under the 200 base total. In 1920, Washington, which again led, stole 160 bases which, compared with previous champions, was a miserable showing. But last year, Washington, though still retaining the championship, stole but 111 bases, the poorest showing of any base-stealing champion in fifteen years of major league history.

In the National League the rise and fall of base-stealing champions is much the same. In 1910, Cincinnati led the league with 310 stolen bases. In 1911, the Giants stole 347, the high water mark for a major league club of modern times. In 1920, Pittsburgh led with 181. Last year the Giants regained their leadership with 137, the worst record for a National League champion within the scope of our present investigation.

Where league averages and club championships so clearly mark the fall of the stolen base there surely must be individual records worthy to compare with those of former years. So we might hope, but such is not the case. Last year George Sisler led all other American League base-stealers with a total of 35. Not so long ago the man who stole 35 bases would be considered only fair. For eight straight years of the fifteen, the American League champion slumped under the 70 mark but once.

In the National League, Frisch with 49 stolen bases to his credit did measurably better. There have been other seasons when the National League champion stole even fewer bases, but on the other hand even 49 compares indifferently with the sixties and seventies and eighties of previous years.

The Giants in the past fifteen seasons have stolen more bases than any other club, namely 3,057. Cincinnati comes second, while the Detroit Tigers lead the American League with 2,794. For many years the Tigers were noted for their speed and daring on the base paths. And yet there is a striking contrast between 1915 and 1921 in Tiger history. Why do we mention those two particular dates? In 1921, Detroit, under the leadership of Ty Cobb, stole 95 bases. In 1915, Cobb himself, unaided and alone, stole 96. In other words, one player in a Detroit uniform stole more bases in 1915 than the entire Detroit club in 1921.

TY COBB STEALING A BASE

"There never was a more demoralizing influence to pitchers and infielders' nerves than Ty Cobb on first. Cobb in his prime was perhaps the best illustration of the potent influence of the star base-stealer.

The records show that National League base-stealing in approximately a decade has fallen off nearly 53 per cent. The same decade has seen a decline of nearly 62 per cent. in American League base-stealing. Specializing in generalities, we may say then that only one base is stolen on a major league diamond now where two or more bases were stolen ten years ago.

Confronted with these sensational figures, the baseball enthusiast will ask, naturally, what accounts for the slump they represent. In his effort to make his explanation entirely clear, Mr. Lane begins by reminding us that

> This admittedly is an impressive slump, but just what is its inner significance?

Baseball may roughly be divided into four departments—batting, base-running, pitching and fielding. The first two comprise the main elements of the offense, the latter two of the defense. Batting has always outclassed base running as the prime feature of baseball offense. But base-running has been a conspicuous and valuable factor none the less.

Of the two, base-stealing calls for the greater daring, the keener head work. Batting may be and generally is a thing of natural aptitude, based largely upon the batting eye. Base-stealing is a more varied talent and may be more readily acquired. The batter has little scope for initiative. After all, he must hit what the pitcher offers him, and what the pitcher offers is a thing beyond his control. To be sure there is a certain latitude in the batting system, in position at the plate, type of bat used, and manner in which the bat is held. There are also the chop swing and the full swing of the slugger. Batters with a scientific bent study place hitting and diversify their attack with the bunt. But when all is said and done the scope which batting offers for individual initiative is strictly limited.

On the other hand, provided the manager leaves him alone, the base-runner is forever confronted with a prospect of limitless possibilities. To steal or not to steal is a thing which he himself can determine unaided and alone. The actions of a star base-stealer on first are a miniature drama in themselves. Ty Cobb in his prime probably caused more damage to opposing clubs' defense by his base-stealing than he did even by his phenomenal hitting. There never was a more demoralizing influence to opposing pitchers' and infielders' nerves than Ty Cobb on first. Whether he would attempt to steal second was always a problem but the very uncertainty of that problem was a disquieting factor which was ever present. And once on second, he was as apt to steal third if the slightest occasion offered. From third it was only a short dash home, and well did pitcher and infielder know that the slightest slip on their part would enable Ty to cross the rubber. Cobb in his prime was perhaps the best illustration of the potent influence of a star base-stealer. Such influence can never adequately be expressed in mere figures. Even the sum total of Ty's base thefts utterly fails to tell the story. Ty's base stealing was the greatest individual factor in baseball offense ever seen, with the exception of Babe Ruth's terrific slugging.

As baseball develops it tends to get hide bound. The managers grope ever for the best possible system. Once they have found it, they relinquish all others, for is not the best the best? The way to win ball games is to eliminate chance so far as possible and to follow the prescribed course which experience and long experiment has proved the safest. The stolen base is an intruder in this scheme of things. The stolen base properly employed calls for individual skill and player initiative of high order. But these things are diametrically opposed to managerial wisdom, and in this we can read one great reason, perhaps the greatest, for the decline of the stolen base.

Mr. Lane appreciates the managers' efforts to reduce baseball to an exact science, but contends that they "have overlooked one very important point." For—

> The best possible system is not as might be supposed an inflexible cut-and-dried stereotyped affair. The machine-made system even of the very highest quality is not the ultimate attainment of human skill. Beyond and above all mere rules and regulations must be placed human daring and ingenuity. The best possible play ceases to become the best when every one knows it will be employed. The element of uncertainty, the unexpected attack is for that very reason frequently the most effective. It is difficult to guard against an assault that has not been foreseen.
>
> The stolen base is the most perfect example in baseball of the unexpected. In attack it is the farthest removed from the mere established rule. It injects an element of uncertainty into the game very welcome in these days of crystallized baseball methods. It allows scope for human initiative which is also very welcome. In short, it enables a player to be a thinking human being not a mere cog in a machine, and for that reason, if for no other, it deserves the unwavering support of all who wish to see baseball maintained as a well-rounded sport, strong in every department.
>
> Is it not time that this most interesting, most thrilling of baseball plays should be rescued from the slow moving but iron-bound tendencies of the modern game which are crushing out its very existence? Isn't it time that the stolen-base totals paused in their precipitate descent toward zero and began an upward climb? Or is it a matter of popular indifference that the stolen base, the most picturesque, the most fascinating play in baseball should be sacrificed on the altar of mechanical perfection?

MOTORING AND AVIATION

THE WORLD'S FASTEST AIRPLANE TURNING AT MORE THAN TWO HUNDRED MILES AN HOUR

The machine is thrown on its side until the wings are perpendicular to the ground, as shown in these photographs, and the centrifugal force is such that, on several occasions, the pilot has been rendered temporarily unconscious. So terrific is the speed that the machine has been flown for nearly a mile on its side without losing altitude, despite the fact that it received no support from the wings.

FOUR MILES A MINUTE THROUGH THE AIR

THE FASTEST THING ON WINGS, by breaking all the world's speed records in the Pulitzer Trophy Race at Detroit, is hailed by aeronautical experts as placing America decidedly in the van in the recent world-wide development of aviation. The endurance record established when two Army lieutenants remained aloft for over 37 hours and the altitude record, set at 40,800 feet by MacReady, one of the two lieutenants who established the duration record, had already come to this country.

When Lieutenant R. L. Maughan, of the Army Air Service, shot over a triangular course of 31 miles five successive times, at an average speed of 206 miles per hour, he traveled considerably faster than cannon-balls went at the time of the Civil War. In making the abrupt turns of the course, so terrific was the centrifugal force, that he lost consciousness momentarily on several occasions—one time for the space of several seconds. The course was triangular, and in turning the markers, the speeding plane banked half-way over in order to come around with the least possible loss of speed and time. On one such turn, it flew for nearly a mile with both wings up and down, that is, it was receiving no wing support whatever, and only its bullet-like velocity, apparently, kept it from falling. On the straightaway course, it is estimated, the plane at times made more than 240 miles an hour, and this speed is sufficient, the critics point out, to give a very small supporting surface great effect. Frank H. Russell, Vice-President of the Curtiss Aeroplane and Motor Corporation, which built the winning ship, writing in *The U. S. Air Service* (Washington), thus discusses Lieutenant Maughan's feat in flying, on a later occasion without assistance from his wings:

Following an argument which he had with the writer at lunch, Lieutenant Maughan, after making one or two short trials, flew a kilometer with his wings in a vertical position, riding on the side of the body, controlling his horizontal position during the flight with his vertical rudder, which then became his horizontal rudder. He lost no appreciable altitude during the test. One is forced to wonder whether the ultimate high-speed ship, provided the human factor can be protected, will require wings at all for other than ascending and alighting.

Brigadier-General Mitchell, Assistant Chief of the Army Air Service, later flew the one kilometer course at an official speed of 224.38 miles an hour, a world's speed record. In the preliminary tests, the speed record set by General Mitchell is said to have been exceeded unofficially by Lieutenant Maughan, who is credited with 248.5 miles an hour. But, since there was no official timing, General Mitchell's speed of 224.38 miles an hour stands. The previous official record, held by the French after tests a year ago, was 205 miles. General Mitchell predicts 250 miles very soon and 300 within five years, on the basis of what has already been accomplished. He is quoted as follows, in a special dispatch to the New York *Herald:*

The flying was done at about 165 feet from the ground, this being desirable, so that accurate timing could be accomplished. The speed was attained at an altitude and then the plane was leveled off close to the ground in order to go over the course.

HE MOVES FASTER THAN A CANNON-BALL

The cannon-ball used in the Civil War averaged about 200 feet a second. Lieutenant L. R. Maughan, when he broke all the world's speed records at the recent Detroit air races, traveled at the rate of about 300 feet a second, nearly twice as fast. At this speed the wings of the plane are more of a hindrance than a help, but they are very useful when it slows down in preparation for landing.

The wind stream is terrific when flying at this speed. The first time I tried the wind was so strong that it blew off the top of my helmet. Then I hit on the idea of fastening on the helmet with adhesive tape, wrapping it around and around my head until it stayed. I found this a benefit rather than an inconvenience. It served as a support.

Speed is everything when it comes to pursuit ships in the Army. If you can not catch the other fellow and make him fight you might as well walk. The Army that has the fastest

PATTON'S
Velumina
The Oil-Flat Wall Paint
PORE-PROOF

You can wash those soft artistic walls

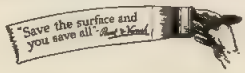
SOAP and water take the place of redecorating when your walls are painted with Patton's Velumina. This famous oil flat wall paint is pore-proof and durable beyond words. Dirt, dust and grime cannot penetrate its hardy film. They can only adhere to the surface and are easily washed away.

Architects and decorators recommend Patton's Velumina highly. For it gives walls the rich, soft-toned simplicity that is coming so much into vogue. It also enhances lighting effects by proper diffusion of light. Those who live in the atmosphere it creates find its quiet beauty a continuous source of satisfaction.

This artistic, economical, long-service wall paint comes in white and sixteen attractive tones. It is one of the numerous products manufactured by the Pittsburgh Plate Glass Company.

No matter what you need in the way of glass, paint or varnish products, the Pittsburgh Plate Glass Company manufactures something that will meet your requirements exactly. Handled by quality dealers everywhere.

A good brush is as necessary as good paint.



Write for "Proof" Booklet

PITTSBURGH PLATE GLASS CO.
GLASS — Manufacturers — PAINT
Paint and Varnish Factories — Milwaukee, Wis. - Newark, N.J.

MOTORING AND AVIATION
Continued

planes will in the next war have the superiority in the air. We are determined to hold the speed records if it is at all possible.

The story of the Pulitzer Trophy Race, as told by an expert observer, Ladislas d'Orcy, in *Aviation*, New York, differs in several particulars from the newspaper accounts of the event which were telegraphed over the country immediately after the race. The race included sixteen contestants, records the writer, and

> The racers were started off in heats of not more than five each in order to afford the contestants the maximum possible safety. The first heat to be flagged off consisted of the Thomas-Morse *MB7* (Captain Mulcahy), one Bee-Line racer (Lieutenant Callaway) and two of the Verville-Sperry racers (Lieutenant Barksdale and Lieutenant Johnson). The story of this race was brief, for the Bee-Line racer was eliminated in the second lap by radiator trouble, and the Thomas-Morse *MB7* followed suit on account of lubrication trouble. This only left the two Verville-Sperry ships to compete, and both finished the 250-kilometer circuit, Lieutenant Barksdale making an average speed of 181 m. p. h., and Lieutenant Johnson, 179 m. p. h.

Our readers are familiar with the technical features of these airplanes, and in particular with the ingenious retractable landing gear which the pilot draws into the fuselage by means of a crank. However, the cold mention of this fact does little justice to the emotion the onlookers felt when the two pilots actually *did* draw their landing gears into the fuselage. While the Dayton-Wright racer which was entered in the 1920 Gordon Bennett race also incorporated this feature, this "gadget" had never been publicly demonstrated in the United States before this race, hence the emotion of the crowd will readily be understood. The Bee-Line racer also embodies this feature, so that for the first two laps Selfridge Field was treated to a strange race between airplanes shorn of their landing gears. If one adds that a few days before the start of the Detroit Aviation Meeting Bert Acosta had by accident landed one of the Booth racers on its fuselage, having forgotten to unwind the undercarriage release gear, the mixed feelings of those who watched the landing-gearless race will better be appreciated.

The second heat of Pulitzer racers, which was sent off at 1 P. M., comprised four Curtiss ships all fitted with Curtiss engines, namely the two Army-Curtiss racers and the two Navy-Curtiss racers, plus the Navy "Mystery" ship. The latter had been completed but shortly before the race and its hurried assembling and testing rather handicapped its chances in the race. The Curtiss racers, and in particular the two Army ships, were naturally the prime favorites, for it was known that one of these ships had attained in unofficial tests at Garden City, N. Y., a maximum speed of 222 m. p. h. The question most discust was whether these extraordinarily fast ships would prove maneuverable enough on the turns to hold the speed they would make in the straightaways.

The race of these ships fully vindicated the expectations of the Curtiss engineers

and of the Army pilots who were flying them. Despite the terrific speed of their ships Lieutenant Maughan and Lieutenant Maitland swung them around in perfect banks at the pylons. As a matter of fact, in the opinion of many onlookers qualified to express a judgment on these matters, the two Army-Curtiss racers rounded the pylons with no more visible difficulty than the standard pursuit ships of the Air Service had done a few hours previously. The wonderful piloting by both Lieutenant Maughan and Lieutenant Maitland contributed in no mean way to this result, and words are inadequate for describing the masterly manner in which the two officers handled these ships which were rushing through the air at a rate of almost three and a half miles a minute.

Lieutenant Maughan broke all world's records for speed established in closed circuit for 100 and 200 kilometers.

To what extent this year's Pulitzer Trophy race lowered existing world's records may be seen from the following: Lieutenant Maughan exceeded the last world's speed record for 100 kilometers which was made by Sadi Lecointe at Paris, France, September 26, 1922. Lecointe's record has not yet been officially homologated. Lieutenant Maughan made the 100 kilometers (two laps of the Pulitzer course) at an average speed of 206.3 m. p. h.

Seven flyers, two of them Navy entrants and the other five Army men, broke the world's record for 200 kilometers when they exceeded the 174.8 m. p. h. mark established October 1, 1921, by Brack-papa in a 700 h. p. Fiat in France.

The new world's record for 200 kilometers (four consecutive laps of the Pulitzer course) was made by Lieutenant Maughan with an average speed of 205.9 m. p. h. The other five flyers who broke the old record are: Lieutenant Maitland, Army, 198.9 m. p. h.; Lieutenant Brow, Navy, 193.7 m. p. h.; Ensign Williams, Navy, 188.4 m. p. h.; Lieutenant Barksdale, Army, 180.9 m. p. h.; Lieutenant Moseley, Army, 179.2 m. p. h.; and Lieutenant Johnson, 178.8 m. p. h.

At the conclusion of the second flight Major-General Mason M. Patrick, chief of Air Service; Rear-Admiral W. A. Moffett, chief of the Naval Bureau of Aeronautics; and Edwin Denby, Secretary of the Navy, rushed on the field to congratulate Lieutenant Maughan.

Major-General Patrick was so pleased that he patted Maughan on the head instead of shaking him by the hand, while Secretary Denby frankly wept, overcome by the brilliant performance of the Army aviator.

Lieutenant Maughan was exhausted by his race and leaned against his plane for a few minutes until he had revived.

"I got lost four times in the haze," Lieutenant Maughan said. "I was stunned more or less at each of the fifteen turns. My worst moments, however, were at the turn at Gaukler's Point. I lost confidence, which a good aviator ought not do, and then became unconscious. On the straightaway I came to. Another trouble I had was with my feet going to sleep."

The speed at which these two pilots flew was so obviously superior to that of the other racers that after they had landed—Lieutenant Maughan by sideslipping to kill his speed—it was practically a foregone conclusion that the Army-Curtiss racers would win this year's Pulitzer race—as it happened. However, a word should be said about the two Navy-Curtiss racers flown by Lieutenant

You hear of *the 8 hour Day* What of the *8 hour Night?*

SLEEP is "Nature's sweet restorer." If you don't get enough of the *right kind* of sleep you can't be mentally alert. Nor can you be at your best, physically.

An eight-hour sleeping night is quite as important as an eight-hour working day. If you don't get your proper sleep, you become irritable; your work becomes a task.

If you are in the habit of drinking coffee, that may be the explanation of your disturbed and restless sleep with consequent nervous irritability. For coffee contains caffeine — a nerve-irritant.

Why not give yourself the benefit of the doubt? It's so easy to find out for yourself—stop coffee and drink healthful, fragrant Postum instead.

Postum is a pure and wholesome cereal beverage, absolutely free from caffeine or drugs of any kind. Thousands of people prefer it to coffee, for its rich flavor alone.

Postum FOR HEALTH

"There's a Reason"

POSTUM
comes in two forms:
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(in tins)
prepared instantly in the cup by the addition of boiling water.
POSTUM CEREAL
(in packages)
for those who prefer to make the drink while the meal is being prepared, made by boiling fully twenty minutes.

Made by Postum Cereal Co., Inc., Battle Creek, Mich.

A. J. Williams, U. S. N., and by Lieutenant H. J. Brow, U. S. N. These ships were originally built for last year's Pulitzer race, which one of them, won with Bert Acosta at the stick.

The modifications introduced consisted mainly in the fitting of wing radiators, following the design of the Army-Curtiss racers. Despite the advance made in the last twelve months in airplane design the two Navy-Curtiss racers made a very creditable showing. Lieutenant Callaway's ship actually covering the third lap at 196 m. p. h. Had it not been for the stupendous performance of the Army-Curtiss ships, the time made by the Navy-Curtiss ships would have undoubtedly received more attention than it did.

Lieutenant Williams incidentally had a thrilling experience when a fire extinguisher in his plane broke, a piece of it knocking his helmet off. He had great difficulty arranging his helmet while plunging on at better than three miles a minute. Fumes from the broken extinguisher sickened him, but he succeeded in finishing in fourth place.

When the last ship had landed, and the timer's stand announced the victory of Lieutenant Maughan, a great volume of cheers broke out from among the pilots, mechanics and others present. Many bets were won and many were lost, but all true patriots felt elated at this victory which placed America in the front rank of aircraft-producing countries.

A VIEW SHOWING THE RADIATOR IN THE WINGS

By covering the wings with a thin sheet of copper under which water from the engine circulates, the designers have been able to add ten miles an hour to the speed of the plane. This is a Navy racer, and its heavier construction reduces the speed considerably below that of the Army racer, the record holder, shown on page 67

The race also might seem to have settled the "controversial point as to the uses of thin and thick wings," observes *Aviation*, editorially. For—

> The four Curtiss biplanes which finished the race in leading places were all equipped with thin wings. Hence the race seemed to many as a victory of the thin-wing biplane over the thick-wing monoplane, for high-speed ships at any rate.
>
> This reasoning, while containing much truth, does not contain all the truth, however. There can be no doubt that at the present stage of aeronautical engineering the thin-wing biplane is, despite its greater apparent parasite resistance, more suitable for high-speed work than the thick cantilever monoplane, just as the latter gives better results in large weight-carrying ships than the thin-wing biplane. Nevertheless, if a fair comparison is to be made between the two types, it should be remembered that the thin-wing biplane benefits from some twenty years of continuous development, whereas the thick-wing monoplane, as a type, is but four years old. It would therefore be rash to state dogmatically that the thick wing will never be else than a weight-carrying wing.
>
> It should also be noted that the thick-wing monoplanes which participated in this year's Pulitzer race were the first genuine American examples of this construction, and that their constructors had very little precedent and no experience to go by in designing them. That despite this handicap the thick-wing monoplanes should have put up performances which were on the whole highly creditable is merely another illustration of the adaptability of the American aeronautical engineer to changed conditions and a brief of his ability to match anybody's product—if given a fair chance.
>
> As to the victorious Curtiss racers, all that need be said is that they represent almost the last word in refinement possible in biplanes. It may still be feasible that, by eliminating a few wires or by designing a more perfect streamline body, a few miles may be added to the speed of racing biplanes of equal power. But it seems to us as if we were pretty near the practical limit.

The Chicago *Tribune*, also, believes that we are near the practical limit of speed, and has no regrets for that fact. The editor believes the really important development of the airplane must take place along different lines. "Why fly four miles a minute?" he asks, and comments:

> Marvels of speed, probably the fastest rate at which man has ever moved and lived to tell the tale, have marked the aviation meet at Mount Clemens, Michigan. Lieutenant R. L. Maughan, U. S. Army pilot, set a world's record of more than four miles a minute. Think of traveling from the loop to Wilson Avenue in about a minute and a half and you will get some idea of his pace.
>
> That is interesting. It is very important from the Army standpoint. Development of such speed may win wars in the future. We may congratulate ourselves on this evidence of development in our military air service, and may well afford to make appropriations to continue the work.
>
> But for commercial purposes the marvels of speed have hardly more relation to practical peace requirements than the development of the race-horse Man o' War has to trucking requirements or farm labor, or the construction of a racing automobile has to coal deliveries. From the standpoint of commercial development the gliding experiments now going on in England, or which recently were made in Germany, are more important.
>
> Commercial aviation requires two things primarily. One is improved stability or safety of airplanes. The other is reduced cost of operation. Stability has already reached a point where a modern machine with two or three passengers and a capable pilot may operate with almost as much safety as a motor car on a crowded highway. But as the size of the machine is increased to carry more persons the danger of accident is correspondingly increased. And the small and safe machine can not operate except at high cost per passenger or unit of freight carried.
>
> It is these problems more than an increase of ten or 100 miles an hour in speed which commercial aviation must solve. The gliders are attempting solution. They are learning to keep aloft without motors by taking advantage of air currents, as a bird soars. One expert says if they could see the air they could even now remain aloft as long as they desired. They can't see it, but they are learning to feel it and "sense" it. Instruments will be developed to help them. Eventually we may have machines with light engines, using the air currents chiefly for buoyancy and the power for movement.
>
> We need all these features of development. But for commercial development, out of which finer improvements must come, unless aviation is always to remain a subsidized science, we most need safety and low costs. Safety, with caution, is virtually here. The low costs must follow. Public interest and patronage will bring them. And such sensational achievements as those at Selfridge Field will stimulate interest. That, in the final analysis, is their chief value outside the military.

The new world's speed record recalls to the writer of a bulletin on "Facts About Flying," published by the Aeronautical Chamber of Commerce of America, that, on September 21, 1908, Wilbur Wright, in France, established a world's speed record of 27.2 miles an hour. Some other records are mentioned:

> On December 17, 1903, Orville Wright, in a biplane designed and constructed by his brother Wilbur and himself, equipped with a 16 horse-power motor, also of their design and construction, made the first successful flight in a motor-driven flying craft—12 seconds, at 30 to 35 miles an hour.
>
> Orville Wright, an American, was the first man in the world to fly in a heavier-than-air machine. In the calendar year 1921, in the United States alone, nearly a quarter of a million people were carried by air.
>
> On November 13, 1908, Wilbur Wright established what was then a world's altitude record of 82 feet.
>
> Lieutenant J. MacReady, U. S. Air Service, in an American designed and constructed biplane, equipped with a 400 horse-power Liberty motor, ascended 40,800 feet over Dayton, Ohio.
>
> Santos Dumont, in a flight in France, on November 12, 1906, astounded the world by making what was then the unparalleled duration record of 21 seconds. The present record, made by Army airmen, is over 35 hours.
>
> A fourth world's record in aviation went to American craft and an American pilot, when David McCulloch, with three passengers, climbed to 19,500 feet in a Loening monoplane air yacht, Liberty motored, at Port Washington, Long Island, on August 16, 1921.

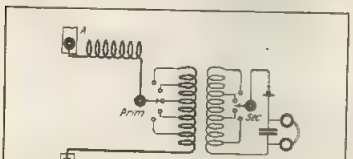
A POCKETBOOK RADIO SET

THE ATTENTION OF CHRONIC INVALIDS and bedridden convalescents is called to a way in which they might beguile some tedious hours by imitating Mr Raymond M. Moore, who made a compact radio receiving set out of an old pocketbook, while confined to bed recovering from a long illness. In *Radio News* (New York), Mr. Moore gives a cheery account of the way he did it.

"Why not install a wireless in your billfold?" Especially when you're broke! After reading in *Radio News* about a prize for the smallest portable radio outfit, I decided my billfold would suit more use carrying a wireless than money. This is the method I used.

Take a billfold or card-case of the ordinary kind that folds over twice.

"The coil to the extreme right is the secondary and is constructed on the pancake style in the following manner: Take a



HOOKUP OF THE WALLET WIRELESS

piece of cardboard or wood ½" x 1¾" x ¼" and paste a piece of cardboard 2" x 4" on either side so the first piece forms a core for the coil. Then wrap 450 turns of 31 S.S.C. wire on this, taking a tap every 90 turns. This makes a coil about 2 x 3¾". Break frame away from it and fasten on the billfold with an ordinary needle and thread, running the taps under the primary to switch.

"The primary is placed on the center of the fold and is constructed and fastened on much the same principle as the secondary. It consists of 820 turns of No. 28 S.S.C. wire, a tap on the first 80 turns and every 40 thereafter, making seven in all.

"The extreme left of the fold is given over to the panel or control. This is a piece of fiber or some stiff insulating material 1⅜" x 4¼" x ⅛" and is slipt under the transparent cover where identification card belongs. On this are mounted the primary and secondary switches, the crystal detector and binding posts. The condenser is also mounted here.

"The primary switch is of the usual rotary type and has a 1" radius. The small fiber handle is grooved and slipt on a lever, as there is hardly enough room for a screw in it. Since such small switch points are hard to get, it is of interest to know I took these out of old electric-light sockets. They are just right. The bearing for the primary switch leads the antenna binding post. Both switches increase counter clockwise.

"The secondary switch is much the same as the primary, but is a little longer to allow for the condenser which is mounted under it. It has a radius of 1½" and uses the upper fone binding post as a bearing.

The condenser which is mounted between the two middle binding posts or the fone binding posts is 1¼" x 1¼" square and has flaps on each side to connect to posts. It is of the usual stoppage variety.

"The detector cup or cup is also directly connected to the lower fone binding post and is set down in the panel. It should be made of good spring brass to hold the crystal well. The cat whisker wire is fastened on the lower right post.

"The post directly below the detector cup is the ground. About 10 feet of wire are fastened to this for use as ground connection with a clip on the end which can be hooked to anything handy in the ground line or to a tinned spike driven into a tree trunk. This is wound over the antenna holders when not in use.

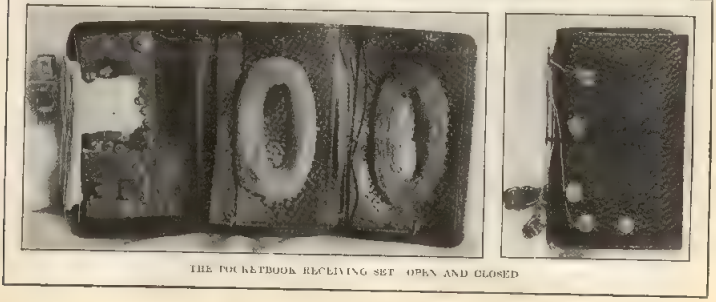
"The coil on the left of the panel is the antenna, or if not needed for that, the fixt loader. It is made of about 100 feet of No. 28 wire and is wound on two pieces of wire bent in U-shape and a long tail which is inserted between the end of the panel and the end of the fold. As much wire can be put on as is convenient and needed to give satisfaction. One end of this is fastened to the antenna binding post and the other to a clip similar to a ground clip.

"This makes an outfit which is complete, except for the fones, in 19¼ cubic inches or an overall measurement of 4¾" x 3¼" x 1¼" when folded to carry. In fact it is no bulkier than the ordinary well-filled billfold. The coupling is varied by opening and closing the right-hand flap.

"Care should be taken in placing the coils to see that when closed the primary is directly below the secondary. This is done to secure the best coupling."

HE HAS MUSIC IN HIS PURSE

Raymond M. Moore who made the pocketbook radio outfit while also in bed. What no can do when he is well is not stated



THE POCKETBOOK RECEIVING SET, OPEN AND CLOSED

RADIO · DEPARTMENT

ETHER WAVES VERSUS CRIME WAVES

TO THE AMATEUR ENTHUSIAST it has seemed that the authorities were singularly slow to take advantage of the very obvious potentialities of radio as a regular police equipment. Not that the opportunities have been entirely overlooked. There have been reports, notably from Chicago, of police automobiles equipped with radio outfits, but the photographs that accompanied the reports suggested a rather crude and makeshift effort; and it does not appear that anything like an adequate and comprehensive attempt to realize the full possibilities of the scientific application of the new art to the apprehension of the malefactor has elsewhere been made by the guardians of the law.

It appears, however, that the delay has not been due to lack of appreciation on the part of the authorities, but only to certain difficulties necessarily inherent in the introduction of a new method in a highly specialized organization. Now it would seem that these are by way of being overcome, and we learn that steps have been taken to make radio available as a regular part of the equipment of the metropolitan police force. The New York *Times* gives details of the important enterprise. We quote:

"A wireless broadcasting station of the latest type has been installed at Police Headquarters in this city, and within a few months the police boats, police inspection district headquarters and stations will be equipped with receiving sets, so that they may obtain early information on stolen automobiles and crimes and criminals. The Police Department has received the special permission of the Department of Commerce through Secretary Hoover to operate on a special wave length of 400 meters, a band not allocated to any one else, so that there will be no interference whatever with the police broadcasting station.

"A second set for the city is to be erected on the top of the Municipal Building by the Western Electric Company.

I. A. A. photo

CHICAGO POLICE AUTO WITH RADIO OUTFIT

Talking with headquarters

Kadel & Herbert photo

BROADCASTING SET AT NEW YORK HEADQUARTERS.

"Joseph A. Faurot, the famous finger-print expert, and Deputy Commissioner in charge of the New York police executive departments, inspected the new station yesterday and made some successful tests with the apparatus.

"'If what Mr. Evans, the Western Electric engineer who is instructing our operators in the use of the equipment, states is true,' Mr. Faurot said, 'the Police Department will be able without any difficulty to cover an area of at least 30,000 square miles about this station. This should prove a great aid to us in running down stolen automobiles, locating missing persons, spreading alarms, and in all other work where secrecy is not an essential factor. Every amateur receiving station in a radius of at least 100 miles from the city will become a sort of police outpost, enabling us to spread emergency information at a much quicker rate than is now possible.

"M. R. Brennan, Superintendent of the Police Telegraph Division, who, with Commissioner Enright himself, was mainly influential in clearing the way for the installation of the station, explained some of the radio plans of the local department.

"'We have already arranged with Mr. Hoover, Secretary of Commerce, for a special wave length for exclusive police purposes,' he said. 'The fact that there can be no delay in the dissemination of police news makes it out of the question for us to take any chances on being interfered with by the commercial broadcasting stations

"'Mr. Hoover, who recalled how the New York department was the first to make a success of radio telegraphy for police work some years ago, has been quick to realize our position and has authorized us to send on a 400-meter wave length Later, if it becomes necessary for the Department of Commerce to allow wider scope to any of the present users of the 360-meter wave length, it has been agreed that we will widen our range to 500 meters.

"'We have already made arrangements,' Mr. Brennan said, 'to equip our police boats and inspection district offices with radio telephonic receiving sets. As we progress with the idea, receiving stations will be installed in all precinct headquarters and special operators will be detailed to attend them twenty-four hours a day. When the other large cities take to radio telephony for administrative purposes, we expect to be able to establish a network of broadcasting and receiving stations that will make it possible to give a national alarm almost instantaneously.'"

débris, sawdust, has long been regarded as one of the most hopeless. Immense heaps mark the location of old saw-mills, and it soon collects in such quantities around woodworking establishments that it has to be hauled away by the truckload Now it can be turned into feed. Says the writer:

"Most of us have heard the story of the economical farmer who fitted his mule with green spectacles and then fed him excelsior and sawdust in lieu of grass and ensilage. Had not the mule expired the experiment would have been a great success. To-day, however, this experiment is being repeated in a modified form and with excellent results. Moreover, we do not have to go to the expense of providing the livestock with colored glasses to persuade them that the proffered food is palatable. They eat it with relish and with profit.

"White-pine sawdust, for instance, when treated with dilute sulfuric acid and cooked under pressure with steam, undergoes a chemical change and is partially converted into glucose, a simple sugar which is both digestible and nutritious. The resultant mixture, which contains from 14 to 18 per cent of glucose, is then neutralized with lime, the sugar dissolved, and the solution filtered off and boiled down under reduced pressure to the consistency of molasses. This molasses is then added to the partially dried sawdust residue, and a product closely resembling bran is obtained.

"The processing of sawdust may be carried a step further and the sugar formed allowed to ferment so that alcohol is produced—not wood alcohol, either, but the type which once was used to rout dull care. It is estimated that 300,000,000 gallons of alcohol could be produced from the sawdust, shavings and scraps of lumber which are annually wasted at the mill. Eventually we must have another motor fuel to enhance or replace our fast dwindling supply of gasoline, and alcohol seems to offer the greatest promise.

"These are only a few of the many things we are doing toward increasing industrial efficiency. It is evident that American industry is more or less alive to the necessity of cutting down its flagrant waste. Probably no other nation has been eating up its principal at a livelier rate than we, altho this principal, if carefully handled, should not only supply our needs and desires, but those of indefinite generations. We have discovered, developed and are using our wealth, and now we are rapidly learning to save it."

BIRD'S SPECTACLES—The remarkable observation has been made that the eyes of birds contain drops of colored oil. For example, domestic fowls look out upon an orange colored world because of the globules of orange-colored oil in the eye, which acts like an orange-colored lens. A careful study of this phenomenon by an investigator named Hennmg, has revealed the fact, according to *Reclam's Universum*, Leipzig, that the object of this provision is to increase the range of vision, especially in foggy weather. As a matter of fact our own vision can be similarly improved, too, in a fog, by the wearing of orange-colored glasses. If, for example, the unaided eye has a range of 300 yards in such weather, the donning of such spectacles increases the visible distance to 2,000 yards. This provision is likewise very useful to birds of prey, enabling them to detect the smallest animals on the surface of the earth from great heights It is said, too, that the reddish yellow oil globules in the eyes of migrating birds make it possible for them to perceive the coast of Africa from the shores of Italy, even in a dim light.

A NEW STANDARD IN LOCOMOTIVES

THE OLD RULE OF SIMPLICITY has been discarded in a new type of engine built for the New York Central lines. By assembling a variety of devices, none of which is claimed to be particularly new or radical, the designer has been able to produce a locomotive that operates with the minimum fuel, weight and cost of repairs, and to secure ease and safety. The statements are made in an article contributed to *Mechanical Engineering* (New York) whose author justifies our headline by his assertion that the new engine "sets a new standard" in railway traction. The continued improvement in steam locomotives may be regarded in some measure as a challenge to electric traction, which altho occupying its own field in increasing degree, will not, at any rate for a long time in the future, succeed in ousting steam completely. He writes

"Regardless of the gesture threatening electrification of railroads sometime in the future, the development of steam locomotives goes merrily on. The most recent example of remarkable progress is a new Mikado placed in heavy fast-freight service on the Michigan Central. This machine embodies the results of a score of years of study and research and altho no official tests have been taken, the performance has been so satisfactory that the order has been placed for one hundred and fifty according to the same detail specifications. In its initial road test, it hauled 100 heavily laden coal cars and later pulled a train of 140 cars containing more than 9,000 tons of coal, this over the level division between Toledo and Detroit.

"'No. 8000,' as this extraordinary engine is designated, was built by the Lima Locomotive Works according to designs made under the supervision of President A. H. Smith of the New York Central Lines. The best known practises and devices have been incorporated.

"The first requirement of maximum tractive effort for the minimum weight is an elimination of unnecessary weight and this has been accomplished, without sacrifice of strength, by refinements in design and by the use of alloy steels and hollow axles and crank-pins. Without tender, the locomotive weighs 334,000 pounds. The tender with its capacity of 10,000 gallons of water and 16 tons of coal, weighs 199,700 pounds. Maximum tractive effort of 74,500 pounds is obtainable, a booster on the trailer truck delivering 11,000 pounds. In a statement issued by the New York Central Lines, attention is especially directed to the fact that, compared with the heaviest Mikados in the Michigan Central service, No. 8000, with an increase in weight of only 2 per cent., has an increased tractive power of nearly 8 per cent. from the forward cylinders alone and with the booster the increase is 26 per cent.

SIMPLICITY DISCARDED IN FAVOR OF ECONOMY

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INVESTMENTS AND FINANCE

THE FUTURE OF AMERICAN MANUFACTURING

WHILE we are undoubtedly on the upswing of the existing business cycle, these little booms and depressions we experience every few years are, as a writer in *The Annalist* notes, only "ripples on the surface of a rising curve of physical production" which has been carrying us steadily upward for about fifty years. The question, we are told, is whether this "long-run curve" can continue to rise for another fifty years. "Upon the future slope of this curve hang tremendous consequences; the profits of American business, the size of the American population in 1950 and in 2000 A.D., the maintenance of the American standard of living, the position of the United States as a world power fifty or a hundred years hence and, in short, the whole destiny of the America of our children and our children's children." The writer, Mr. Homer Hoyt, a professor of Economics in the University of North Carolina, points out that we have developed a manufacturing capacity in excess of our own needs, so that considerable amount of foreign trade is necessary for our prosperity. We must now choose between two alternatives. We may keep the prices of manufactured goods from falling any lower, and restore the balance of prices "by raising the prices of farm products up to the level of other goods and services." "Such a consolidation of American prices on a plateau 60 per cent. above the pre-war level would tend to maintain an internal equilibrium, but it would," we are told, "cut us off from foreign markets." We could prosper to a certain extent with the help of tariff laws, for "we have resources enough to be self-sustaining, provided we limit our population and maintain a proper balance between agriculture and manufacturing, by contracting the size of our manufacturing plant." But, we read

> If we follow this course, we must be prepared while maintaining internal peace and contentment to see other nations forging ahead in population and in manufacturing capacity, and becoming ever relatively more powerful as we stand still. We must be prepared to give up our insatiable thirst for industrial expansion. It will be a happier, better balanced national life with greater stress upon art and culture perhaps, but it will not make us more vigorous and powerful as a nation

Now comes the other alternative. We can maintain the expansion and manufacture that has been going on for half a century, but to do so our manufacturers must lower their prices to pre-war levels or below, and this means a program of standardization and consolidation at home and active competition abroad. As Professor Hoyt outlines the process:

> Standardization, increasing use of machinery and industrial concentration are interchangeable terms. Each one is both the cause and the effect of the other. The more standardized the article, the more machinery can be used in its production, and the cheaper the cost. The greater the degree of standardization, the greater the concentration of industry. Two concerns making one standardized article will undercut each other's prices until one gains all the business. The great number of styles and brands which is favorable to hand and not machine production is caused by the attempt of small concerns to avoid price competition, by producing goods that will sell on the basis of a difference in quality instead of a difference in price.
>
> Standardization of American goods will thus either be the cause or the effect of a series of gigantic mergers and consolidations, which will not end until all of American industry is in fact one technical manufacturing unit. As nations are becoming complete self-sustaining industrial and manufacturing units, since Germany pointed the way, American industry as a unit will tend to compete with Great Britain, Japan and Germany as units for the markets of the world. By consolidating all of our industries until all become part of one complete industrial machine, we shall produce at far less expense than we do at present with hundreds of thousands of separate units that fit loosely and wastefully together. The so-called point of diminishing returns in manufacturing recedes further and further with every increase in standardization and concentration. For a single industry producing a standardized article, cost decreases with every increase in output until a world monopoly is attained. But this is not all. The cost of producing the one standardized article with a world monopoly is lowered still further if other standardized articles are produced in the same country, for, in the technical machine industries, concentration and efficiency in one line aid concentration and efficiency in other lines.

Professor Hoyt shows how this process might logically develop until "every industry is a monopoly and these monopolies are located in one country under one gigantic world control." He reminds us that factory capacity is, to a large extent, potential military power, "and the Disarmament Conference had nothing to say as to that." Therefore, he concludes,

> Business profits, the prosperity of American wage-earners and the very existence of the United States as a great Power demand a complete reorganization of our manufacturing industries, to the end that out of the present chaotic medley of firms duplicating each others' efforts and using antiquated hand methods of production, there shall arise gigantic industrial consolidations producing standardized goods linked together in one efficient American manufacturing machine that will undersell the world. We do not seek this power in any selfish or imperialistic sense, but until competitive manufacturing expansion is limited by a conference of nations, self-preservation demands that America do her best.

books of early days when the world was younger are far more informal than this one on "Eudocia."

For all that, there is excellent character drawing and a certain splendor to the story. Pictures that glow with rich colors and a pomp that stirs the imagination are a part of the book. And there are threads of plot and counterplot that weave into a puzzling pattern. It is not very long, and it is not likely that having begun it one will be satisfied to leave it unfinished. There is a fascination in seeing the clever men and women, in watching their machinations to hinder traps, what is hard to read. It is a joy to watch the strong and wicked as they set themselves, to have their own plots work against them. And the book is full of this sort of interest.

But it is hardly the kind of book we have the right to expect from Phillpotts, and that is the reason it is not being treated with greater praise by the present reviewer. There is a kind of hollow reverberation to it, a great to-do about a slight matter. "What's all the shootin' for?" you feel like remarking.

A good enough novel for some casual writer is not good enough for Phillpotts. Or, if good enough for him in some casual mood, then it ought not to be put forth with a certain assumption of importance, and yet this assumption is decidedly present in "Eudocia." A story of intrigue in a picturesque setting it is; but it is not a mirror into which we may look and find the reflection of mankind in all times, as it assumes to be.

A GOOD WOMAN'S CHILDREN

IN spite of the wide-spread theory that women do not appreciate irony it is only they who will fully understand and enjoy Miss E. M. Delafield's latest book "Humbug" (Macmillan, $2.00). It shows a state of things uncommon, if not long since abolished in this country and, according to modern writers, slowly disappearing in England—the intrinsic falseness of much that has been heretofore considered necessary in the bringing up of children. Yet if our own education has been on entirely different lines from that of Lily Stellenthorpe, still we of the older generation recognize many of the platitudes that were current in our young days, tho we may have been sufficiently fortunate to have escaped them.

The story deals with the life of Lily Stellenthorpe and the insidious sapping of her mental force and integrity by means of the atmosphere of pious insincerity that surrounds her from her youth. At its opening Lily and Yvonne are the only children of Mr. and Mrs. Stellenthorpe who are thus trenchantly described. "The mother . . . was a good woman, and had all a good woman's capacity for the falsification of moral values. Her husband was so constituted that it would not be unjust to describe him in identical terms." Yvonne, aged about ten, had nearly died in infancy of water on the brain and in consequence was very slightly deficient mentally. This her parents would never acknowledge, and consequently the poor child, subjected to the same tests and discipline as Lily, was unjustly treated, both in demands and punishments, an injustice which Lily, who loved her sister with a protective love, was the first to perceive and resent. When Yvonne finally dies the natural feeling of relief is of course suppressed, for Philip Stellenthorpe "was unable to refrain from exacting the due meed of conventionality that he took for a tribute to Yvonne's memory."

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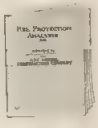
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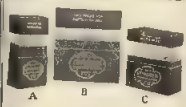
PLAYING CARDS

(and Congress Playing Cards)



For Auction Bridge Players

New Two-Pack Cases of Congress Cards

Two packs, Whist (narrow) size, of contrasting back designs in one telescope case. Convenient for traveling. Perfect for Auction Bridge parties. Ideal gifts. Cases are regular Congress full color pictures, decorative or initial backs, gold edges. Cases stamped in gold. Three styles of case as shown. If your dealer can't supply you we will mail cards postpaid $1.70 for each two-pack case. Specify case desired, A, B, or C.

Send for these books

The Official Rules of Card Games — 300 games, 250 pages. Answers every question — 20 cents

How to Play Auction Bridge — Teaches all the fundamental points of the game — 10 cents

Six Popular Card Games — Rules of Auction, Cribbage, Five-Hundred, Pitch, Pinochle, Solitaire — 6 cents.

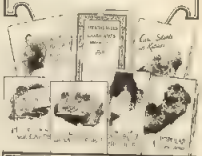
How to Entertain with Cards — Everything from invitations to prizes and menus — 6 cents

Fortune Telling with Playing Cards — Complete directions for telling fortunes with a regular pack of cards — 6 cents.

Card Tricks for the Amateur Magician — Tricks that can be done with a regular pack of cards — 6 cents.

Card Stunts for Kiddies — How to use old playing cards in an infinity of cardboard for kindergarten pastimes — 6 cents

All 7 books postpaid, 50c



The United States Playing Card Co.
Dept. B 2, Cincinnati, Ohio

Send me postpaid the books which I have underlined.

Official Rules 10c Card Stunts 6c
Card Tricks 6c Fortune Telling 6c
Entertaining with Cards 6c,
Auction Bridge Lessons 10c.
6 Popular Games 6c.
All seven books for 50c.

Also send..... two-pack cases Congress Cards, Whist size, case style $1.70 per case.

Name.....

Address.....

City.....

State.....

CURRENT EVENTS

FOREIGN

March 29.—Four prisoners are killed and ten wounded when Red Guards fire into a crowd attempting to prevent confiscation of church treasures in the province of Ivanovo-Bozniesensk, Russia.

Armed men hold up the staff of the *Freeman's Journal* in Dublin, destroy the presses and set fire to the building. A special constables' patrol runs into an ambuscade of Republican army men on the Armanagh-Monahan line, and three of the constables are killed.

The International League of Red Cross Societies moves headquarters from Geneva to Paris and decides to permit membership of all countries, regardless of their attitude during the late war.

The famous shrine of Ste. Anne de Beaupre in Quebec, Canada, is destroyed by fire, with a property loss of $1,200,000.

March 30.—A peace agreement providing for their mutual cooperation to prevent further disorders and bloodshed is signed by Michael Collins, head of the Irish Free State Provisional Government, and Sir James Craig, Premier of Ulster.

The German Reichstag passes a resolution declaring the demands of the Reparations Commission to be intolerable.

March 31.—The Turkish Government of Constantinople accepts, with certain reservations with regard to Thrace, the Allied Foreign Ministers' suggestion for a truce between the Greeks and Turkish Nationalists in Asia Minor.

April 1.—Former Emperor Charles of Austria-Hungary dies in Funchal, Madeira Island, where he had been exiled.

April 2.—More than 3,000 Irish Free State troops defy their Free State commanders in Dublin and in a public demonstration take an oath of allegiance to the republic and renounce their loyalty to the Dail Eireann. Five men are killed and six children are wounded in Belfast.

Continuous earthquake shocks are felt throughout Serbia, and many homes are destroyed.

April 3.—Premier Lloyd George receives a vote of confidence on his Genoa Conference policy, by a vote of 372 to 94.

The Chamber of Deputies gives Premier Poincaré a vote of confidence by a vote of 484 to 78.

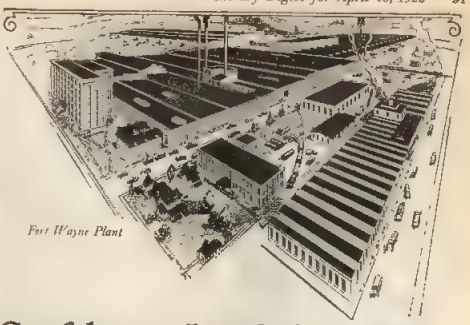
Dispatches from Vladivostok report a clash between Japanese troops and forces of the Chita Government, following a demand by the Japanese that the latter disarm. Eight of the Chita soldiers are reported killed.

A proclamation signed by 19 Royalists, headed by Count Albert Apponyi, declares that Otto, son of the late King Charles, is King of Hungary.

DOMESTIC

March 29.—The naval armament limitation treaty and the treaty restricting the use of submarines and poison gas in warfare are ratified by the Senate.

The House passes the army appropriation bill carrying about $280,000,000 to meet military and non-military



Fort Wayne Plant

Confidence—Justified!

Since 1885 public faith in Bowser Pumps has kept Bowser in the lead of their industry.* You can depend absolutely on getting full, accurate measure and quick service of gasoline and oil from Bowser Pumps everywhere. Full measure means full mileage, so be sure to look for the Bowser trade-mark and know you are safe in your filling station.

Bowser equipped filling stations and their patrons profit through Bowser Prestige.

Write for full information on the new Bowser Piston-Type Visible Pump.

* Bowser today is the oldest and largest manufacturer of self-measuring pumps.

Fig. 00
Bowser Pump

S. F. BOWSER & CO., Inc.

Oldest and Largest Manufacturers of Self-Measuring Pumps

Home Plant: Fort Wayne, Indiana

Factories and Warehouses: Albany, Dallas, San Francisco, Sydney, Toronto

District Offices: Atlanta, Kansas City, Chicago, Dallas, Denver, Detroit, Minneapolis, New York, Philadelphia, Pittsburgh, St. Louis, San Francisco, Toronto

Representatives Everywhere

Branch Offices, with Service Departments, in Principal Cities Across

BOWSER
ESTABLISHED 1885
ACCURATE MEASURING PUMPS

BOWSER PRODUCTS

For Handling Gasoline and Oils Wherever Sold or Used

- Filling Station Pumps and Tanks for Gasoline.
- Portable Tanks for Gasoline and Oil.
- Storage and Measuring Outfits for Paints, Oils, Kerosene and Lubricating Oils.
- Power Pumps.
- Carload Oil Storage Tanks.
- Dry Cleaners' Underground Naptha Clarifying Systems.
- Richardson-Phenix Oil Circulating and Filtering Systems and Force Feed Lubricators.

Ask for Booklets

The customer sees, through the sight-glass, that the measure is full

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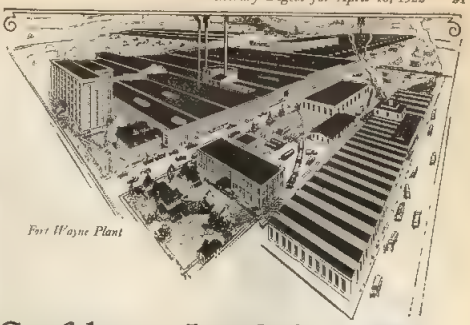

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Since 1885 public faith in Bowser Pumps has kept Bowser in the lead of their industry.* You can depend absolutely on getting full, accurate measure and quick service of gasoline and oil from Bowser Pumps everywhere. Full measure means full mileage, so be sure to look for the Bowser trade-mark and know you are safe in your filling station.

Bowser equipped filling stations and their patrons profit through Bowser Prestige.

Write for full information on the new Bowser Piston-Type Visible Pump.

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Home Plant: Fort Wayne, Indiana

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Branch Offices, with Service Departments, in Principal Cities Across

BOWSER
ESTABLISHED 1885
ACCURATE MEASURING PUMPS

BOWSER PRODUCTS

For Handling Gasoline and Oils Wherever Sold or Used

- Filling Station Pumps and Tanks for Gasoline.
- Portable Tanks for Gasoline and Oil.
- Storage and Measuring Outfits for Paints, Oils, Kerosene and Lubricating Oils.
- Power Pumps.
- Carload Oil Storage Tanks.
- Dry Cleaners' Underground Naptha Clarifying Systems.
- Richardson-Phenix Oil Circulating and Filtering Systems and Force Feed Lubricators.

Ask for Booklets

The customer sees, through the sight-glass, that the measure is full

safe rejoinders. They are introduced as follows:

If you keep in mind this final adjuration you'll save much for yourself when that day eventually rolls round in which you, as humans are wont to do, will slip and find yourself face to face at last with a rugged, weatherbeaten and uniformed guardian of the streets who, if you have been exceeding the speed limit, might ask, "Where's the fire?"

The best thing to do in this event shall be set forth in the words of a veteran traffic officer whose procedure and reasoning are characteristic and typical of the tribe of Cop. Listen to him:

"If you were exceeding the speed limit and know it, admit it. If you were traveling too rapidly and didn't realize it, say that perhaps you were, and express regret. Don't lie. If you're not an old offender and telling what appears to be a straightforward story, the chances are 10 to 1 that you'll be permitted to drive on with a warning. Officers want to arrest and convict only those careless and reckless drivers who persistently endanger other users of the streets and highways."

Women drivers are seldom arrested. This is not because they are women and perhaps fair to look upon. It is because Milady, when held up by the copper, shows plainly her distress when told that she has erred in driving; because by her blushes and her visible embarrassment she instantly convinces the officer that her delinquency was unintentional. She does not bellow at him. She asks him just what it was she did that was wrong and says she is terribly sorry.

UNMUDDLING OUR MOTOR REGULATIONS.

THE fifty-seven varieties of motor laws and regulations which obtain throughout the United States, as applied to the more than ten million motor vehicles on our roads, are reported to have resulted in one of the most thoroughgoing muddles in history. When the Twentieth Century Limited pulls out of the terminal at New York or Chicago, every foot of its thousand-mile run is safeguarded by standardized signals. When the *Majestic* leaves her pier and straightens out for a transatlantic voyage she is subject, over every knot of her course, to binding navigation rules and regulations. But, turning to the vast volume of motor-vehicle traffic which is flowing in endless streams by day and night over our roads and streets, "What do we see?" asks Arthur C. Mack, in *Motor Life* (New York):

What standardization of signals governs the movements of these more than 8,000,000 passenger cars and upward of a million commercial vehicles? In fixing these signals, what attention has been given to uniformity or to psychological reaction? Let us see.

Altho motor transportation is largely interstate, each one of our forty-eight States has its own set of traffic laws, and not content with this chaos there are other sets of regulations imposed by counties, cities, villages, and hamlets. There is a hodge-podge of laws on speed, lights, right-of-way, cut-outs, etc., etc. Sometimes, as with New Jersey, for instance,

"Some present from Dad"

WHAT a wonderful thing it will be for any boy whose Dad makes it possible for him to take his first lesson on Christmas day on his very own

BUESCHER True-Tone Saxophone

Every boy should play some musical instrument. Of all musical instruments, the True-Tone Saxophone is the most popular. It is the one that just fits a boy's fingers, appeals naturally and instinctively to musical natures.

The tone of the Saxophone is full and rich. It attracts and tempts a boy to play it. It encourages him to get out and develops his musical talent.

A Saxophone will help keep your boy out of mischief by occupied with things worth while. It will help to improve his time instead of wasting it, it will bring him in contact with better, cleaner associates.

Easiest to Play

The Buescher Saxophone is so perfected and simplified that it is the easiest of all musical instruments to learn.

It is the instrument that everyone can play and it wholly satisfies that longing everybody has to personally produce music.

Your boy can learn the scale in an hour's practice, play popular music in a few weeks and take his place in an orchestra or band within a few months.

Nothing can take the place of the Saxophone for home entertainment, church, lodge, school. It increases the pleasure you get out of life, increases your popularity and your opportunities.

$500 to $1000 weekly for but two hours a day is not uncommon for those with ability to play Buescher Instruments. Have helped make famous Paul Specht and his Orchestra, Jean Goldkette and his Orchestra, Vincent Lopez and his Orchestra, Ben Selvin and his Orchestra, Rega Records, Brunswick Records, Clark and Randolph Records, Cleo Brown and her Trio, Clay Smith, Guy Holmes, Henry Busse, Columbia Records, Gene Rodemich (Brunswick Records) and thousands of others. Your boy might develop equal ability.

JOSEPH C. SMITH
Director Joseph C. Smith's Orchestra, always famous for its fine records and now making Brunswick Records exclusively. Plays Buescher Band Instruments and Saxophones.

Free Trial—Easy Payments

GENE RODEMICH
Directs Gene Rodemich's Orchestra. Hear them in Brunswick Records (for dancing) playing Buescher Instruments.

We make it easy for you to get your boy a Saxophone this Christmas. You may order any Buescher Saxophone, Cornet, Trumpet, Trombone or other Band or Orchestra Instrument without paying a cent. Then play it for a whole week without obligation. If not entirely satisfied, return it at our expense. If you like it, pay for it a little each month to suit your convenience.

PAUL S. SPECHT
Director Paul S. Specht and his Orchestra. Hear his Buescher Saxophone in superb Columbia Dance Records.

Saxophone Book Free

After one has learned to play one of the Buescher instruments he is almost entirely independent of sheet music. He can play popular music by ear. He can improvise his own jazz effects. He can play in harmony with others. He can play in trio, quartette, etc. It is the instrument for home entertainment, church, lodge, school, orchestra and band.

Our Free Saxophone Book tells which Saxophone to play—the alto, tenor, C melody, baritone, bass or cello and bass parts, and many other things you would like to know. Ask for your copy now.

Buescher Band Instrument Company
1937 Buescher Block Elkhart, Indiana
Makers of Everything in Band and Orchestral Instruments

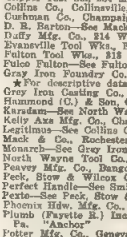
BUESCHER True-Tone Band Instruments

75% of all popular phonograph records are played by Buescher saxophones

Buescher Band Instrument Co.
1937 Buescher Block, Elkhart, Ind.
Please send me catalog and booklet on the instruments checked below.
Saxophone Cornet Trombone Trumpet
Kindly write any other instrument interested in.
Name . . . . . .
Street Address . . . . . .
Town . . . . . State . . . . . .

BETTER HATCHET SALES

Hardware stores report phenomenal sales on Bur-Nor All-Steel Hatchets, because the Bur-Nor is a better hatchet for less money and the only hatchet sold with a *guaranteed unbreakable handle.*



BUR-NOR TRADE MARK

ALL-STEEL HATCHETS

Blade of tempered steel holds cutting edge.

Tubular steel handle reinforced and riveted to blade and head.

Practically a one-piece hatchet.

Unlimited, absolute guarantee against breakage in use. Tag tied to each handle.

We also manufacture—
Builders Hardware
Screen Door Catches
Chest Handles
Ball Bearing Wheels
Go Cart Wheels
Wagon Hardware
Automobile Bearings and Parts
Household and Kitchen Knives
"Stand-Up" Scrubber
Brush and Hand Axes

Send for Catalogue

Writes for details of our free Window Display Testing Device. It draws the crowds.

BURGESS-NORTON MFG. CO.
Geneva, Ill.

HASPS and STAPLES

Auer, John, Jr., 197 Middleton, Brooklyn, N. Y.
Bonney Forge & Tool Wks., Allentown, Pa.
Brainerd Mfg. Co., East Rochester, N. Y.
Brewer Bros. Co., 2d & Somerset Sts., Philadelphia, Pa.
Buffum Tool Co., Louisiana, Mo. "Swastika"
Cary Mfg. Co., Manhattan Bridge Plaza, Brooklyn, N. Y.
Corbin, P. & F., New Britain, Conn.
Corbin Cabinet Lock Co., New Britain, Conn.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Frantz Mfg. Co., Sterling, Ill.
Griffin Mfg. Co., Erie, Pa.
Hager (C.) & Sons Hinge Mfg. Co., 2447 De Kalb, St. Louis, Mo.
I. X. L.—See Niagara Metal Stamping Corp.
Landers, Frary & Clark, New Britain, Conn.
Lanz (M.) & Sons, 2907 Carson, Pittsburgh, Pa.
Larson, Chas. O., Sterling, Ill.
Laughlin (Thos.) Co., Portland, Me.
★For descriptive data of the above, see index on page 6
Lawrence Bros., Sterling, Ill.
McKinney Mfg. Co., Metropolitan St., Pittsburgh, Pa
★For descriptive data of the above, see index on page 5
National Brass Co., Grand Rapids, Mich.
National Mfg Co., Sterling, Ill.
Ney Mfg Co Canton, O.
Niagara Metal Stamping Corp., 200 10th, Niagara Falls, N. Y. "I. X. L."
★For descriptive data of the above, see index on page 6
Russell & Erwin Mfg. Co., New Britain, Conn. "Russwin"
Russwin—See Russell & Erwin Mfg. Co.
Stanley Wks., New Britain, Conn.
Swastika—See Buffum Tool Co.
Titchener (E. R.) & Co., Binghamton, N. Y.
★For descriptive data of the above, see index on page 6
Western Brass Mfg Wks., Marshall Blvd. & 21st, Chicago, Ill
Wickwire Spencer Steel Corp., Madison Av. & 42d, New York, N. Y.
★For descriptive data of the above, see index on page 6
Wilcox, Crittenden & Co., Middletown, Conn.

HAT HOOKS—See Hooks, Coat and Hat

HATCHETS

Acme—See Evansville Tool Wks.
American Axe & Tool Co., Charleston, W. Va.
Anchor—See Plumb (Fayette R.) Inc.
Arcade Mfg. Co., Freeport, Ill.
★For descriptive data of the above, see index on page 6
Black (John B.) Co., Chester, Pa. "Royal," "Wm. Beatty & Sons"
Burgess-Norton Mfg. Co., Geneva, Ill. "Bur-Nor," "Scout"
★For descriptive data of the above, see index on page 6
Bur-Nor—See Burgess-Norton Mfg. Co.
Clipper Tool Co., 284 Mills, Buffalo, N. Y.
Collins Co., Collinsville, Conn. "Legitimus"
Cushman Co., Champaign, Ill.
D. R. Barton—See Mack & Co.
Duffy Mfg. Co., 214 W. Grand, Chicago, Ill
Evansville Tool Wks., Evansville, Ind. "Acme"
Fulton Tool Wks., 313 6th, Pittsburgh, Pa. "Fulco Fulton"
Fulco Fulton—See Fulton Tool Wks.
Gray Iron Foundry Co., Reading, Pa.
★For descriptive data of the above, see index on page 6
Grey Iron Casting Co., Mt. Joy, Pa. "Monarch"
Hammond (C.) & Son, Ogonta, Pa.
Karsdam—See North Wayne Tool Co.
Kelly Axe Mfg. Co., Charleston, W. Va.
Legitimus—See Collins Co.
Mack & Co., Rochester, N. Y. "D. R. Barton"
Monarch—See Grey Iron Casting Co.
North Wayne Tool Co., Hallowell, Me. "Karsdam"
Peavey Mfg. Co., Bangor, Me.
Peck, Stow & Wilcox Co., Southington, Conn. "Pexto"
Perfect Handle—See Smith (H. D.) & Co.
Pexto—See Peck, Stow & Wilcox Co.
Phoenix Hdw. Mfg. Co., 49 Illinois, Buffalo, N. Y.
Plumb (Fayette R.) Inc., Tucker & James Sts., Philadelphia, Pa. "Anchor"
Potter Mfg. Co., Geneva, O.
Reading Saddle & Mfg. Co., Reading, Pa.
Romer Axe Co., Dunkirk, N. Y.
Royal—See Black (John B.) Co.
Rubinow Edge Tool Wks., 35 Vesey, Newark, N. J.
Sayre (L. A.) Co., 338 Mulberry, Newark, N. J.
Scout—See Burgess-Norton Mfg. Co
Smith (H. D.) & Co., Plantsville, Conn. "Perfect Handle"
Stover Mfg & Engine Co., Freeport, Ill.
Underhill Bros. (Charlestown), Boston, Mass.
Vaughan & Bushnell Mfg. Co., 2114 Carroll Av., Chicago, Ill.
★For descriptive data of the above, see index on page 6
Weston, Thos. B., 708 Light, Baltimore, Md.
What Cheer Tool Co., What Cheer, Ia.
Williams (A. C.) Co., Reverse, O
Winchester-Simmons Co., New Haven, Conn.
Wm. Beatty & Sons—See Black (John B.) Co.
Wrightsville Hdw Co., Wrightsville, Pa.

HATCHETS, Boy Scout—See Axes, Boy Scout

HATS, Dolls'

Fluegelman, E., 664 8th Av., New York, N. Y.
Kahn, M. L., 45 E. 20th, New York, N. Y.
Kroeger, Richard G., 895 4th Av., New York, N. Y.
Mayer (Emil) Baby Cap Co., 25 W. 20th St., New York, N. Y.
Universal Doll Outfitters, 95 E. 89th, New York, N. Y.

HATS, Paper

Beistle Co., Shippensburg, Pa.
Chicago Toy Wks., 1816 Orchard, Chicago, Ill.
Fawkes (Frank S.) & Co., 528 S. Clark, Chicago, Ill.
Huntinghouse (R.O.) Cotillion Wks., 1816 Orchard, Chicago, Ill.
Kirby Mfg. Co., Middletown Conn
Leistner, Oscar, 319 W Randolph, Chicago, Ill.
Lennie & Co., 292 Church, New York, N. Y
"Old Glory" Mfg. Co., 206 W. Van Buren, Chicago, Ill.
Paper Novelty Mfg. Co., 227 5th Av., New York, N. Y.
Rothschild, M., 830 Broadway, New York, N. Y.
Wright Faber & Co., 43 Exchange Pl., New York, N. Y

HAWKS, Plasterers'

(See also Floats, Plasterers')

Anderson, Chas. E., 983 Pacific Av., Brooklyn, N. Y.
Billings Union Trowel Wks., 75 Berclay, New York, N. Y
Buffum Tool Co., Louisiana, Mo. "Swastika"
Columbia Wood Tool Mfg. Co., 157 E 128th, New York, N. Y.
★For descriptive data of the above, see index on page 6
Empire Level Mfg. Co., 818 1st Av., Milwaukee, Wis.
Holtum Mfg. Co., Freeport, Ill
★For descriptive data of the above, see index on page 6
Marshalltown Trowel Co., Marshalltown, Ia.
Swastika—See Buffum Tool Co.

HAY BUNCHERS—See Bunchers, Hay

HAY CARRIER ROPE—See Rope, Hay Stacker

HAY CARRIER SLINGS—See Slings, Hay Carrier

HAY CARRIER TRACKS—See Tracks, Hay Carrier

HAY CARRIERS—See Carriers, Hay

picture to myself the solicitation of advice from industrial leaders on the part of our university professors.

There is nothing dishonorable in a university scientist seeking a patent. On the contrary, he gains enormously thereby in international prestige. Of course he usually is condemned at home by the university drones unable to comprehend the value of ideas other than their own; but such childish criticisms are negligible.

The establishment of a 10-year period for research in pure science for a man after receiving his doctorate is all well enough and admirable for the future of both university and industry, no matter where the young man casts his lot, but the salary paid is usually so small during the early years of this constructive period that barely a living wage is afforded the scientist. Physically he may become more or less a wreck.

The financing of these men and their investigations brings out the proposal which the authors have suggested. They argue that the industries will gladly pay for patents then obtainable after assignment to the universities. This is all true enough, but there will be so little of patentable nature that the university and the investigator will reap greater renown if he goes on his quiet way with never a thought of patent or legal advice until he himself runs across something which he recognizes is new and which he is anxious to secure in his own name.

GELATIN, A PARTIAL FOOD

THAT gelatin is a true food, although nourishing only when taken with certain other foods, is asserted in *The American Food Journal* (New York) by Robert Herman Bogue, industrial fellow of the Mellon Institute, Pittsburgh.

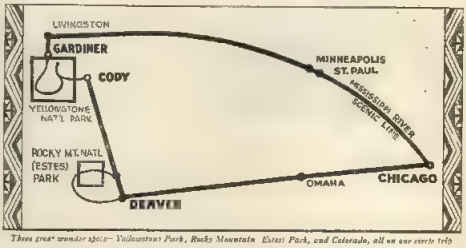
In the minds of some people, says Mr Bogue, there exists a prejudice against the use of gelatin on account of the relationship which they think that it bears to glue, and to what they believe to be the source of the product. From the days of our childhood we have heard that gelatin was made from horns and hoofs, but this is not true. Neither gelatin nor glue can be obtained from that source. He goes on:

Gelatin and glue are obtained by cooking pieces of skin, tendons, cartilagenous material, and bones, with water below the boiling point. The fundamental distinction between edible gelatin and glue lies in the selection of the raw material, and the care exercised in handling. Only the perfectly fresh, clean, healthy stock is permissible for the manufacture of edible gelatin. After a very thorough washing the materials are allowed to soak in lime water sometimes for several weeks. Further washing follows and the lime is neutralized with an acid and again washed. The cooking is conducted in enamel or other non-corrosive tanks. Bacterial contamination is especially guarded against. When gelatin is prepared in this manner, and no subsequent deterioration has occurred, there can be no reasonable objection raised, from an esthetic point of view, to its use in the dietary.

We are not permitted to regard gelatin as the equivalent of the combined proteins, such as are found in milk, meat, eggs, etc.

That it functions as a true food is proven,

THE route to Yellowstone Park



Three great wonder spots—Yellowstone Park, Rocky Mountain (Estes) Park, and Colorado, all on our circle trip

Note where your Burlington-Northern Pacific Vacation takes you—for the price of a round-trip ticket to Yellowstone alone!

Enter Yellowstone through Gardiner Gateway—tour the park—leave over Cody Road—words cannot describe it. Then, Colorado—side trip to tranquil Rocky Mountain (Estes) Park. Thence Denver and near-by vacation regions direct, or across the Continental Divide to Grand Lake and back through Denver's Mountain Parks. In one trip, on through trains!

Vacation costs are down

This year your dollar goes much farther. You can now afford to see the wondrous West.

FREE Book—Yellowstone Park

Everything you want to know about Geyserland. Read about it. Send for your copy today.

P. S. EUSTIS
Passenger Traffic Manager
C. B. & Q. R. R. Chicago

A. H. SMITH
Passenger Traffic Manager
Northern Pacific Railway
St. Paul Minn.

Burlington - Northern Pacific Planned Vacations

TEXACO GASOLINE

THE *VOLATILE* GAS

Volatility is the readiness with which gasoline gives up its power

BEFORE 1902 The Texas Company did not exist. In but 20 years the public demand for Texaco Products has built a business of immense size.*

This widespread demand is so insistent as to compel a continuous and rapid increase in production and distribution. The public shows its appreciation of *distinctive, uniform quality* in an unmistakable way.

This great demand for Texaco Products is final proof that the soundest scientific practice in the refining of petroleum, pays Every Texaco Product is made upon this important principle.

Texaco Gasoline is a good example. More power and readier, was the universal wish. Texaco Gasoline gives it, through high and uniform volatility.

Texaco Motor Oil is another instance; the Oil famed for its heavy body and its refinement to a *clear, pale* color.

That Texaco Gasoline is the *same* wherever you fill your tank, is a vital point of its popularity. Touring in New England in summer, or beneath Florida palms in winter, visiting America's wonder-scenes such as the Grand Canyon, or the Rockies, or Niagara, or the unsung beauty of thousands of less known places, you find that the trail leads to the Texaco Red Star.

At these filling stations you always find Texaco Gasoline and Texaco Motor Oil, and the satisfaction of improved operation and upkeep.

THE TEXAS COMPANY, U. S. A.
Texaco Petroleum Products

*In the last ten years the consumption of Texaco Gasoline has increased from 160,000 to over 1,000,000 gallons a day.

TEX

GASOLINE

ACO

MOTOR OILS

Roofs of Striking Beauty at Little Cost—

An artistic colorful roof! Nothing adds so much to the charm of a home, be it cottage or mansion

Yet a roof of striking beauty—of Barrett Everlastic Shingles like the one pictured—is very inexpensive It is moderate in first cost and practically free from maintenance expense

Barrett Everlastic Shingles are reinforced on the weather-side with an everlasting mineral surface in fadeless natural colors either a cool green, or a warm cheerful red. And on the under side a "seal-back" of special waterproofing compound stubbornly resists the deteriorating action of air and moisture.

The four styles of Barrett Everlastic Roofings briefly described at the right -two kinds of roll roofings and two forms of shingles include roofing suitable for any type of steep-roofed building. They are all moderate in price, easy to lay, and soundly economical

Be sure you get a Barrett Everlastic brand

The Barrett Company

Four Styles

Everlastic Multi Shingles The newest thing in roofing for [illegible] Made [illegible] with a red or [illegible] Where less they look [illegible] of the [illegible] and [illegible]

Everlastic Strip Shingles [illegible] Made [illegible]

Everlastic Mineral Surfaced Roofing [illegible]

Everlastic Rubber Roofing [illegible] Thousand [illegible] kinds of buildings all [illegible] country are protected [illegible] and weather by Everlastic [illegible] ber Roofing [illegible] the [illegible] Its [illegible] [illegible] easy to [illegible] Less than [illegible] labor required. Nails and [illegible] included in each roll.

SOUP MAKES THE WHOLE MEAL TASTE BETTER

Aiming straight I'm here to state
Brings you home the winner.
Just aim at health and you'll have wealth—
Eat Campbell's for your dinner!

A hit every time!

Because it makes your appetite "sit up." Because it starts your meal off with a snap. Because it tastes so mighty good and meets your hunger more than half way. That's why you like Campbell's Tomato Soup. And remember it. And want it over and over again.

Cream of Tomato

made with Campbell's is a dish of special luxury. Heat separately equal portions of Campbell's Tomato Soup and milk or cream. Be careful not to boil. Add pinch of baking soda to the hot soup and stir into the hot milk or cream. Serve immediately. Many prefer to use evaporated milk for an extra rich, thick Cream of Tomato.

Delightful variety in Campbell's Soups

Asparagus	Mulligatawny
Bean	Mutton
Beef	Ox Tail
Bouillon	Pea
Celery	Pepper Pot
Chicken	Printanier
Chicken Gumbo (Okra)	Tomato
Consomm	Tomato Okra
Julienne	Vegetable
Mock Turtle	Vegetable Beef
Vermicelli-Tomato	

Your grocer can supply any of these soups

21 kinds **12 cents a can**

Campbell's SOUPS

LOOK FOR THE RED AND WHITE LABEL

CLEMENCEAU EATS SOUP FOR BREAKFAST

Nineteen Hundred and Twenty Three
Will be a glorious year for me
With lofty ambition
And Campbell's nutrition
I'll make it one long jubilee!

Aiming high!

Call on our famous chefs and our great kitchens to give you a "lift" every day. Let them help you in the coming year to make your home even brighter and better than it is. Every member of your family will enjoy the delicious and nourishing Campbell's Soups. And they save your time for other things.

Campbell's Vegetable Soup

is a dish of real substantial food –thirty-two ingredients blended with utmost skill. Baby limas, dainty peas, luscious tomatoes, sugary corn, white and sweet potatoes, tasty turnips, Chantenay carrots, snow-white celery, chopped cabbage, alphabet macaroni, fine barley, French leeks, okra, and fresh parsley, with rich beef broth to tempt the appetite. Aim high tonight! Serve this splendid soup!

21 kinds **12 cents a can**

Campbell's Soups

LOOK FOR THE RED-AND-WHITE LABEL

THE GREAT BREAKFAST FOOD—GOOD, HOT SOUP

She's a dandy housekeeper
So I said, 'Let's go!
For she's a Campbell's housekeeper
And has her soup just so.

"—and they lived long and happily ever after."

Let Campbell's Soups help. Every taste of them puts an extra sparkle in your meal—they're so delicious and nourishing and tempting. Go to your grocer today and select an attractive Campbell's assortment, including your favorite soups and several "new" kinds for variety. Then see how much more everybody enjoys their food.

Campbell's Tomato Soup

is the favorite of millions—the best-liked soup in the world. Taste it and you'll know why! Luscious sun-sweetened tomatoes—aristocrats of the vines—give to it their pure tonic juices, enriched with smooth, golden table butter and the most delicate of piquant spicing. A bright spot in any meal!

21 kinds **12 cents a can**

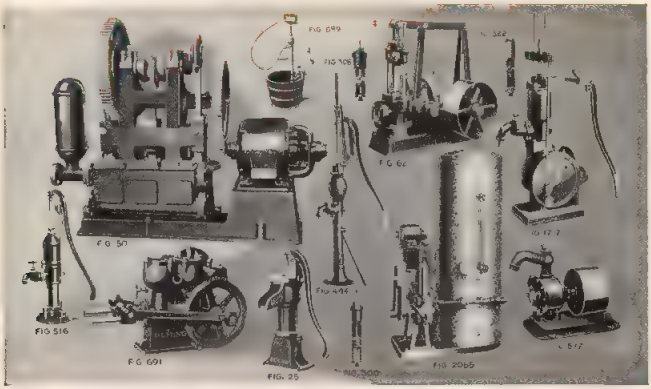
Delightful Variety in Campbell's Soups

Asparagus	Mulligatawny
Bean	Mutton
Beef	Ox-tail
Bouillon	Pea
Celery	Pepper Pot
Chicken	Printanier
Chicken Gumbo (Okra)	Tomato
Consommé	Tomato Okra
Julienne	Vegetable
Mock Turtle	Vegetable Beef
Vermicelli-Tomato	

Your grocer can supply any of these soups

Campbell's Soups

LOOK FOR THE RED AND WHITE LABEL



A Niagara of Liquids Flows from Deming Pumps

Water, brine solutions, gasoline, grease, oils, soap, cider, fruit juices, molasses, chemicals, wood pulp, film "dope," spraying mixtures and yes, even soup help to swell the tremendous volume that daily passes through Deming Hand and Power Pumps.

Add to today's total pumpage, the totals of each day of the past forty-two years, and the bare suggestion staggers the imagination! From this more or less fantastic word picture comes one clear cut, paramount fact—

For your pump needs, you may confidently turn to the Deming line, assured of satisfaction, because of the remarkable background of success behind the pump you will install.

256 Page General Catalogue on Request.

THE DEMING COMPANY, SALEM, OHIO

Established 1880

GENERAL DISTRIBUTING HOUSES:

BOSTON
Chas. J. Jager Co.

CHICAGO
Henion & Hubbell

PHILADELPHIA
W. P. Dallett Co.

PITTSBURGH
Harris Pump & Supply Co.

NEW YORK
Ralph B. Carter Co.

SAN FRANCISCO
Crane Co.

LOUISVILLE
Laib Co.

DENVER
Hendrie & Bolthoff Mfg. & Supply Co.

Deming

HAND AND POWER **PUMPS** FOR ALL USES

You will help us improve this Buyers' Service, if you mention HARDWARE BUYERS CATALOG AND DIRECTORY when writing to firms listed.

This Gold Seal Identifies America's Most Popular Floor-Covering

THESE little corner glimpses, printed here in but two colors, can give you only the slightest hint of the real charm of Gold Seal Congoleum Art-Rugs. To fully appreciate their beauty and variety of coloring and design you must see the rugs themselves.

Look for the famous Gold Seal Guarantee, which stores that sell Gold Seal Congoleum Art-Rugs usually display in their windows. This Gold Seal is your protection against imitation floor-coverings. Also be sure to look for it on the goods when you buy.

Patterns for Every Room

There are patterns suitable for every room in the house—simple tile designs for kitchen and bathroom, restful color combinations for bedroom, dining room and living room. You will be charmed by their beauty and coloring—amazed at their very low prices.

Waterproof—Sanitary—Need No Fastening

And Congoleum Art-Rugs are so easy to clean and so practical. A light mopping makes them bright and spotless in a twinkling. They hug the floor, *without fastening of any kind.*

Note the New Reduced Prices

6 x 9	feet	$ 8.10	1½ x 3	feet	$ .50
7½ x 9	feet	10.10	3 x 3	feet	1.00
9 x 10½	feet	14.15	3 x 4½	feet	1.50
9 x 12	feet	16.20	3 x 6	feet	2.00

The rugs illustrated are made only in the four large sizes. The small rugs are made in other designs to harmonize with them.

Owing to freight rates, prices in the South, west of the Mississippi and in Canada are higher than those quoted.

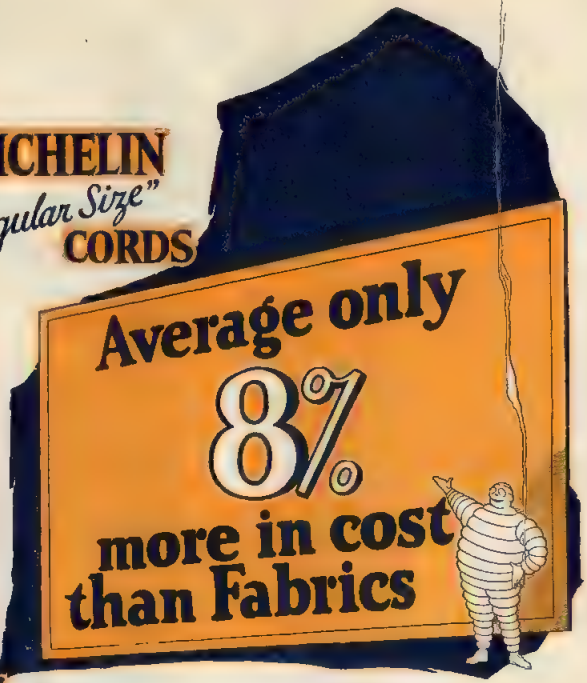
Attractive designs and colorings, durability, ease-of-cleaning and amazing economy of price—small wonder that Congoleum Gold Seal Art-Rugs are America's most popular floor-covering!

CONGOLEUM COMPANY
INCORPORATED

Philadelphia, Dallas, New York, Boston, Pittsburgh, Chicago, Minneapolis, Atlanta, San Francisco, Kansas City, Montreal

Gold Seal CONGOLEUM ART-RUGS

MICHELIN
"Regular Size" CORDS



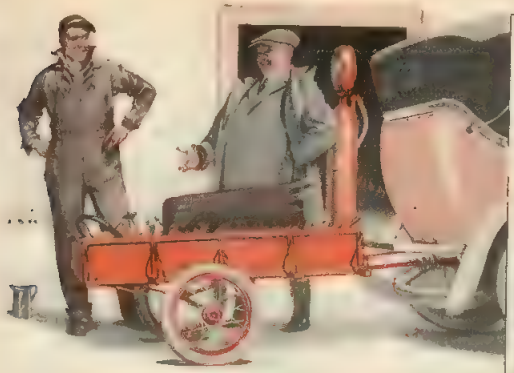
HERE is the tire for which hundreds of thousands of motorists have been waiting. A tire that gives an average of 30% more mileage than a fabric, as proved by tests covering hundreds of thousands of miles—yet costing only 8% more—in other words, 22% mileage free.

These new cords are the same size as your fabric tires and interchangeable with them, and may be fitted one at a time as your fabrics wear out. Thus you may change to cords by easy stages at practically no increased expense. Just ask the nearest Michelin Dealer about "Regular Size" Michelin Cords.

MICHELIN offers a complete line of cord tires, oversize and regular size, in one quality only, the best—all just as good as the famous Michelin Ring-Shaped Tubes

MICHELIN TIRE COMPANY, MILLTOWN, N. J.

Wholesale branches in 30 leading cities. Dealers everywhere



"I'm prepared for the Worst

. . . Give me a Quart of Oil"

AT LEAST 50% of all serious engine troubles are traceable to the careless request—"*Give me a quart of oil.*"

You can't dodge this fact.

There is a wide gulf between the average "pick-up" oil and Gargoyle Mobiloil.

We suggest you ask for Gargoyle Mobiloil, being particular to specify the correct grade for your car.

How the Right oil saves money

Many motorists expect entirely too little from their lubrication.

The grade of Gargoyle Mobiloil specified for your car feeds adequately to every friction point. It protects. It seals the piston rings against blow-by of gasoline and power—it saves gasoline. It cuts down operating troubles. And you will be surprised at your greater freedom from carbon.

Yes: Gargoyle Mobiloil costs a few cents more per gallon. It costs more to manufacture. But you will see the real economy of this few cents difference after you observe the operating results.

Not a gasoline by-product

Nine out of ten lubricating oils on the market are simply by-products in the manufacture of gasoline.

Gargoyle Mobiloil is *not* a by-product.

It is produced by lubrication specialists who are recognized the world over as leaders in lubricating practice. Gargoyle Mobiloil is manufactured from crude oils chosen for their *lubricating* qualities—not for their gasoline content. It is manufactured by processes designed to bring out the highest *lubricating* value—not the greatest gallonage of gasoline.

This is one of the essential reasons for the superiority of Gargoyle Mobiloil.

Warning!

Don't be misled by some similar sounding name. Look on the container for the correct name *Mobiloil* (not Mobile) and for the red Gargoyle.

Mobiloil

Make the chart your guide

Domestic Branches:

New York (*Main Office*) Boston Chicago Philadelphia
Detroit Pittsburgh Indianapolis Minneapolis
Des Moines Buffalo Kansas City, Kan. Dallas

Chart of Recommendations

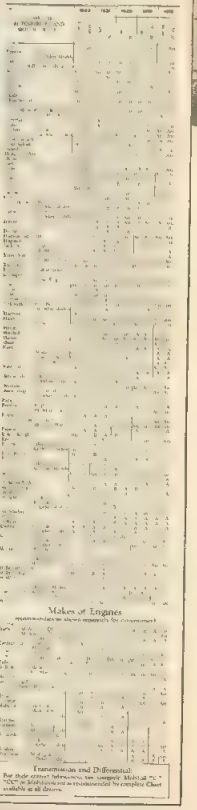
(Abbreviated Edition)

THE correct grades of Gargoyle Mobiloil for engine lubrication of both passenger and commercial cars are specified in the Chart below.

How to Read the Chart — A means Gargoyle Mobiloil "A"; B means Gargoyle Mobiloil "B"; BB means Gargoyle Mobiloil "BB"; Arctic means Gargoyle Mobiloil Arctic.

Where different grades are recommended for summer and winter use, the winter recommendation should be followed during the entire period when freezing temperature may be experienced.

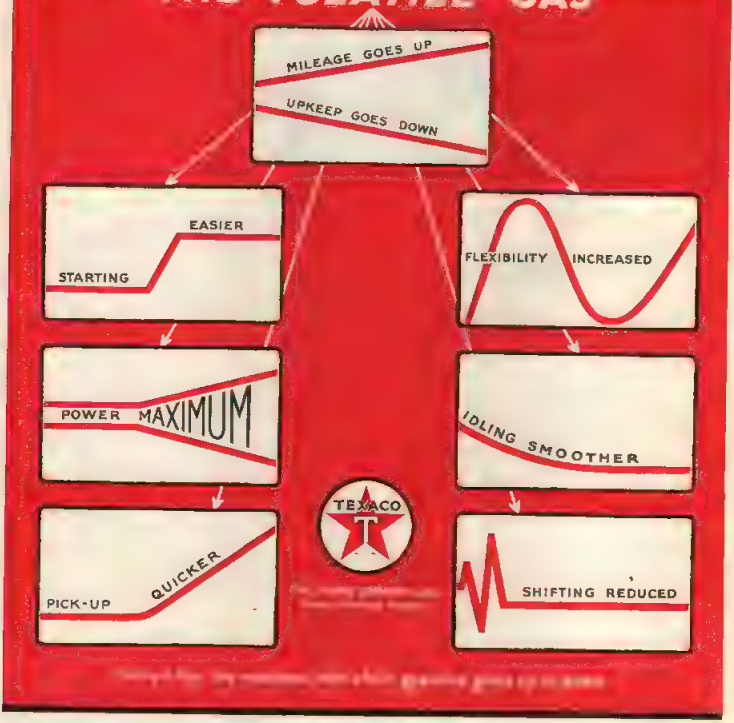
The Chart of Recommendations is compiled by the Vacuum Oil Company's Board of Automotive Engineers, and represents our professional advice on correct automobile lubrication.



VACUUM OIL COMPANY

TEXACO GASOLINE

THE VOLATILE GAS



TEXACO

GASOLINE MOTOR OILS

The Volatile Gas — *The Clean Clear Oil*

The vital instant

in a motor comes when compression is complete, piston at top and spark fires. Every ounce of traction delivered to the rear wheels results from the action of the gas at that vital instant. Upon the degree of volatility of the gasoline depends the translation of every molecule into maximum energy at that vital instant.

TEXACO GASOLINE

THE *VOLATILE* GAS

(Volatility is the readiness with which gasoline gives up its power)

The high volatility of Texaco Gasoline comes into evidence in many ways; perhaps most unmistakably in the congestion of city traffic, where its delivery of quick impulse in response to the accelerator is sure to be observed and appreciated.

Texaco Motor Oils are heavy-body lubricants, and are distinguished by their clear, pale color. Light, medium, heavy and extra-heavy—they fit all cars and all conditions. You will find them wherever you see the Texaco red star*.

THE TEXAS COMPANY, U. S. A.
Texaco Petroleum Products

*In ten years the consumption of Texaco Lubricating Oils has increased from 300,000 gallons per month to 7,500,000 gallons per month.

TEXACO

GASOLINE MOTOR OILS

Winter Troubles

come from "GIVE ME A QUART OF OIL"

How to safeguard your engine

COLD WEATHER! What makes starting so difficult? Perhaps incorrect lubrication is adding to your winter engine troubles.

True: the engine is cold. True: gasoline vaporizes more slowly in cold weather. Lubrication won't help these conditions.

But scientifically correct lubrication *is* of special importance in winter. The grade of Gargoyle Mobiloil specified for your car will assist you to start your engine more quickly and with greater protection than inferior oils possibly can.

Why? Because every winter requirement of your car was studied and provided for when the Vacuum Oil Company's Board of Automotive Engineers prepared the recommendations which you see in the Chart.

Winter factors are: the design and construction of the engine—the type of lubricating system—the location of the oil pump—the size and mesh of the oil screen—the size and possible exposure of the oil piping.

Get economy All Winter

The grade of Gargoyle Mobiloil specified for winter use in your engine begins to circulate when the engine starts. Quicker starting and full protection are assured. This quicker starting lessens the drain on your battery. You do not need to use the choker so much—and thus the oil is not so quickly diluted with raw gasoline.

To get this thorough protection against winter engine troubles we suggest that you draw off all old oil while the engine is warm. Do not flush with kerosene. Then re-fill to the proper level with the correct grade of Gargoyle Mobiloil.

IMPORTANT: Many cars require more fluid oils in winter than in summer. Where such change is necessary you will find it plainly indicated in red on the partial Chart shown at the right. If your car is not listed in this partial Chart, the dealer from whom you buy Gargoyle Mobiloil can easily tell you the correct grade from his copy of the complete Chart.

Protect yourself against By-product Oils

Of course, oils which are by-products in the manufacture of gasoline cannot give you the fullest protection against winter troubles.

So, make sure that you see the red Gargoyle and the full name—Gargoyle Mobiloil—on the container when you buy lubricating oil. Then you will get oil which is made only from crude oils specially selected for their lubricating value.

Mobiloil

Make the chart your guide

Chart of Recommendations

(Abbreviated Edition)

THE correct grades of Gargoyle Mobiloil for engine lubrication of both passenger and commercial cars are specified on the Chart below

How to Read the Chart:
A means Gargoyle Mobiloil "A"
B means Gargoyle Mobiloil "B"
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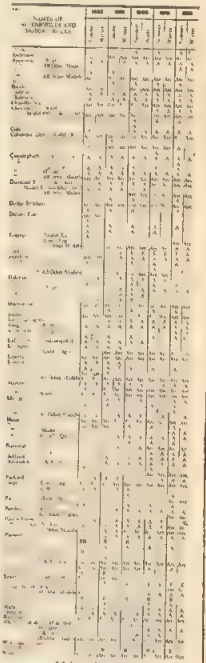
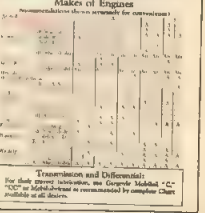
E means Gargoyle Mobiloil "E"
Arc means Gargoyle Mobiloil Arctic

Where different grades are recommended for summer and winter use, the winter recommendation should be followed during the entire period when freezing temperatures may be experienced.

This Chart of Recommendations is compiled by the Vacuum Oil Company's Board of Automotive Engineers, and represents our professional advice on correct automobile lubrication.



Makes of Engines



Transmission and Differential: For these proper lubrication, use Gargoyle Mobiloil "C" "CC" or Mobilubricant as recommended by complete Chart available at all dealers.

VACUUM OIL COMPANY

Domestic Branches: New York (Main Office) Boston Chicago Philadelphia Pittsburgh Detroit Rochester Indianapolis Buffalo Minneapolis Kansas City, Kan. Des Moines Dallas

Valspar—the Varnish of countless uses—

DUKE KAHANAMOKU of Hawaii, famous athlete, expert on the surf-board and world champion 100-metre swimmer has discovered still another use for Valspar. Duke Kahanamoku writes:

Honolulu, T. H., May 3, 1921

"Have used Valspar on my surf-boards for several years, and find that it preserves the wood, because it is waterproof and prevents the water from soaking in. No matter how long the board is used in the water, the Valspar is not affected and does not change color." DUKE KAHANAMOKU.

Valspar is durable, easy to apply, weatherproof and *waterproof*—"the Varnish that won't turn white."

Valspar's well-known uses—on floors, furniture, woodwork, linoleum, airplanes, boats and railroad trains—are supplemented by countless others such as

Baby Carriages	Golf Clubs
Window Screens	Tents
Trunks	Fishing Rods
Hand Luggage	Tennis Rackets
Wicker Furniture	Oilskins
Refrigerators	Gun Stocks
Fireless Cookers	Snow Shoes
Draining Boards	and Skis
Boots and Shoes	Etc., etc.

In fact, anything that's worth varnishing is worth Valsparring.

Don't overlook the coupon below.

VALENTINE & COMPANY

Largest Manufacturers of High Grade Varnishes in the World—Established 1832

New York Chicago Boston Toronto London Paris Amsterdam

W. P. FULLER & Co., Pacific Coast

VALENTINE'S VALSPAR

The Varnish That Won't Turn White

The famous Valspar boiling water test

This coupon is worth 20 to 60 cents

VALENTINE & COMPANY, 456 Fourth Ave., New York

I enclose dealer's name and stamps, amounting to 15c for each 35c sample can checked at right. (Only one sample of each product supplied at this special price. Write plainly.)

Dealer's Name	Valspar ☐
Dealer's Address	Valspar Stain ☐ State color
Your Name	Valspar Enamel ☐ State color
Your Address	

Lit. Dig. 4-1-22

The famous Valspar boiling water test

New Woodwork for Old— with Valspar Varnish-Stain

This Spring—brighten up and protect your woodwork and furniture with Valspar Varnish-Stains. These stains have more than their beautiful colors to recommend them. They are Valspar itself—the waterproof, weatherproof, accident-proof varnish—*plus* attractive natural wood colors.

You apply both Valspar and Stain with one stroke of the brush—anyone can do it! Valspar Varnish-Stains can be secured in Light Oak, Dark Oak, Walnut, Mahogany, Cherry, or Moss Green. They bring out the grain and beauty of the wood with pleasing clearness.

Remember that Valspar Varnish-Stains are for both indoor and outdoor use—that they are easy to apply and dry hard over night. Use the coupon below for sample.

VALENTINE & COMPANY

Largest Manufacturers of High Grade Varnishes in the World—Established 1832

New York Chicago Boston Toronto London Paris Amsterdam

W. P. Fuller & Co., Pacific Coast

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VALENTINE & COMPANY, 456 Fourth Ave., New York

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Valspar Stain . . ☐
State color . . . . .
Valspar . . . . . ☐
ValsparEnamel . ☐
State color . . . . .

Dealer's Name . . . . . .

Dealer's Address . . . . . .

Your Name . . . . . .

Your Address . . . . . City . . . . .

L-I. Dec. 5-27-22

VALENTINE'S VALSPAR VARNISH-STAIN

THE GOLDEN RULE OF HEALTH—EAT SOUP DAILY

Here is a game the kids acclaim
With vigor, vim and zest
Their pep and force derived, of course,
From "Ox Tail" at its best.

—and thereby hangs a tale

Campbell's is Ox Tail Soup at its best. Not merely a deliciously satisfying food but a recognized health-builder as well. It brings you, in a tasty dish, the native vigor of meaty, marrowy ox joints; the beneficial properties of fresh vegetables and herbs; the strength-building qualities of barley.

Campbell's Ox Tail Soup

A rich, nourishing stock made from medium-sized ox tails, combined with diced Chantenay carrots and golden turnips, tomato puree, sliced ox tail joints, celery, parsley, barley, a little leek, and a touch of flavoring to bring out the natural savor of this delicious combination. Order Ox Tail today.

21 kinds **12 cents a can**

Campbell's Soups

LOOK FOR THE RED AND WHITE LABEL

GREAT FOR BREAKFAST—GOOD, HOT SOUP

We'll show the world with flag unfurled
The reason we're the winner
To play the game just speak this name
When buying soup for dinner!

The World's Champions

Plenty of home runs where Campbell's Soups are served. They're a hit with the men always. Ask any of your friends. They'll tell you Campbell's are just right for the home plate. Try Campbell's Tomato today—lunch or dinner. See how great it tastes and how it speeds up your appetite.

Campbell's Tomato Soup

has a tonic, delicious flavor that makes you remember it and have it over and over again. From the ripe, tempting tomatoes the Campbell's chefs use only the pure juices and rich, "fruity" parts strained to a smooth puree, blended with choice butter and nicely spiced. You'll say it's your "favorite!"

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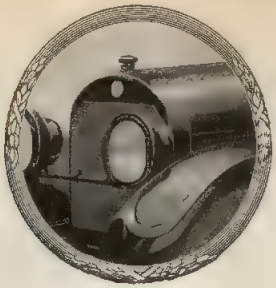


An Appreciation of a World Tribute

It would be ungrateful indeed if the builders of the Cadillac did not pause at this time to express appreciation for the tribute accorded by the public to the Type 61 Cadillac.

This improved Cadillac has received a degree of enthusiastic approval unique even in Cadillac's long-triumphant history.

The results logically accruing from such approval are evident. This has been Cadillac's most successful year. The greatest of past sales records have been exceeded by thousands of cars.

But more gratifying by far to Cadillac builders than an unprecedented sales record is the unbounded admiration evoked by the new high level of mechanical success that the Type 61 Cadillac has attained.

The new Cadillac has demonstrated, so convincingly as to leave literally no room for argument, that it possesses a degree of power and dependability unequalled by even the finest preceding Cadillac.

Is it surprising, then, that the allegiance of the vast body of Cadillac owners and friends has grown deeper and deeper—that all who appreciate the finer points of automobile performance have joined with the leading automotive critics of Europe and America in paying unqualified tribute to the Type 61 Cadillac?

This tribute, manifest in the spoken word, in the written word, and in the greatly augmented sales volume, constitutes, we believe, the highest token of esteem that the world has ever shown a fine motor car.

Cadillac builders have known twenty years of acknowledged leadership. Yet at such tribute they experience a renewed enthusiasm for the accomplishment of their ideal—the production of the finest automobile that human ingenuity can conceive.

CADILLAC MOTOR CAR COMPANY, DETROIT, MICHIGAN
Division of General Motors Corporation

C A D I L L A C

Standard of the World

MICHELIN CORDS

Michelin Cord Tire on Michelin Wheel

SINCE 1895, when Michelin introduced the world's first pneumatic automobile tire, the name Michelin has stood for absolutely the best in tires. Today Michelin Cords are better than ever, but they cost no more than ordinary makes. Ask your dealer for comparative prices.

MICHELIN TIRE CO. MILLTOWN, N. J.

To Users of Disc Wheels: The famous Michelin Ring-Shaped Tube can now be had with angle valve, making inflation easy from the outside of the wheel.

A Cadillac Announcement

The Cadillac Motor Car Company announces the continuation of Type 61 on a largely increased production schedule at the following reduced prices:

Touring Car	$2885
Phaeton	2885
Roadster	2885
Victoria	3675
5-Passenger Coupe	3750
Sedan	3950
Suburban	3990
Limousine	4300
Imperial Limousine	4400

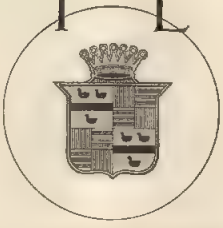
All Prices F. O. B. Detroit, plus war tax

The new prices govern the identical Type 61 cars which have met with a degree of favor unparalleled in Cadillac history.

CADILLAC MOTOR CAR CO., DETROIT, MICH.
Division of General Motors Corporation

STANDARD · OF · THE · WORLD

CADILLAC



A Cadillac Announcement

The Cadillac Motor Car Company announces the continuation of Type 61 on a largely increased production schedule at the following reduced prices:

Touring Car	$2885
Phaeton	2885
Roadster	2885
Victoria	3675
5-Passenger Coupe	3750
Sedan	3950
Suburban	3990
Limousine	4300
Imperial Limousine	4400

All Prices F. O. B. Detroit, plus war tax

The new prices govern the identical Type 61 cars which have met with a degree of favor unparalleled in Cadillac history.

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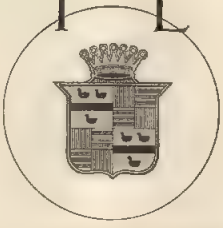


C A D I L L A C

CRAFTSMANSHIP IS A CREED HERE, AND ACCURACY A LAW

Even to observers of the finest automotive plants in Europe and America, the new Cadillac manufactories are a source of wonder and of admiration.

The fact that the site embraces more than 49 acres, and that the buildings provide a floor area of more than 2,500,000 square feet, is in itself sufficiently impressive.

But even the great structural magnitude of the Cadillac plant is surpassed by the orderly production and the exquisitely precise machine-equipment within. Craftsmanship is a creed here, and accuracy a law.

Thousands of the instruments of manufacture, expertly contrived and almost unbelievably exact, were designed especially to meet the requirements of Cadillac.

Every process of construction is pursued with microscopic carefulness. More close, fine measurements are observed on the Cadillac, it is believed, than on any other car.

In appearance, the motif of the vast new Cadillac works is immensity; but its spirit and its greater source of wonderment are minute precision in every smallest dimension and operation on the Cadillac car.

CADILLAC MOTOR CAR COMPANY • DETROIT MICHIGAN

Division of General Motors Corporation

©1922, Cadillac Motor Car Company

One quality that women praise is the luxurious comfort of the new Cadillac.

They discover it in the spacious interior and in the restfulness of the deep, soft cushions.

It is wonderfully apparent in the ease and the evenness of Cadillac travel.

She that drives the car refers, with elation, to its comfortable control, its quick obedience to the slightest turn of the wheel.

There is just as real and just as satisfying a sense of comfort in the knowledge of Cadillac dependability.

Indeed one seldom need think of the mechanics of the Cadillac save to congratulate one's self on the surety of their functioning.

It is the unanimous opinion of owners, and our own judgment as well, that motoring comfort is raised to a new and indescribably delightful degree in the Type 61 Eight-Cylinder Cadillac.

CADILLAC MOTOR CAR COMPANY, DETROIT, MICHIGAN
Division of General Motors Corporation

C A D I L L A C

Coming or Going ~ A Car of Distinction

A BODY of artistic beauty is enthroned on a chassis of smooth power in every Chandler car.

Especially does this richness dominate the closed models.

Whether the car be seen from the front or from the back, the artistry of design is especially admirable and complete.

Into the rugged chassis enters every element of strength, safety and efficiency.

Pliant power, instantly responsive, makes driving an exhilarating pleasure.

Smartness of appointment completes the appeal of luxurious comfort.

New and lower prices make any one of the ten Chandler models a most attractive purchase.

$1495 TO $2375

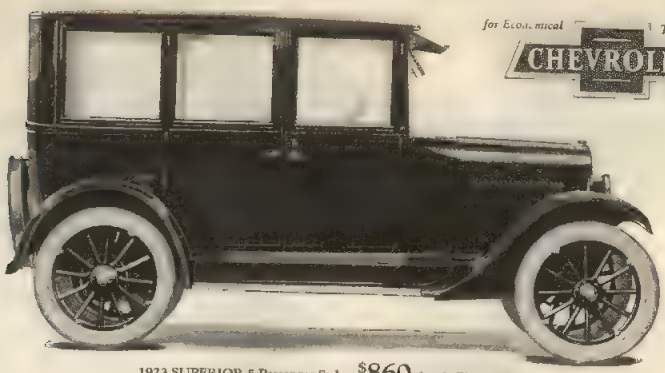
All Prices F. O. B. Cleveland

THE CHANDLER MOTOR CAR CO., CLEVELAND
Export Dept: 1819 Broadway, New York City Cable Address, "Chanmotor"

CHANDLER SIX

for Economical Transportation

CHEVROLET



1923 SUPERIOR 5-Passenger Sedan $860 *f. o. b. Flint, Michigan*

Why Nothing Compares With Chevrolet

for Economical Transportation

The selling prices of all automobiles are based on the cost of material, production, distribution and overhead.

Large volume of sales greatly reduces all these costs.

We are the world's largest producers of quality automobiles. We operate on the basis of large volume, moderate margin of profit and rapid turnover of investment. For these reasons we are able to price our cars so low as to give the purchaser the maximum in modern economical transportation per dollar of cost.

By *modern* we mean up-to-date engineering with design, construction, finish and appointments consistent with today's requirements of an informed and experienced public.

Some Distinctive Features

Streamline body design with high hood; vacuum feed and rear gasoline tank on all models; drum type head lamps with legal lenses. Curtains open with doors of open models. All closed models have Fisher bodies with plate glass Ternstedt regulated windows, straight side cord tires, sun visor, windshield wiper and dash light. The Sedanette is equipped with auto trunk on rear.

See the 1923 SUPERIOR Model closed cars.

No argument is necessary: they sell themselves.

World's Lowest Priced Quality Automobiles

Two Passenger Roadster	$510
Five Passenger Touring	525
Two Passenger Utility Coupe	680
Four Passenger Sedanette	850
Five Passenger Sedan	960

All of the Chevrolet Closed Models have

BODIES BY FISHER

Fisher bodies and carry this trade mark

Chevrolet Motor Company, Detroit, Michigan

Division of General Motors Corporation

$680 *f. o. b. Flint, Mich.*

1923 2-Passenger Utility Coupe

World's largest manufacturer of low-priced QUALITY automobiles.

There are 10,000 Chevrolet dealers and service stations throughout the world.

Applications will be considered from high-grade dealers in territory not adequately covered.

$850 *f. o. b. Flint, Mich.*

1923 4-Passenger Sedanette

for Economical | CHEVROLET | Transportation

His Gift to Her—and the Family

A Mutual Christmas Gift That Provides Usefulness, Health and Happiness For Them All

Millions of dollars are spent annually for family Christmas gifts. The purpose is to express good will and bring happiness to all.

How better can this be accomplished than by pooling the family Christmas fund and applying it on the purchase of a Chevrolet automobile?

Here, for example, is illustrated the Utility Coupe; an ideal all-year car for the small family. Then there is the 5-passenger Sedan or the 4-passenger Sedanette for the larger family.

If open models are preferred there remain the 2-passenger Roadster and 5-passenger Touring.

There is nothing the modern family needs so much as economical transportation. A quality car like Chevrolet delights every member of the family and makes Christmas joys last for years.

Think it over, consult the wife, then arrange with the nearest Chevrolet dealer to deliver your car on Christmas morning.

CHEVROLET MOTOR COMPANY, DETROIT, MICHIGAN

Division of General Motors Corporation

There are now more than 10,000 Chevrolet dealers and service stations throughout the world

SUPERIOR Two Passenger Roadster	$510
SUPERIOR Five Passenger Touring	525
SUPERIOR Two Passenger Utility Coupe	680
SUPERIOR Four Passenger Sedanette	850
SUPERIOR Five Passenger Sedan	860
SUPERIOR Light Delivery	510

All Prices f. o. b. Flint, Mich.

Applications will be considered from high grade dealers in territory not adequately covered

Man's Conquest of Time

The progress of mankind, from the earliest recorded ages, has been marked, by a ceaseless struggle against the limitations of time and space.

Civilization is mutual interchange of thought and the product of thought. This interchange demands transportation, hence the development of civilization has paralleled the improvements in transportation.

A useful lifetime should not be measured in hours lived, but in deeds done. Doubling man's productive capacity offers the same net result as doubling his period of usefulness or doubling the number of producers.

More than any other single factor of civilization, the automobile has multiplied the producing power of man, by decimating time and distance, and by providing a broad and flexible means for the transportation of men and their products.

The amazing growth of the automobile industry could not have been, had not the automobile more than justified itself as an economizer of manpower, a stimulator of production and a creator of wealth.

for Economical Transportation

CHEVROLET

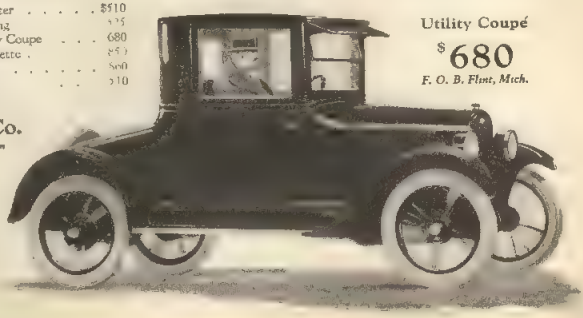
epitomizes the progress of the industry to date along the line of maximum economy consistent with modern requirements as to engineering efficiency and satisfactory quality. The wonderful increase in our sales proves that Chevrolet is leading in the evolution of individual transportation which measures and records the progress of civilization.

Prices F. O. B. Flint, Michigan

SUPERIOR Two Passenger Roadster	$510
SUPERIOR Five Passenger Touring	[illegible]
SUPERIOR Two Passenger Utility Coupe	680
SUPERIOR Four Passenger Sedanette	[illegible]
SUPERIOR Five Passenger Sedan	860
SUPERIOR Light Delivery Car	510

Chevrolet Motor Co.
Division of General Motors Corporation
Detroit, Michigan

There are 10,000 Chevrolet Dealers and Service Stations. Applications will be considered from high grade dealers in territory not adequately covered.



Utility Coupé
$680
F. O. B. Flint, Mich.

What to Expect of a Closed Car

Chassis Quality and Reliability or Body Fittings—Which Do You Want at the Same Cost?

You are offered two types of closed cars at around $1245. One makes its appeal to the eye. Its makers call attention to the body fittings. Such luxuries are nice to have.

But clocks, dome lights, cigar lighters and vanity cases are not essential to comfort and they have nothing to do with car performance. However you must pay for them. To know how much they cost consider what the open model of such a car sells for.

The Essex Coach sells at $1245. The body is simple and sturdy, built for utility and comfort. Non-essentials are omitted. What they would cost is invested in motor, clutch, transmission, axles and frame. The Essex, one of the world's leading four-cylinder cars, never disappoints.

It is positively reliable. Carefree, untroubled transportation, at the lowest cost for fuel, oil, tires and maintenance, are assured

We believe you will find the highest satisfaction in a steering mechanism that operates as easily as a bicycle, in clutch, and brake pedals that respond to the slightest pressure, in freedom from squeaks, rattles, body noises and in performance that matches the costliest cars.

In no car can you get more than you pay for. It is for you to decide which type of closed car will give the most lasting satisfaction.

Touring - $1045 **Cabriolet - $1145** **Coach - $1245**

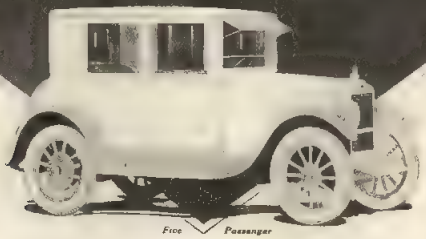
Freight and Tax Extra

Canadian Prices follow, f. o. b. Windsor, Ont., all duty, sales and excise taxes paid

Touring - $1550 Cabriolet - $1695 Coach - $1850

ESSEX Coach $1245 *Freight and Tax Extra*

ESSEX COACH $1345



Performance as Notable As its Appearance

Don't Underrate its Importance

The Essex Coach operates with the nimbleness of an open car.

You will like the way it gets about as well as its good looks and comfort.

It won't cause annoyance with squeaking body and rattling doors. You will be pleased at the little service attention required to keep it in tip-top condition.

Motoring pleasures come from ease of operation—simple control—a free, quick, responsive car that goes at any pace, that darts in and out of traffic and flies up-hill without effort of driver or motor. For these qualities all know Essex excellence.

Has These Fine Car Details

Dash controlled ventilator.
Wind and rainproof windshield.
Fine quality plate glass windows.
Sun visor
Luggage and tool locker, opened from rear.
Newest type easy operating crank-handle lifts on door windows.
Four hinges on each door, and 6 hinges that hold door solid—very important.
Fine texture long wearing upholstery and rugs
Radiator shutters and motometer for efficient motor control
Cord tires.

And no sacrifice of these advantages is made to obtain the closed car comforts furnished in the Coach.

Remember when buying a closed car you will continue to require motoring performance. You will want to drive wherever you drove with your open car. You want its fleetness, its reliability and its economy.

These are advantages of the Essex Coach plus its protection, comfort and distinction. They are made all the more attractive by reason of the price.

You can't ignore that.

Touring, $1095 Coach, $1345 Sedan, $1895 *F. O. B., Detroit*

Go See—Ride and Compare

ESSEX MOTORS, DETROIT, MICHIGAN

60 Sun Maid Raisin Salesmen buy ESSEX Cabriolets

Give Your Business Getters A Better Business Car

Why Sun-Maid Salesmen Chose Essex

Sixty Essex Cabriolets have been purchased by the salesmen of the Sun-Maid Raisin Growers of Fresno, Cal., to be used in 20 of their sales divisions in various parts of the U. S. and Canada.

This order is one of the greatest proofs of Essex dependability, for these cars will be called upon to give prompt and satisfactory service in all kinds of weather, under all sorts of road conditions. The records that thousands of other Essex cars have made, their ability to keep to schedules, low cost of operation, all were determining factors in this selection

Business has no patience with cars that can't stand the gaff. Repairs and wasted time quickly eat up the small saving in first cost

Get Real Economy

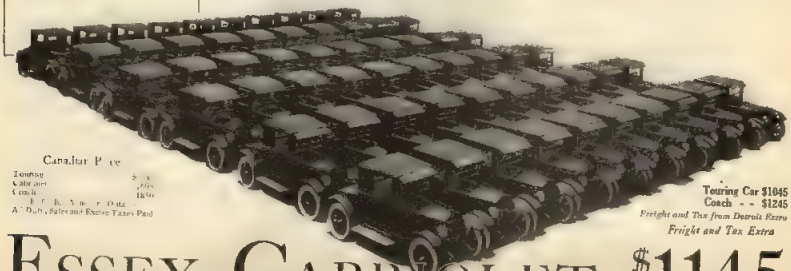
Give your salesmen a car they can count on like a train. The Essex Cabriolet gives all-weather utility. Its chassis costs more to build than any like-priced car in the world. Motor, axles, frame and transmission are built for steadfast, constant service under all conditions. Essex cars serving upwards of 60,000 and 70,000 miles are still smooth, reliable and economical. You can't get records like that except from a real car. And it's worth the little more you pay.

Salesmen Work Faster

The Cabriolet is solid, quiet, durable. Your men will like it. They will appreciate its greater riding ease, simple handling, greater radius of travel, and above all its positive reliability. It gives all-weather protection. There is ample carrying space in rear for sample cases, luggage, etc.

And it is more economical in every detail even than light cars whose only appeal is low first cost.

ESSEX MOTORS, DETROIT, MICH.



Canadian Prices
Touring . . . $1045
Coupe . . . 1650
Coach . . . 1645
All Duty, Sales and Excise Taxes Paid

Touring Car $1045
Coach - - $1245
Freight and Tax from Detroit Extra

ESSEX CABRIOLET $1145

Freight and Tax Extra

COMFORT IN ALL WEATHER AT OPEN CAR COST

Why Buy an Open Car Now?

When Closed Car Comforts Cost But $1245 *Freight and Tax Extra*

Why face winter in a cold and draughty touring car? The comforts of the Coach cost but a trifle more. It means warm, snug travel in all weather.

No need to meet wind, snow and rain in the half shelter of a curtained touring car.

Many denied themselves these comforts when closed cars cost almost double. But there is no such reason now. The Coach gives them all at an inviting price.

It is solidly and enduringly built. Doors and windows stay snug fitting. Low, deep cushioned seats of unusual comfort. Dash controlled ventilator and easily operated windows make the Coach ideal in summer as well. Luggage and tool locker opened from rear. Radiator shutters and motometer give summer driving efficiency.

It is just the car for family or business use—easily handled, of exceptional performance and famous among owners for reliability and economy.

More than 11,000 owners know these qualities. We believe it is exactly the car you want.

New Prices Now Effective

Touring - $1045 Cabriolet - $1145 Coach - $1245

Freight and Tax Extra

E S S E X

ESSEX MOTOR CARS

How Essex Views the Closed Car Question

Until Essex brought out the Coach, a closed car on a first rate chassis could not be had at a moderate price.

Buyers took to it by the thousands. Nothing like it was ever experienced in closed car sales. And in consequence other makers added closed cars to their lines.

But their bid for a share of the trade is not based upon the principle which gives the Essex its distinction.

Mark how different it is

Elaborate fittings intended to lend an air of luxury are not featured in the Essex. It is sold strictly on its merits as a complete and superb motor car mechanically It established itself as one of the leading four cylinder motor cars of the world in performance, endurance, reliability and economy.

One stock car under official observation traveled 3,037 miles in fifty hours. Four stock cars each lowered all previous time records between San Francisco and New York.

Essex cars that have traveled 50,000 miles are still giving satisfactory service. Owners will tell you one after another their next car will be an Essex.

You will hear from them the most astounding reports of reliability, low operating cost and freedom from even the slightest service attention.

It is upon such a chassis that the Coach is mounted The same idea of utility guided its creation. It has staunchness and character. It gives the utility of the costliest cars. It stays tight and secure.

Windows and doors remain tight fitting. There are no inside rumbling noises. Seats are comfortably arranged. Luggage and tools are carried in locker at rear. Observe how proudly owners speak of the Essex Coach.

Yet such a delightful closed body does not place the Essex Coach price beyond the reach of those who can afford a good open car.

Prices in United States

Touring	$1045
Cabriolet	1145
Coach	1245

Freight and tax extra

Prices in Canada

Touring	$1450
Cabriolet	1605
Coach	1850

f. o. b. Windsor Ont. & duty sales and excise taxes paid.

(38.)

ESSEX COACH $1245

This Challenge to Useless Expense the Greatest Closed Car Issue

You buy a motor car for reliable transportation. You prefer a closed car for comfort. Body accessories and ornaments have little to do with either.

Why pay a huge premium for them?

Within the limits of a moderate-priced closed car you can get only so much. Ornate body-fittings, dome lights, cigar-lighters, clock, vanity cases, etc., add nothing to car performance. They add much to cost.

Essex elects to put the value elsewhere—to build a comfortable, durable closed car of smart appearance—to mount it on the superb Essex chassis, with what American and European experts have called the greatest motor of its size in the world. The rigid, overstrength Essex frame, the smooth positive clutch, the simple controls and strong rear axle are some features of that chassis.

The way it is built explains why Essex cars after 60,000 and 70,000 miles of service are still giving fine, smooth, reliable service. The same idea of utility built the Coach body. It has staunchness and character. It gives the utility of costlier cars. It stays tight and secure.

Luggage and tools are carried in the locker at rear. Radiator shutters and motometer give summer motor efficiency in winter driving. Fine plate glass windows, operated by latest devices. Every essential of the complete closed car.

And isn't its assurance of continued satisfaction and real automobile service more important than showy body extras in the car that is to serve you?

Touring - - $1045 Cabriolet - - $1145 Coach - - $1245
Freight and Tax Extra

ESSEX MOTORS, DETROIT, MICHIGAN

[492]

ESSEX Coach $1245 *Freight and Tax Extra*

Did Closed Cars Cost Too Much?

Thousands thought so. And prior to the Coach, they stuck to open cars.

That simply meant they wanted to put their investment in chassis quality and dependability, rather than accept lesser mechanical value in a closed car.

Yet closed car advantages are too obvious to need comment. Everyone wants them provided they do not sacrifice chassis value.

So a Great Welcome Awaited the Coach

Essex invented the Coach to meet this plain demand of thousands. It gives every essential comfort of the costliest closed cars. It is solid, quiet, durable and attractive in looks. Yet of course its greatest value is in the famous Essex chassis which world experts have called the finest of its size built. It fully has confirmed that verdict by official proof.

Insist on Lasting Value

Open car cost shows the mechanical value you get in any closed car. And the difference shows what the closed body costs. So consider well the two types of closed cars that sell around $1300.

The Essex Coach at $1145 gives all practical closed car advantages on a chassis that costs $1045 in the open model.

In no car can you get more than you pay for. It is for you to decide whether your money shall go for a costly body or for real automobile performance and lasting quality.

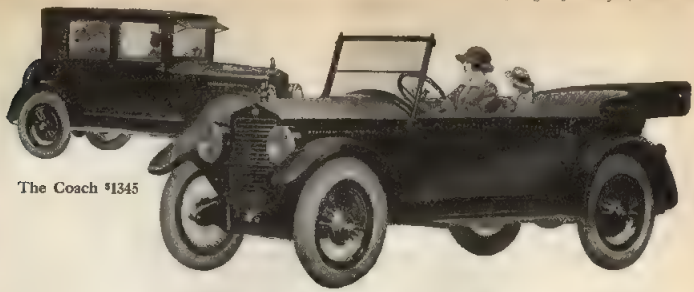
Touring - - - $1045 **Cabriolet - - - $1145** **Coach - - - $1145**

Freight and Tax Extra

ESSEX MOTORS - DETROIT, MICHIGAN

ESSEX Coach $1145

Freight and Tax Extra



The Coach $1345

This

ESSEX $1095

A Roomier Open Car—A Finer Chassis

You can have no appreciation of what this price buys until you examine and drive it.

To all that made Essex such a wonderful value in the past are added refinements and comforts never before offered in a car of its price class. Roomier seating, wider doors and greater riding ease, contribute something new in personal comfort.

The Result of Three Years' Experience

Back of the new Essex is all we learned in building 70,000 earlier Essex cars. Finer precision standards have resulted and Essex smoothness is even more pronounced. You will instantly note its greater beauty. Its care and attention are easier, cleaner, more convenient.

It will reveal a charm you never suspected in any except the large costly cars. Note how free it seems of usual limitations—how subdued all mechanical consciousness—how perfect its union with the driver's will.

It Improves In Service

And how rarely is an Essex offered for resale. Old owners tell you of a car so enduringly designed and built that its performance improves for thousands of miles.

But today's Essex combines advantages no earlier owner knows. Go see, and ride in it. It is the best Essex ever built, and at the lowest price.

Wider Seats.
Wider Doors.
Lubricated with an oil can no messy grease cups.
Thief-proof Lock, reduces insurance cost 15% to 20%.

Touring - - $1095 Cabriolet - - $1295 Coach - - $1345 Sedan - - $1895
F. O. B. Detroit

ESSEX MOTOR CARS

ESSEX MOTORS, DETROIT

ESSEX MOTOR CARS

ESSEX COACH $1345

Its owners like it—the best test of all

Driving an Essex is so free of fuss and effort that every owner praises that remarkable difference. The hours they spend in their cars, above all, are comfortable hours. Controls are easy and natural. One is hardly conscious the hand directs them. Gears shift as easily as lifting a fork at table. Light-steering as a bicycle. Light pressure operates brakes and clutch.

And so reliable that thousands go out from the sales-rooms and serve for thousands of miles without returning for even a minor adjustment. That, too, is an experience not common to motor car owners.

Drive the Essex. It is altogether different from any car you have ever driven. It will delight—and tempt you. Any dealer will be glad to arrange such a ride.

A Few of the Many Who Praise It

"This little Coach is a revelation Handles easier, runs smoother than any car I ever owned. I don't think I will ever want to drive a big car again."

F. CODA,
Jenks & Muir Mfg. Co. Detroit

"We are highly pleased with the Essex Coach. We like, especially, its simplicity, ease in operation, gas mileage, and price. I do not know of a car where you get as much for the money invested."

FRED E. BODIE,
Lincoln, Nebraska

"After owning various multi-cylinder cars, I was a bit skeptical whether I could be satisfied as to the four cylinder Essex Coach Have had ample opportunity to test its worth and must admit everything is on the favorable side of the ledger Economical in upkeep, satisfactory gas and oil mileage, and power and speed aplenty In short a 'delight' from every standpoint."

F. O. HANSON
253 W Utica St Buffalo, N Y

Touring Car, $1095 Cabriolet, $1295 Coach, $1345

Freight and Tax Extra

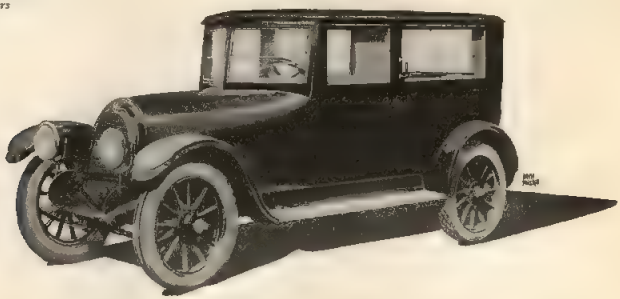
ESSEX MOTORS—DETROIT, MICHIGAN

FRANKLIN
NEW BODY STYLES
NOW ON DISPLAY

FRANKLIN SEDAN FEATURES

Wide windows—broadest outlook
V front — clear driving vision
Two wide doors, giving easy access
Ventilation without dust or draft
Tilting Pullman-type front seats
Flexible 4-point body suspension
Rattle-proof body of aluminum
Lightest fine sedan—2750 pounds
$2850 f. o. b. Syracuse

The Latest Car on Exhibition at all dealers



FRANKLIN SEDAN
With the New Motor

MORE POWER; MORE SPEED; MORE ECONOMY
New pressure air-cooling system—the highest development of motor cooling

YOU ought to try this latest Franklin Sedan. The new motor steps it into the front ranks on hills and the straightaway. No car is smoother on good roads; none can approach it on rough going, nor keep up with it all day.

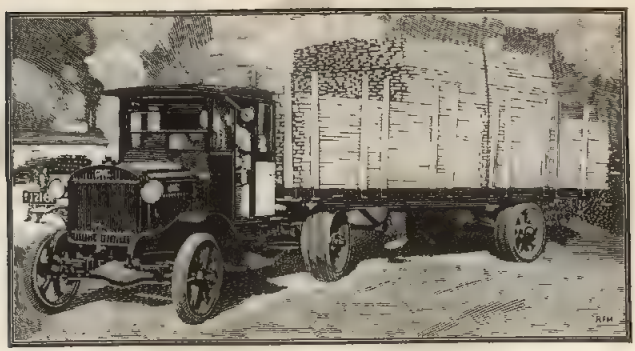
And yet it doesn't sacrifice economy for power, nor comfort for speed—there is more of all. It will travel all day with wide open throttle and never falter. The new pressure air-cooling system is without limitations. It will endure hardships of mud, sand, hills, heat and cold that would stop any other motor made.

This car will give you the finest ride and finest service you have ever had. Try the Sedan with the New Motor.

New demountable rims
Lowest price in 20 years

FRANKLIN AUTOMOBILE COMPANY
SYRACUSE, N. Y.

"GMC TRUCKS ARE SEVEN STEPS AHEAD"



Opening the Way for Volume Truck Haulage

GMC Truck Tractors, By Cutting Costs In Two, Now Make It Profitable To Transport Heavy Loads Over Highways

Development of the GMC Truck Tractors, with semi-trailer and four wheel trailer equipment, has for the first time made possible the economical transportation by motor truck of big tonnage loads.

GMC Truck Tractors produce more pulling power, more speed and more economy than ever before has been produced in any one truck unit.

Equipped with the GMC Two-Range Transmission, which multiplies economical engine power into new and almost unheard of power at the wheels, and into higher road speeds—these tractors will haul semi-trailer and trailer loads through heavy roads and up grades where other motor truck equipment cannot travel.

Loads as great as 15 tons can now be transported with a saving, in certain cases, of as much as 50 per cent over old style equipment, and with a distribution of the load that meets every requirement of safety to the structure of the highways.

Trailers and semi-trailers cut loading and unloading time to a minimum. They allow the wonderful power, speed and economy produced by this GMC Truck Tractor to be utilized to its fullest measure—not limited by what the truck alone can carry.

Write for a new illustrated booklet "Modern Freight Transportation."

GENERAL MOTORS TRUCK COMPANY—*Pontiac, Mich.*
Division of General Motors Corporation

GMC Truck Tractors are Made in Three Sizes for Hauling Loads of 5, 10 and 15 Tons: The Chassis Prices are 5-Ton, $2450; 10-Ton, $3700; 15-Ton, $4050

General Motors Trucks

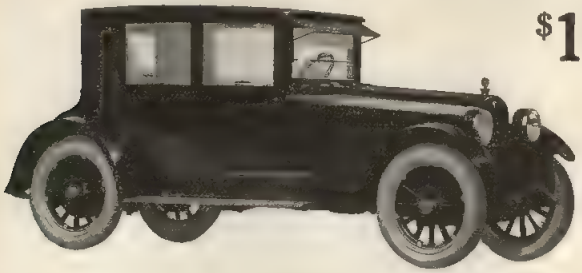
GMC

GMC Truck Chassis list at Pontiac
1-Ton, $1295; 2-Ton, $2375;
3½-Ton, $3600; 5-Ton, $3950

All Prices are for Chassis only, at the Factory. Tax to be Added

HUDSON

The Coach
$1795



At the Height of Success We Adopt a New Motor

No Advance in Prices

Look for the White Triangle

HUDSON SUPER SIX

Phaeton	$1695
7-Pass. Phaeton	1745
Cabriolet	2295
Coupe	2570
Sedan	2650
Tour. Limousine	2920
Limousine	3495

Freight and Tax Extra

No car ever had a more famous motor than the Super-Six. More than 125,000 owners know its performance. Its reliability in long, hard service is outstanding.

Then How Great is the New Motor to Warrant a Change at This Time

All the patented advantages are retained in the new Super-Six motor. Without them the improvements would have been impossible.

Even Hudson owners marvel at the change. Discover the difference. You must know the latest in motor performance. And you will like the new Hudson in other advanced details.

Come drive it. You will be surprised.

A Ride Tells All

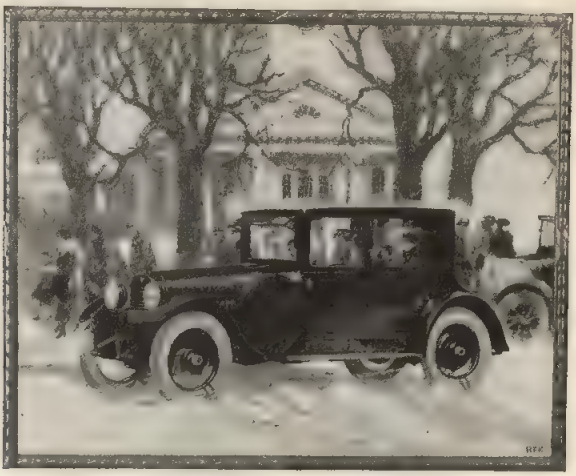
HUDSON MOTOR CAR COMPANY
DETROIT, MICHIGAN

5108

Hudson Coach $1625

Freight and tax extra

on the Famous Super-Six Chassis



Just What is its Value?

Important Thoughts for Closed Car Buyers

There are two types of closed cars that sell under $2,000.

Consider them well before you buy.

One features its fancy body and fittings with clock, trunk, dome lights, vanity cases and cigar lighter. In open models such a car sells at about $1,000.

The other type is the Hudson Coach, mounted on the famous Super-Six chassis. More than 120,000 Super-Sixes are in service. Official tests mark it one of the truly great automobiles. For seven years its sales have led all fine cars.

And with its new and improved Super-Six motor you get the best Hudson ever built. It has a smoothness unknown to earlier models. Its reliability and endurance excels even those Hudsons that have registered more than 100,000 miles of service.

And you will like the Coach.

It has a sturdy simplicity. Essential comforts are provided. There is nothing sluggish about its performance. It is built to stand the hardest kind of service. A trans-continental tour or a shopping trip can be made with equal comfort and security.

Doors and windows stay snug fitting. Rumbling noises are entirely absent. The seats are low, comfortable and cozily arranged. There is ample space for luggage and tools in the locker at the rear.

Radiator shutters and motometer give summer driving efficiency without need for hood covers in winter.

You will be proud to own a Hudson Coach.

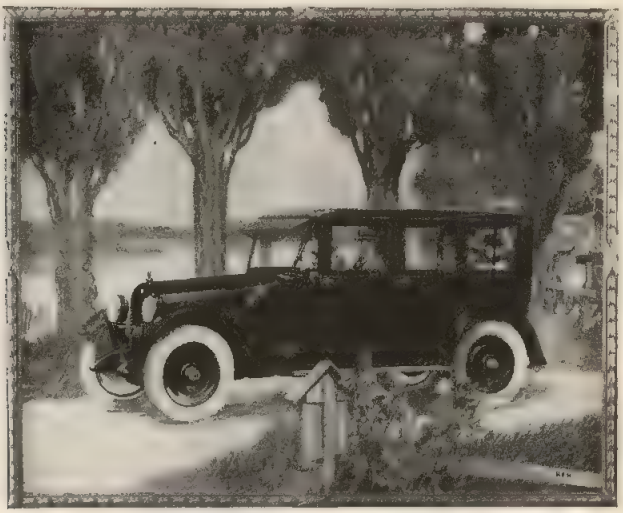
Speedster, $1525 7 Passenger Phaeton, $1575 The Coach, $1625 The Sedan, $2295

Freight and Tax Extra

A159

HUDSON MOTOR CAR COMPANY, DETROIT, MICHIGAN

H U D S O N



MOST BEAUTIFUL OF THE HUDSONS

THE NEW SEDAN IS HERE

The De Luxe Car of the Year, $2295

It excels even those beautiful Hudsons which were counted matchless values at above $4,000—the Limousines, Town Cars and Landaulets famed for their distinction.

No other Hudson so completely sums the body-builder's art. It blends richness and luxury with a simplicity that is the hall-mark of Hudson enclosed car charm. And the promise of its beauty is borne out in the unusual personal comfort and serviceability this model affords.

It seats seven. The lustrous, lasting finish reveals the unhurried and painstaking care given every detail by master workmen, who have always specialized on the finest, costliest cars.

Of course it has the new Hudson Motor, which won such instantaneous admiration everywhere. It is the top step of seven years' development of the patented Super-Six principle. It is equally a revelation to Hudson owners.

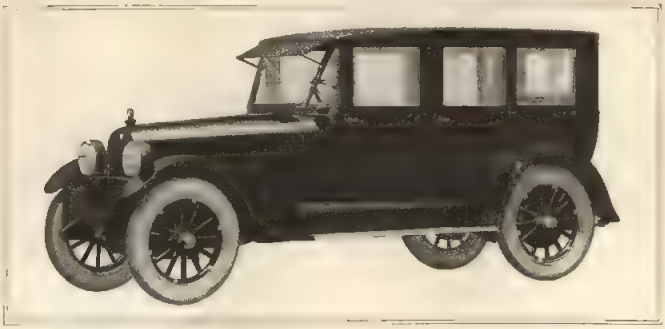
(Freight and Tax Extra)

Speedster - - - $1525
7-Pass Phaeton - $1575

HUDSON SUPER SIX

Coach - - - - $1625
Sedan - - - - $2295

HUDSON MOTOR CAR COMPANY - DETROIT



Most Beautiful of the Hudsons

The New Sedan $2095 *Freight and Tax Extra*

Hudson has always been famous for the beauty of its closed bodies. But even among past creations, was none to rival the exquisite grace, luxury and charm of the New Sedan.

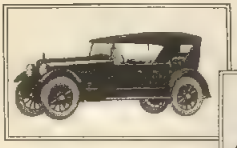
The entire production of America's foremost custom-body builder is devoted exclusively to this one model. That not only assures the finest workmanship, but makes possible a price not equalled among luxurious cars.

On the Famous Super-Six Chassis
With the New Improved Motor

All Hudsons have the new Super-Six motor, which is a notable improvement over the earlier type. Old Hudson owners, even, find a charm hitherto unknown.

Among other models, the Hudson Coach has an unrivalled success. It affords all year closed car utility, comfort and protection, with abundant road performance and reliability and at a price but little more than open car cost. For those who demand excellent car performance with closed car advantages, it is of exceptional interest. It is simply and sturdily built for utility and reliability

Freight and Tax Extra

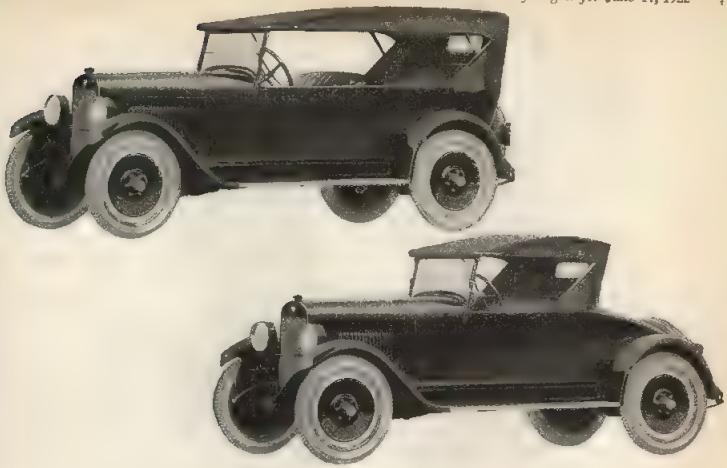


The Speedster, $1425

The Coach, $1525

7-Pass. Phaeton, $1475

HUDSON MOTOR CAR COMPANY, DETROIT, MICHIGAN



The wave of admiration which the beauty of the good Maxwell inspired upon its first appearance, has widened steadily as the cars have multiplied.

Seven months have now elapsed, since the new series was introduced, and more than 25,000 of the cars are in continuous daily use.

Everywhere there has grown up around the good Maxwell a warm feeling of good will which is the direct outgrowth of the sterling qualities which it has proven that it possesses.

Cord tires, non-skid front and rear, disc steel wheels, demountable at rim and at hub drum type lamps, Alemite lubrication, motor driven electric horn, unusually long springs deep, wide, roomy seats real leather upholstery in open cars, broadcloth in closed cars, open car side curtains open with doors clutch and brake action steering and gear shifting, remarkably easy new type water tight windshield Prices F.O.B Factory, revenue tax to be added: Touring Car, $885 Roadster, $885 Coupe $1385 Sedan $1485

MAXWELL MOTOR CORPORATION, DETROIT, MICHIGAN
MAXWELL MOTOR COMPANY OF CANADA, LTD., WINDSOR, ONT.

The Good

MAXWELL

Smart Style In The New

CHANDLER SIX

Is Linked With Economy

ADDED to the thousands of people whose ownership of previous Chandler Sixes has been so satisfactory, there is now a daily increasing legion of new owners who find in the new Chandler a car of irresistible quality at a most inviting price.

Its smart style and beauty, its luxurious comfort, its assurance of long-life and maintained efficiency, its plentiful power and its appealing economy have been quickly recognized both by those who can afford far more expensive cars, and by that much larger group of people who have until now considered a car as fine as the Chandler unattainable.

The lure of Springtime is at hand. A new Chandler, open or closed, will add much to its joys.

Buy now, and open to the family a new pride of ownership and a new vista of Spring and Summer delights.

TOURING CAR **$1595** F. O. B. CLEVELAND

The Price That Scraps Previous Motor Car Values

THE CHANDLER MOTOR CAR CO., CLEVELAND

WHAT FINANCIAL LONDON THINKS OF OUR FINANCIAL ALOOFNESS

IN one of his London dispatches to the financial section of the New York *Evening Post*, Mr. Arthur W. Kiddy, the well-known London financial writer, tries to give "the exact and impartial views of the financial district" concerning the apparent aloofness of the United States with regard to Europe's economic situation. In so doing he calls for cooperation between the United States and Great Britain for the benefit of the less fortunate Continent. As Mr. Kiddy speaks for the financiers of London:

Having regard to our readiness and ability to settle our debt to you, we feel that we have a right to rank with you toward the whole problem as a fellow-creditor nation. Starting on that basis, we regard the situation of all debtors, excluding ourselves, but including German reparations, as calling for strong and skilful treatment by lending countries like you and us, the object being to recover as much as may be possible of the original debts and also to restore at the earliest moment international trade. Failing this, further losses must be added to old debts.

It is considered, however, that such skilful treatment is impossible unless the two chief creditors cooperate in dealing with the situation. It is difficult to express the matter in a brief cable, but I trust that I have made it clear that I am entirely thinking of business arrangements and not of sentimental forgiveness and the breaking of contracts. Moreover, I must again insist, in order to prevent the danger of misunderstanding, that the whole argument is based on Britain's fully performing her own obligations to you; otherwise, of course, the whole argument collapses.

The action of your Senate with regard to Austrian assets is highly appreciated, and it is considered that this marks the first hopeful development in the European situation in some years. If Austria is now handled skilfully, the incident should react beneficially on other parts of Europe

NEW CONSTRUCTION WORK AS A SIGN OF RAILROAD IMPROVEMENT

GENERAL talk of improvement is all very well, but there is real significance we read in the New York *Journal of Commerce*, in figures presented by *The Railway Age* showing that there is more construction work actually under way or projected for 1922 by the railways than there has been for several years. Public announcement has already been made, says *The Railway Age*, of the construction of more than 500 miles of new lines this year, and contracts have already been let for at least half of this. A partial list of important projects definitely authorized is given by the railroad organ and is, in its opinion, "sufficient to demonstrate conclusively that the railways are viewing the future with more optimism."

"Attention is called, for instance, to an extension of 55 miles on the Atchison, Topeka & Santa Fe from Satanta, Kansas, west, and a line 40 miles long from Pawhuska, Okla., to Owen, which are understood to be the first of several projects

The New Oakland Six

A Short Talk to Ten Million Car Owners

You are interested in the automobile industry. You follow its progress, its new achievements. Therefore you are bound to be interested in the Oakland Six-44.

This New Oakland Six in a few short months has won wide approval. Owners attribute this to its wonderfully dependable overhead-valve six-cylinder engine; to its remarkable reliability; its endurance, smooth performance, and striking new body lines.

Have you studied this car closely? Have you learned of its flexible, dependable, economical performance—backed by the unparalleled 15,000 mile written guarantee? Give the matter careful thought We believe you will agree that the New Oakland Six is an unequalled six-cylinder value at an astonishingly low price.

PRICES

Chassis	$ 895
Roadster	1120
Touring Car	1145
Sport Car	1265
Coupe	1685
Sedan	1795

At Factory

Oakland Motor Car Co., Pontiac, Mich.
Division of General Motors Corporation

Oakland's Economy Records are Unparalleled

Oakland 6-44

A NEW SUPER-SIX HUDSON SEDAN $2295 *Freight and Tax Extra*

For Those Who Want The Finest 7-Passenger Closed Car

Particular attention is called to the price of the Hudson Sedan—$2295—for two reasons.

We offer the Sedan as the very finest closed car that can be built. It is the product of one of America's oldest builders of costly bodies. The workmen have never been hurried. Painstaking care is expressed in every detail. Quantity production, as understood in motor car building, is not possible with such traditions and organization. But the costly though worth-while way of manufacture under such conditions has been greatly minimized by the fact that the entire effort of this builder is exclusively devoted to the Hudson Sedan. Thus we obtain the richness and finest of the most exclusive custom built bodies and at the cost of quantity output.

No car at its price that has a body of approachable attractions in richness and luxury is so well regarded for performance and reliability. For you know the Hudson Super-Six, by official mark, is one of the world's truly great motor cars. And with the new improved Super-Six motor it is a smoother, more enduring car than the 120,000 earlier models which during the past seven years gave it such wide fame.

And where you find a car of comparable appeal in body and in automobile performance you will also find the cost is from $1,000 to $1,500 greater than for the Hudson Super-Six, seven-passenger Sedan.

Speedster - $1525 **7-Pass. Phaeton - $1575** **Coach - $1625** **Sedan - $2295**

Freight From Detroit and Tax Extra

Canadian Prices F. O. B. Windsor, All Duty, Sales, Excise Taxes Paid

Speedster - - $2275 7-Pass. Phaeton - - $2350 Coach - - $2430 Sedan - - $3455

H U D S O N

The Famous Super-Six

(5167)

THE SPICE OF LIFE
Continued

Keeping the Balance.—A representative government is one that elects six men in favor of a thing and six against it and wonders why something isn't done.—*Warren Chronicle.*

Even Scarcer. "Here's a man found nine pearls in an oyster stew. Wonderful, hey?"

"Oh, fairly startling. I thought you were going to try to lead me to believe he found nine oysters."—*Louisville-Courier Journal.*

Tolerance.—"Do you feel resentful toward a man who disagrees with you?"

"Not at all," replied Senator Sorghum: "so long as I can see to it that he remains associated with the minority."—*Washington Evening Star.*

Safety First.—"Admission two eggs" was the price recently charged for a concert in Wurttemberg. This plan of protecting the performers by cornering all the ammunition might be borne in mind by those meditating a political career.—*London Opinion.*

The Higher the Fewer.—THE WIFE—"I see by to-night's paper that Paris says women are going to wear their dresses longer."

THE HUSBAND—"It's a good thing. You never wear a dress over a month."—*Inklings.*

The Irish Mail.—An American visiting Ireland asked a manservant at a tavern, "How many mails do you have here a day?"

The servant replied, "Three: dinner, breakfast and supper."—*The Christian Evangelist (St. Louis).*

In Competent Hands.—"I will admit I haven't always lived as I should but I do love your daughter sincerely, and if ever I should make her unhappy, I hope I will be made to suffer for it."

"Don't let that worry you, she'll attend to that."—*Tit-Bits (London).*

The Hard Part.—MILLIONAIRE (speaking to body of students)—"All my success, all my tremendous financial prestige, I owe to one thing alone—pluck, pluck, pluck."

STUDENT—"But how are we to find the right people to pluck?"—*Dinuba Sentinel.*

No Common Man. While Chief Justice Taft was delivering a lecture in Portland, Ore., his friend, Bishop Keator, entered the auditorium, and the ex-President immediately sandwiched this story into his talk.

The Bishop was absorbed in a book while seated in a Pullman car. The porter scrutinized him very carefully, and said, "Scuse me, Senator, anythin' ah kin do fo' yo', suh?" The Bishop replied in the negative.

The porter returned again soon, and asked, "Shall ah open de window, Guv'ner?" The response once more was, "No, thanks."

A third excursion he ventured, "'scuse me, Kuhnel, kain't ah brush yo' off?"

The Bishop looked up. "Listen, porter," he said, "I'm not a senator, or a governor, or a colonel; nothing but a poor, common Episcopal bishop."

"Yassah, Bish'p," replied the darky, "but ah jes' don' knewed yo' wuz one o' dem face cawds."—*Judge.*

$1445
5-Passenger Coupe
Trunk Extra

Have You Seen Oakland's New Closed Cars For 1923?

The moment your eye rests upon the rare beauty of these New Oakland closed cars, you will covet possession of one or the other. Somehow you will sense, instantly and keenly, that the motor car market has no more satisfying cars to offer you.

Both of the new 1923 bodies are built by Fisher. Their new and distinctive beauty; their symmetry of line and authentic grace, complemented with a wealth of interior appointments and refinements—some luxurious, many exclusive, but all useful—mark them for instant and uncommon admiration wherever fine cars are gathered.

Mounted on the standard Oakland chassis, these new models are powered with the six-cylinder, overhead-valve, Oakland-built engine—the only engine in the world with a performance guaranteed in writing for 15,000 miles.

This union of beauty with sound and enduring mechanical construction insures to these closed cars that quiet, vibrationless and certain performance so essential to complete closed car satisfaction.

We ask only that you see these new models and compare them critically with any others built. After that, you will share our conviction that they embody a higher order of beauty and utility than you can possibly find elsewhere at prices so remarkably low.

OAKLAND MOTOR CAR COMPANY, PONTIAC, MICH.
Division of General Motors Corporation

The New Oakland Six

The 1923 Series

Roadster, 2-Passenger	$ 895
Touring, 5 or 7 Passenger	925
Sport Roadster, 5-Passenger	1245
Coupe, 2-4 Passenger	1295
Coupe, 5 Passenger	1425
Sedan, 5-Passenger	1395

All prices f. o. b. at Factory

$1545
5-Passenger Sedan

glide into the airdrome in order to make a landing.

A special commutator enables the operator to put any two of the panels in series and the information gained by so doing enables the exact position of the machine in relation to the cable to be determined. Thus, by placing in series the longitudinal and transverse vertical panels, the operator can determine whether the machine is inclined to right or left in relation to the cable. In order to determine whether the machine is approaching the cable from left to right, or from right to left, the longitudinal and horizontal panels are placed in series. Placing the transverse and the horizontal panels in series serves to indicate the vertical distance above the cable; in other words, it shows whether the cable is running up or down the side of a hill or mountain, or whether it is running horizontally over flat ground. By the use of the Loth cable a machine can thus travel along over any sort of country, the navigator knowing his position, and knowing that he can not accidentally run into a hill in the fog, as his receiver will warn him if he approaches too close to the cable. If this happens while the machine is flying horizontally he knows that the cable is running up the side of a hill, and if he is on a familiar route he will probably know which is the hill in question. Put in another way, the guide cable is both a direction wireless and a contour map of the route flown.

It goes without saying that the inventor had many difficulties to surmount, difficulties not directly connected with his system, but which had a considerable effect on its development. Thus it was found that the magnetos caused such a noise in the receiver as to drown, or nearly so, the sound from the wireless panels. To overcome this difficulty it was necessary to explore the magnetic fields of the magnetos thoroughly, and this was consequently undertaken and brought to a successful conclusion.

Mr. Loth has also found means of interrupting the sound from the wireless panels for the very short interval occupied while the spark plugs are giving of sparks. In point of fact, the receiving in the telephone ear piece is intermittent, but the intervals are so short as to be inaudible to the human ear which hears the receiving as if it were continuous.

The practical results obtained with the Loth guide cable are said to be briefly the following:

With the horizontal panel (2) contact with the cable has been established from an altitude of 10,000 ft. With the two vertical panels contact has been attained from a height of about 8,000 ft. At an altitude of somewhat over 6,000 ft. the operator can hear on all three panels, and can begin to guide the machine without being much disturbed by the various noises on board. At lower altitudes the receiving becomes very loud. When flying at about 6,500 ft. the cable can be "picked up" from a horizontal distance of approximately one mile. As the machine flies lower, what might be termed the "useful zone" increases in width, until at ground level the range is about 9 miles.

These results were obtained with an experimental cable of 9,500 ft. in length and having eight sharp angles in it. The longest straight length was less than 2,000 ft. It is confidently expected that with a proper line, running more nearly straight, and of greater length, even better results will be obtained.

THIS Spring, drive an Oldsmobile Four. You will enjoy the feeling that comes with riding in the best looking, the best performing and the most economical 4-cylinder car made—regardless of price.

You will enjoy this car because it is so much more than just beautiful. It is pleasureful—comfortable in its perfect riding qualities—enjoyable because it handles so easily.

Of course, there are particular reasons for this—a spring suspension almost equal to its wheel-base is one—the exclusive design of its frame construction is another. It is a restful, easy-riding, roomy four cylinder car, equally easy to handle in city traffic or tough cross country driving. Its wheel-base is 115 inches—unusually long for a four cylinder car.

And it is economical—principally because of the supreme care with which it is built, but basically because it is Oldsmobile. Oldsmobile's twenty-four years of experience in engine design has evolved the surprising gasoline and oil economy of this 4-cylinder motor.

There is an Oldsmobile dealer near you—with an Oldsmobile Four that he will be proud to show. If you wish, we will send you a specially prepared little booklet entitled "Speaking of Power," and our dealer's name and address, whether you are figuring on buying an automobile now or not.

Ask your nearest Oldsmobile Dealer about the General Motors extended payment plan

OLDS MOTOR WORKS
Division of General Motors Corporation
LANSING, MICHIGAN

Model 43A—4 Cylinder
115 Inch Wheelbase

Coupe	$1645
Sedan	1795
5 Pass. Touring	1185
Roadster	1145
4 Pass. Semi-Sport Touring or Wire Wheels	1265
Touring with built on California top	1425

Model 47
The Smaller Eight
Price Range, $1595 to $2295

Model 46
The Larger Eight
Price Range, $1735 to $2635
All Prices at Lansing, Mich.

Wherever you go, you see Packard trucks; and everywhere you see them, they are on the job, doing their work without apparent strain or effort.

It is this ***known consistency*** of service which has won for Packard Trucks the special confidence, not only of fleet users, but of truckmen, and business firms, using but one or two trucks.

Such users must have a truck that they can depend upon, month after month, and year after year,—and they enjoy this reliable performance, in fullest measure, in the Packard.

They find, too, that Packard's first cost is lower, generally, than that of any other truck which may be said to compare with it in quality; that its after costs are also lower; and that it depreciates more slowly.

Packard Trucks range in capacity from 2 tons to 7½ tons; and in price from $3,100 to $4,500

In 682 cities and towns throughout the United States, Packard Truck Service Stations give owners highly skilled service at a reasonable cost. Packard Truck costs, always low because the sound Packard construction minimizes the need of repair, are held still lower by this expert, broadcast service.

Ask the man who owns one

One in every ten motor trucks of 2-ton capacity and over, in America, is a Packard Truck.

Realize fully, if you please, the degree of Packard preference which this high ratio indicates.

To grasp its significance completely you should know that there are 149 producers in the United States making trucks of from 2 to 2½-ton capacity, 109 making 3 to 4-ton trucks, and 75 making trucks of 5-ton capacity, or over.

This leadership of Packard is directly traceable to its superiority in the qualities which every truck-buyer earnestly seeks.

In other words, Packard has firmly established itself as a better-paying investment in dependability, performance and all-around economy—whether used singly or in fleet.

Packard Trucks range in capacity from 2 tons to 7½ tons; and in price from $3,100 to $4,500

In 682 cities and towns throughout the United States, Packard Truck Service Stations give owners highly skilled service at a reasonable cost. Packard Truck costs, always low because the sound Packard construction minimizes the need of repair, are held still lower by this expert, broadcast service.

Ask the man who owns one

It is perfectly plain that the Packard Truck never could have attained outstanding leadership were it not a sound, saving investment, from every viewpoint of truck operation.

The comparatively low purchase price of Packard Trucks—generally lower than prices of other trucks of comparable quality—adds great emphasis to Packard value.

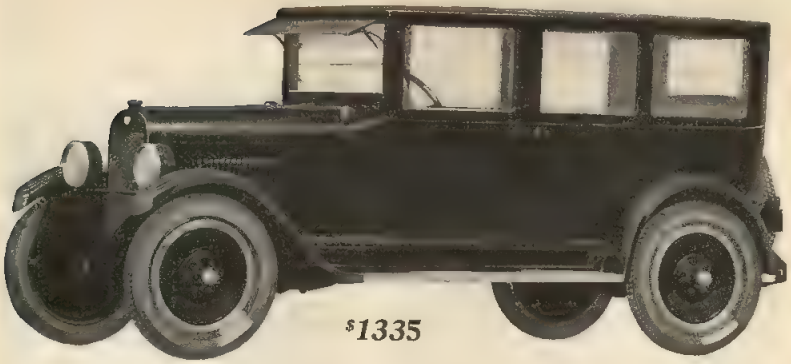
The seasoned and stable organization building the Packard Truck will continue to advance and fortify still further its leadership and its reputation for lower-cost haulage.

Packard Trucks range in capacity from 2 tons, to 7½ tons and in price from $3,100 to $4,500

Packard Service—In 585 cities and towns throughout the United States, Packard Truck Service Stations give owners highly skilled service at a reasonable cost. Packard Truck costs, always low because sound, Packard construction minimizes need of repair, are held still lower by this expert, broadcast service

PACKARD MOTOR CAR COMPANY, DETROIT

Ask the man who owns one



$1335

Outselling because it deserves to outsell—because tens of thousands of people pronounce it far-and-away the best closed car purchase in the world's market today.

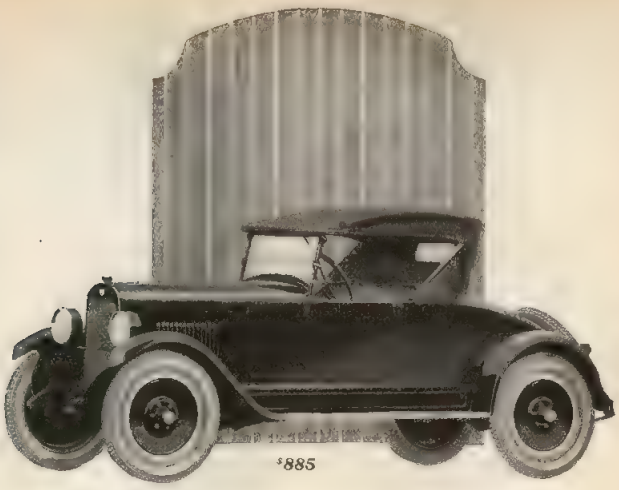
The good Maxwell sedan is a car of roominess and comfort. Long tours are completed without tiresome effect. Large side windows, all of which can be lowered, and the broad rear light, offer clear vision in all directions. Double ventilating windshield gives complete control of ventilation. Upholstery is broadcloth. Hardware is the new satin-finish. The quality equipment anticipates the desires of the owner. A windshield visor carries off rain without splashing the windshield. Rear-view mirror, heater, parking lights, dome light, windshield wiper, Yale locks on doors, steel disc wheels, and non-skid cord tires all around, are included. Prices F. O. B. Detroit, revenue tax to be added. Sedan, $1335; Four Passenger Coupe, $1235; Club Coupe, $985; Touring, $885; Roadster, $885.

MAXWELL MOTOR CORPORATION, DETROIT, MICHIGAN
MAXWELL MOTOR COMPANY OF CANADA, LIMITED WINDSOR, ONTARIO

MAXWELL

The Good

MAXWELL



$885

Splendid reliability, satisfying comfort, unusually fine performance, notable savings in operation—all are now definitely established as the outstanding attributes which the new organization is building into the good Maxwell.

Cord tires, non-skid front and rear, disc steel wheels, demountable at rim and at hub; drum type lamps, Alemite lubrication, motor driven electric horn; unusually long springs; deep, wide, roomy seats; real leather upholstery in open cars, broadcloth in closed cars; open car side curtains open with doors; clutch and brake action, steering and gear shifting, remarkably easy; new type water-tight windshield. Prices F. O. B. Factory, revenue tax to be added: Touring Car, $885, Roadster, $885, Coupe, $1385; Sedan, $1485.

MAXWELL MOTOR CORPORATION, DETROIT, MICHIGAN
MAXWELL MOTOR COMPANY OF CANADA, LTD., WINDSOR, ONT.

The Good

MAXWELL

Raised High In Quality
Brought Low In Price

CHANDLER SIX

TO check out the detail of the new Chandler Six is to want to join the Chandler family.

Here are to be found, in surprising degree, all essentials of the highest priced automobile: rugged power, durability, economy, comfort and appealing beauty.

Thousands of these new Chandlers delivered in the last four months are proving to the high satisfaction of their owners that mechanically the car measures up to its superb appearance.

You can tour smartly, safely, comfortably and proudly in any model, open or closed.

NOW $1595 F. O. B. CLEVELAND
(TOURING CAR)

THE CHANDLER MOTOR CAR COMPANY
CLEVELAND

of the soul and with a maximum and abnormal development of bodily interests. It would seem that mothers are neglectful to an extreme degree of the modesty and virtuous grace of their daughters, which, after all, are the virtues which true men love and admire. Men are forced to look up to avoid unseemly display by the modern woman, and how she can avoid realizing this fact is a marvel in femininity.

Ignorance of their own natures, believes President A. Mackenzie Meldrum of Spokane University, is at the bottom of much of the trouble. He writes

Our young people do not know themselves, nor have they learned the sacred purpose of their being. One of the most alarming facts in the world to-day is man's ignorance of self. The home, the school, the press, the platform and the pulpit must unite in combating this noisome pestilence that is spreading a sable cloud of shame disease and death over every community in the land; sowing seeds of moral, mental, physical and spiritual degeneracy, to be reaped by our children in a harvest of national decay.

A CRITIC OF DRESS

"Too many of our young women are improperly clad," declares C. B. Riddle, the editor of *The Christian Sun*, official organ of the Southern Christian Convention

We are so anxious to teach the young of the nation the various branches of academic knowledge, rules of etiquette, and forms of good society, that plain talks to the boys and girls seem to be divorced from the family curriculum. This is a deplorable mistake, against which I inveigh and offer my most solemn protest; for I verily believe it is more important for our sons to know themselves, than to know Plato and Virgil: and it is more imperatively necessary for our daughters to know themselves than to know the histories of ancient Greece and Rome.

"Manners are superficially better and fundamentally worse," remarks President Harry Morehouse Gage of Coe College, Cedar Rapids, Ia. "There has been a pronounced moral sag. Things that are done now are in marked contrast to the vaulting moral enthusiasm of three or four years ago. Generally speaking, there is not enough restraint. Freedom is not balanced

The Touring Car

A New Ideal in Motor Car Value

A new ideal has come true—plainly and unmistakably. Oakland deliberately planned to make the New Oakland the finest light-weight six that advanced engineering, highest grade materials, and expert workmanship could build.

This is borne out in the rugged Oakland chassis; in the remarkable efficiency of Oakland's own overhead-valve six-cylinder engine; and in the many features which the New Oakland shares with much higher priced cars.

Crowning this splendid mechanism are the five new and distinctive Oakland bodies—of a beauty, comfort and fine equipment unequalled anywhere in their price range.

These things prove Oakland's leadership in light-weight six manufacture. Oakland is proving that leadership to an evergrowing number of Oakland owners by its reliable performance, backed by the 15,000 mile guarantee.

See this fine car! Test it thoroughly! Compare it with other cars! The New Oakland Six—the light-weight six of the General Motors group—is by far the finest and most desirable automobile in its price class.

OAKLAND MOTOR CAR COMPANY
Division of General Motors Corporation
PONTIAC, MICHIGAN

The New

PRICES AT FACTORY

Chassis	$ 895	Sport Car	$1295
Roadster	1120	Coupe	1045
Touring Car	1145	Sedan	1285

Oakland Six

The FRANKLIN SEDAN

AT THE NEW PRICE

$2850

THE finest Franklin in 20 years of quality manufacture—at the lowest price in its history, except for four months in 1916.

The first car of this type, suitable for all-round use, in America. Light, flexible and direct air-cooled—no radiator—it is more widely usable than any other car, enclosed or open. Cool in summer.

From its very beginning, the most popular enclosed car built, in proportion to total output. Last year Sedans formed 42½% of Franklin's entire production.

If you have never owned a Franklin Sedan, you do not yet know how much a car can do, how well it can do it, nor how little that service need cost.

* * *

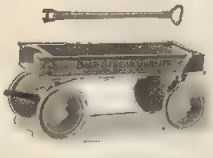
Motorists' desire for better service made April, 1922, Franklin's biggest April. And as we go to press, still another record is broken. On May 1, over three times as many Franklins were delivered as in any previous day on record.

Touring Car $1950 Demi-Coupé $2100 Runabout $1900
Demi-Sedan $2250 Coupé $2750 Brougham $2750
Touring-Limousine $3150 (All prices f. o. b. Syracuse)

FRANKLIN AUTOMOBILE COMPANY
SYRACUSE, N. Y.

We Are Headquarters for a

Full Line of Children's Vehicles



Steel Express Wagons.

Wood Coaster Wagons with Steel Disc and Wood Wheels.

Velocipedes; Tricycles; Toy Barrows; Juvenile Automobiles, No Dead Center Gear; Hand Cars; Doll Cabs; Baby Vehicles; Bicycles; Adult and Juvenile Wheels for Children's Vehicles; Invalid Chairs.

The Super Quality Line

Prices Right Send for Catalog

The Toledo Metal Wheel Co., ***Established 1887*** **Toledo, Ohio**

WAGON WHEELS—See Wheels, Carriage and Wagon

WAGON WRENCHES—See Wrenches, Carriage and Wagon

WAGONS, Children's

American Boy—See American-National Co.
American-National Co., Toledo, O. "American Boy"
American Toy & Novelty Works, York, Pa.
Arcade Mfg. Co., Freeport, Ill.
★For descriptive data of the above, see index on page 6
Ashland Toy & Novelty Co., Ashland, O.
Automatic Cradle Mfg. Co., Stevens Point, Wis.
★For descriptive data of the above, see index on page 6
Auto-Wheel Coaster Co., North Tonawanda, N. Y. "Junior Roadster"
Burnham Mfg. Co., Charlew City, Ia.
Case (N. D.) Co., Athol, Mass
Dalton—See Dayton Toy & Specialty Co.
Dayton Toy & Specialty Co., Dayton, O "Dalton"
Drees (Geo F.) Co., Covington, O.
Drewry Bros., North Weare, N. H.
Fox Toy Co., Berea, O.
Gendron Wheel Co., Toledo, O.
Gibbs Mfg. Co., Canton, O.
Green Toy Wks., Racine, Wis.
Hercules—See Kirk-Latty Mfg. Co.
Junior Roadster—See Auto-Wheel Coaster Co.
Kiddie-Kart—See White (H. C.) Co.
Kiddie-Koaster—See White (H. C.) Co.
Kirk-Latty Mfg. Co., 1971 W. 85th, Cleveland, O "Hercules," "20th Century"
Lewis-Geer Mfg. Co., Ypsilanti, Mich "Scout"
Mengel Co., Louisville, Ky. "Trail-O-Wag"
Minerva Mfg. Co., 224 Euclid Av., Cleveland, O.
Niagara Metal Stamping Corp., 200 10th, Niagara Falls, N. Y.
★For descriptive data of the above, see index on page 6
North-Western Stamping Co., Burlington, Ia.
Northwestern Toy Mfg Co., St. Paul, Minn
Omaha Toy Mfg. Co., Omaha, Neb.
Paris Mfg. Co., South Paris, Me.
Scout—See Lewis-Geer Mfg. Co.
Sheboygan Coaster & Wagon Wks., Sheboygan, Wis.
Smith (S. A.) Mfg. Co., Brattleboro, Vt.
Thomwood Mfg. Co., 63 W. Washington, Chicago, Ill.
Toledo Metal Wheel Co., Toledo, O.
★For descriptive data of the above, see index on page 6
Toy Company of America, Appleton, Wis.
Trail-O-Wag—See Mengel Co.
20th Century—See Kirk-Latty Mfg. Co.
U. & I. Toy Co., Lorain, O.
Wester Mfg. Co., Boone, Ia.
White (H. C.) Co., North Bennington, Vt. "Kiddie-Kart," "Kiddie-Koaster"
★For descriptive data of the above, see index on page 6
Whitney Bros. Co., Marlboro, N. H.
Wilder Mfg. Co., 17th & Clinton, St. Louis, Mo.
Wilkinson Mfg. Co., Binghamton, N. Y.
Work & Play Device Co., Greenville, O.

WAGONS, Coaster

(See also Wagons, Express, Children's)

American National Co., Toledo, O.
Ampco—See Johns' Mach. & Stamping Wks.
Automatic Cradle Mfg. Co., Stevens Point, Wis.
★For descriptive data of the above, see index on page 6
Auto-Wheel Coaster Co., North Tonawanda, N. Y.
Badger—See Garton Toy Co.
Beat-em-Coaster—See North-Western Stamping Co.
Blu-Bar Mfg. Co., Sycamore, O.
Blue Streak—See Toledo Metal Wheel Co.
Burnham Mfg. Co., Charles City, Ia. "Kelly Kar"
Carry All—See Sheboygan Coaster & Wagon Wks.
Choo-Choo-Car—See Wilkinson Mfg. Co.
Chummy—See Mengel Co.
Columbian Coaster—See Wilkinson Mfg. Co.
Convertible-Coaster—See Toytown Mfg. Co.
Dail Steel Products Co., Lansing, Mich. "Wolverine Speedster"
Dan Patch Co., Connersville, Ind.
Dreadnaught—See Garton Toy Co.
Durham Mfg. Co., Muncie, Ind.
Garton Toy Co., Sheboygan, Wis. "Badger," "Dreadnaught"
Gem Crib & Cradle Co., Gardner, Mass.
Gendron Wheel Co., Toledo, O.
Gibbs Mfg Co., Canton, O.
Gocycle—See Hance (J. W.) Fdry. Co.
Gould Mfg. Co., Oshkosh, Wis
Gra-Houn—See Rundle Mfg. Co.
H-K Toy & Henley Skate Co., Richmond, Ind.
Hance (J. W.) Fdry. Co., Westerville, O. "Gocycle"
Henley Skate Co., Richmond, Ind.
Hercules—See Kirk-Latty Mfg. Co.
Hercules—See La Porte Mat & Mfg. Co.
Hudson Mfg. Co., 324 3d Av. N., Minneapolis, Minn
Hunt, Helm, Ferris & Co., Harvard, Ill. "Star"
Janesville Coaster—See Janesville Products Co.
Janesville Products Co., Janesville, Wis. "Janesville Coaster"
John's Mach. & Stamping Wks., 1715 Leonard, Cleveland, O. "Ampco"
Kelly Kar—See Burnham Mfg. Co.
Kiddie-Koaster—See White (H. C.) Co.
Kiddie-Road-Ripper—See White (H. C.) Co.
Kirk-Latty Mfg. Co., 1971 W. 85th, Cleveland, O. "Hercules"
Kokomo Specialties Mfg. Co., Kokomo, Ind.
La Porte Mat & Mfg. Co., La Porte, Ind. "Hercules"
Larimer Co., Aurora, Ill. "Little Jim Speeder"
Lewis-Geer Mfg. Co., Ypsilanti, Mich. "Scout"
Little Jim Speeder—See Larimer Co.
Maryland Toy Co., 1st & Dillon, Baltimore, Md.
Mengel Co., Louisville, Ky. "Chummy," "Twoster"
Niagara Metal Stamping Corp., 200 10th, Niagara Falls, N. Y. "Premax"
★For descriptive data of the above, see index on page 6
North-Western Stamping Co., Burlington, Ia. "Beat-em-Coaster"
Paris Mfg Co., South Paris, Me.
Peerless—See South Bend Toy Mfg. Co.
Premax—See Niagara Metal Stamping Corp.
Puffer-Hubbard Mfg Co., 32d Av. & 26th, Minneapolis, Minn "Town and Country"
Radiaway Mfg. Co., 421 Culvert, Cincinnati, O.
Rundle Mfg. Co., Fremont, O. "Gra-Houn"
Safety Coaster—See Wilkinson Mfg. Co.
Scout—See Lewis-Geer Mfg. Co.
Sheboygan Coaster & Wagon Wks., Sheboygan, Wis. "Carry All," "Unique"
Sherwood Bros. Mfg. Co., Canastota, N. Y.
Slade Mfg. Co., 2837 E. 16th, Kansas City, Mo. "Speed Demon"
South Bend Toy Mfg. Co., South Bend, Ind. "Peerless," "Standard"
Speed Demon—See Slade Mfg. Co.
Standard—See South Bend Toy Mfg. Co.
Star—See Hunt, Helm, Ferris & Co.
Steel Stamping Co., 2533 Broadway, Lorain O.
Toledo Metal Wheel Co., Toledo, O. "Blue Streak"
★For descriptive data of the above, see index on page 6
Toytown Mfg. Co., 1116 E. Hennepin Av., Minneapolis, Minn "Convertible Coaster" (hand power)
Town and Country—See Puffer-Hubbard Mfg. Co.
Twoster—See Mengel Co
Unique—See Sheboygan Coaster & Wagon Wks.
Wabash Express—See Wabash Mfg. Co.
Wabash Mfg. Co., Terre Haute, Ind. "Wabash Express"

The Perfect Heat for Small Homes

A good deal of money can be saved by installing Clow Gasteam radiation—the cost of excavating a cellar, building a chimney and coal bin.

Buy It on Easy Terms

The installation can be purchased on easy terms, [illegible] supervision, etc.

Your home will have real steam heat—admittedly the best—and the value of your property will be enhanced. But you will never have the nuisance of coal, with its ashes and dirt, and the necessity of tending a furnace.

The Healthful Heat

The heat will be healthful, with just the right amount of humidity. And you will find it economical, because you pay for fuel only as you use it.

Clow Gasteam radiation is successfully used for the heating of small homes as far north as northeastern New York. It is also used for other kinds of buildings—stores, offices, churches, schools, and so on.

Clow Gasteam, the modern heating system, furnishes steam heat without coal, using gas for fuel. Where other heating systems take moisture from the air, resulting in many forms of illness, Clow Gasteam adds moisture to the air.

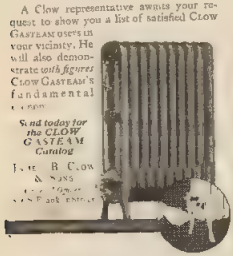
Self-Contained Units

Each radiator is a steam heating plant in itself—automatically regulated. And each radiator is complete in itself—you can use one or more as you desire.

A Clow representative awaits your request to show you a list of satisfied Clow Gasteam users in your vicinity. He will also demonstrate *with figures* Clow Gasteam's fundamental economy.

Send today for the CLOW GASTEAM Catalog

James B. Clow & Sons [illegible]



CLOW

Sales Offices Everywhere

withstood, and he gobbled it up, pausing a second in his chase. Another dog followed him out of the underbrush, finding the first piece of meat Brother had thrown.

It did not take long for the two hounds to finish off the raw meat and, as Brother tossed to them by the small boy almost hidden in a clump of tall ferns. And when it was gone, Leonard was safe, for the dogs, with the smell of fresh meat in their nostrils, had lost the lighter scent of the little deer's flying hoofs, and they sniffed shamefacedly and with befuddled yappings, until the hunters came racing down the hill and crashing out the open [illegible] berate the dogs soundly for having lost the game—as they supposed—in the woods.

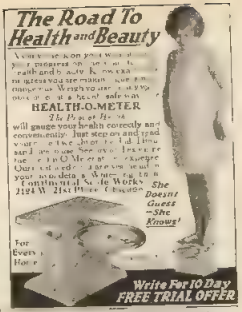
They could not know that the little boy in the clump of ferns, looking on so innocently, was responsible for the hounds' failure, nor that their game was at the instant held tightly in the arms of a little girl who was sensing a full experiment as well as with fear and a [illegible] hurrying to pay the penalty of his rage.

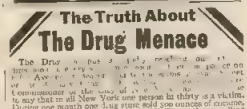
But nothing else. The men stamped back into the woods, taking the hounds with them, and that day at least we heard no more baying on the hill.

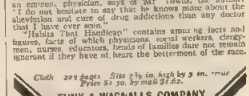
The children were afraid to let Leonard go back to the woods until the deer season was over or until he was of a size better able to care for himself. A pen was contrived of wire netting with the brooder house as shelter for nights. There they kept Leonard a willing prisoner, while the hounds bayed on the hills and shots echoed across the water. In time they released the deer, first with a collar and a rope, and then with nothing to hold him. He followed the children like a dog, trotting beside them with dainty, mincing steps, and he soon learned his name, and would come bounding out to them when they called. They fed him things his ancestors probably never tasted—cookies, apples, lettuce leaves and candy gum. But best of all delicacies was chewing-gum. When it was first offered him, Leonard accepted it daintily, and chewed it, with an actual expression of surprise coming into his brown eyes. He chewed and chewed. Perhaps he thought it was a new variety of cud. At any rate, he gave it his hearty indorsement, and after that he would nose in Brother's pockets to find the stick of gum that was always there. Leonard seemed perfectly content to forget the ways of the woods for those of civilization until [illegible] s ons goes on

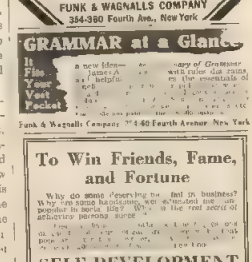
One night I woke to find Brother shaking me by the [illegible] He was whispering [illegible] the most thing was inside Leonard's pen. [illegible] perhaps it was a bear or a wildcat trying to get at him.

Foolish children we may have been, but we were not cowardly. It never occurred to us to rouse the grown-ups. Leonard was our friend and our responsibility. From my window the two of us crept out on the roof, white night-gowned figures, shaking with cold and excitement. From the roof we dropped [illegible] to the railing of the picket fence at the back of the cabin and from there to the ground.









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Rub-Down	Bathing
Bathing Invalids	Exercise
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Athletes	Tennis
Sore Muscles	All Sports
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In Sealed Pint Bottles Only

U.S. Industrial Alcohol Co.
Largest Producer in the World

New York, Boston, Chicago, Cleveland, St. Louis, Baltimore, Louisville, Kansas City, Pittsburg, New Orleans, Detroit, Cincinnati, St. Paul, Peoria, Indianapolis

CURRENT EVENTS
Continued

nambuco, Brazil, in completion of their transatlantic flight from Lisbon. Three planes were used in the flight, which was begun early in April.

June 6.—Dr. Sun Yat Sen, President of the Republic of South China, will refuse to resign to clear the way for General Wu Pei-Fu's plan to reunite China under one government, according to advices received from Canton.

DOMESTIC

May 31.—The Senate Finance Committee, by a vote of 9 to 4, orders the McCumber bonus bill reported to the Senate.

Investigation of the so-called war fraud cases begin before a special Federal grand jury in Washington, when allegations involving the disposal of surplus lumber are presented against the Quartermaster Corps of the United States Army.

June 1.—The House rules committee votes down by 7 to 4 the Woodruff-Johnson resolution to investigate alleged laxity in war fraud prosecution.

An organization to be known as "the permanent conference for the abolition of child labor" is formed in Washington by representatives of a number of national associations, with Samuel Gompers as permanent chairman.

June 2.—A race riot near Kirvin, Texas, results in the death of one white man and six negroes.

The annual Army appropriation bill fixing the size of the Army at an average of 12,000 officers and 125,000 men, and carrying an appropriation of $311,750,000 is passed by the Senate. The measure now goes to conference with the House.

June 3.—Secretary Hughes accepts for the Government of Great Britain's invitation to join with the British, French and Italian Governments in an investigation into alleged Turkish cruelties against Christians in Asia Minor.

June 4.—Boris Bakhmeteff, ambassador to this country for the Kerensky Government in Russia, extinct for five years, will end his relations with this Government on June 30. The work of the embassy will be carried on by an attaché of the staff.

June 5.—The Federal Trade Commission begins proceedings to test the legality of the proposed Bethlehem-Lackawanna steel merger.

The United States Supreme Court hands down a decision that labor organizations, generally, are liable to be sued and to judgment for damages in case of injury to property in the course of strikes, and that strike funds may be levied on to collect judgment.

Lillian Russell Moore dies at her home in Pittsburgh in her 62nd year.

June 6.—Officials of eleven railway unions, including the Railway Employees' Department of the American Federation of Labor, authorize a nation-wide strike vote, returnable on June 30. The strike will affect 1,200,000 men.

Wages of 400,000 railroad employees, including shopmen, freight-car men, helpers and car-cleaners, are cut, approximately $60,600,000, by the majority members of the United States Railroad Labor Board, the decisions bringing the total wage savings for the railroads to approximately $110,000,000.

40,000 Showrooms

A descriptive advertisement in these pages displays your merchandise to the entire wholesale and retail hardware field—40,000 showrooms exhibiting your products every day in the year.

You will reach the buyers at the most advantageous time—the moment when they are interested and want to know more about your products.

Why not show them sufficient data to convince them why they should buy *your* line?

Ask us for particulars. They're mighty interesting.

Hardware Buyers Catalog and Directory

239 West 39th St., New York City

Genuine COLUMBIA White Beech

GERMAN-AUSTRIAN

Wood Planes

MADE IN OUR FACTORY ABROAD

No. 7 No. 1

No. 7 HORN SMOOTH PLANES for double irons. 8 ½ inches long. 1⅝ to 2⅛ inches with irons.
No. 1 SQUARE RABBET PLANES, 10 inches long. ⅛ to 1⅛ inches.
No. 2 SKEW RABBET PLANE, 10 inches long ⅛ to 1⅛ inches.
No. 5 SCRUB PLANES 9 inches long. 1⅝ to 1⅝ inches with irons.
No. 3 TOOTH PLANES 8 ½ inches long. 1⅝ to 2⅛ inches.
No. 11 JACK PLANES for Double Irons 14 and 15 inches long 2 to 2½ inches with irons.
No. 25-36 BEAD PLANES 6½ inches long. Single or doubled bored.
Also HOLLOW and ROUND MATCH planes, etc., Miter boxes, PLASTERER'S mortar hawks and darbies.

WOOD FRAME SAWS

Made of White Hardwood. Eight Sizes 18 to 32 Inches

All of the above tools are guaranteed Reasonable prices. Prompt deliveries. Ask for illustrated price list.

Columbia Wood Tool Mfg. Co., Inc.
157-159 E. 128th St. New York City

PLANTERS, Corn (Continued)

Avery (B. F.) & Sons, Louisville, Ky. "Memphis," "Miss Dixie," "Mr. Bill," "New Union," "Shawnee"
Avery Co., Peoria, Ill. "Princess"
Banner—See Deere & Co.
Bateman & Co., Grenloch, N. J. "Iron Age"
Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass. "Eclipse," "King of the Corn Field"
Black Hawk—See Sechler (D. M.) Implement & Carriage Co.
Blue Star—See Wistraud Mfg. Co.
Boss—See Kelley (G. A.) Plow Co.
Bradford—See Decker Mfg. Co.
Brinly-Hardy Co., Louisville, Ky. "Derby"
Buckeye Rotary—See Eagle Mach. Co.
Caledonia Bean Harvester Wks., Caledonia, N. Y.
Campbell Bros. Mfg. Co., Harrison, O. "Planetite"
Cardwell Mach. Co., Richmond, Va. "Steel Centennial"
Casaday Star—See South Bend Chilled Plow Co.
Casaday Up-to-Date—See South Bend Chilled Plow Co.
Case (J. I.) Plow Wks. Co., Racine, Wis. "Edge Drop"
Centennial—See White's (S. R.) Sons
Century—See Thompson Plow & Engine Wks.
Challenge—See Mountville Mfg. Co.
Challenge—See South Bend Chilled Plow Co.
Champion—See Moline Plow Co.
Champion—See South Bend Chilled Plow Co.
Czar—See Ohio Cultivator Co.
Davey Crockett—See Kelley (G. A.) Plow Co.
Decker Mfg. Co., Brockport, N. Y. "Bradford"
Deere & Co., Moline, Ill. "Banner"
Davison—See Eureka Mower Co.
Derby—See Brinly-Hardy Co.
E-B—See Emerson-Brantingham Co.
Eagle—See Mountville Mfg. Co.
Eagle Mach. Co., Lancaster, O. "Buckeye Rotary." "Gem"
Eclipse—See Belcher & Taylor Agricultural Tool Co.
Eclipse—See Eureka Mower Co.
Edge Drop—See Case (J. I.) Plow Wks. Co.
Emerson-Brantingham Co., Rockford, Ill. "E-B"
Empire—See International Harvester Co. of America
Empress—See Rock Island Plow Co.
Eureka Mower Co., Utica, N. Y. "Davison," "Eclipse," "Gordon," "Segment"
Farquhar (A. B.) Co., York, Pa. "Keystone," "Strelwig"
Favorite—See Sterling Mfg. Co.
Flying Dutchman—See Moline Plow Co.
Gem—See Eagle Mach. Co.
Golden Rule—See Ohio Cultivator Co.

DOMESTIC

April 26.—Continued reports of dead and missing in the flood that inundated Fort Worth, Texas, for two days brings the list to 63

April 27. President Harding delivers a memorial address at General U. S. Grant's birthplace at Point Pleasant, Ohio, and says that all nations are backing the disarmament movement.

Twenty-four nationally known lawyers file a report with Secretary of State Hughes denouncing the motives and methods of the State and Navy Departments in their treatment of Haiti

April 28. The House passes the Dennison blue-sky bill making it illegal to use United States mails and other agencies of interstate commerce for transporting and promoting the sale of securities contrary to the laws of the State

April 29. The Senate unanimously adopts the La Follette resolution calling for an investigation into the action of the Interior Department and the Navy Department in the leasing of the naval oil reserves in California and Wyoming

The Socialist party of the United States, in convention at Cleveland, votes for an immediate affiliation with the Vienna Internationale

Gifts by John D. Rockefeller for the advancement of education in the United States within the last twenty years are estimated by the President of the General Education Board to be $130,000,000

Secretary of State Hughes replies to the protest lodged against the United States Government in Haiti by announcing that the Government's policy will stand

Twenty-five moonshiners of the Mill Creek district in Kentucky agree to turn over a new leaf and to surrender their stills to Judge Hiram Johnson of the Circuit Court, and afterwards engage in prayer in the court-room.

April 30.—President Samuel Gompers, of the American Federation of Labor, issues a statement declaring that recognition by the United States of the Bolshevik government would be "a needless and base betrayal of civilization"

May 1.—A bill extending for one year from next July 1 the power of the War Finance Corporation is passed by the Senate by unanimous vote.

The House passes the Dun bill authorizing an appropriation of $65,000,000 for road-building for the year beginning July 1, and $75,000,000 for the year thereafter

Major-General James William McAndrew, Chief of Staff of the A. E. F. in France in the latter part of the World War, dies in his 60th year

May 2.—President Harding sends to the House a request for a special appropriation of $500,000 to be used by the Department of Justice to investigate and prosecute all civil and criminal cases growing out of the war

Two joint resolutions to legalize light wines and beer, and a bill providing, in effect, for submission of the same question to a referendum vote are introduced in the House by Representative Ansorge, of New York.

Collections of internal revenue for the first three-quarters of the current fiscal year fell off by more than $875,000,000 as compared with the corresponding period of last year, according to a report of the Internal Revenue Bureau.

CONN RADIO CONCERTS from Ocean to Ocean

Brass Choir San Francisco Symphony Orchestra

Pictured here are some of the artists appearing in Conn Radio Concerts. Above—Frank Westphal's Rainbow Garden Orchestra, Chicago.

Leo Preston Cornet Soloist

Mathew Auciello Saxophone Soloist

Jos. Linden Cornet Soloist

Antonio Marino Euphonium Soloist

Eugene Lafleur Cornet Soloist

THIRD OF NATIONAL SERIES

Friday Evening, May 19

CONN radio concerts have taken the nation by storm! Our programs of March 17 and April 14 by America's leading dance orchestras and nationally famed soloists have occasioned universal admiration for Conn enterprise.

Isham Jones, Joseph Smith, Frank Westphal, Hal Nichols, D. C. Rosebrook and their orchestras have already played; Benne Henton, Charles Randall, John Leick, Mable Keith Leick and Fred Tait have given solos. More of their calibre are to appear.

Travelers on shipboard 1500 miles from the Atlantic and Pacific coasts, people in Northern Canada and in Central America will enjoy the same music which will be heard throughout the United States May 19.

Think of it—Conn Ltd. is entertaining people by wireless a quarter of the way around the globe

May 19 programs will be broadcasted from:

New York, Station WJZ, San Francisco, Station KDN; Detroit, Station WWJ, Chicago, Station KYW; Pittsburgh, Station KDKA, New Orleans, Station WAAB, Denver, Station ZAF, Kansas City, Sweeney Station Seattle, Wash., Station KGB

Conn dealers are entertaining at radiophone concerts. Watch for local announcements.

Write to Conn Ltd. now for new saxophone book, FREE. Tells why the Conn is the world's finest, choice of the famous artists on the radio programs.

522 Conn Building C. G. CONN, LTD. Elkhart, Indiana

Agencies in All Large Cities

Conn New York Co., 233-5-7 W. 47th St. Conn Chicago Co., 62 E. Van Buren St.
Conn Detroit Co., 243 E. Grand River Ave. Conn Seattle Co., 1609 Third Ave.
Conn New Orleans Co., 317 Baronne St
Conn Portland Co., 127 Tenth St.
Conn Cleveland Co., 1220 Huron Road

CONN

WORLD'S LARGEST MANUFACTURERS OF HIGH GRADE BAND AND ORCHESTRA INSTRUMENTS

Courtesy New York Zoological Society

HE TOOK A PRIZE.

The portrait of this benign and aristocratic chimpanzee was awarded first prize for photographs of mammals in captivity, in the exhibition held by the American Museum of Natural History

the smallest stop, the surroundings are brought into focus. If the bird is wild, use a long rubber tube to operate the shutter lever, or attach a string to the same.

Hunting with a jack-light is illegal, because the animal has a poor chance for a safe getaway, as the light—first noticed out of curiosity—blinds him. Advantage is taken of this in flashlight photography.

THE LIVELY JOB OF SHIPPING WILD ANIMALS

THE king cobra had to be moved into a new box. He was a very wild snake and whenever his captor approached him, the cobra beat its head against the wires of the cage. As this cage was only a shallow box made of flimsy, decaying boards and covered with a wire netting, and as the snake was the largest cobra on record measuring twelve and a half feet, it seemed expedient, to put it mildly, to give him a better home before shipping him from Singapore to New York. So the animal dealer, Mr. Frank H. Buck, as he explains in *Asia* (New York), had a handsome box made of teakwood with a plate-glass top, and when this was delivered at Yew Kee's compound, where he was keeping the snake, the task of changing the cobra to his new quarters was undertaken Yew Kee and two of his Chinese assistants, and Beni Chee, Mr. Buck's Malay "boy," who were helping, were standing in the center of a narrow cement passageway that ended blind against a wall. On one side of the passageway were a number of wooden crates containing tigers; on the other side were some fish-tanks. One of the Chinese assistants picked up the old box, and just as he came to the center of the passageway, the rotten bottom fell out of the box and the snake was dumped on the floor. And then, says Mr. Buck:

Everybody lost his head. My "boy," who faces tigers intrepidly, jumped over

Of course it's a Corona!

No other typewriter can meet the hard requirements of the student

THOUSANDS of Coronas "graduated" from college last spring. Thousands more will enter college this fall.

The student who hasn't a typewriter is working under a handicap, and Corona is the one typewriter that combines all the needed qualities.

1 *Greater portability.* Corona weighs only 6½ pounds, and is not screwed to a board. Folded, in its neat case, it can travel around the world.

2 *Greater simplicity.* Corona has only half as many parts as other typewriters. Very easy to use, very hard to get out of order—two very important points for the free and easy life of the student.

3 *Greater durability.* Corona was the first practical portable typewriter, and it is the *only* one that has been tried and perfected over a period of years. Its war record speaks for itself.

4 *Special keyboards.* Engineering, chemical, medical, mathematical or foreign language keyboards, as well as a variety of sizes and styles of type. No extra charge.

Your local Corona dealer will be glad to show you Corona and to explain our easy payment plan. Write for our interesting booklet No. 5, and the address of the nearest Corona store.

CORONA

The Personal Writing Machine

REG. U.S. PAT. OFF.

CORONA TYPEWRITER COMPANY, Inc.
105 MAIN STREET GROTON, N. Y.

Fold it up-take it with you-typewrite anywhere

Above is an actual photograph of Corona number 27,035 purchased nine years ago by Mr Conklyn, whose statement appears below

Nine years service - 35¢ repairs

"CORONA has been my helper for nine years. This wonderful little typewriter has aided me in my business, increased my income, made school work easier for my children, been private secretary to my wife — and in nine years of the hardest kind of use has cost me exactly thirty-five cents for repairs!" — W. E. Conklyn, Yonkers, N. Y.

Mr. Conklyn's experience is not a bit unusual. Nearly half a million people have learned that Corona is the most willing, tireless private secretary in the world. And sixteen years of service has proved that it is the sturdiest and most trouble-proof of all typewriters, regardless of size or price.

Write for this free booklet

Read how Corona has helped other men and women to increase their output and incomes. With the booklet we will give you the address of the nearest dealer from whom you may purchase Corona on easy payments.

Corona weighs only 6½ pounds, folds and fits in a neat, compact carrying case no bigger than your hat, will do all the work you require of an old-fashioned "heavy" typewriter, and is far more durable.

CORONA

The Personal Writing Machine

REG U.S.PAT OFF.

Built by CORONA TYPEWRITER COMPANY, Inc.
105 MAIN STREET GROTON, N. Y.

Fold it up — take it with you — typewrite anywhere

VACATION TRIPS AND PLAYGROUNDS *Continued*

From ocean to ocean across this vast domain of seashore, river, mountain, lake and plain span the steel bands of Canada's two great rail systems, the Canadian National Grand Trunk and the Canadian Pacific, the former with almost 40,000 miles of tracks, the latter with a mileage of about 20,0[illegible]

Over the Canadian National Grand Trunk the summer tourist may travel from Cape Breton Island, along the shores of Chaleur Bay and St. Lawrence Gulf, through the Quebec and Ontario Lake regions to Lake Nipigon and Lake of the Woods, across the plains to Mt. Robson Park, in the heart of the northernmost Rockies [illegible] through the Fraser and Kootenay River valleys to the Pacific.

[illegible] Maritime Provinces we may [illegible] over the Canadian Pacific System through the forests of New Brunswick, along the Ottawa River, into the Highlands of Ontario, on to the Nipissing, Lake Nipigon, Lake of the Woods regions, across vast wheatlands to the great wall of the Rocky Mountains to Banff in the Rocky Mountains Park, Lake Louise, Field and Glacier, each in settings unsurpassed by the Alps, to the picturesque Kootenay, Arrowhead, O'Kanagan Lakes [illegible] rivers, and finally down the Fraser River Canyon to the western ocean.

SELECTED BOOKS ON CANADA

A Winter of Content, Laura Lee Davidson, Abingdon Press, $1.50.
The New North, Agnes Cameron, D. Appleton & Co., $1.50.
The Laurentians, T. M. [illegible], The Century Co., $[illegible].
Among the Canadian Alps, [illegible] J. Burnet, Dodd, Mead & Co., $[illegible].
Sunset Canada. British Columbia and Beyond, [illegible] H. [illegible], $[illegible].
French Canada and the St. Lawrence, J. [illegible], $[illegible].
Canada, the Spellbinder, [illegible] Wallace E. [illegible], $[illegible].
The Rockies of Canada, Wilbur Dwight Wh[illegible], $[illegible].
The Canadian Rockies. New and Old, A. P. [illegible], $[illegible].
The Tourist's Maritime Provinces, Ralph Kelso [illegible], $[illegible].

[illegible] BOOKS OF INTEREST TO [illegible] IN AMERICA

By Motor to the Golden Gate, Emily Post, D. Appleton & Co., $2.50.
Abroad at Home, Julian Street, The Century Co., $3.00.
American Adventures, Julian Street, The Century Co., $2.50.
A Hoosier Holiday, Theodore Dreiser, Dodd, Mead & Co., $2.00.
Old Seaport Towns of the South, Mildred Co[illegible], Dodd, Mead & Co., $3.00.
On the Trail of the Pioneers, [illegible] T. Faris, [illegible], $3.00.
Historic Shrines of America, John T. Faris, Co[illegible], $3.00.
Roving East and Roving West, E. V. [illegible], $[illegible].
The Wilderness Road to Kentucky, Dr. Wm. A[illegible], [illegible] H. Doran Co., $[illegible].
Potomac Landmarks, P[illegible] Lindsley D[illegible], $[illegible].
In Vacation America, Harrison Rhodes, Harper & Bros., $3.00.
Seeing the Far West, John T. Faris, J. B. Lippincott Co., $[illegible].
Seeing Pennsylvania, [illegible] Faris, J. B. Lippincott Co., $[illegible].
Down Historic Waterways, Reuben Gold Thwaites, A. C. McClurg & Co., $[illegible].
On the Storied Ohio, Reuben Gold Thwaites, A. C. McClurg & Co., $[illegible].
Our American Wonderlands, [illegible] Wilbur [illegible], $[illegible].
What to See in America, [illegible] Mathews, [illegible], $[illegible].
Highways and Byways of Mississippi Valley, [illegible] Hough, G. P. Putnam's Sons, $[illegible].
Colorado River, [illegible] Hough, G. P. Putnam's Sons, $[illegible].
Mississippi River, Julius Chambers, G. P. Putnam's Sons, $4.00.
Seeing America, Logan Marshall, J. C. Winston $[illegible].

THE CRAFT PIPE WRENCH

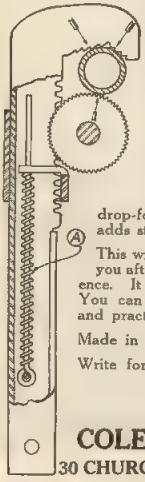
ALL GRIP NO SLIP

SELF ADJUSTING

PATENTED

THE Craft Self Adjusting Pipe Wrench is extremely practical, quick acting and is operated by one hand.

No pressure is necessary on the head to prevent slipping; both hands are always free for increased leverage. The Jaws (see diagram) make a three-point contact; pressure increases the grip. They give a twisting motion that will not crush the pipe. The movable jaw is pushed back by hand, a light spring in the handle (see diagram) slides this jaw forward.



The Craft has eight times the wearing surface of any other wrench. Each size of pipe is gripped by different teeth on the ratchet wheel. It is all-steel, with wearing parts drop-forged and has a tubular handle that adds strength and reduces weight.

This wrench is no experiment. It is offered to you after seven years' development and experience. It is the ideal Pipe Wrench for any job. You can stake your reputation on its quality and practicability. Guaranteed, of course.

Made in 6 sizes, 6" to 24".

Write for circular and Price List.

WRENCH DEPT.

COLEMAN RAILWAY SUPPLY CO., Inc.

30 CHURCH ST. NEW YORK

sleeping-car services to the Carisso Gorge and to the Apache Trail provide connections with the Southern Pacific New York-New Orleans steamship line, the steamers of which leave New York on Saturdays and arrive at New Orleans early in the morning of the following Friday, leaving New Orleans for New York every Wednesday, arriving New York on the morning of the following Monday.

UNDER THE SUNNY SKIES OF CALIFORNIA

Resembling in many ways its European prototype, the southern coast of California may be termed appropriately the great American Riviera. Yet this thin strip of shore line is only one part of the Golden State's winter attractions. Back of the ocean resorts are fertile valleys, sunny hillsides and the nature wonders of the Sierras. Pioneers came to California to dig its precious ores. Subsequent generations in ever-increasing numbers come hither to extract California's permanent riches of health, rest and recreation. Countless thousands of these pilgrims never return, for California holds them happy and contented in her enduring embrace. All degrees of climate are available. One authority has likened the winter of Southern California to the Indian Summer of the East. While golden citrus fruit ripen in the southern valleys, in the northern and eastern mountain regions the snow belt is attainable.

Arriving in California at San Diego or Los Angeles, favorite winter gateways, having come through the Carisso Gorge or the Cajon Pass, we are at the southern boundary of a recreation region stretching far northward to San Francisco.

San Diego embraces two cities in one, the "Old Town," founded by the Spanish in 1769, and the crumbling remains of the first of the Missions founded by Father Serra in 1769 may be visited. San Diego has many other points of interest, including that landscape gem, Balboa Park, Mission Cliff Gardens and sight-seeing excursions to Point Loma, the outlook from which Charles Dudley Warner described "as one of the most remarkable views in the accessible civilized world, one of the three or four really great prospects which the traveler can recall, astonishing in its immensity, interesting in its peculiar details." At Point Loma is the Cabrillo National Monument commemorating the discoverer, Juan Rodriguez Cabrillo.

Across the Bay is gay Coronado with its garden-surrounded homes, imposing hotel and ample bathing-beach.

Traveling over the northward boulevard from San Diego we come to that most famous tourist center of Southern California. "It is Los Angeles," says Charles Francis Saunders in "Finding the Worth While in California" (Robert McBride), "to which all roads lead south at Tehachapi (mountain range separating Central California)—and the base from which the tourist in Southern California can most readily set forth to see what he came for. The city possesses the usual assortment of palatial residences, beautiful parks, flowery private grounds, and public institutions of all kinds, common to American municipalities of metropolitan pretensions, and in addition the especial tinge that rose-embowered bungalows, rustling palms and an ostrich farm or two communicate. Personally, I have found the neighborhood of the Old Plaza a fascinating loitering-ground for spare half-hours, with its shifting and picturesque Mexican street life; the shops with their stocks of queer Mexican edibles, Guadalajara pottery and cholo hats; the restaurants often with a Spanish name. . . . Among the pleasant anticipations of most Easterners visiting the Coast for the first time is a sight of the Pacific Ocean. The heart of Los Angeles is a bare twenty miles from it and electric cars and jitneys a-plenty will carry you in three-quarters of an hour to any one of six or eight beach resorts, where even in mid-winter you may take a surf bath. . . . All

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"MERRY CHRISTMAS TO OUR HOME"

Now at the holiday season—books and bookcases are in mind. Every fortunate American family enjoys reading, and a good bookcase is rapidly filled. . . . Globe-Wernicke Sectional Bookcases grow with your library. They are indeed handsome, and glass doors *protect* your books. Popularly priced, in all the period designs. See them almost everywhere!

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Please send me with out charge your booklet of Unusual Decorative Effects for Bookcases.

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Help Your Boy Grow

Different Daisy models range in price from $1.00 to $5.00, and in size to suit the younger as well as the older boy. Ask any hardware or sporting goods dealer

When your boy asks for an air rifle remember that it is the strong, upstanding American man in him asking for a chance to grow.

Millions of clean-cut, alert American boys, now grown, had their first training in manly sport with a Daisy Air Rifle. Mothers, as well as fathers, now generally recognize that this training makes for character and cleanliness. Give your boy a chance to develop character while he's having the time of his life in harmless fun.

DAISY MANUFACTURING COMPANY
Plymouth, Michigan, U. S. A.

"The Happy Daisy Boy"

DAISY
AIR RIFLES

CHAMPION
of the Northwest

Arthur Lundberg

Lundberg's wonderful victory over a big field, at Portland, Oregon, where he captured both the Northwest and Oregon State championship scalps, was won with a Dayton — the fastest, sturdiest and most dependable bicycle on the market.

The story of Arthur's success is interesting—it's a story of rider and bicycle leadership.

That the bicycle of his selection should have been a Dayton is only natural.

And there are some important reasons why *you* should own and ride a Dayton.

Dayton Bicycles

"Leaders Since Your Dad Was a Boy"

May we send you (free) a copy of our new art catalog? Most of all we would like to send you (also free and postage paid) a copy of a most interesting booklet entitled: **"How to Choose a Bicycle."**

This booklet tells a lot about bicycles in general—bicycle facts that every boy or girl should know before he or she can safely decide upon a particular type or make of bike. Send for your free copy of "How to Choose a Bicycle," at once. Address:

Cycle Division
The Davis Sewing Machine Co.
Dayton, Ohio

FILL IN—CUT OUT—MAIL TODAY

The Davis Sewing Machine Co., Dayton, O.

Please send me, without obligation, your booklet No. 59, "How to Choose a Bicycle" and the 1922 Dayton Catalog.

Name . . . . . .

St. and No. . . . . .

City and State. . . . . .

Age . . . . . .

MOTORING AND AVIATION
Continued

of directional wireless, used for some time to guide airships through fog or darkness. In the case of the guide cable invention:

The effects of the magnetic field can be detected by means of suitable instruments at considerable distances from the cable. Thus if an aircraft is equipped with these instruments, its navigator can determine his position relative to the cable, and thus ascertain his bearings.

Altho the principles are very simple, M. Loth was faced with numerous problems before bringing his system to perfection. Thus he had to do a tremendous amount of research and experimental work in connection with the formation and extent of the magnetic field surrounding the cable. This work took a long time, as measurements were often taken at intervals of a meter or so. The lines of force, shown in the accompanying diagram, were found to vary with the frequency of the alternating current sent through the cable. The lines

By courtesy of "Aviation," New York

FIG. 3. Installation required on an airplane using the Loth guide cable

shown in Fig. 1 represent the field resulting from using a frequency of 600 per second.

As regards the equipment of the airplane, this is simple in principle, consisting in mounting in a suitable place—for instance, on the tail of the machine three panels of insulated copper wire, so placed as to be at right angles to each other, as shown in Fig. 2, where 1 is the longitudinal vertical panel, 2 the lateral horizontal panel, and 3 the lateral vertical panel. These panels are connected to a telephone receiver, as in ordinary direction-finding wireless, via a commutator, so that the navigator can listen in on either of the three panels.

According to the position of the machine in relation to the cable, the intensity in each of the three panels varies or may even disappear. For instance, when the machine is flying parallel to the cable, the sound is a maximum in the longitudinal panel 1, and nil in the transverse vertical panel 3. As the machine diverges from the course parallel to the cable, the sound diminishes in the longitudinal panel, and increases in the lateral vertical panel, in which the sound becomes maximum when the machine is at right angles to the cable. The sound in the longitudinal panels then vanishes. The horizontal panel has the property that the sound in it vanishes when the machine is vertically above the cable.

It will thus be seen that if an airdrome has a cable running around it, the navigator of a machine can determine, even in a thick fog, the exact moment of crossing the cable, and by finding the height from the altimeter he can determine at what angle to

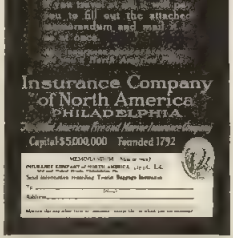
Why worry about baggage?

The theft or destruction of your baggage may mar the pleasure of your trip, especially if you must bear the burden of the loss financially.

The Insurance Company of North America issues a Tourist Baggage Policy that protects your baggage against practically all the perils of transportation and is worth many times the cost in the worry it saves.

If you travel at all, it will pay you to fill out the attached memorandum and mail it to us at once.

Insurance Company of North America
PHILADELPHIA
The Oldest American Fire and Marine Insurance Company
Capital $5,000,000 Founded 1792



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100 Envelopes Printed
$1 complete

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SIMPLE DEVICE CO., Middleburg, Va., Box 14

INVENTORS Who desire to secure patent should write to us for our guide book "HOW TO GET YOUR PATENT." Send model or sketch and description of your invention and we will give opinion of its patentable nature.
RANDOLPH & CO., Dept. 171, Washington, D. C.

Imperial Sanitary Floor

Put on like Plaster
Wears like Iron
waterproof
fireproof
resilient
noiseless
dustless

Base and Floor one solid piece

A composition material easily applied in plastic form over practically any kind of floor. Laid usually in one week. Imperial Floor does not crack, peel or require base or foundation. A cement floor, being cheaper, is preferable, but not necessary. Not affected by heat, grease, fat, dust, dampness or moisture.

Ideal for Kitchen, Pantry, Bathroom, Laundry, Porch, Garage, Restaurant, Theatre, Hotel, Factory, Office Building, Railroad Station, Hospital—wherever a beautiful, substantial floor is desired. Several practical colors. Full information and actual sample FREE on your floor and second choice of color.

IMPERIAL FLOOR CO., 55 57 East Avenue, Rochester, N. Y.

A Success for 15 Years

against dishonest advertising, and has accomplished a great deal of good against this type of propaganda.

But, unfortunately, many undesirable propaganda will not fall under the class of propaganda publicly making dishonest statements. One very undesirable sort is spread by word of mouth. No one knows from whence it comes, and exactly what is back of it. Such word of mouth propaganda is fostered in times of emotional stress and particularly wherever people believe they are not being told all the facts. The best possible cure for it is publicity of the sort that makes people *believe* they are getting all sides to the question.

But in addition to this sneaking underhand propaganda there are all sorts of campaigns which are very undesirable, but which adhere technically to the truth. They can not accordingly be prosecuted for dishonesty. Some of them, however, give false impressions just the same. For a distributor of a food product to advertise that his goods contain no arsenic is to give the impression that the goods of at least one of his competitors do contain that poison.

Then there are other kinds of propaganda which deal with this subject in such a general way that no one can challenge their statement.

To require that propaganda contain truths and not falsehoods is a desirable regulation, but it will not stop undesirable campaigns.

Let us consider, second, to what extent propaganda can be controlled in terms of the action which is proposed.

If the proposed action is that of buying, it is not difficult to evaluate the propaganda. But if the proposed action is that of giving money for some cause or charity, justification upon such grounds is far more difficult. Business men through their Chambers of Commerce in sheer defense are increasingly investigating such propositions, and in many places list the charities that they will countenance.

The establishment of bureaus whose business it is to investigate all organizations asking for funds renders it easier to determine whether any organization is desirable or not. Can society go farther here? Can society not only positively help worthy cause, but put the unworthy, inefficient or unnecessarily duplicating agency out of business? There is no question but that many individuals are being fooled every year and much money squandered through such non-worth-while causes. But at the same time, we must remember that most new uplift movements have encountered great opposition at the start, and to increase this opposition still more through the establishment of legal regulations may do society in the long run more harm than good.

But there is an entirely different type of response which some propaganda aims to accomplish. It is that where no definite act is suggested, but where public opinion is to be changed. To evaluate the propaganda in such cases, the entire program must be considered. And as individual members of a big movement emphasize different aspects it is very difficult to determine just what the movement stands for.

There is another very vexatious phase of this point. Can a propagandist be held responsible for the actions of his followers because he stirred them up originally? Shall propaganda be evaluated only on the basis of the actions that result or on the basis of the motives back of the propaganda?

Our law basically concerns itself with

The Welcome Wedding Gift

Brings Joy to Brides—and Others, Too

ANY WOMAN will prize the Duplex-Alcazar—the wonderful three-fuel range. Because—it gives such marvelous results in cookery, saves work and cuts down expense.

The Duplex-Alcazar burns gas and coal or wood, singly or together. The change from fuel to fuel or to combination is done in an instant and the heat can be instantly adjusted exactly to the degree desired.

It's just like having two ranges—but you purchase only one.

Then think of the comfort of having gas to cook with in hot weather and coal or wood in cold weather. A cool or a warm kitchen just as you wish.

The Duplex-Alcazar is made in various types and styles. Take your choice. Sold by best dealers everywhere. Ask your dealer or write to us for Booklet.

For districts where there is no gas, we furnish an Oil Duplex-Alcazar which burns kerosene oil and coal or wood.

Alcazar Range and Heater Co.

407 Cleveland Avenue — Milwaukee, Wisconsin

THE DUPLEX ALCAZAR
TWO RANGES IN ONE

A MINT FOR THE MERCHANT

DURHAM-DUPLEX

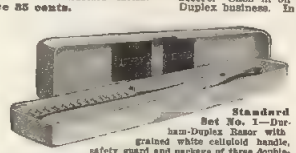
Safe Razor

Demonstrator

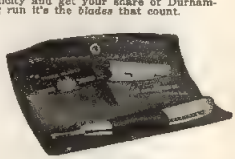
A working model of the higher price Durham-Duplex Razors, nickel plated with black celluloid handle and one Durham Duplex double edged blade. Packed in red cardboard carton. **Price 35 cents.**

The Dealer who ties up with the Durham Duplex instantly lays the foundation for a highly profitable blade business. Nine and one-half million men are satisfied users of this *scientifically correct razor*, and every additional user adds one more to the list of *blade customers*.

Our advertising is selling more Durham-Duplex sets than ever before. Cash in on this publicity and get your share of Durham-Duplex business. In the long run it's the *blades* that count.



Standard Set No. 1—Durham-Duplex Razor with grained white celluloid handle, safety guard and package of three double-edged blades. In handsome, sanitary white grained celluloid case. **Price $1.00.**



Domino Set No. 2—Nickel-plated Durham-Duplex Razor with grained white celluloid handle, stropping attachment and package of three Durham Duplex double-edged blades in a durable, flexible roll of black or red leather **Price $1.00.**

Hold All Set No. 4—Contains nickel-plated Durham-Duplex Razor, package of five Durham-Duplex double-edged blades; also a Rubberset shaving brush and stick of superior shaving soap in separate nickel-plated containers. All in case of durable red leather. **Price $4.00.**

Pioneer Set No. 5—A set modeled after the original Durham-Duplex sets. Contains triple-silver-plated Durham-Duplex Razor, stropping attachment, blade container with package of five Durham-Duplex double-edged blades in a handsome green leather case, green plush lined. **Price $5.00.**

De Luxe Set No. 8—Contains a triple-silver-plated Durham-Duplex Razor, stropping attachment, package of five Durham-Duplex double-edged blades. Rubberset brush and stick of superior shaving soap in celluloid container, a white comb and a Durham-Duplex cushion strop of selected leather. The case is of handsome pigskin-grained leather. **Price $8.00.**

Bathroom Special Set No. 3—Consists of Durham-Duplex Razor and package of three Durham-Duplex double-edged blades, in special holder of grained white celluloid, with hook for hanging up in a convenient place. **Price $1.00.**

Stropping Attachment—Made up in small quantities for sale to buyers of the Standard Set and Bathroom Set. **Price 25 cents each.**

Strop—Suitable for all blades. Made of selected leather with collapsible nickel handle and shrinkaid covered case. 6 inches long. **Price $1.50.**

Durham-Duplex Blades—Double edged, detachable, oil tempered and hollow ground. *The longest, strongest, keenest blades on earth. Sold to Retailers in following lots:*

Five blades to a package. Retail price, fifty cents per package:

1 carton..(12 packages)
5 cartons..(60 packages)
10 cartons..(120 packages)

Three blades to a package; Retail price, thirty cents per package.

1 carton..(24 packages)
5 cartons..(120 packages)
9 cartons..(216 packages)

Bean Brummell Set No. 12—Contains a triple-plated Durham-Duplex Razor, stropping attachment, package of five Durham-Duplex double-edged blades, Rubberset brush and stick of superior shaving soap in white celluloid containers, a white comb and a Durham-Duplex cushion strop of selected leather. The case is of genuine Morocco. **Price $12.00.**

Write your jobber today for price list allowing excellent profits for the retailer. Special discounts allowed for combination orders. Ask about them.

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Factories: Jersey City, U. S. A. Sheffield, Eng.; Paris, France; Toronto, Can.
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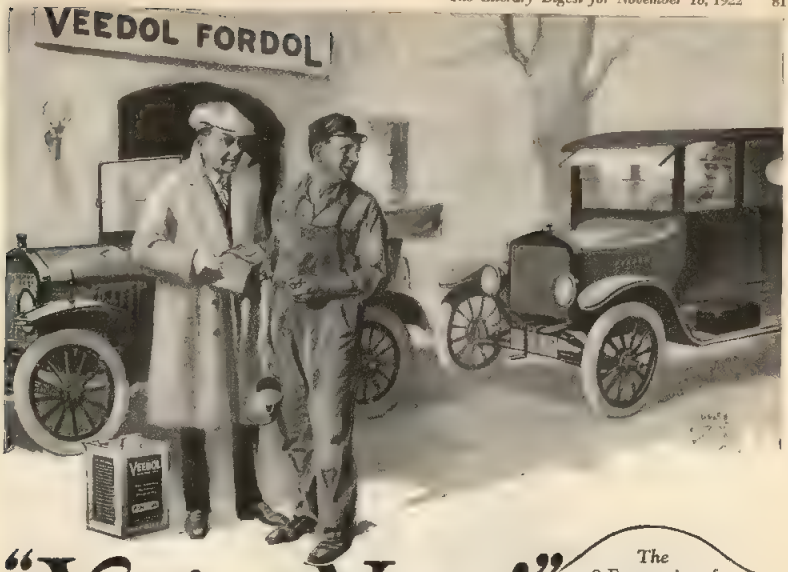

"You're Next!"

Increasing thousands of Ford owners drive up for Veedol Fordol

Four months ago Veedol Fordol was unknown. Today it is an established success—the outstanding lubrication achievement of the year.

This new Ford oil was created by Tide Water engineers after four years of exhaustive experiment to solve the unique and complex lubricating problem presented by the Ford engine and planetary transmission system.

Science perfected Veedol Fordol. Actual use by large corporations, municipal and government departments and by hundreds of thousands of Ford owners has *proven* Veedol Fordol

—the true economy oil for the Ford automobile

—the oil that absolutely eliminates chatter

—the oil that permits the Ford to start, stop and coast with the smooth ease of higher priced cars.

You're next! Go to any dealer who displays the orange and black Veedol sign. Drive up, fill up and take home your first 5 gallon can of this new economy oil for your Ford car.

The 8 Economies of Veedol Fordol

1—10 to 25% saving in gasoline. Hundreds of tests have demonstrated that Veedol Fordol conservatively saves 10% on gasoline consumption, 25% to 33⅓ savings have been developed repeatedly.

2—Eliminates costly "chatter". Veedol Fordol lengthens the life of Ford brake and transmission bands by properly lubricating them. "Chatter" a result of faulty lubricants, is *entirely eliminated*

3—10 to 25% saving in oil. The savings in oil consumption run from 10% to 25%. The exact savings depend upon the mechanical condition of the engine and the lubricant formerly used.

4—10 to 25% less carbon. Veedol Fordol forms on an average from 10% to 25% less carbon in the Ford engine cylinders. The exact savings depend on the mechanical condition of the engine and the lubricant formerly used. Less carbon means more power with fewer repairs.

5—Resists heat and friction. Veedol Fordol possesses to a super-degree the famous characteristic of all Veedol oils to resist heat and friction.

6—Increased ability to coast. With average lubrication a Ford will only coast down steep hills. With Veedol Fordol coasting is possible down the slightest grade.

7—Resists fuel dilution. Even with poor fuel Veedol Fordol maintains its power-test and lubricating value longer than other oils. Result—more miles per gallon of gas and per quart of Fordol

8 Fewer Repairs. Because Veedol Fordol masters the lubricating problems of the Ford power plant the result is a hitherto unknown freedom from engine vibration and repair bills.

Send for Veedol Fordol booklet

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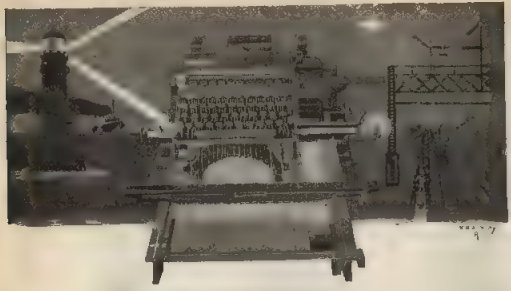
The new economy oil for Fords



Mechanical Accuracy

Assurance of safety demands mechanical precision.

Although the human element is liable to err, the devices of safety that man has perfected are not.

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The Elliott-Fisher representative will gladly help analyze your accounting problems and, without placing you under any obligation, make a written report of what Elliott-Fisher can do for you.

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PERSONAL GLIMPSES
Continued

the coming winter." A Paris cable to the New York *Times* says that "in Moscow the fact is no longer concealed that the populations of the cities will have an even harder life this winter than last"; and Walter Duranty, *The Times* correspondent, wired from Moscow on October 14: "Five million persons will face death by starvation from December until the next harvest, and two or three million more from March. That is the aftermath of last year's crop failure, and in certain areas this year's failure also." Paxton Hibben, secretary of the American Committee for Relief of Russian Children, who has just returned from an extensive investigation of crop conditions in the famine area, declares that land which should have produced 40 to 45 bushels to the acre has averaged only 3 bushels, while the acreage sown is only 10 per cent. of the 1914 acreage and but 66 per cent. of the 1921 acreage. He quotes field-workers of the Quakers, the Nansen Committee and the Dutch and Swedish Red Cross societies as predicting that the approaching winter will be worse than last winter, especially for the children, of whom there are some 600,000 famine orphans in Russia and 400,000 in the Ukraine.

Meanwhile, Leo Kamenev, head of the All-Russian Central Famine Relief Committee, reports that floods in the northwest of Russia (Petrograd, Tver, Pskov, Novgorod, Smolensk, Olonets and the Karelian Republic) have left 965,000 souls without food, while crop shortages in the Volga and Ural famine areas leave 4,137,000 who will have to be fed elsewhere, a total of 5,102,000 requiring relief, exclusive of the famine orphans. He says:

It should be borne in mind that the population of the above districts were in the clutches of famine in 1921 and were in starving condition in 1920, as well. As a result, they have now exhausted all their food and economic resources. The poultry and smaller live stock have been eaten by the population during the recent hunger years. A large proportion of the cattle, including both horses and milch cows, have also been slaughtered.

The Correct Procedure.—William Doublex is noted for his nerve, his shortness of temper, and his scarcity of cash. While he was seated at a lonely breakfast in his club one morning, a debt collector broke in, through the drowsiness of the porter at the door, and presented his bill.

"Sir," said William, glaring at him, "is this all you know of the usages of decent society? To present a bill to a man breakfasting, sir? Do you know that you are an intruder in this club, sir? Do you know I could call the servants and have you thrown out? If you wish to talk business, go outside and send in your card."

The collector went out and sent in his card. William picked it up between thumb and forefinger, adjusted his monocle, and read it.

"Tell the gentleman," he said, sweetly, "that I'm not in."—*Tit-Bits.*

The Powerful Ad.—POLICE OFFICER (to actress)—"So you got your pearls back, miss?"

FLOSSIE FOOTLIGHTS—"Yes; isn't advertising wonderful—here they are, *real* ones: my pearls were merely imitation."—*London Opinion.*

THE LEXICOGRAPHER'S EASY CHAIR

To decide questions concerning the correct use of words for this column, he Funk & Wagnalls New Standard Dictionary is consulted as arbiter

Readers will please bear in mind that no notice will be taken of anonymous communications.

"O. C. B," Columbus, Ind.—"The argument was put forth that the title *D. D* was primarily an honorary title. I made the claim that it is a title earned following the completion of courses in theology at our universities, as is the title *M. D* in medicine and *D. D. S* in dentistry, but that it may be and many times is an honorary title. Can you help us?"

The information you ask for is contained in the following —"*Degrees in the United States*'—At the present time there is a regrettable lack of uniformity throughout the whole system of degrees granted by institutions of learning in the United States. . . . *Not only those degrees which are properly honorary such as the D. D. and LL. D.*, are often bestowed by smaller colleges upon insufficient grounds, but other degrees which should regularly be won only by a definite course of study are conferred as honorary degrees, such as the Ph. D., the M. A., and even the bachelor's degree."—*The New International Encyclopedia* vol. 6, p 614

"L. B., Baltimore, Md.—"How do you pronounce the final letter of the English alphabet"

The final letter of the English alphabet is pronounced *zee* in the United States, altho *zed* may be heard occasionally. In Great Britain however *zed* is the prevailing form, and *zee* is seldom if ever, heard

"W. R. R.," New York, N. Y.—"Please give me the meaning and pronunciation of the word *rotisserie*."

This word means: "1. A restaurant where patrons select uncooked food and have it roasted and served. 2. A cook-shop where one may have food roasted for home consumption." The word is pronounced *ro"tis"se-ri'—o* as in *go*, *i's* as in *police*, *e* as in *mystery*

"G. E. F.," Louisville, Ky.—"What do the letters *S. D. V.* and *C. S. Sp* stand for?"

S. D. V. (or *S. V. D.*) stands for "Societas Divina Verbi" (Fathers of the Divine Word) *C. S. Sp* stands for "Congregatio Sancti Spiritus Fathers of the Holy Ghost)

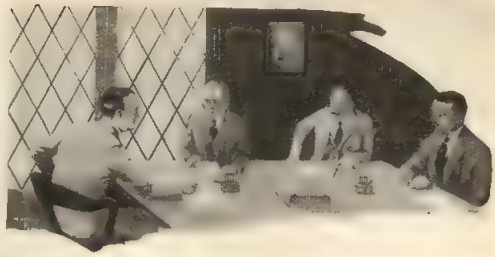
"G. L.," Los Gatos, Calif.—"In a recent article the words 'American' and 'Canadian' were used to distinguish the country lying north of the boundary line from its neighbor on the south. But is this correct? America is the name of a continent, not of a country. A Canadian a Mexican, a Brazilian, a Chilean are as American as the citizen of these United States. No one ever tries to establish a distinction between a European and a German, an Asiatic and a Burmese, or between an African and a Zulu. Why is the attempt made here? If, as has been said, the only true American is the North American Indian, the Mexicans deserve as much more than we to be so called as 75 per cent or more of Cuban attraction is traceable to the Carib and Spanish cultures of this country are generally divided and called Yankee, a term eminently instructive establishing a race the fact that does not measure to the Stars and Stripes. Any reasonable explanation you can give me among the above would be appreciated."

The answer is to be found in the seed sown on the Western hemisphere by the English people.

Frobisher's *Voyages* by Best, issued in 1578, referred to "the *Americans* which dwell under the equinoctial line." Massinger in 1632 in his play, "The City Madam," act iii, scene 3, referred to "ignorant *Americans*." Addison in "The Spectator No. 56, 1711, announced that "the *Americans* believe that all creatures have souls"—a truly wonderful discovery. Herbert, in 1633, in his "Church Militant," wrote "Religion stands on tiptoe in our land, ready to pass to the *American* strand.

The term *American* designates: "1. An aboriginal of the American continent, now commonly called an American Indian. 2. A native of America of European descent, specifically, a citizen of the United States."

The term *Canada*, originally spelled *Cenaaday*, did not come into the language before 1624. See Captain John Smith's 'Virginia,' chapter 6, page 205. "I had called it New England, yet so long he (Thomas Hunt) and his consorts drowned that name with the echo of *Cannaday*." You will not find the word *Canadian* before 1805



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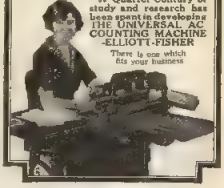

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A

QUALITY PRODUCT

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Hot Blast
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Hot Blast

SUPREME LANTERNS are substantial and attractive. Are guaranteed to hold their light-giving power against most violent wind tests.

A Lantern
That Lights well
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No. 150 Little Supreme

Wanted One Good
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in each city where not represented.

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No. 156 Short Globe Wagon

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Look first for bigness, for strength, for resiliency—then for price.

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35 x 5	Non-Skid Cord	51.80

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Read, write, and converse in French, Spanish, German, or Italian, and you enter a new world of business personal and social delights, benefits and opportunity.

Sparkling French novels, vivid, thrilling Spanish and Italian masterpieces—all are literally [illegible] to you only when you read them in the [illegible] author, for their full charm and subtlety of expression cannot be translated

Ever [illegible] press America are turned to foreign markets. Our export and import firms MUST have representatives, correspondents, office-workers of all types, who know the language of the people with whom they are dealing or are to deal. Whatever your interest in these rapidly expanding factors of trade may be, whether owner or employee, opportunities galore for personal profit are open to you.

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"J. O. C." Lake Beulah, Wis.—"(1) Can you give me a brief statement of the Pilgrim Fathers who sailed in the *Mayflower* in 1620 supplying the names of the families? (2) In one of Emerson's essays I find the word *villeggiatura* which I am unable to find in my dictionaries. Please give the meaning."

(1) In 1620 the *Mayflower*, a ship of 180 tons sailed from Plymouth, England, with 101 Puritans on board. The object of these pioneers was to found a colony in northern Virginia but adverse winds drove them out of their course to Cape Cod (Provincetown) Harbor, where they dropped anchor

Before landing forty-one members of this expedition subscribed their names, each noting the number of his family, on behalf of themselves and of their families, to the following Compact The names are given in the order of signing

Compact of the Pilgrims

(Signed on board the *Mayflower* in Cape Cod [Provincetown] Harbor before landing.)

"In ye name of God. Amen. We whose names are underwritten, the loyall subjects of our dread soveraigne Lord, King James, by ye Grace of God, of Great Britaine, France & Ireland King, Defender of ye Faith, etc. Having undertaken for ye Glorie of God, and advancemente of ye Christian Faith and Honour of our King and countrie, a Voyage to plant ye first Colonie in ye Northerne part of Virginia, doe by these presents solemnly and mutually in ye Presence of God, and of one another, Covenant & Combine ourselves together into a Civill body Politick, for our better Ordering and Preservation & Furtherance of ye ends aforesaid; and by Vertue hearof to enact, constitute, and frame such just and equall lawes, ordinances, Acts, Constitutions & Offices, from Time to Time, as shall be thought most meete & convenient for ye generall good of ye Colonie, unto which we promise all due submission and obedience.

"In witnes whereof we have hereunder subscribed our Names at Cap. Codd ye 11 of November, in ye year of ye Raigne of our Soveraigne Lord King James, of England, France & Ireland ye Eighteenth, and of Scotland ye fiftie fourth Anno Dom. 1620."

John Carver	John Turner
Wm. Bradford	Francis Eaton
Edw. Winslow	James Chilton
Wm. Brewster	John Crackstone
Isaac Allerton	John Billington
Miles Standish	Moses Fletcher
John Alden	John Goodman
Samuel Fuller	Degory Priest
Chris'r Martin	Thomas Williams
Wm. Mullins	Gilbert Winslow
Wm. White	Edw. Margeson
Rich. Warren	Peter Brown
John Howland	Rich. Bitteridge
Steph. Hopkins	George Soule
Edw. Tilley	Rich. Clarke
John Tilley	Rich. Gardiner
Francis Cook	John Allerton
Thomas Rogers	Thomas English
Thomas Tinker	Edw. Doty
John Ridgedale	Edw. Leister
Edw. Fuller	

(2) You will find the word *villeggiatura* defined in the New Standard Dictionary (p. 2553) It is an Italian word and means "a sojourn in the country or at a country villa."

"T. S.," Toronto, Ont., Can.—"Can you give me the meaning of the word *carnapticus*, as, 'a *carnapticus* teacher'? I can't find the word in the dictionary."

Carnapticus is a Scotticism and Hibernianism sometimes written *curnapticus*, and means "irritable, ill-tempered, quarrelsome." The word may be derived from *car*, a bitter or sad expression of the face, or *carb*, cavilling, carping, dissatisfaction, and *knapticus*, captious, quarrelsome, or *knappish*, snappish, snarling, spiteful.

"P. H. R.," Chehalis, Wash.—"Can you tell me how the phrase 'sowing one's wild oats' originated?"

The Lexicographer can not state definitely with whom this term originated, but he has been able to trace the phrase as far back as 1576 in English literature, since which time it may be met with frequently. The meaning of the phrase is to commit youthful follies or excesses, or to spend one's early life in dissipation, usually with the implication of subsequent reform. The allusion is, of course, to the folly of sowing wild oats, which are of no value, instead of good grain that will bring in a harvest of worth.

You give all outdoors when you give a *Flexible Flyer*

You provide an opportunity for children to develop strong, vigorous, sturdy bodies by giving them a Flexible Flyer for Christmas.

Whizzing down snow-packed hills on a Flexible Flyer, "the sled that steers," puts a sparkle in their eyes and the bloom of health on their cheeks.

It's the sled every boy and girl wants and insists on having. It is the original steering sled—the speediest, strongest sled made. Built like an airplane, sturdy yet light in weight—with all-steel runners and a new steel front which takes up shock.

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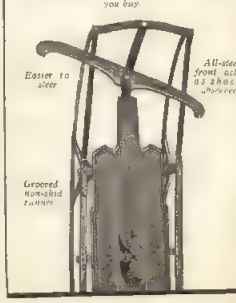
Ask your dealer or department store for a free cardboard model showing how the Flexible Flyer steers—or write us for it.

Insist on seeing this trademark on the sled you buy



sioner met us and proffered the hospitality of a native bungalow a couple of miles from the machine. Here we aroused intense interest, eyes taking little furtive glimpses at us peered through every crack and gap.

During the night we were awakened to hear some fellow prowling about outside. I waited until he was opposite the doorway, then a shot from my Very light pistol put him to a screaming and, I have no doubt, a terror-stricken flight.

The natives had recovered from their shyness by next morning, and on our arrival were swarming around the machine with presents of cocoanuts sufficient to start a plantation; evidently they thought the *Vimy* a very thirsty sort of bird.

We took a cargo of nuts on board, as the water was unsuited for drinking, and, setting off in dazzling sunshine, once more pursued our course above scenes of tropical enchantment and alluring charm.

After following the north coast of Flores to Reo, we crossed over to the south side of the island and ran into isolated rainstorms. Once we saw a small active volcano in the distance and were tempted to go off and gaze down into its smoking crater, but as the weather indicated a change for the worse, we could not afford to make a deviation. We flew on as far as Pandar, and then swung off direct for Timor.

We had by this time acquired such confidence in our engines that it mattered little what lay below us—sea or land.

A thick haze soon obscured the land and all distant vision, but we eventually picked up the Timor coast a few hundred yards from our calculated position. Ten miles inland we came down in the aerodrome at Atamboea, our last landing-ground before Port Darwin.

The Dutch officials had thoughtfully arranged our petrol and oil supply close at hand, saving us a good deal of valuable time, which we were able to devote to a thorough overhaul.

To-morrow would be the great day whereupon reposed the destiny of our hopes, labors and ideals.

This was one of the aerodromes specially made by the Governor-General of the Netherlands Indies for the Australian flight, and had been completed only the day before our arrival. A guard of Dutch soldiers kept watch over the machine while we proceeded with their officers to camp, some six miles away.

It is hardly necessary to say that none of us overslept. We were too excited at the prospect of the morrow. We felt sure that if it dawned fine and hot, our homing was assured; but as we crept out, before sunrise, into the still, sluggish air, we realized that our hopes of an early start were small. A heavy haze lay over the sea and the coast, obscuring everything; so we decided to await its clearing.

We were at the aerodrome before sun-up to discover that a great swarm of natives were even earlier risers than ourselves. Most had come afoot, but many had ridden their ponies, and they clustered on and around the fence, behind and beside the *Vimy*, like swarming bees. We had hauled the machine well back with the tail against the fence in order to take advantage of every foot of the short run.

Our start-off was brightened by one of those incidents that usually make material for comic papers. The propellers were just "kicking" over, like two great fans, and those natives sitting on the fence in the line of the slip-stream were enjoying the cool breeze and looking pleased with themselves. When I opened up the engines and

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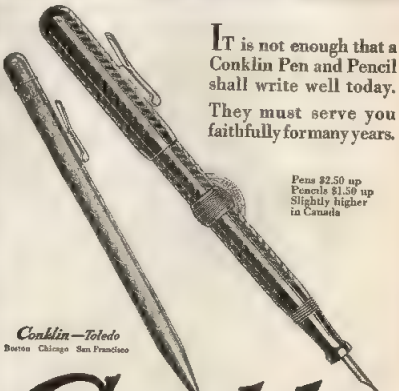

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SPECIFICATIONS:

Krupp steel barrel, bored for Nitro powder, 28 inch Choked Solid "Bolt Action" with Safety Lock preventing accidental discharge. Case hardened and Blued Steel Frame. Imported Stock Golden Oak finish with pistol grip, substantially made to stand rough usage, and fitted with sling strap swivels. About 6 lbs. Shoots any standard factory loaded shell.

A two shot repeating single barrel shotgun. Made with the celebrated "Bolt Action with Safety Lock." One shell is placed in chamber, the other shell in magazine. Fires two shots in rapid succession at will of user, empty shell being automatically ejected by working bolt action after firing, and loaded shell being immediately carried into firing chamber for second shot. Made in 12 and 16 gauge.

The "GECO" Bolt-Action Single Shot Rifle

A high-grade, small-bore rifle that can be offered to the trade at a reasonable price.

SPECIFICATIONS: No. 8—Take-down model; plain front and open rear sights; 19-inch round barrel—Krupp steel; Plain oak finish Stock with pistol grip and metal butt plate. Automatic floating ejector. Single shot nickel chrome steel BOLT ACTION. Weight about 5¾ lbs.; Length—38 inches over all; Rifling—One and one-half turns to the length of the barrel; Shoots .22 Short; .22 Long or .22 Long Rifle rim-fire cartridges.

No. 10—Take-down model; Shoots .22 Short, .22 Long or .22 Long Rifle rim-fire cartridges, Bead front and rear adjustable sights; 25¼-inch round barrel—Krupp steel; Walnut Stock with checkered pistol grip, cheek piece and metal butt plate. Automatic floating ejector; Single shot nickel chrome steel BOLT ACTION; Weight about 8¾ lbs.; Length—39¾ inches over all. Barrel and stock fitted with sling swivels, Rifling—One and one-half turns to the length of the barrel

We are importers of Automatic Pistols—Revolvers—Shot Guns—Ammunition; and also carry a complete line of Domestic Arms and Ammunition.

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GUNS, Oil (Continued)

Simplex—See Agner Simplex Co.
Strickler, T. H., 4321 Wilcox, Chicago, Ill.
Universal Specialty Co., 1496 S. 7th, St. Louis, Mo.
U. S. All-Way Oiler Co., Waterbury, Conn. "All-Way"
World Metal Products Co., Richmond Hill, N. Y.
X. L.—See R. & R. Mfg. Co.

GUNS, Pop—See Pop Guns

GUNS, Shot
(See also Rifles)

A. F. S.—See Stoeger, A. F.
Crescent Fire Arms Co., Norwich, Conn.
Davis-Warner Arms Corp., 98 Chambers, New York, N. Y.
Fox (A. H.) Gun Co., Philadelphia, Pa.
Galef, J. L., 76 Chambers, New York, N. Y. "Geha" (Imported)
*For descriptive data of the above, see index on page 6
Geha—See Galef J. L.
Harrington & Richardson Arms Co., Worcester, Mass.
Hunter Arms Co., Fulton, N. Y.
Ithaca Gun Co., Ithaca, N. Y.
Johnson's (Iver) Arms & Cycle Works, Fitchburg, Mass.
Lefever Arms Co., Ithaca, N. Y.
Marlin Firearms Corp., New Haven, Conn.
Page-Lewis Co., Chicopee Falls, Mass.
Parker (Chas.) Co., Meriden, Conn.
Remington Arms Company, Inc., 25 Broadway, New York, N. Y.
Savage Arms Corp., 80 Church, New York, N. Y. "Stevens"
Stevens—See Savage Arms Corp.
Stoeger, A. F., 508 W. 49th, New York, N. Y. "A. F. S." (Imported)
*For descriptive data of the above, see index on page 6
Three Barreled Gun Co., Moundsville, W. Va.
Union Firearms Co., Toledo, Ohio.
Winchester-Simmons Co., New Haven, Conn.

GUNS, Spray

Myers (F. E.) & Bro. Co., Ashland, O.
*For descriptive data of the above, see index on page 6

GUT LEADERS—See Leaders, Gut

GUY ANCHORS—See Anchors, Guy

GUY CLAMPS—See Clamps, Cable

GYMNASIUM APPARATUS—See article desired

GYMNASIUM LOCKERS—See Lockers, Gymnasium

GYMNASIUM MATS—See Mats, Gymnasium

GYMNASIUM SHOES—See Shoes, Gymnasium

HACK SAW BLADES—See Frames, Hack Saw; also Saws, Hack

HACK SAW FRAMES—See Frames, Hack Saw

HACK SAWS—See Saws, Hack

HAIR CLIPPERS—See Clippers, Hair

HAIR PINCHING IRONS—See Irons, Hair Pinching

HAIR TWEEZERS—See Tweezers

HALTER CHAINS—See Chains, Halter

HALTER ROPE—See Rope, Halter

HALTERS

Alexandria Halter Factory, Alexandria, O.
Badger Handle Co., 409 3d, Milwaukee, Wis. "Tits Tied"
Boyer (Walter) Co., Des Moines, Ia.
Buffalo Weaving & Belting Co., 215 Chandler, Buffalo, N. Y
California Tanning Co., 1905 Shenandoah Av., St. Louis, Mo
Cooper (Otway) Co., Urbana, O.
Covert Mfg Co., Troy, N. Y.
Covert's Saddlery Wks., Interlaken, N. Y.
Franklin Cotton Mill Co., Pinn & Charles St., Cincinnati O
Geza Hammock & Fly Net Co., 826 Florida, Milwaukee, Wis
Graton & Knight Mfg. Co., Worcester, Mass.
Green Halter Co., Urbana, O.
National Leather Mfg. Co., Niles, Mich.
Nott (W. S.) Co., 2d Av. N. & 3d, Minneapolis, Minn.
Planet Co., Westfield, Mass.
Ross (P) & Sons, 9 S. Howard, Baltimore, Md.
Rugg (E. T.) & Co., Newark, O.
Russell Mfg. Co., Middletown, Conn.
Straus Co., 2665 Locust, St. Louis, Mo.
Tits Tied—See Badger Handle Co.
Western Rawhide & Belting Co., 600 S. Pierce, Milwaukee Wis.
Workman (H. B.) Co., Lititz, Pa.

THE LEXICOGRAPHER'S EASY CHAIR

In this column to decide questions concerning the current use of words, the Funk & Wagnalls New Standard Dictionary is consulted as referee

Readers will please bear in mind that no notice will be taken of anonymous communications.

"A. W. T., Brooke Va.— Please decide the following: A claims that the name of the daughter of Herodias, who asked of Herod that the head of John the Baptist be given her in a charger, was Salome. 'B' denies that her name was Salome, declaring there is nothing in the Scriptures to support A's claim."

Salome was the daughter of Herod Antipas and Herodias, but the name of Salome does not occur in connection with the incident referred to above in *Matthew* or *Mark* where it is told.

"H. R. C., Fargo, N. D.— "Kindly inform me the meaning of 'Victor mortalis est.' This presumably is a slogan from an old English coat of arms."

The phrase means "the victor is subject to death" or "the Conqueror is mortal."

"J. A. K., Charlotte, N. C.— "What is the meaning of the term 'pussy-foot'?"

The word means "to tread softly and stealthily so as to conceal one's plans or movements."

"B. B. B., Pensacola, Fla.— "Kindly give me the correct pronunciation of the word *boreas* as appears in the 2nd epode of Pindar's Pythionic *Tor'its*—o as in or, i as in *habit*.

"S. D. L., San Francisco, Cal.—"Can you trace the origin of the expression, 'A Philadelphia Lawyer,' and when and how it came to be used?"

The phrase *Philadelphia Lawyer* means an unusually sharp lawyer. The title was originally bestowed by grateful British sailors upon some members of the bar of Philadelphia who had rescued them from certain difficulties.

"J. S., Brooklyn, N. Y.— "Is it proper to say 'I will have to *light* a fire' or 'I will have to *light* up' on a cold morning? Should it be, 'They *lighted* the fire' or 'They *lit* the fire'? Which is considered better form?"

Both forms are recognized as in use, but the form *lighted* is given preference. Therefore, 'They *lighted* the oil-stove' is better than 'They *lit* the oil-stove."

"B. L. B., Wabash, Ind.—"Is it ever correct to use the word *avocation* for *vocation*?"

An *avocation* is that which takes one from his regular calling. It is a minor or irregular occupation; a diversion. The term is used loosely sometimes by good writers for *vocation*, which signifies one's main calling or business in life.

"A. M., Grinnell, Ia.—"The Greek letter *ph*, as pronounced in *philosophy*, is"

"L. K., Santa Ana, Cal.—"Kindly give me the pronunciation of the word *opuscule*."

The word *opuscule* means "a small or unimportant work." It is pronounced *o-pus'kul* (*o* as in *no*, *u* as in *but*, *a* as in *final*. The form you give is a variant spelling.

"R. P. C., Nineveh, N. Y.—"An article in a popular magazine states that in shipping ice from the Islands of Formosa, care must be taken not to ship any ice when there is a cargo of copra on board. What is the meaning of *copra*?"

Copra is the dried kernel of the coconut broken up for export from the Islands of the Pacific.

"W. G. A., Cincinnati, O.— "I [illegible] are [illegible] word *farther* and *further*. Can you give me the rules for using the two words? Please give two sentences illustrating the words."

Farther should be used to designate [illegible] distance; *further* to signify quantity or degree. "How much *farther* have we to go?" "Proceed no *farther* along that course."

"B. F. M., Nashua, N. H.— "Is it true that the State of New Hampshire designates its residence, as Ohio is called the *Buckeye State*, [illegible] *Hoosier State* etc. (2) Is Washington's General Leonard Wood [illegible]?"

(1) New Hampshire is known as the *Granite State*. (2) Major-General Leonard Wood was born at Winchester, New Hampshire.

"F. R., San Francisco, Cal.— "Please give a definition of the word *moron*."

A *moron* is a feeble-minded person of higher intelligence than an imbecile.

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GOODS GUARANTEED

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"Velvetone"
Johnson (S. C.) & Son, Racine, Wis.
Nozon Chemical Products Co., 70 Morris Av., Newark, N. J.
Pioneer Mfg. Co., 2850 E. 87th, Cleveland, O. "Shino"
Polio—See Cedar Hill Formulae Co.
Puritan Soap Co., Rochester, N. Y.
Rapidshine—See Schroeter Bros. Hdw. Co.
Schroeter Bros. Hdw. Co., 810 Washington Av., St. Louis, Mo.
"Rapidshine"
Shino—See Pioneer Mfg. Co.
Velvetone—See Haines Shellac Wks.

POLISHES, Metal

A O-K—See Ulrich & Co.
A-1 Mfg. Co., Front & Wharton Sts., Philadelphia, Pa.
Acme Polish Co., 7327 Mt. Vernon, Pittsburgh, Pa. "Ayrolite"
Adams & Elting Co., 716 Washington Blvd., Chicago, Ill.
"Shinite"
Ajaco—See Aisdorf (A. J.) Corp.
Ajax—See Crowell Chemical Co.
Aisdorf (A. J.) Corp., 434 S. Wells, Chicago, Ill. "Ajaco"
Amalgue—See Sonneborn (L.) Sons
American Metal Polish Co., West Somerville, Mass. "Meyers."
"North Star"
American Paint Products Co., 736 S. Wabash Av., Chicago, Ill.
American Standard Mfg. Co., 2356 Archer Av., Chicago, Ill.
Americus Products Mfg. Co., 627 W. Canfield Av., Detroit, Mich.
Anchor—See Hoffman Paint & Varnish Co.
Anchor—See New England Oil, Paint & Varnish
Arco Co., Euclid Av. & E. 65th, Cleveland, O.
Arminger Chemical Co., 2155 W. Austin Av., Chicago, Ill.
"Rex"
Army & Navy—See Grady Mfg. Co.
Arnold, N. B., 1 Sigourney, Brooklyn, N. Y. "Silkup"
Arnstein, Eugene, 45 W. 26th, Chicago, Ill. "Shine-All"
Ayrolite—See Acme Polish Co.
Baume's Castorine Co., Rome, N. Y.
Be-Be-Co—See Boston Blacking Co.
Beacon—See Cincinnati Oil Wks. Co.
Den Rue Metal Polish Co., Crawfordsville, Ind.
Bertrams—See New Jersey Paint Wks.
Best of All—See Essex Paint & Chemical Co.
Black Silk Stove Polish Wks., Sterling, Ill.
Blue Ribbon—See International Metal Polish Co.
Boston Blacking Co., Cambridge, Mass. "Be-Be-Co."
Bowman-Edson Co., 68 Dey, New York, N. Y. "Edonia"
Boyer Chemical Laboratory, 940 N. Clark, Chicago, Ill.
Brass-Nu—See No-Rack Mfg. Co.
Brett (A. H.) Dimmer Co., Mason City, Ia. "C. C."
Brigstocke, M. K., Peekskill, N. Y.
Brilleline—See Harlem Supply Co.
Burnishine—See Paul (J. C.) & Co.
C. C.—See Brett (A. H.) Dimmer Co.
Callery (W. W.) & Co., 138 36th, Pittsburgh, Pa. "Winter-Lon"
Camden Chemical Mfg. Co., Camden, N. J. "Greyhound"
Campbell Glass & Paint Co., 816 N. 7th, St. Louis, Mo.
"Star"
Car-Brite—See Lord (F. T.) Polish Co.
Certain-teed Products Corp., Bontmens Bk. Bldg., St. Louis, Mo.
Chemical Supply Co., 2450 Canal Rd., Cleveland, O.
Cincinnati Oil Wks. Co., 525 Eggleston Av., Cincinnati, O.
"Beacon"
Clesner Mfg. Co., 2842 Olive, St. Louis, Mo. "Polishine"
Clesnola Co., Fulton Bldg., Pittsburgh, Pa. "Spe-De-Shyne"
Colgan Mfg. & Supply Co., 118 Maiden Lane, New York, N. Y.
"Crescent"
Crescent—See Colgan Mfg. & Supply Co.
Crowell Chemical Co., Beverly, Mass. "Ajax." "Oxford"
Cudahy Packing Co., 111 W. Monroe, Chicago, Ill. "Parrot"

confidence that their right to the road was absolute, is strongly emphasized by a committee which was convened by Road Foreman of Engines E. W. Elleman, of the Hocking Valley, to consider this case. It enforces the grave truth that a mistake of dispatcher or operator in giving right to road, which was the primary cause of this collision, must always be considered as irreparable.

Considering the single question, what to do about the headlight, the first thought of most officers is that the rules ought to cover the point very explicitly. A rule which has been approved by the A. R. A. committee on operation requires electric lights to be dimmed "when standing." An officer of the Baltimore & Ohio states that substantially this requirement is included in the rule of his road; and a rule of this general character is in effect practically everywhere; but to what degree uniformity of wording and of practise have been agreed upon, in any territory, is a point on which further light is needed.

An officer of the Southern Railway sends the substance of a letter, concerning this collision, which was received by him from an engineman of thirty years' experience (on a line with tangents many miles long). The following paragraphs from this letter are intended, evidently, by the writer as a summary of his views as to both cause and remedy:

1. Brain fag. Loss of memory. A man sees with his brain, his eyes are only a medium for transmitting.

2. Did not err as to distance; they had no knowledge of their surroundings; caused by temporary mental aberration.

3. The difference between a strong electric headlight a half mile away and one three to six miles away is so marked, in clear weather, that no man in possession of his mental faculties could fail to note the difference.

4. To decide distances in a case like this is not difficult, assuming the engineman knows the road.

5 See that enginemen are thoroughly familiar with the physical characteristics of the road.

6. Try to see that the morals of enginemen are of the highest type and that they have ample rest before reporting for duty.

7. A lack of concentration, failure to keep one's mind on the job, is responsible for most accidents.

8. Preach precaution, prudence and morality; this results in safety of operation

Those correspondents who emphasize the difficulty of estimating the distance of an approaching electric headlight—some of them declaring that no one can trust himself to do it with certainty—make prominent the importance of correct focusing. The light should be focused downward, so as to illuminate the rails several hundred yards ahead, but not farther. A lamp improperly focused may light up the rails for many miles ahead. To quote further.

An officer of the Great Northern advises that some of the enginemen on his road propose the dimming of headlights about two-thirds, when opposing trains are nearing each other. This would aid both trains in locating themselves, and each other, while yet affording a light strong enough to drive with safety.

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Daisy Manufacturing Company, Plymouth, Mich., U.S.A.

DAISY
AIR RIFLES

was a small, square window through which the mess-boy passes the food to the officers' table. I opened the window and for over an hour tried to get a rope noose over the leopard's head without going into the room. The officers tried to help me, but the chairs and table hampered our operations. Finally I knotted the rope, lariat fashion, crawled in from the hall window and stood on the sideboard just inside the room. After several attempts I managed to get the lasso over his head.

Then the fun began. He shifted and pranced around, but I continued to hold the rope tight, at the same time throwing the end of it through the open doorway into the cage and shouting to the officers who had gathered round the cage and seized the rope, to tighten it at their end before he could pull it off. Then I ran around through the passage to lend a hand in dragging the leopard into the cage. As soon as we had him there, we put the bars down, and they stayed down until he was safely delivered to the Lincoln Park zoo in Chicago.

THE CAVORTING OF KARTOUM, THE ELEPHANT

ELEPHANTS should not frisk too gaily in the spring, at least not to the extent of butting gates, reinforced with railroad iron, into bent and twisted wrecks. The joy of his first promenade brought quick punishment to Kartoum the big African elephant at the New York Zoological Gardens, and closed his outdoor holiday for the time being. During the warm April days Keeper Richards turned the Indian elephant, Alice, outside into her big yard for the first time since autumn. Alice ran in great shuffling circles, waving her trunk and trumpeting in high glee. And then, says the *Zoological Society Bulletin* (New York):

Kartoum, at the other end of the building, responded in a thunderous voice and pounded on the door to attract Keeper Thuman's attention. Thuman swung open the massive doors and the great beast was immediately on the run, flapping his huge ears, tearing up great clods of turf and tossing them high over his neck, and otherwise greeting the outside air of a wonderful day. All would have gone well if Kartoum had been satisfied with these manifestations, which brought a crowd of visitors to enjoy the sport, but he decided to speed up the fun by butting the fences. There had been a bad bend in one of the massive top rails, which we had in mind as a job for the blacksmith. This was produced by the elephant's antics directed from the adjoining yard during the spring of 1921. Kartoum headed for this bulge in the fence, and with one well-directed blow of his ponderous head he straightened it as thoroughly as if the iron-workers had been at work for a day.

But this failed to close the performance. Noting his success at short range, he backed well up and charged the partition gate, which is reinforced with heavy railroad iron, and the gate was bent over more than three feet at the top, heavy bolts were stript of threads, and the structure reduced to a state of ruin. As Kartoum gleefully swung around to aim a drive at the other gates, he was hurriedly escorted indoors by Keeper Thuman, and there he remained until his exuberance materially calmed down.

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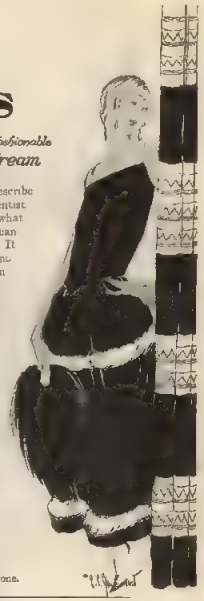

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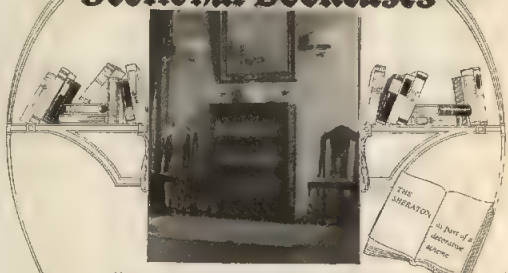

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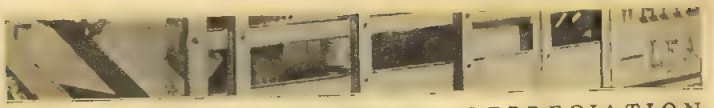

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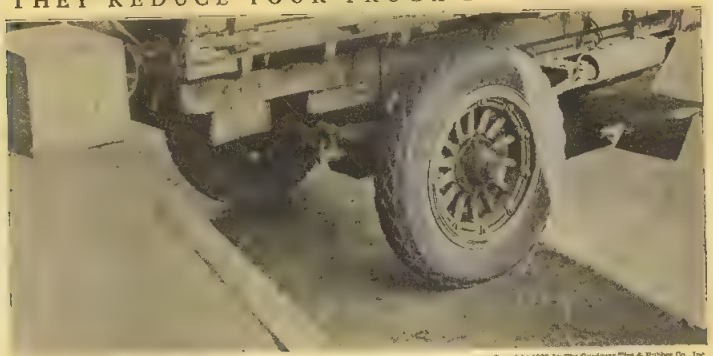

Actual photograph of Goodyear Cord Truck Tires on the mixer of the National Lead Company of Massachusetts, Boston, Mass.

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—A. P. CURTIS, Comptroller, National Lead Company of Massachusetts, Boston, Massachusetts

MANY users of Goodyear Cord Truck Tires have noted what the National Lead Company here reports, that the cushioning action of these buoyant tires prolongs the life of the truck and cuts down bills for replacements and repairs.

They furnish a great measure of protection to the valuable mechanism of the truck, especially in city and interurban hauling, over unequal pavements. They protect the truck and the driver, the load and the road, and their resilience lasts.

They are strong, rugged tires, too. Between them and ordinary pneumatics for motor trucks, there is a world of difference. They are designed to keep their full strength always under the load, and to be strongest where the utmost stress occurs.

The patented Goodyear method by which they are built up, with the cord plies laid in groups alternating in direction and insulated by layers of pure rubber reduces internal friction and keeps them cool, so that in hard, fast service, they wear and wear and wear.

Goodyear Cord Truck Tire (Pneumatic)

Goodyear All-Weather Tread Solid

Goodyear Hollow-Center Cushion Tire

Their activity is known to hundreds of businesses that credit increased range, prompter deliveries, and more satisfied customers, to the gripping, tractive action of these tires with their Goodyear All-Weather Tread.

Goodyear Cord Tires are recommended for all 'round equipment on trucks up to three-ton capacity, and on the front wheels of heavy-duty trucks where body clearance and load conditions permit.

There are special Goodyear Truck Tires for every hauling need—Goodyear Cords, Goodyear All-Weather Tread Solids, Goodyear Cushion Tires. Call upon your Goodyear Dealer for the benefit of his unbiased judgment in specifying the particular Goodyear Truck Tire that will serve you longest and best.

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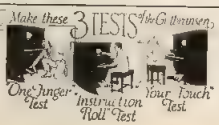

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☐ Check here if you do not own any piano or player-piano.

☐ Check here if you want information about having a Gulbransen player action installed in your present piano (or player-piano.

Write name and address in margin and mail to Gulbransen-Dickinson Co., 3230 West Chicago Avenue, Chicago.

Four rolls and the right player-piano —the Gulbransen!

"You'll be delighted with your Gulbransen, Mrs. Brown – that I know

"Another thing I know: You will want to play it correctly, artistically.

"Study these four Instruction Rolls a few evenings, Mrs. Brown; they will do for you what practice exercises and a good teacher do for the pianist.

"Except that they are *simple;* not at all difficult, monotonous, tedious—like finger exercises.

"Far from it! They're just as much fun as learning the latest dance step or driving a new car.

"Your friends, hearing you play, will pronounce the Gulbransen a fine instrument—will say it is different from other player-pianos—*and it is!*"

* * * * *

Our interest, and the dealer's interest, go beyond the mere making of a sale.

Having produced a player-piano that *can* be played well, we go a step farther and make it easy for anyone to *do* it—quickly and surely.

Instruction Rolls are exclusive with the Gulbransen, supplied without extra cost with the White House, Country Seat and Suburban Models.

Try the Gulbransen at our dealer's; we will gladly send you his name and address.

Gulbransen-Dickinson Company, *Chicago*

Canadian Distributors:
Musical Merchandise Sales Company
79 Wellington Street West, Toronto

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Nationally Priced
Branded in the Back

White House Model	Country Seat Model	Suburban Model	Community Model
$700	$600	$495	$365

To Gulbransen Owners. The Gulbransen is a fine instrument, don't neglect it. Have it tuned at least twice a year.

GULBRANSEN
The Player-Piano

Make these 3 TESTS *of the Gulbransen*

One Finger Test — Instruction Roll Test — Your Touch Test

"New Book of Gulbransen Music" Free on Request. Check Coupon.

☐ Check here if you do not own any piano or player-piano.

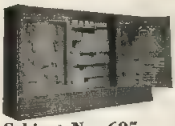
☐ Check here if you want information about having a Gulbransen player action installed in your present piano (or player-piano).

Write name and address in margin and mail to Gulbransen-Dickinson Co., 3230 West Chicago Avenue, Chicago.

Simple System HARDWARE SHELVING

A MEANS TO BETTER BUSINESS

Economical to Buy ***Easy to Install***

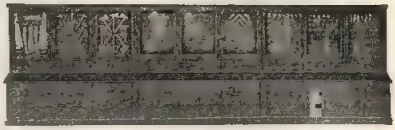


These display cabinets, and similar ones, have been the means of increased business for hardware dealers. HELLER'S Simple System Hardware Shelving makes possible a prominent display of all merchandise carried, with regular stock nicely and systematically arranged either in a drawer or on the shelves directly in back of the display, and with all surplus stock carried on the shelves above.

You can profitably enlist the aid of this practical system. We can supply a type conforming strictly to your needs at reasonable cost

Cabinet No. 605

Size 93¼ inches long, 52½ inches high, 18 inches deep overall. Made with solid oak exposure and steel back. Has three patented pivot recess pocket doors, substantially built to carry heavy weights. Removable green felt panels, D. S. A. glass in doors. Has 6 boxes 15 x 3½ x 16 inches and 9 boxes 10 x 3½ x 16 inches. Is also built 24 inches deep overall for use in Winchester stores.



HELLER'S Pivot Door Combination No. 121-L

Consists of three base cabinets and three of the new patented pivot recess pocket door cabinets.

23 feet 5 inches long, 7 feet 1¼ inches high Base is 23½ inches deep. top cabinet 18 inches deep.

The complete Heller Catalog No. 265 contains complete specifications, and some very helpful hints for Hardware dealers. Write for your copy today.

W. C. HELLER & CO. **Montpelier, Ohio**

FIXTURES and FURNISHINGS, Bathroom (Continued)

Novelty Mfg. Co., Waterbury, Conn. "Wilwear"
Palette—See Searls Mfg. Co.
Park & McKay, 287 Bagley, Detroit, Mich.
Parker (Chas.) Co., Meriden, Conn.
Pocono Metal Mfg. Co., East Stroudsburg, Pa.
Ringco—See American Ring Co.
Rumsey (L. M.) Mfg. Co., 4372 Westminster, St. Louis, Mo.
Rundle-Spence Mfg. Co., 58 2d, Milwaukee, Wis.
Sansonchina—See Baker (S. D.) Mfg. Co.
Sanitas Mfg. Co., 105 Washington, Boston, Mass.
San-o-la—See Art Brass Co.
Savill's (Thos.) Sons, 1819 Wallace, Philadelphia, Pa.
Schaffer (Chas. W.) Co., 2214 Chestnut, Philadelphia, Pa.
Searls Mfg Co., 29 Mulberry, Newark, N. J. "Palette," "Star"
Silliocks-Miller Co., South Orange, N. J. "Celluvarno"
Smith (E. C.) Mfg. Co., 900 W. Jackson Blvd., Chicago, Ill.
Speakman Supply & Pipe Co., Wilmington, Del.
Standard Sanitary Mfg. Co., Bessemer Bldg, Pittsburgh, Pa.
Star—See Searls Mfg. Co.
Stebbins (E.) Mfg. Co., Springfield, Mass.
Stephenson, Chas. H., Lynn, Mass
Street & Kent Mfg. Co., 649 Fulton, Chicago, Ill.
Superior Brass Novelty Co., 548 E. 116th, New York, N. Y. "White Cross"
Sweeney (W. H.) Mfg. Co., 80 Main, Brooklyn, N. Y.
Tile-In—See Hughes (W. R.) Co.
Titchener (E. H.) & Co., Binghampton, N Y. "Bathwhite"
★For descriptive data of the above, see index on page 6
Universal—See Landers, Frary & Clark
Utility Mfg. Co., 1516 Lancaster, Baltimore, Md.
★For descriptive data of the above, see index on page 6
Waterbury Mfg. Co., Waterbury, Conn.
Webb (F. W.) Mfg. Co., 86 Elm, Boston, Mass.
White Cross—See Superior Brass Novelty Co.
Wickwire Spencer Steel Corp., Madison Av. & 42d, New York, N Y.
★For descriptive data of the above, see index on page 6
Wilwear—See Novelty Mfg. Co.
Winkler Mfg. Co., Lawrence, N. Y
Winsted Hdw Mfg. Co., Winsted, Conn.
Wire Goods Co. Div., Washburn Co., Worcester, Mass.
Wise (J. B.) Inc., Watertown, N. Y.
Wolff Mfg. Co., 953 N. Hoyne Av., Chicago, Ill.
Wolverine Brass Wks., Grand Rapids, Mich.

FIXTURES, Display, Hardware

(See also Cases, Display)

Acme Level & Mfg Co., Archbold, O. "Dunbar," "Herrick"
American Fixture & Showcase Mfg. Co., 1011 Lucas Av., St. Louis, Mo.
Best (John H) & Sons, Galva, Ill.
Chicago Hdw. Foundry Co., North Chicago, Ill.
Duluth Show Case Co., Duluth, Minn.
Dunbar—See Acme Level & Mfg. Co.
Eclipse—See Wellston Mfg. Co.
Garden City Plating & Mfg. Co., 1430 S. Talman Av., Chicago, Ill. "Kurtzon"
Grand Rapids Show Case Co., Grand Rapids, Mich. "New Way"
Heller (W. C.) & Co., Montpelier, O.
★For descriptive data of the above, see index on page 6
Herrick—See Acme Level & Mfg. Co.
Ideal—See Knape & Vogt Mfg. Co.
Joslin Show Case Co., 20 Oxford, Boston, Mass.
Knape & Vogt Mfg. Co., Grand Rapids, Mich. "Ideal," "Victor"
Kurtzon—See Garden City Plating & Mfg. Co.
Leominster Novelty Corp., Leominster, Mass
Multiplex Display Fixture Co., 918 N. 10th, St. Louis, Mo.
New Way—See Grand Rapids Show Case Co.
Onken (Oscar) & Co., 4th & Cutter, Cincinnati, O.
Reed (Evan L.) Mfg. Co., Sterling, Ill.
Reflector & Hdw. Specialty Mfg. Co., 2236 S. Western Av., Chicago, Ill.
Rockford Showcase & Fixture Co., Rockford, Ill.
Smith, Winfield, H., 10 Lock, Buffalo, N. Y.
Stender, C. F. G., 1142 W. Van Buren, Chicago, Ill.
Victor—See Knape & Vogt Mfg. Co.
Warren (J. D.) Mfg. Co., 159 State, Chicago, Ill.
Wellston Mfg. Co., Wellston, O. "Eclipse"

FIXTURES, Door—See article desired

FIXTURES, Door, Fire

Allith-Prouty Co., Danville, Ill. "Reliable"
★For descriptive data of the above, see index on page 6
Aurora Door Hanger & Specialty Co., Aurora, Ill.
Bolles, Wm. B., Milwaukee, Wis.
Brewer Bros., 2d & Somerset Sts., Philadelphia, Pa.
California Fire Proof Door Co., Los Angeles, Cal.
Coburn Trolley Track Mfg. Co., Holyoke, Mass.
Lane Bros. Co., Poughkeepsie, N. Y.

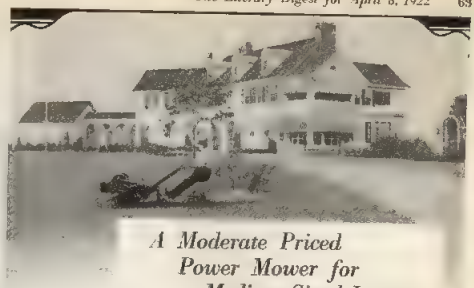
many different kinds of salamanders, chiefly busied in cleaning out the various different cracks and corners in Mother Nature's house. In some places in this country there are salamanders that live their entire lives in the trees, tho they look as tho they ought to be living in the water. One of the most common species is that whose life history is shown in the accompanying graph, the newt. This little amphibian may be found along the edge of ponds or in streams. He is mostly brown above and yellowish beneath. The writer says:

If you keep some of them in your aquarium you will very quickly find that many of the smaller animals living there will disappear, and if you are lucky enough you will possibly see some of them go where the others have, —down the throats of your newts.

It is possible that in the early spring the newts are more interested in their own family affairs than they are in caring for Mother Nature's house. Certain it is that their eggs are laid at that time of the year. You may see these eggs, which look not unlike little beads of jelly, but the chances are that you will not see them for they are attached to water plants and are often wrapped in or hidden among, the leaves so that they are not easily seen. These eggs hatch into little newts wearing ruffles at their necks not unlike those which the mud puppies have. These little newts grow rapidly and in late summer lose their ruffles and come out on the land. At this time they are small and red, and are very interesting little creatures to watch.

For the next two years these little red newts go about cleaning up cracks and corners on the floor of Mother Nature's house. Sometimes you will find them under stones, sometimes under leaves, sometimes in rotting logs, and sometimes walking around over open ground. All the time, as they work, they are growing larger and stronger. They still keep their red color and will make nice pets. At the end of two years from the time they left the water, they go back to it. Then they begin to look like their parents, and begin to do the same sort of work that their parents did before them. Instead of being red, they turn brown, for the most part. Their tails now look more like the tails of polliwogs than they did when the newts were living on land. The newts spend all the rest of their lives eating insects, and polliwogs, and fish eggs, and other things which they find in the bottoms of the sinks and drains of Mother Nature's house. Each spring they lay eggs which develop into more little newts. From this you may know that newts work both on the land and in the water. Probably they do more good than harm, particularly while they are on land, and certainly they are worth watching because of their interesting ways.

Between the mud puppies in the deep water and the red-backed salamanders in the logs in the woodland, the crevices in the floor of Mother Nature's house are kept pretty clean. The two-lined salamanders help at the edges of the colder brooks; the newts work in the shallower waters of warmer ponds and lakes. On the land, the dusky salamanders care for the places under stones in wet places and are helped in their work by the slimy salamanders. In the more open land the spotted salamanders do their work, and with the assistance of all of these, Mother Nature finds it possible to keep her floor fairly well cleaned out.



A Moderate Priced Power Mower for Medium Sized Lawns

Above photo 30" Ideal with rising trailer used on estate of H. C. Hisk, Longmeadow, Mass.

Here is a Power Lawn Mower that will be welcomed by thousands of home owners who have large lawns to care for.
We call it the Ideal "Junior." It is a machine that fulfills a greater need than any power mower ever built. It is surprisingly moderate in price, absolutely dependable, easy to handle, and costs but a few cents per day to operate.
In general principle the Ideal Junior is exactly the same as the larger Ideal Power Lawn Mower which is giving universal satisfaction upon thousands of the best kept lawns in the country. It is smaller and lighter in weight, having a 22-inch cut. It will mow from 3 to 4 acres of grass per day. Just the machine to use when there is too much grass to economically cut with hand mowers, yet where the lawn is hardly large enough to warrant the purchase of a larger power mower.
Also used by golf clubs for work on putting greens, and by parks and cemeteries for close cutting, trimming around shrubbery and as an auxiliary unit to the larger power mowers.

The Ideal Power Mower for Large Lawns

For larger lawns the standard Ideal Power Lawn Mower has no equal. It cuts from 5 to 6 acres of grass per day, doing the work of 6 or 7 men. There are thousands of these machines in use on private estates, public parks, golf courses, college grounds, industrial grounds, cemeteries, etc.
They are wonderful labor savers and stand up year after year with just the ordinary attention that any good machine requires.

For Large Parks and Golf Courses

For large parks and golf courses we build the Ideal Power Triplex Mower which cuts from 25 to 30 acres of grass per day.
Write today and get details of the complete line of Ideal Power Mowers. If you want our recommendation, tell us the size of your lawn, condition of grounds, etc.

IDEAL POWER LAWN MOWER COMPANY
R. E. OLDS, *Chairman*
420 Kalamazoo St. LANSING, MICH.
World's Largest Builders of Power Lawn Mowers

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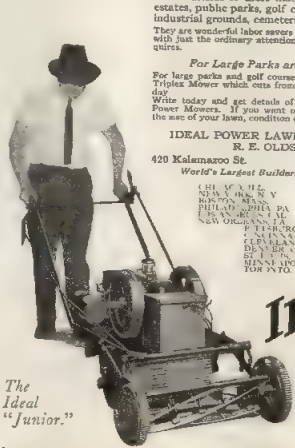
NEW YORK, N. Y. 270 W. 39th St.
BOSTON, MASS. 59 N. Market St.
PHILADELPHIA, PA. 1700 Arch St.
LOS ANGELES, CAL. 222 N. Los Angeles St.
NEW ORLEANS, LA. 420 Carondelet St.
PITTSBURGH, PA. 105 West Parkway
MINNEAPOLIS, MINN. 228 E. 24th St.
CLEVELAND, O. 1300 Lakeside Ave.
DENVER, COLO. 16th and Wazee Sts.
ST. LOUIS, MO. 412-414 N. 4th St.
MINNEAPOLIS, MINN. 7-13 N. 3rd St.
TORONTO, CANADA 17 Temperance St.



The Ideal "Junior."

IDEAL Power Lawn Mowers

The rolling feature of the Ideal is a great help to better lawns. Keeps the surface smooth and firm

Golf Club Officials!
Write for details of our new power putting green mower.

Order Your Ideal Power Mower *this* Week!

Grass cutting time is here! Now is when you should order your Ideal Power Lawn Mower—give your lawn proper care right from the season's start and get full benefit of the big saving in labor.

The Ideal Junior, shown below at left, is exactly the right machine for medium sized lawns. It is a dependable, moderate priced mower that will prove a paying investment on lawns when there is too much grass to conveniently care for with hand mowers.

The 30" Ideal, shown above, is used by more large estates, parks, schools, colleges, hospitals, golf clubs, ball parks, tennis clubs, etc., than any power lawn mower ever built. This sturdy, powerful and simple mower will easily cut 5 or 6 acres of grass per day, doing the work of 5 or 6 men with hand mowers.

Ideal Power Lawn Mowers are carried in stock in all sections of the country. You can get immediate delivery from any of the dealers at the addresses listed below.

Call at any of these addresses—see for yourself the many advantages of these labor-saving machines.

Complete List of Dealers

CHICAGO BRANCH OFFICE, Ideal Power Lawn Mower Co., 11 E. Harrison St.

Albany Hdwe. & Iron Co., 24 State Street, Albany, N. Y.
Ward & Company, Main Street and Erie Street, Buffalo, N. Y.
Edward Barbar, Inc., 270 West 42nd Street, New York City
Burr & Starkweather Company, 42 Stone Street, Rochester, N. Y.
F. H. Bueling Co., 217 Warren Street, Syracuse, N. Y.
Wisconsin-Downs Co., Inc., 34 E. Pratt St., Baltimore, Md.
Joseph Breck & Sons Corp., 57 N. Market Street, Boston, Mass.
Hosea Cappis Company, 53 Hillman Street, Springfield, Mass.
United Hardware & Supply Co., 913 State Street, Erie, Pa.
Tyson Brothers, Inc., Flora Dale, Pa.
Walter S. Schell, Inc., Fourth & Market Sts., Harrisburg, Pa.
M. E. Jones, 709 Arch Street, Philadelphia, Pa.
Beckwith Machinery Company, 108 W. Parkway Ave., Pittsburgh, Pa.
J. Chas. McCutcheon Seed Co., 228 E. Fourth St., Cincinnati, O.
Beckwith Machinery Co., 1500 Lakeside Avenue, Cleveland, O.
John E. Freudeberger, 622 Commercial Bldg., Dayton, O.
Willms-Leonard Hardware Co., 27 E. Federal Street, Youngstown, O.
Hoskins-Drain Company, Cor. Jefferson & Superior Streets, Toledo, O.
Allen, Morrison & Lathrop Co., 41 Exchange Street, Portland, Me.
F. J. Penman Co., Kent Bldg., Cor. Fort & Bates Sts., Detroit, Mich.
F. W. Dickson & Co., 1009 B St., N.W., Washington, D. C.
Viaduct Hdwe. Co., 130 E. Washington St., Indianapolis, Ind.
H. R. Erickson & Co., 114 So. 4th Street, Minneapolis, Minn.
J. D. Willson, 251 W. Lee Street, Greensboro, N. C.
Wood-Stubbs Co., 219 Jefferson Street, Louisville, Ky.
I. E. Spalding & Co., 240 Fifth Street, Miami, Fla.
John E. Russell & Co., 754 Chapel St., New Haven, Conn.
A. C. Maynard, 306 Jefferson Avenue, New Orleans, La.
Lindell Hdwe. Co., 1710 Camp Street, New Orleans, La.
Hall & Mackie Co., 821 South Street, Charleston, W. Va.
Cadle Power Lawn Mower Co., 611 Cherry Street, Des Moines, Ia.
Hord & Philp Hdwe. Co., N. Lamar & Rose Aves., Dallas, Texas
H. W. Moore & Co., 18th & Wazee Sts., Denver, Colo.
H. W. Moore & Co., 141 Pierpont Avenue, Salt Lake City, Utah.
Hardie Mfg. Co., 222 S. Los Angeles Street, Los Angeles, Cal.
West Coast Lumbermen's Company, 1108 Hearst Bldg., San Francisco, Cal.
Cutler, Ward & Hauser Hdwe. Co., 412 N. Fourth St., St. Louis, Mo.
A. H. Lee & Co., 307 First Avenue South, Seattle, Wash.
W. J. Pettee & Co., 121 Main Street, Oklahoma City, Okla.
Hardin Mfg. Co., 85 N. Front Street, Portland, Ore.
A. R. Williams Machinery Company, St. John, N. B.
Aikenhead Hardware Limited, 17 Temperance St., Toronto, Ont., Canada

If there is no dealer near you write or WIRE for catalog and prices. We can make IMMEDIATE shipments direct from the factory.

Ideal Power Lawn Mower Co.

R. E. OLDS, Chairman

420 Kalamazoo St., Lansing, Mich.

World's Largest Builders of Power Lawn Mowers.

IDEAL Power Lawn Mowers

PERSONAL GLIMPSES
Continued

unmarried, in order to be successful (as a woman) in business.

My hair is growing thin. What of it? My waistband augments with the years. That unesthetic circumstance merely adds to my respectability. Am I getting wrinkles about the eyes? How do I know? I never thought to look. Moreover—and this is the point—neither did anybody else—not even my wife. My looks are my own affair. My clothes (within very wide limits), the same. My gait, my laughter, my conversation, my moods, all ditto. I have to do a bit of work, but in all other respects I am *free*. Free to look and act and be myself, without any artifice, any play-acting.

My most fervent thanks to "whatever gods may be" that I am a man!

And I hereby swear that every "movement," every tendency, in the direction of giving the women of the future the same priceless freedom of personality shall have my support.

JOHN FRANTZEN WAS THE MAN WHO SENT RADIO JESTS OF DEATH

"UNKNOWN, unhonored and unsung," will not be the fate of the jesting wireless operator, lost when the Norwegian steamer *Grontoft* went down with all aboard in one of the March gales that swept the mid-Atlantic. The man's bravery was mentioned in cables at the time, but nobody knew his name. Investigation by a New Orleans newspaper reporter at the Norwegian consul's office in that city has disclosed not only the name of the radio jester, but also a curious and apparently significant curse against the schooner, scribbled on the walls of the narrow corridor near the consul's office. John Frantzen, a Norwegian, 26 years old, second mate of the ship, was the radio operator who stuck to his key, sporting with death, until *Grontoft*, her life-boat smashed, went down stern foremost, with all on board. On the same ship, it develops, there may have gone down another man whose death was almost as dramatic, if far less heroic than Frantzen's. This man, it is believed, drew a picture of the *Grontoft* on the walls of the corridor that lead to the Norwegian consul's office, and wrote underneath his sketch: "We wish you a happy voyage to Hell—if not this summer, then next year." Superstitious sailormen of the Southern city say that the fate of the *Grontoft* was foretold in this message on the walls of the corridor.

The New Orleans *Times-Picayune* tells both of Frantzen and of the curse against the ship which later foundered in mid-Atlantic. Beginning with the hero in the case, we read:

A carefree sailor, the life of the *Grontoft* crew, Frantzen was betrothed to a Norwegian girl of Esjburg, whither the ship was bound with a cargo of grain from New Orleans, it was learned Thursday. Her grief will be shared by wives and sweethearts of the other members of the crew, nearly every one of whom were Scandinavians.

FLIVVER

The Little Trade Booster
Shipped in boxes,
1, 2 and 4 to a box

The Rolls-Royce of Toy Land

All steel and wood with rubber tires, finished in bright weather-proof colors. No pinchy places.

No. 10 for children from 3 to 8 years. List. Wire wheels $5.50; Disc wheels, $6.40.

No. 20 for children from 4 to 12 years. List. Wire wheels, $6.00; Disc wheels, $7.00.

THE AUTOMATIC CRADLE MFG. CO. 235 N. 2nd St., STEVENS POINT, WIS.

CARS, Children's, Walking, Hand or Foot Power (Continued)

Novel Toy Co., Muskegon, Mich.
Omaha Toy Mfg. Co., Omaha, Neb.
Peters & Herron Co., Columbus, O.
Pioneer—See Gendron Wheel Co.
Rude-A-Way—See Metallic Industries
Ridamobile—See Stearns (E. C.) & Co.
Rollomobile—See Stearns (E. C.) & Co.
Rundle Mfg. Co., Fremont, O.
Sammie Car—See Western Toy Co.
S. L. & H. Co., Peoria, Ill
Scudder Car—See Janesville Products Co.
Stearns (E. C.) & Co., Syracuse, N. Y. "Ridamobile," "Rollomobile"
Toy Kraft Co., Wooster, O.
Toy Town Mfg. Co., Minneapolis, Minn.
U. & L Toy Co., Lorain, O.
Walk-A-Way—See Metallic Industries
Wester Mfg. Co., Boone, Ia.
Western New York Toy Co., Jamestown, N. Y.
Western Toy Co., 4832 Horatio, Detroit, Mich. "Sammie Car"
White (H. C.) Co., North Bennington, Vt. "Kiddie-Kar," "Kiddie-Pedal-Kar," "Kiddie-Road-Ripper"
★For descriptive data of the above, see index on page 6
Wilder Mfg. Co., 17th & Clinton Sts., St. Louis, Mo. "Fast Mail"
Wilkinson Mfg. Co., Binghamton, N. Y. "Choo-Choo"
Wolverine—See Dail Steel Products Co.
Wood (Thos.) Mfg. Co., 58 W. Washington, Chicago, Ill.

CARS, Hand, Children's

American-National Co., Toledo, O.
Automatic Cradle Mfg. Co., Stevens Point, Wis. "Flivver"
★For descriptive data of the above, see index on page 6
Crosley Mfg Co., H. & B & O R. R. Cincinnati, O.
Doud Sons & Co., Winona, Minn. "Scout Runner"
Flivver—See Automatic Cradle Mfg. Co.
Garton Toy Co., Sheboygan, Wis.
Gem Crib & Cradle Co., Gardner, Mass.
Gendron Wheel Co., Toledo, O. "Pioneer"
Gra-Houn—See Rundle Mfg. Co.
Hill-Standard Co., Anderson, Ind.
Irvin-Smith Co., 17 N. Wabash Av., Chicago, Ill.
Janesville Products Co., Janesville, Wis. "Spee-Dee"
Keystone Lantern Co. (Tacony), Philadelphia, Pa.
Kirk-Latty Mfg. Co., 1971 W. 85th, Cleveland, O.
Mecky (A.) Co., 1736 Allegheny Av., Philadelphia, Pa.
Pioneer—See Gendron Wheel Co.
Rundle Mfg. Co., Fremont, O "Gra-Houn"
Scout Runner—See Doud Sons & Co.
Spee-Dee—See Janesville Products Co.
Toledo Metal Wheel Co., Toledo, O.
★For descriptive data of the above, see index on page 6

CARBIDE, Calcium

American Carbolite Co., Duluth, Minn. "Carbolite"
Carbolite—See American Carbolite Co.
Shawinigan Products Corp., 110 William, New York, N. Y.
Union Carbide Sales Co., 162 E. Michigan Blvd., Chicago, Ill
Warren Products Co., 265 Canal, New York, N. Y.

CARBON REMOVING COMPOUNDS—See Compounds, Carbon Removing

CARD GAMES—See Games, Card

CARD TABLES—See Tables, Card

CARDS, File—See Cleaners, File

CARDS, Playing—See Games, Cards, Playing

CARNIVAL DOLLS—See Dolls, Character, also Dolls, Composition; also Dolls, Novelty

CARPENTERS' ADZES—See Adzes

CARPENTERS' APRONS—See Aprons, Canvas

CARPENTERS' CHALK—See Chalk, Carpenters'

CARPENTERS' CHISELS—See Chisels, Carpenters'

CARPENTERS' CLAMPS—See Clamps, Carpenters'

CARPENTERS' GAGES—See Gages, Carpenters'

CARPENTERS' GOUGES—See Chisels and Gouges, Carpenters'

CARPENTERS' HAMMERS—See Hammers, Nail

CARPENTERS' PENCILS—See Pencils, Carpenters'

CARPENTERS' SLICKS—See Slicks, Carpenters'

CARPENTERS' SQUARES—See type desired, under Squares

CARPENTERS' TOOLS—See article desired

CARPET BEATER HANDLES—See Handles, Carpet Beater and Brush

CARPET BEATERS—See Beaters, Carpet and Rug

CARPET NAILS—See Nails, Carpet

CARPET NEEDLES—See Needles, Bag, Sack, Etc.

CARPET STRETCHERS—See Stretchers, Carpet

CARPET SWEEPERS—See Sweepers, Carpet

CARPET SWEEPERS, Toy—See Sweepers, Carpet, Toy

CARPET TACKS—See Tacks, Carpet

CARRIAGE ANTI-RATTLERS—See Anti-Rattlers, Buggy and Carriage

CARRIAGE AXLES—See Axles, Carriage

CARRIAGE BOLTS—See Bolts, Machine and Carriage

CARRIAGE and WAGON HARDWARE

(See also article desired)

Allith-Prouty Co., Danville, Ill.
★For descriptive data of the above, see index on page 6
American Brass Novelty Co., Grand Haven, Mich.
American Shovel & Stamping Co., Lorain, O.
Baldwin, E. N., Shelton, Conn.
Beckley-Ralston Co., 1891 S. Michigan Av., Chicago, Ill.
Blakeslee Forging Co., Plantsville, Conn.
Bonney Forge & Tool Wks., Allentown, Pa.
Brewer-Titchener Corp., Cortland, N. Y.
Bridgeport Emery Co., Bridgeport, Conn.
Burgess-Norton Mfg. Co., Geneva, Ill. "Bur-Nor"
★For descriptive data of the above, see index on page 6
Bur-Nor—See Burgess-Norton Mfg. Co.
Clapp (E. D.) Mfg. Co., Auburn, N. Y.
Cleveland Hdw. Co., Lakeside Av., & E. 45th, Cleveland, O.
Columbus Bolt Wks. Co., Columbus, O.
Cowles (C.) & Co., New Haven, Conn
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KIMBALL

"The Instrument of Yesterday, Today and Tomorrow"

JUST as the KIMBALL was the instrument of preference by great musicians and in the home during its long years of past service, and today is serving a nation of music lovers with ever increasing favor, so the future holds assurance of this self-same merit and reliability—truly an instrument of enduring worth. KIMBALL Grands, Uprights, Player Pianos, and Phonographs are representative of the highest degree of manufacturing excellence. A KIMBALL in the home assures music at its best.

KIMBALL
Grand Pianos
Upright Pianos
Player Pianos
Reproducing Pianos
Phonographs
Pipe Organs
Music Rolls

Descriptive catalogs, also the nearest dealer's address, sent to you on request

W. W. KIMBALL CO.
(Established 1857)
Factory and Executive Offices: CHICAGO, U. S. A.

W. W. KIMBALL CO., Dept. KL
306 South Wabash Avenue, Chicago, Ill
Gentlemen: Please mail catalog and information on instrument marked X.
☐ KIMBALL Grand Pianos ☐ KIMBALL Phonographs
☐ KIMBALL Upright Pianos ☐ KIMBALL Player Pianos
Name .....
Address .....

SCIENCE AND INVENTION
Continued

has to be one thing or another, but just why any one started this particular health stunt agitation is not known. So far as known there had been no great popular demand for arbitration of breakfast, the principal interest being along high cost of living rather than health lines.

Now, however, a lot of people who have been eating light breakfasts will think that they will have to go to the other extreme. Eventually the dictum in the matter will be forgotten, along with the rest of the cults that flourish in health as well as other affairs, and people influenced to change their eating habits will revert to the practises that please and best agree with them. The medical decree in the present instance will not have nearly the influence on boarding-house keepers, on whom so many people of sedentary occupation depend for sustenance, as would if the 73 per cent. had voiced the opinion of the thirteen.

MEASURING STARLIGHT

THE heat of starlight has been determined for the first time by measuring a hundred millionth degree of temperature and a trillionth of an ampere of electric current. Dr. C. G. Abbot, of the Smithsonian Institution, announced this achievement in an address at the Carnegie Institution of Washington, as reported in Science Service's *Daily Science News Bulletin* (Washington). Working with the 100-inch telescope at Mt. Wilson Observatory this fall, Dr. Abbot measured the heat at different parts of the spectrum of ten stars and the sun. The rays were dispersed by a spectroscope in a band similar to the rainbow. We read:

The bright star Capella, which is very similar to our own sun in its spectrum, was found to furnish the equivalent of one horse-power to an area on the earth approximately equal to the State of Minnesota. But this prominent star is feeble compared with our sun, which is equal to a hundred billion Capellas and sends down on twenty square feet heat equal to a horse-power. On the whole earth Capella's heat equals 500 horse-power, and as all the stars together equal 500 Capellas this would amount to 250,000 horse-power over the whole earth from the stars alone.

Dr. Abbot explained that his work on the heat of stars, accomplished with the cooperation of L. B. Aldrich of his staff, is an outgrowth of the principal work of the Astrophysical Observatory, which is the investigation of the sun.

"This work was begun about 1890 by Dr. S. P. Langley whose great pioneer work in measuring the sun's heat, its distribution in the spectrum, and the losses and modifications which it encounters in passing through the earth's atmosphere, were classic," said Dr. Abbot.

It might be supposed that the investigation of a heat source whose in-put on the earth's surface amounts to the equivalent of a horse-power per couple of square yards would require only simple and insensitive apparatus, but such is not the case. The complexity of the solar beam, made up of rays of greatly differing wave-length which are all differently transmitted by the earth's

wise. Forthwith I experienced all manner of trouble, for try as I would it seemed impossible to obtain any sort of accurate adjustment. The tappets were first much too tight, then much too loose. There was no rhyme nor reason to the thing—a fact which caused me days of work and worry minus use of the car

I decided that I would condescend to glance through the instruction book, or rather I decided upon the printed advice of the manufacturer as a last resort. But where was it? Oh, yes, I had tucked it away in my desk to keep it clean. Some day—that day we all expect when time will be plentiful—I would recline in an easy chair and read it from cover to cover. It goes without saying that this elusive day of rest might have been forthcoming had I read first before leaping. It developed that the tappets of my car were of the mushroom type, which means that the push rod is free to turn about so that the flat end that rides the camshaft will wear evenly. When I turned the adjusting nuts the tappets turned with them, and that accounted for my inability to effect any sort of reasonable adjustment. I should have used a third wrench to hold the push rod while I made the adjustment. In other words, I should have read my instruction book.

Yet the instruction book is treated unmercifully. They need a Laura Jean Libby to write it, insists this critic. Then perhaps Old Boy Hard Experience wouldn't have such a monopoly on the situation. To him is left the task of eventually turning every motorist back to his instruction book, which he does to perfection, the always after the damage has been done and the bills paid. However—

The motorist in question is now so partial to his instruction book that he has ordered a new one in case something happens to the original. And when I explain how it happened that he paid a nifty repair bill, the reader will appreciate the reason for his change of heart. Whenever this chap had any spare time he always tried to find trouble, even if there wasn't any to be found. He carried the idea of car care to extremes. To this, furthermore, was added the additional fault of assuming that he knew as much as the manufacturer could divulge via instruction book.

At length this led him to inspect the distributor. He couldn't find any dirt in the cover, nor could he find anything wrong But he had high hopes. He was not entirely unsuccessful, for, lo and behold! it developed that the tip of the rotor was not touching the contact points of the distributor head. How then was the spark ever going to reach the ignition wires? How was the motor to run with all this out of commission?

Much to his chagrin, however, he had to admit that the motor had been running, and most decently at that. Yet there was no contact. It worried him. Worried him so that at length he lifted out the rotor and by bending the tip with the pliers fixt it so that in revolving it would touch each of the contact points. Then he replaced the cover and started the engine.

Whereupon the distributor made itself known by emitting an uncanny noise. It clicked and trembled and carried on in a most unusual manner. Presently there was a culminating click followed by utter silence. The engine paused, deliberated and decided to pitch tent for the night. There was nothing left in the way of action except the motorist's flow of cussing. When he

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"Masterful in quality and charm of tone"

The KIMBALL includes:

Grand Pianos
Upright Pianos
Player Pianos
Phrasonome Pianos
Reproducing Pianos
Phonographs
Pipe Organs
Music Rolls

THERE is a distinctive quality in the KIMBALL charming tone that can only be described as "masterful." World-famed artists of the past and present have recognized this distinguishing quality—and have accorded to the KIMBALL an enthusiastic endorsement.

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CHICAGO, U. S. A.

MACGREGOR

Radite *Won't-Rust* Irons
Retain Perfect Balance

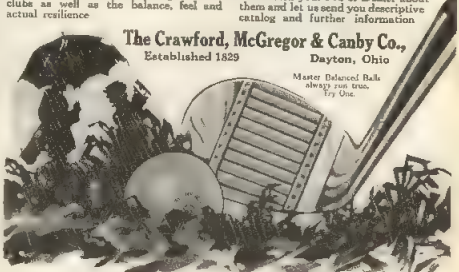
IT ISN'T only that you can play these clubs in the worst kind of rain, wet, sleet or slush without danger of rusting—but there is a very practical golfing reason in their favor.

Constant buffing on the emery wheel to keep your irons shined up is bound gradually to wear away the metal enough so as to change in time the weight of the clubs as well as the balance, feel and actual resilience

Yet with these Radite Irons your Pro need only to wipe them off after each round to keep them in the finest possible shape—shiny and sound. Not only is this a lot easier and more satisfactory for the Pro—but it is better for the clubs, for their original balance and weight are not changed even in the slightest.

Locker dampness—wet course—sea air—nothing affects Radite Irons. They always retain the same perfect balance. Ask your Pro or Dealer about them and let us send you descriptive catalog and further information

The Crawford, McGregor & Canby Co.,
Established 1829 Dayton, Ohio



Make Records With MACGREGORS

LINCOLN ELECTRIC MOTORS

Lincoln Guarantees This "Cure" for "Bad Power Factor"

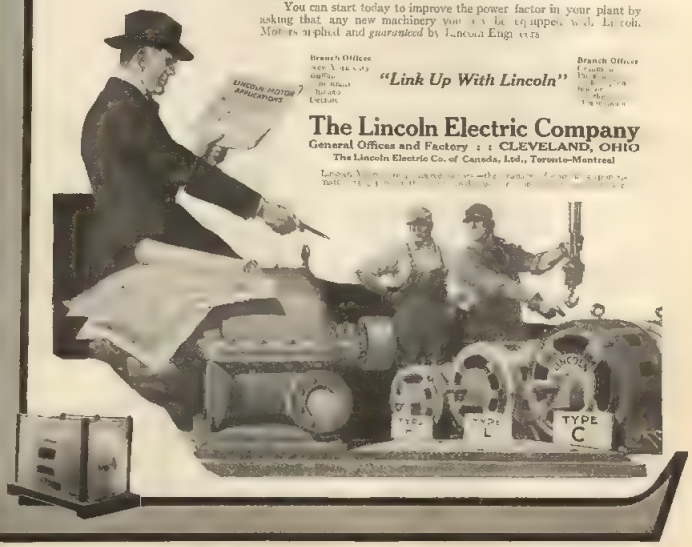
"BAD POWER FACTOR"—that fearsome electrical bogey which boosts your power bill and eats up the power company's profits. It is as mysterious as witchcraft and demands the same "cure"—plain, common sense.

"Bad power factor" can only result from putting the *wrong* motor on the machine. Lincoln Engineers are giving the "bad power factor" the common sense treatment by putting the *right* motor on the machine. They go direct to the machinery maker—test his different machines—find out the exact type and size of motor needed for each of his models—and give him a chart showing the result.

That sounds like a simple remedy, but it strikes at the very root of the trouble by removing the cause. Every outfit which the machinery maker ships out under this plan has a Lincoln Motor which is *guaranteed* to do the work with the least possible amount of power and hence to give a "good power factor."

If this Lincoln method had been generally used in applying motors to machinery there would be practically no such thing as "bad power factor." Millions of dollars would be saved to power users and power plants as well, where it is now wasted because of motors which are the wrong size, or the wrong type, or both

You can start today to improve the power factor in your plant by asking that any new machinery you buy be equipped with Lincoln Motors applied and *guaranteed* by Lincoln Engineers



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The Lincoln Electric Co. of Canada, Ltd., Toronto-Montreal

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In your own home—on your own phonograph—with your own records, we invite you to make this ten day test of the

VIOLIN SPRUCE REPRODUCER

You will hear a purity, volume, and sweetness of tone such as you have never before heard from a phonograph.

THE VIOLIN SPRUCE REPRODUCER brings out all that the artist put in the record—free from metallic vibration or scrape

[illegible] the test we invite you to [illegible] Play your favorite records with your present reproducer. Then [illegible] the VIOLIN SPRUCE—[illegible] a moment.

You'll marvel at the unparalleled reproduction of the human voice—at the remarkable individualization of instruments in orchestral selections—at the surprising absence of "tinpanny" effects in a piano record.

THE VIOLIN SPRUCE REPRODUCER does all this—and more. If you are not more than satisfied, return it within ten days and your money will be refunded without question or quibble.

If your dealer can't supply you, we will ship you direct C.O.D., with the understanding that you may return the REPRODUCER after ten days and the full purchase price will be refunded. Just state make and model of your phonograph and your dealer's name and address.

PRICE $7.50

DISTRIBUTORS AND DEALERS
THE VIOLIN SPRUCE REPRODUCER [illegible]

The DIAPHRAGM Co.
5005 Euclid Ave., Cleveland

SCIENCE AND INVENTION
Continued

speaking, are divided into two classes. Those emitted by the respiration, both from the lungs and the skin of the people in the room; second, those emitted by the illuminants. The first class includes bacteria taken from the air into the system through the mouth or skin. As a matter of fact, the supposedly fresh air from the exterior is often heavily laden with bacteria of this character

More commonly than any other are felt the effects of the vitiation produced by the organic matter, in a greater or less advanced stage of decay, exhaled by the lungs. This produces the stuffiness in a poorly ventilated room which is sometimes ignorantly attributed to carbonic acid gas.

Carbonic acid gas is present in the purest of outdoor air in the proportion of about four parts in 10,000 and produces no discomfort or ill effects if less than 225 parts in 10,000 of air are present. On account of the ability of gases to diffuse through even the tightest walls used in building construction, the proportion of carbonic acid gas in interiors rarely rises above 20 parts in 10,000, tho for experimental purposes this proportion has been made as high as 50 parts in 10,000. This was accomplished only by resorting to exceptional means to secure a high percentage of this gas. Thus, practically speaking, it may be said that it is impossible in practise to obtain enough carbonic acid gas in an ordinary room to produce the slightest effect upon the bodily functions, even when the most sensitive tests are employed to detect such effects.

Sulfurous acid gas when present is in such almost infinitesmal quantities that it is disregarded as far as the effects on health are concerned. While it is, in the quantities found, harmless to the human organism it has a decided sterilizing effect as regards disease germs.

While it is true that carbonic acid gas artificially produced—that is, by gas combustion—is entirely innocuous in any quantity met with in human habitations, it must not be assumed that such quantities of this gas exhaled from the lungs, may be regarded as an indication of sanitary conditions. On the contrary, even 15 parts of carbonic acid gas in 10,000, if arising from respiration of human beings, indicates the presence of organic matter in such quantities as to be highly obnoxious or even harmful

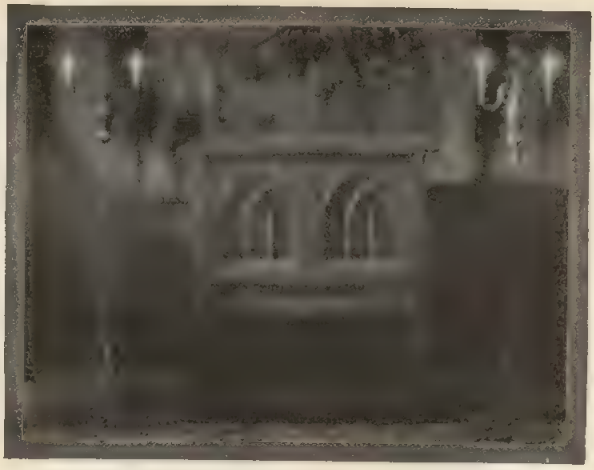
In this connection it should be noted that the vitiation of air by human beings is generally expresst as percentage of carbonic acid gas, because it indicates the amount of organic matter which has been given off in the same period, and while the latter (which is a real source of pollution) is difficult to measure, the carbonic acid gas is easily determined.

From a sanitary standpoint, therefore, figures regarding the quantities in which carbonic acid gas indicates harmful conditions apply only to this gas when thrown off by the lungs and not to the same gas produced by artificial means

It is evident that the practise of rating each gas-burner as equal to a certain number of human beings in vitiating the air in interiors is opposite to the dictates of common sense.

Investigators on the effects of carbon-dioxid report as follows, as quoted by Dr Shears:

Dr. Angus Smith shut himself in an air-



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THE Lyradion is the most versatile musical instrument ever built; it is either a high-powered radio receiving instrument or a *reproducing* phonograph with a wonderful perfection of *natural tone.*

The secret of the Lyradion's power and sweetness lies in the patented Seabrook Amplifying Horn made of a cast clay composition, which, having no vibrating properties of its own can neither add to nor detract from the selection broadcasted or recorded.

Radio cannot depend for it's future upon ear phones, tin horns, or loose batteries and wires strewn over the floor any more than the phonograph could have survived as a musical instrument under similar condition.

The Lyradion is a piece of furniture that will match any home—radio or phonograph are heard perfectly through the same horn by a roomful of friends.

And, best of all, you hear the voice, the violin, the orchestra—*even the piano*—in the original tone because the Lyradion *receives without distortion and amplifies without fault.*

When winter comes, and evenings are long, tune your Lyradion to Chicago, Detroit, Newark, Schenectady, Atlanta, Kansas City, Davenport, Pittsburgh, or Fort Worth, Texas—extend your family circle to include the Nation.

Hear music before unknown to you—hear Grand Opera—dance to distant "jazz" orchestras—hear the news of the world—become acquainted with new personalities—all by Radio—all with no cost to you after you own the instrument—and all within your own home.

Let us tell you more about the Lyradion—the newest and most marvelous instrument ever known for home entertainment.

Let us put a Lyradion in your home for demonstration—*for tone—for distance*—as a *radio*—or as a *phonograph.*

If it satisfies—if it entertains—if it pleases—make it your Christmas present to the family—anyway, write for the Lyradion Catalog showing 12 beautiful period models of radio only or radio and phonograph combinations from $250 to $1,100.

Special Models Concert Grande Size for Theatres, Clubs, Drawing Rooms, Churches, Lodges, etc., $750 to $2,150.

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Lyradion

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MAUSER and LUGER PISTOLS

We carry regularly in stock a complete line of Mauser and Luger Pistols and Rifles, all types. Also full line of Repair Parts.

Mauser Automatic Pocket Pistol

	25 Cal.	32 Cal.
Mag Capacity	9	8
Length of Barrel..	3.4 in.	6.1 in.
Weight of Pistol...	15 oz.	21 oz.
Muzzle Vel.	750	1142

Mauser 25 Vest Pocket Pistol, New Model

Luger Automatic Repeating Pistol

Nine shots using American ammunition .30 cal (7.65 m m.). Length, 8 in., weight 1 lb. 13 oz., 3¾ in barrel, max range 1350 yds., muzzle velocity, 1150 ft. Also 6 in. barrel and 8 in barrel

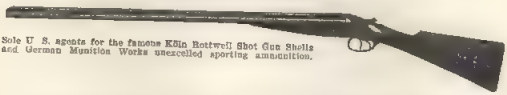
Mauser Sporting Rifle

All Calibers

Govt. 1906—30 Cal.

World Famous A. F. S. Liege Imported Shotguns

Also Automatic Drilling



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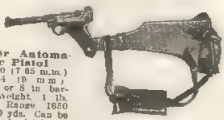
Simson (.22) Take-Down Precision Rifle

22 in. barrel. Length overall 42 in. Weight 4 lbs. Shoots 22 short, long, extra long or long rifle. Perfect screw sight. High grade wood pistol grip stock

Mauser Combination Pistol and Carbine

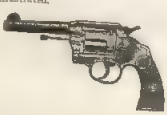
With and without stock. Self-loading 3¾ or 6 in. barrel. Graduated sight. Cal. 7.63 m m or 9 m m. Max. range, 3000 yds. Rapidity of fire 6 to 7 shots per second.



Luger Automatic Pistol

Cal. .30 (7.65 m.m.) or 3.54 (9 m m.) 3½ 6 or 8 in barrel. Weight 1 lb. 13 oz. Range 1650 to 1969 yds. Can be purchased pistol only or with wood stock and leather holster, as illustrated.

Imported Revolvers



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Holster and Gun Cases	Clay Pigeon Throwers	Hunting Knives	
Telescopes			

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A. F. STOEGER 610 West 49th Street, **NEW YORK**

CURRENT EVENTS

FOREIGN

May 17.—The French Government accepts the proposal of the British Government for an international inquiry into Turkish atrocities.

In a pitched battle between police and soldiers and Sinn Fein gunmen in Belfast one man is killed and five are wounded.

May 18.—Michael Collins, Chairman of the Irish Free State Government, and Eamon De Valera, leader of the Republicans, confer in an effort to bring peace between the two parties. Meanwhile disorders in Belfast result in the death of six men and the wounding of several.

May 19.—The Genoa Conference ends with the following accomplishments: an eight months' European and Near Eastern truce embodied in a provisional pact of non-aggression; agreement to meet and discuss Russian affairs at The Hague not later than June 20; approval of proposals for further conference, and the Russo-German treaty, not on the agenda.

Lady Rhondda's claim to a seat in the House of Lords is rejected by the Committee on Privileges, which reserves its formal decision.

Michael Collins and Eamon De Valera report to the Dail Eireann that they have failed to reach an agreement. Seven persons are killed and nearly a dozen wounded in outrages in Belfast.

Italy and Jugo-Slavia have reached an agreement by which Fiume is acknowledged as an independent state and a commercial treaty is completed between the two countries.

May 20.—The Irish Free State and De Valera factions reach an agreement under which a coalition ticket will be submitted to the voters, the chance of war remaining with the Irish Free State.

Leonid Krassin, Russian Bolshevik representative in London, is appointed Soviet Ambassador to Germany, according to a dispatch from Berlin.

May 21.—Ninety people, including two American missionaries on their way to India are lost when the Peninsular and Oriental liner *Egypt* sinks off the Island of Ushant after a collision with the French freighter *Seine*.

Incendiarism, looting and shooting mark the week-end in Belfast. Thirteen people are reported to have been killed, bringing the total for the week up to thirty-five.

Russian batteries in the Black Sea are reported to have sunk the Italian steamship *Marte*. Half the crew is said to have been killed.

May 22.—W. T. Twaddell, member of the Ulster Parliament from West Belfast is shot to death by gunmen.

A rebellion of eight hours' duration in Nicaragua is put down by a handful of American marines without firing a shot.

DOMESTIC

May 16.—Gifford Pinchot, who was nominated in the place of Theodore Roosevelt, wins the Republican nomination for governor of Pennsylvania over Attorney-General George E. Alter.

Fifty-five thousand square miles of land in Louisiana and Mississippi are over-

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"Quality made the name—the name insures the quality"

THE KIMBALL is the realization of an ideal—the fulfillment of an ambition to create an instrument of exceptional merit. Place a KIMBALL in your home and you make a generous contribution to the happiness of the entire household. Its sweetness of tone will delight the ear, and its physical beauty will charm the eye.

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MAXWELL HOUSE
COFFEE
Also Maxwell House Tea
CHEEK-NEAL COFFEE CO.
NASHVILLE-HOUSTON-JACKSONVILLE-RICHMOND-NEW YORK

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THE WORLD'S STANDARD

There are none better made, none better known. When you stock these hammers you are certain they will sell for they are used the world over.

MAYDOLE Handled Steel Hammers are made of the finest quality material, and guaranteed first-class in every respect.

Order thru your jobber—jobbers write direct to us

THE DAVID MAYDOLE HAMMER CO.
NORWICH N. Y., U. S. A.

HAMMERS, Nail (Continued)

Neversilp—See Cassady-Fairbanks Mfg. Co.
Peck, Stow & Wilcox Co., Southington, Conn. "Pexto"
Pexto—See Peck, Stow & Wilcox Co.
Plumb (Fayette R.) Inc., Tucker & James Sts., Philadelphia, Pa.
Sargent & Co., New Haven, Conn.
Stanley Wks., New Britain, Conn.
Stover Mfg. & Engine Co., Freeport, Ill. "Ideal"
Uncle Sam—See Vaughan & Bushnell Mfg. Co.
United States Lock & Hdw. Co., Columbia, Pa.
Up-to-Date Machine Wks., 2913 S. Wabash Av., Chicago, Ill.
V & B—See Vaughan & Bushnell Mfg. Co.
Vaughan & Bushnell Mfg. Co., 2114 Carroll Av., Chicago, Ill. "Uncle Sam," "V & B"
★For descriptive data of the above, see index on page 6
Warner Hammer Co., Cromwell, Conn.
Warren Tool & Forge Co., Warren, O.
Winchester-Simmons Co., New Haven, Conn.
Wrightsville Hdw. Co., Wrightsville, Pa.

HAMMERS, Pein—See Hammers, Machinists'

HAMMERS, Plow—See Hammers, Engineers'

HAMMERS, Saw Setting

A. A. A.—See Atkins (E. C.) & Co.
Atkins (E. C.) & Co., Indianapolis, Ind. "A. A. A."
Cheney (Henry) Hammer Corp., Little Falls, N. Y.
Cove Mfg. Co., Benton Harbor, Mich.
Fisher & Norris, Trenton, N. J.
Hanchett Swage Wks., Big Rapids, Mich.
Menominee Saw Co., Menominee, Mich.
Ohlen-Bishop Co., Columbus, O.
Simonds Mfr. Co., Fitchburg, Mass.
★For descriptive data of the above, see index on page 6

HAMMERS, Shoemakers'

Cheney (Henry) Hammer Corp., Little Falls, N. Y.
Eclipse—See Kupferle (John C.) Foundry Co.
Fute-Root-Heath Co., Plymouth, O.
★For descriptive data of the above, see index on page 6
Germantown—See Griffith Tool Wks.
Grey Iron Casting Co., Mt. Joy, Pa.
Griffith Tool Wks., 521 Market, Philadelphia, Pa. "Germantown"
Ideal—See Stover Mfg. & Engine Co.
Jero Specialty Co., Sterling, Ill.
Kupferle (John C.) Foundry Co., 1st & Wright Sts., St. Louis, Mo. "Eclipse"
Osborne (C. S.) & Co., (Harrison), Newark, N. J.
Peck, Stow & Wilcox Co., Southington, Conn. "Pexto"
Pexto—See Peck, Stow & Wilcox Co.
Reading Saddle & Mfg. Co., Reading, Pa.
Sargent & Co., New Haven, Conn.
Standard Shoe Mchy. Co., Lawrence, Mass.
Star Heel Plate Co., Louis Sacks, Inc., 357 Wilson Av., Newark, N. J.
★For descriptive data of the above, see index on page 6
Stover Mfg. & Engine Co., Freeport, Ill. "Ideal"
U. S. Lock & Hdw. Co., Columbia, Pa.
Williams (A. C.) Co., Ravenna, O.
Wrightsville Hdw. Co., Wrightsville, Pa.

HAMMERS, Slaters'—See Tools, Roofing

HAMMERS, Soft Metal

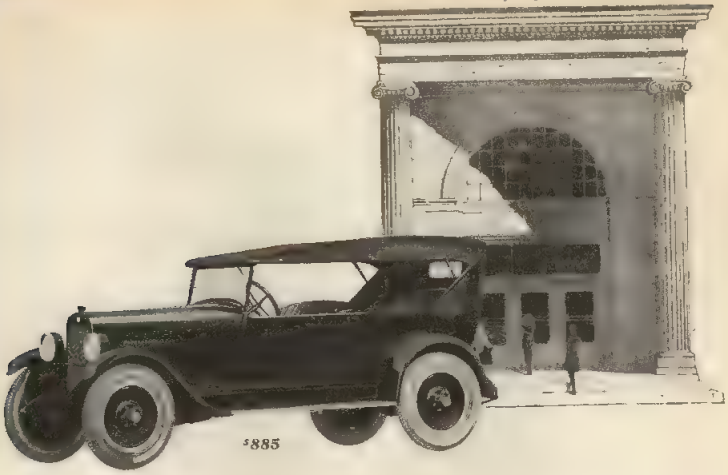
Electric Materials Co., North East, Pa.
Goodell-Pratt Co., Greenfield, Mass.
★For descriptive data of the above, see index on page 6
Graham (James) & Co., New Haven, Conn.
Universal Equalizer Co., 132 Opera Pl., Cincinnati, O.
Williams (E. A.) & Son, 105 Plymouth, Jersey City, N. J.

HAMMERS, Stone Cutters'

Anderson (W. H.) Tool & Supply Co., 1230 Brush, Detroit, Mich.
Beall Bros., Alton, Ill.
Brunner & Lay, 570 W. Polk, Chicago, Ill.
Buffum Tool Co., Louisiana, Mo. "Swastika"
Cheney (Henry) Hammer Corp., Little Falls, N. Y.
Collins Co., Collinsville, Conn. "Legitimus"
D. R. Barton—See Mack & Co.
Evansville Tool Wks., Evansville, Ind.
Hubbard & Co., 63d & Butler Sts., Pittsburgh, Pa.
Iron City Tool Wks., 3201 Smallman, Pittsburgh, Pa.
Isele (A. W.) & Son, 51 Pitt, Boston, Mass.
Klein-Logan Co., 13th & Breed Sts., Pittsburgh, Pa.
Legitimus—See Collins Co.
Livingston Mfg. Co., Rockland, Me.
Mack & Co., Rochester, N. Y. "D. R. Barton"
Plumb (Fayette R.) Inc., Tucker & James Sts., Philadelphia, Pa.
Stanley Wks., New Britain, Conn.
Swastika—See Buffum Tool Co.
Trow & Holden Co., Barre, Vt.
Vogt Tool Co., 912 E. 19th, Kansas City, Mo.
Vulcan Tool Mfg. Co., Quincy, Mass.
Warner Hammer Co., Cromwell, Conn.
Warren Tool & Forge Co., Warren, O.
Warwood Tool Co., Wheeling, W. Va.

HAMMERS, Tack

Arcade Mfg. Co., Freeport, Ill.
★For descriptive data of the above, see index on page 6
Brighton—See Wrightsville Hdw. Co.
Browne (W. G.) Mfg. Co., Kingston, N. Y. "Dandy"
★For descriptive data of the above, see index on page 6
Cassady-Fairbank Mfg. Co. Div., Washburn Co., 6126 S. La Salle, Chicago, Ill. "Neversilp"
Cheney (Henry) Hammer Corp., Little Falls, N. Y.
Clancy, J. R., Syracuse, N. Y.
Dandy—See Browne (W. G.) Mfg. Co.
Gray Iron Foundry Co., Reading, Pa.
★For descriptive data of the above, see index on page 6
Grey Iron Casting Co., Mt. Joy, Pa.
Henry (John T.) Mfr. Co., Hamden, Conn.
Hills, Edwin, Plainville, Conn.
Horseshoe Magnet—See Robertson, Arthur E.
K. & B.—See Kilborn & Bishop Co.
Kilborn & Bishop Co., New Haven, Conn. "K. & B."
★For descriptive data of the above, see index on page 6
L. & S. L. Co.—See Wrightsville Hdw. Co.
Landers, Frary & Clark, New Britain, Conn.
Maydole (David) Hammer Co., Norwich, N. Y.
★For descriptive data of the above, see index on page 6
Neversilp—See Cassady-Fairbank Mfg. Co.
Osborne (C. S.) & Co., (Harrison), Newark, N. J.
Peck, Stow & Wilcox Co., Southington, Conn. "Pexto"
Pexto—See Peck, Stow & Wilcox Co.
Potter Mfg. Co., Geneva, O.
Robertson, Arthur E., 144 Oliver, Boston, Mass. "Horseshoe Magnet"
Sayre (L. A.) Co., 382 Mulberry, Newark, N. J.
Stanley Wks., New Britain, Conn.
Stover Mfg. & Engine Co., Freeport, Ill.



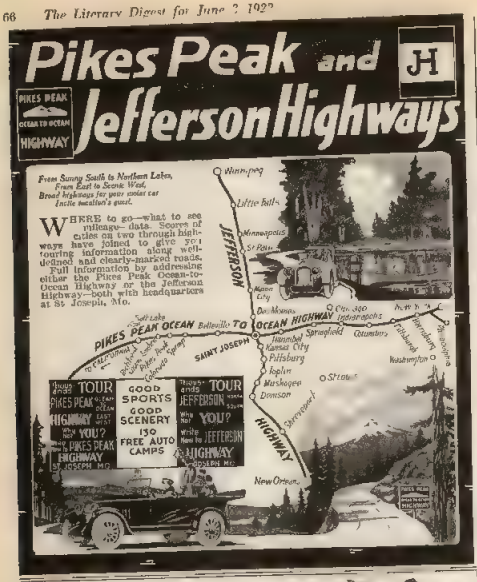
The way the New Series of the good Maxwell rides, makes its splendid performance all the more satisfying. It provides a degree of road comfort that is entirely unusual in a car of its weight and size.

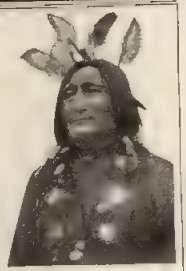
Cord tires, non-skid front and rear; disc steel wheels, demountable at rim and at hub; drum type lamps, Alemite lubrication; motor driven electric horn; unusually long springs; deep, wide, roomy seats; real leather upholstery in open cars, broadcloth in closed cars; open car side curtains open with doors; clutch and brake action, steering and gear shifting, remarkably easy; new type water-tight windshield. Prices F. O. B. Factory, revenue tax to be added. Touring Car, $885; Roadster, $885; Coupe, $1385; Sedan, $1485.

MAXWELL MOTOR CORPORATION, DETROIT, MICHIGAN
MAXWELL MOTOR COMPANY OF CANADA, LTD., WINDSOR, ONTARIO

The Good

MAXWELL





In the Land of Indian Legend

Get out into the Indian country. You will find traces of red-skins far more thrilling than the tales of Hiawatha. Westward from the field of Custer's last battle, through Montana, Idaho and along the Columbia River Highway, are interesting reminiscences

Northern Pacific Ry.

"2000 Miles of Startling Beauty"

is the route of history. Again and again do the trucks cross the old Lewis and Clark Trail, following it at times hundreds of miles. Three Forks of the Missouri, Bitter Root Valley, Clark Fork River and many other points on the main line of the Northern Pacific, play a permanent part in the story of the wonderful first Expedition through the Northwest in 1804-06.

$86 Round Trip—Chicago to North Pacific Coast

Go fishing in the deep lakes of Idaho and Montana. Climb snow covered Mount Rainier. Camp out in Paradise Park. Get off the beaten track, see places of special historic or scenic interest. Enjoy Puget Sound and Lake Washington.

From Chicago — North Coast Limited — All-Steel Through Train

Stop at Yellowstone Park

Write for free books—as fascinating as fiction.

NORTHERN PACIFIC YELLOWSTONE PARK LINE

A. B. Smith, Passenger Traffic Mgr., St. Paul, Minn. 16

VACATION TRIPS AND PLAY-GROUNDS—*Continued*

TRIPS ON THE GREAT LAKES

Speaking of our inland fresh water seas, Frederick A. Talbot in his "Steamship Conquest of the World" (J. B. Lippincott Co.) says:

"A cruise around these Great Lakes has developed into as popular a holiday among Americans and Canadians as a trip to the fjords of Norway or the Mediterranean is among Europeans, while many transcontinental travelers welcome two days on these waters as a pleasant interlude to the 4,000 miles of railway ride from the Atlantic to the Pacific seaboard."

Along their shores are many delightful vacation centers and points of unusual interest. There is Cleveland, one of the handsomest of American cities; Detroit with its waterside parks and huge motor factories; the island labyrinth of Georgian Bay; Mackinac with its scenic and historical charm; the great locks at Sault Ste. Marie; shores of resorts along both shores of Lake Michigan and Lake Superior. A table of Great Lakes Routes is given elsewhere.

SELECTED BOOKS ON GREAT LAKES REGION

Sketches in Dunsland, Earl H. Reed, Dodd, Mead & Co. $3.00.
Tales of a Vanishing River, Earl H. Reed, Dodd Mead & Co. $4.00.
The Sand Dunes of Indiana, B. Stillman Bailey, A. C. McClurg & Co., $5.00.
A Naturalist in the Great Lakes Region, E. R. Downing, Univ. of Chicago Press, $3.00.
Chicago and Old Northwest, Milo Quaif, Univ. of Chicago Press, $2.00.

MINNESOTA'S SPORTSMEN'S ELYSIUM

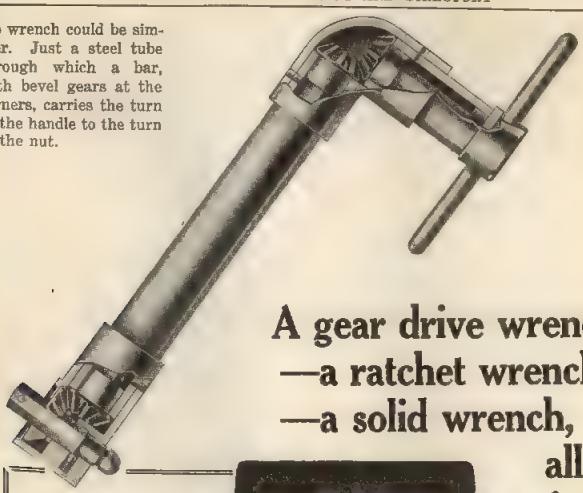
Easily accessible for week-end trips from Chicago are a series of lake resorts in Wisconsin much in favor with residents of the Middle West. Boating, bathing and fishing are enjoyed at such popular resorts as Geneva Lake, Lake Winnebago, Fox Lake, Green Lake, Zurich, Mendota, Beaver and a multitude of smaller ones.

If we continue, however, farther northwest to St. Paul or Duluth, we find east and north of the Mississippi Valley the labyrinth of lakes, lakelets and intersecting waters which are designated as the Ten Thousand Lakes of Minnesota, an elysium for the canoeist, camper and fisherman who delights in leaving the beaten paths.

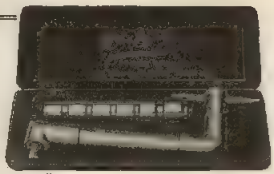
"It is a real wilderness," writes the editor of *Outing Magazine;* "make no mistake about that. If solitude is your key to happiness you can travel for days without seeing another human face or coming within sound of a locomotive whistle. You can be as strenuous or as lazy as you like—work twelve hours a day or loaf and invite your soul. And all around will spread the serene difference and peace of the North Woods."

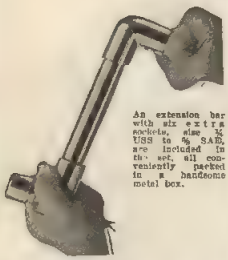
The main points of entry are by way of Duluth or St. Paul. Details of the above routes with fish and game regulations and special advice to campers should be obtained from the Minnesota Land and Lake Attractions Board of St. Paul.

No wrench could be simpler. Just a steel tube through which a bar, with bevel gears at the corners, carries the turn of the handle to the turn of the nut.



A gear drive wrench —a ratchet wrench, —a solid wrench, all in one!





An extension bar with six extra sockets, size ¾ USS to ⅝ SAE, are included in the set, all conveniently packed in a handsome metal box.

The most useful all-purpose wrench ever offered to the trade. Can be used by workmen and householders alike

Reaches the inaccessible places.

No job too hard for it to handle.

When nut is frozen it can be used as a solid wrench by shifting socket pin.

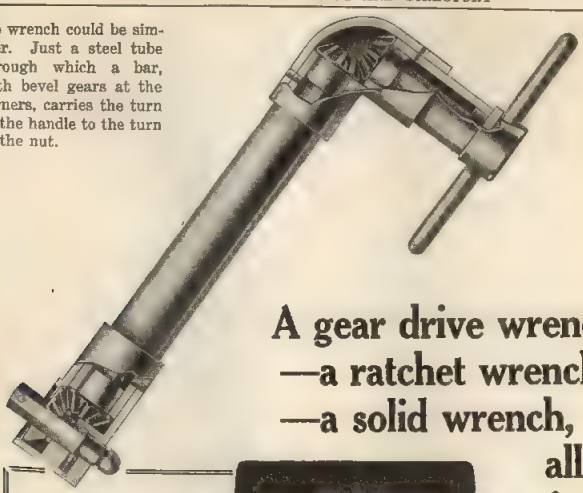
It serves also a "gear drive" wrench and ratchet wrench

Made of finest steels—heat treated—and is guaranteed as to quality and workmanship. Liberal trade discounts—ask for them.

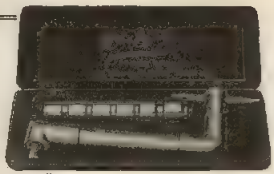
KING TOOL COMPANY
Asbury Park, N. J.

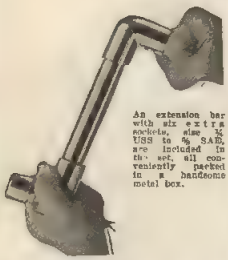
Onli-1
WORKS ALL-WAYS
SOCKET WRENCH

No wrench could be simpler. Just a steel tube through which a bar, with bevel gears at the corners, carries the turn of the handle to the turn of the nut.



A gear drive wrench —a ratchet wrench, —a solid wrench, all in one!





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KING TOOL COMPANY
Asbury Park, N. J.

Onli-1
WORKS ALL-WAYS
SOCKET WRENCH

Eastern college for women, writes, in a hardly less condemnatory vein:

I am a woman who was born immediately after the Civil War, and at thirteen and fourteen was still going through what we then called a reconstruction period. The older people were somewhat alarmed at the freedom of the younger ones. As I look back over that time, I see that the only freedom we were really allowed was the privilege of walking a few blocks from our own homes with a young man to some well-chaperoned dance. We were also allowed to go horseback riding. Moonlight excursions with several chaperones were the most

"MORAL CHAOS"

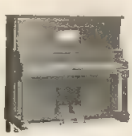
J. I. Riddle, a high school principal at Attalla, Alabama, calls upon American civilization to awaken from its "imperfect sleep over the pit of moral chaos before it is too late.

advanced liberty that was allowed us. We had had no such thing as sex hygiene taught us and we never would have dreamed of mentioning this subject to young men of our acquaintance. We were extremely careful never to cross our legs or to stand with our feet spread wide apart. We were imprest with the idea by our elders that these things were vulgar and a sign of ill-breeding. We were also told that we should not allow the young men with whom we associated to handle or kiss us, as nice girls did not do these things, and nice men did not wish that kind of girl for a wife. A man wanted a girl for his wife who had not been kissed by other men. I do not believe that many girls were given the reasons why they should not do these things.

To-day we have the sex question openly discust in mixed classes. We have men professors teaching biology to girls in the plainest and most advanced fashion. There is no secret of the human body or of sex that is not pretty well known to the average girl of sixteen. I have had girls of eighteen tell me that sex was a subject of conversation between the modern girl and young men. I would almost believe from conservation that sex was a dead issue were it not that we still have marriage, which is the ultimate end of sex. I am not prepared to say that the modern girl is any less moral than we were, but I do say that there are two words which can be applied to her and which she deserves from her conduct—

KIMBALL

"Quality made the name—the name insures the quality"



Now Serving a Nation of Music Lovers

THE KIMBALL is the instrument of preference in discriminating homes everywhere—indeed, a splendid testimonial of musical excellence. Charming in physical appearance and of superior workmanship—the superb tonal qualities of the KIMBALL will delight you.

The KIMBALL includes:

Grand Pianos
Upright Pianos
Player Pianos
Phrasemore Pianos
Reproducing Pianos
Phonographs
Pipe Organs
Music Rolls

There is a Kimball dealer in your town, or near you. Ask for demonstration, or write us for descriptive catalog.

W. W. KIMBALL CO.

(Established 1857)

Factory and Executive Offices: CHICAGO, U. S. A.

What Other Wood Can Equal This Record?

SIXTY-NINE years ago this Redwood timber became a gate post. It served 60 years, through rain and drought, was dug up to let a railway through, and now perpetuates the name of one of the country's pioneer ranchmen. Sound above and below ground, this post offers convincing testimony of Redwood's remarkable rot-resistance.

A *natural*, odorless preservative, which permeates Redwood during the tree's growth, protects Redwood against all sorts of fungus, rot and decay. Wood-boring worms and insects leave Redwood alone. Redwood burns slowly because it contains no pitch or resin—reduces the fire hazard wherever used.

The cost of Redwood compares favorably with that of other lumber, which cannot compare with Redwood for utility and long service.

If you are planning to build, write for our "Redwood Homes Booklet." To architects, builders and engineers we will send our Complete Redwood Engineering Data.

CHICAGO — SAN FRANCISCO
Nos. M. Clark Bldg. — 111 Sutter St.
NEW YORK — LOS ANGELES
120 No. 40 Bectre St. Bldg. — Central Bldg. & 3rd Main Sts.
THE PACIFIC LUMBER CO. of Illinois — THE PACIFIC LUMBER CO.

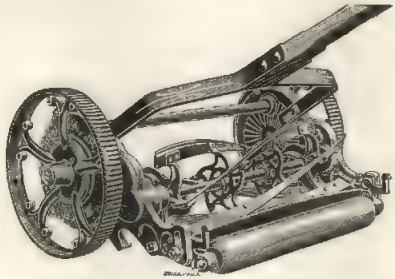
The Pacific Lumber Co.

Redwood

The Largest Manufacturers and Distributors of California Redwood

Redwood should be specified for
Exterior Construction
Interior Finish
Industrial Uses
Wood Specialties
Railroad Uses
Farm and Dairy Uses

PENNSYLVANIA
Quality
LAWN MOWERS



Mr. Dealer—

When you have an inquiry for a PENNSYLVANIA QUALITY Lawn Mower, it is because the person has read about it in the magazines, or seen perhaps your own ad., in the local newspaper, or has been told by a satisfied user that PENNSYLVANIA QUALITY Lawn Mowers are good LAWN MOWERS.

A Size and Type for Every Purpose

"Pennsylvania Standard"
"Pennsylvania Jr." B. B.
"Pennsylvania Golf" B. B.
"Pennsylvania"
Putting Green
"Pennsylvania"
Lawn Trimmers
"Continental"
"Great American" B. B.
"Quaker City"
"Red Cloud" B. B.
"Belmont"
"Panama"
"Delta" B. B.
"Electra"
Horse and Pony Mowers
Power Driven Mowers
Lawn Cleaners and Rake
Grass Catchers

Do Your Clerks Know Why?

Do they know the reason for the long life and superior cutting of PENNSYLVANIA QUALITY? Let us send you our publications with instructions to Store Salesman and list of Signs, Folders, Ready Made Ads, etc. Drop us a line stating which of our brands you handle and "WHO YOU BUY THEM FROM," and we will send you promptly an assortment of the above helps.

PENNSYLVANIA LAWN MOWER WORKS
JOHN [illegible] & SONS
FOUNDED 1877 PHILADELPHIA

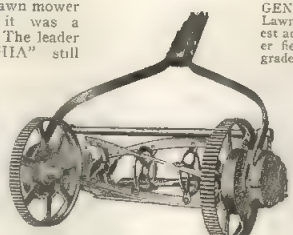
The Genuine

"PHILADELPHIA"

Lawn Mowers

In 1869 the side wheel lawn mower was invented. And it was a "PHILADELPHIA." The leader then, "PHILADELPHIA" still LEADS TODAY

Long experience combined with the highest manufacturing principles, and strict adherence to a fifty-three year old tradition guarantees that every "PHILADELPHIA" Lawn Mower will be MADE FOR LONG SERVICE AND SATISFACTION



Style "GRAHAM" and "A" all steel Pivot on 3 all steel runners made

GENUINE "PHILADELPHIA" Lawn Mowers are the very highest achievement in the lawn mower field. Only the very highest grade raw materials are employed.

The straight long parallel bearings are without a doubt the longest lived and most satisfactory. We do, however, put roller bearings in a few styles which are far superior to the old style ball bearings and in comparison wear much longer. No other lawn mowers are made like "PHILADELPHIA" —NONE CAN BE—for we control the important basic patents.

We Make the Following Styles

STYLE "GRAHAM," all steel. 10" wheels, 4 blades.
STYLE A,' all steel, 10" wheels, 4 blades
STYLE E,' 10" wheels, 4 blades
STYLE K' 10" wheels, 5 blades.
STYLE KRB," 10" wheels, 5 blades
STYLE C, 8½" wheels, 4 blades
STYLE 'M,' 7" wheels, 3 solid blades
GOLF, 6 and 8 blades, 10" wheels.

INDEPENDENCE, roller bearing, 9" wheels, 4 blades.
ALL DAY, 10" wheels, 4 blades
DEWEY, 8" wheels, 4 blades.
UNIVERSITY, 9" wheels, 4 blades.
DREXEL, 8" wheels, 3 blades.
NEW, 8" wheels, 3 blades.
STYLE "S," 7" wheels, 4 blades.
Lawn Trimmer, 8" wheel, 4 blades

IMPROVED FLEXIBLE FRAME "EAGLE," "PHILADELPHIA," 30", 35" and 40"
"PHILADELPHIA," 36".
TWO MAN OR PONY, 25" and 30".
30" Walking type.
30" Riding type
40" Riding type
THE OLDEST.
THE ORIGINAL.
THE BEST

10" wheels, 5 blades *plain or roller bearings.*

"EAGLE" FLEXIBLE FRAME Complete with seat, shafts and draft attachment.

20" Walker 30" Rider. 40" Rider All combination roller and mower

We make a full line of hand, horse and motor power mowers, and it is a well known fact we do not turn out a machine of which we cannot be justly proud, and that all can be relied upon to render the most perfect and satisfying service to the user.

Our line is the *most complete* and *most up-to-date*. Guaranteed free from all defects Renowned for over fifty-three years all over the world *Catalogs will be furnished promptly on request.*

The Philadelphia Lawn Mower Co.

31st & Chestnut Sts., Philadelphia, Pa., U. S. A.

SENATE CHAMBER CLOSE-UPS

"SHOOT!" cries the movie-director, and the camera-man turns his crank, while living figures picture themselves on celluloid for all the world to see. But there are other cameras. The eye is one. Particularly a writer's eye. And when we take up Mr. Robert Littell's vivid description of figures in the United States Senate, we can almost hear a director's voice cry, "Shoot!" Mr. Littell has "shot" Senator Reed of Missouri. He has "shot" Wadsworth of New York and Lodge of Massachusetts and a dozen or so besides. If it was not Mr. Littell who wrote "The Mirrors of Washington"—a movie, in its way—it might plausibly enough have been Mr. Littell, and the burden of proof rests with him, or so readers of his article in the *New Republic* are saying. They base their guess on such evidence, for example, of this "close-up" of Senator Reed:

A one-sided man, with a dark, bitter talent for improvised speech, which he uses only in destruction. He never throws or squirts his vitriol, but pours it out drop by drop into perfectly formed little pools of sarcasm and hatred. After each sentence he waits for the acid to corrode its path into evil, and moves slowly a few steps to the right or left of his desk. A plain figure, neither fat nor thin, in plain blue clothes, with short businesslike gray hair, features scornful, a little ascetic. His words have rhythm, design, but his voice none, breaking after periodic lulls into loud, dangerous tones; a clear-cut voice, of a few notes except for times when, as he leans forward, it shrivels in an ecstasy of sarcasm.

Naturally, Mr. Littell speaks for himself alone. Whether this is portraiture or caricature or a mingling of the two, the reader is left to judge, and so again in the case of Mr. Littell's "shot" at Senator Wadsworth:

A shapely, bald figure, very straight, young and vigorous, in a black cutaway; cold, incisive, with a voice of Eastern cultivation, in which a deep, intolerant anger moves just below the surface. Even when he is not angry this tone can be heard. I can see him respecting his anger, feeding it, taking it out on a leash for exercise, bringing it back into the Senate tugging to be heard, but still on leash.

Whatever the other kinds of criticism such a writer as Mr. Littell may bring to bear upon the Senate, the accusation of mediocrity is not one of them. Many Senators "once seen and heard, stand out from the mass." For instance:

Willis of Ohio, voted by the stenographers the handsomest man in the Senate, modern, still athletic looking tho overweight, with a pitiless voice like the forcible mutilation of sheet-iron.

McCumber of North Dakota, drawn and hook-faced like an Albino Indian, from whose confident chest come long noises of hearty dulness, marred by "s" sounds whispering through the big words.

Brandegee, too high a whistle for so heavy a locomotive. Norris: a pleasant, ungainly figure, a little white and tired,

Can't you recall the famous old nursery jingle that goes —

Ride a cock-horse to Banbury-cross
To see what Tommy can buy;
A penny white loaf, a penny white cake,
And a two-penny apple-pie.

ARE there any folks left who don't know that the most delicious food you can get is right around at your own grocer's?

It's the old story of the Bluebird of Happiness. After searching all over the world for "something good" you may find it right in your own home.

Now, for instance, what is more delicious than Post Toasties—the superior corn flakes—with cream or good milk?

Get the joy of that crispness and flavor from a bowl of these wonderful golden-brown flakes of toasted corn for breakfast—and you find yourself wishing that it could happen once more, and fearing that it won't.

And there you are at lunch again—another bowl of that same delightful goodness. Or at bedtime; exactly the same delicious quality which first made you wonder whether Post Toasties *could* keep on being so *good*.

Keep Post Toasties in the house, for all the family. Let the children have all they want, whenever they're hungry. There are many helpings from a package of Post Toasties, and there's no trouble or waste or delay in serving.

Post Toasties are *different* corn flakes by their own name. To realize all that corn flakes *should* be, order Post Toasties from the grocer—and be sure you get the Yellow and Red package.

Post Toasties

—improved corn flakes

ALWAYS IN GOOD TASTE

THE PREMAX LINE

HARDWARE SPECIALTIES

"25 SUCCESSFUL YEARS OLD"

The "King of Coasters"

PREMAX ROAD-TESTED COASTER

A handsome, strong, durable coaster. Built and tested on the road to give longer and better service.

Selected white ash box, removable. All-Steel, interchangeable undergear. ⅝" cold-rolled steel oversize axles. 10" pressed steel double disc wheels. Special hub and bearing construction. Hard steel roller bearings in pressed steel container. Metal name plate.

Rubber tires ¾" diam. or solid steel, as preferred. Handsomely enameled and varnished.

Size No. 2 26" wheel base—19" axle—Box size 14 x 34"
Size No. 3 30" wheel base—19" axle—Box size 16 x 38"
Size No. 4 32" wheel base—19" axle—Box size 18 x 40"

Packed in individual cartons, knocked down.

PREMAX METAL LETTERS, FIGURES AND HOUSE NUMBERS

The Most Complete Line Made

Embossed Brass and Aluminum

Sizes ¼" to 6" in both letters and figures. 8 different finishes.

Packed in cartons of 20 or in assortment display boxes, complete with pins.

2" aluminum house numbers a specialty.

Also copper and brass milk can letters.

Deluxe House Number Solid Aluminum

A high grade artistic product for better homes.

Number 2½" high stamped into heavy aluminum plaque. Beautiful silvery finish on rich black background.

Packed in cartons of 5 or assortment display boxes, with frames and pins.

PREMAX HARNESS SPECIALTIES

DODSON ALL-STEEL HAME STRAP

Established for 20 years.

The only flat link metal hame fastener. Adjusted instantly like leather strap.

Packed one dozen in an attractive counter display box, with large posters and folders.

A fast-selling article wherever horses are used.

Parkerized Black Rust-Proof Finish.

PREMAX JOCKEY CHAIN

Parkerized Rust-Proof

A very serviceable item with a large field. 10", 12", 15" lengths. With or without swivel. Cut-link chain. Strong spring snaps.

PREMAX PRESSED STEEL SNAPS

Simple, strong, attractive. Sizes from ⅝" to 2". Harness, rope, and swivel patterns. 4 doz. to 12 Doz per box.

Black Rust-Proof Finish

PREMAX BUILDERS SPECIALTIES

Standard Wall Tie

⅛" x 7⅛"

Made of substantial galvanized steel. Won't rust. Scientifically designed to stand breaking strain of about 1000 lbs. 1000 per box.

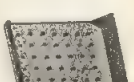
Standard Veneer Tie

7/16 x 3½"

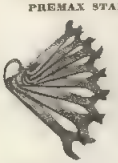
Correctly made. Bent at one end to nail to sheathing. Galvanized steel of rugged strength and security. 1000 per box.

Standard Wall Plug

Galvanized steel. Quickly placed. Two sizes 2½" and 3". Are built into brick walls as base for nailing; also used to attach floor strips to cement floor. Hold nails securely. 1000 per box.



PREMAX STAMPED STEEL WRENCHES



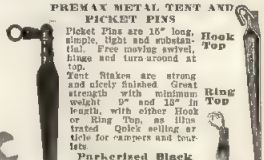
HANDY 8 WRENCH SET

Eight single end steel wrenches on a special ring. Sizes 5/16" to ⅝". Weave nickel-plated finish. Packed one dozen sets in attractive counter display box.

DOUBLE 6 WRENCH SET

Six double end wrenches, sizes 5/16" to 1⅛". Packed in individual cartons. A big value at low cost.

PREMAX METAL TENT AND PICKET PINS



Picket Pins are 15" long, simple, light and substantial. Free moving swivel, hinge and turn around at top.

Tent Stakes are strong and nicely finished. Great strength with minimum weight. 9" and 12" in length, with either Hook or Ring Top, as illustrated. Quick selling article for campers and hunters.

Hook Top

Ring Top

Parkerized Black Rust-Proof Finish

NIAGARA METAL STAMPING CORPORATION

200 TENTH STREET — **NIAGARA FALLS, N. Y.**

illuminate the camp, and then comes to that much-debated subject, the trailer:

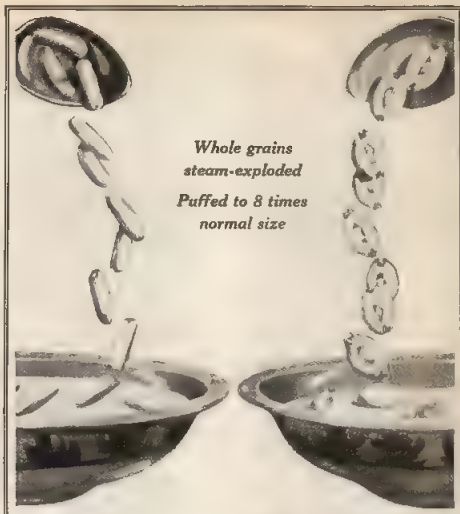
The camping trailer is fitted with two double beds with springs, mattresses and pillows. Over the opened trailer camp is a folding frame supporting a canvas tent. The food compartment and ice-chest is under the floor. Gasoline stove, folding chairs, and the necessary camp conveniences are packed about the trailer. The loaded trailer weighs about eight hundred pounds.

After all, the style of outfit one selects for automobile gypsying is a secondary matter. The first requisite is the philosophy of the campers. Children are natural gypsies and they will be ready as quickly as little Indians. Youth likes the smell of adventure, the charm of new surroundings and the exotic, and as a last resort mature age—perhaps under the disguise of seeking health—feels the same lure to autocamping.

Throughout the West and in the larger cities and many of the towns and villages of the East and South you will find municipal Motor Camping Parks ready for your tent. Denver, Colorado, has set the example for others to follow. Two years ago this city purchased one hundred and sixty acres along the Platte River, and Overland Park is the result. This park has eight hundred camping lots, each twenty-five by thirty-five feet, located so that no camper is more than one hundred and fifty feet from a city water hydrant. Your camp in Overland Park may be lighted by the city electric current. A large, three-story clubhouse in the park is a headquarters for municipal grocery store, meat market, kitchen, grill and lunch counter, steam-heated table from which food is dispensed, billiard-room, barber-shop, reading-room, separate men's and women's lockers and showers. A park garage, filling station, and motion-picture theater offer themselves for the use and recreation of the automobile gypsy. And still there is plenty of shade and real out-doorsy atmosphere in this municipal park, for half of the one hundred and sixty acres are wooded with maples and cotton-woods. Denver is merely cited as a sample of the thousands of Motor Camping Parks in every section, including Canada and our National Forests and Parks.

On long autocamping trips one need never fail to spend the night at a public camping park if he wishes. There are also plenty of other camp sites. Everywhere there are schoolyards offering their welcome. We have camped many nights by permission in farmers' fields or door-yards. Everywhere there will be found along the highway either State or Federal holdings where you are permitted to pitch camp. Your automobile clubs are recognizing the difference between the automobile *tourist*—who pilgrimages from hotel to hotel—and the automobile camper. Hence you will find plenty of data covering camping facilities in any locality. Map-makers and tourist booklet-publishers supply this same information specially prepared for the automobile gypsy. The United States Forest Service, Information Department, Washington, D. C., has compiled the data for service to campers in the National Parks and Forests, mainly in the West, but a few in the East. The chambers of commerce in many cities are giving special instructions or assistance to autocamping. Many of them, like Denver, have established Tourist Publicity Bureaus.

Writing in *Outdoor Life*, Mr. Brimmer goes into detail regarding the camping



One at Night

One in the Morning

Make these all-day-long delights

Puffed Grains are the supreme breakfast dainties. Never was cereal food made half so enticing.

But that isn't all. Puffed Wheat in milk is a matchless dish for luncheon or for supper.

Puffed Rice, crisped and lightly buttered, is an afternoon delight. And on desserts, like ice cream, it tastes like bubbled nuts.

Think what puffing does

Puffed Grains are made by Prof. Anderson's process. They are steam-exploded—shot from guns.

Every food cell is blasted. Over 100 million steam explosions are caused in every kernel.

Digestion is made easy and complete. Every element in the whole grain is fitted to feed.

Thus one gets whole-grain nutrition—16 needed elements. All can be assimilated.

Puffed Grains are tidbits, flimsy and flavory. The texture is like snowflakes, the taste like toasted nuts.

But, above all that, they are scientific foods—the best-cooked cereals in existence.

Let children eat all they will.

The Quaker Oats Company Sole Makers

RADIO!

The first complete home study course in the world's most fascinating subject—Radio.

Through the Radio School of America you can now get a complete and intensely practical Radio course at an extremely low price.

All the information that it has taken experimenters years to discover is presented to you in simple, readable form so that you can easily master it.

The course has been carefully written by the foremost radio experts. It tells just what Radio is and how it works. It explains how to build your own receiving set—and how to *use it properly*. It tells you all about the different parts and accessories and how much they cost. How to operate every style of radio outfit. How to locate trouble and remedy it—in fact everything you should know about Radio.

The entire course, in ten installments, giving you a complete Radio education, is offered at the minimum price of only $10.00

In order to introduce it we are offering the first section of the course at only $1.00.

This section is very complete in itself and gives you a world of practical information about every phase of Radio.

Send for it today—only

$1.00

THIS FIRST SECTION, at a cost of $1.00 covers the following subjects

Essential Parts
The Antenna
Detail of Parts
Tuner, Detector and Phone
Details of Construction
Instructions for Wiring
Directions for Operating
Cost of Building
Symbols
Estimated Cost of Antenna
Questions and Answers
Radio Terms Defined
The Crystal
Testing Trouble in Sets
Locating Signals
Grounding Switch
Care of Head Sets
Useful Information
Slide Tuning Coil Set
Materials Needed

The Radio School of America
Cleveland, Ohio

W. L. DOUGLAS

FOR MEN AND WOMEN

$7.00 & $8.00 SHOES

ALSO MANY STYLES AT **$5.00 & $6.00**

YOU CAN ALWAYS SAVE MONEY BY WEARING W. L. DOUGLAS SHOES SOLD DIRECT FROM FACTORY TO YOU AT ONE PROFIT

W. L. DOUGLAS PRODUCT IS GUARANTEED BY MORE THAN FORTY YEARS EXPERIENCE IN MAKING FINE SHOES

They are made of the best and finest leathers, by skilled shoemakers, all working to make the best shoes for the price that money can buy. The quality is unsurpassed. Only by examining them can you appreciate their wonderful value. Shoes of equal quality cannot be bought elsewhere at anywhere near our prices.

Our $7.00 and $8.00 shoes are exceptionally good values. W. L. Douglas shoes are put into all of our 108 stores at factory cost. We do not make one cent of profit until the shoes are sold to you. It is worth dollars for you to remember that when you buy shoes at our stores YOU PAY ONLY ONE PROFIT.

No matter where you live, shoe dealers can supply you with W. L. Douglas shoes. They cost no more in San Francisco than they do in New York. Insist upon having W. L. Douglas shoes with the name and retail price stamped on the sole. Do not take a substitute and pay extra profits. Order direct from the factory and save money.

W. L. Douglas name and portrait is the best known shoe Trade Mark in the world. It stands for the highest standard of quality at the lowest possible cost. The intrinsic value of a Trade Mark lies in giving to the consumer the equivalent of the price paid for the goods.

Catalog Free.

W. L. Douglas
President
W. L. Douglas Shoe Co., 161 Spark St., Brockton, Mass.

INVESTMENTS AND FINANCE
Continued

tariff, others as a result of mergers. Sometimes a Canadian business in a tight corner has turned to American capital or management for help; sometimes the American industry has taken the initiative. The Canadian writer goes on to show the extent to which American capital has taken over certain industries in Canada.

One is not surprized to learn that the motor-car industry is largely in American hands. Of its capital 91 per cent. is American, 19 per cent. Canadian, not a dollar British. Motor-car accessories is 93 per cent. American.

It is more surprizing to learn that the large and indigenous meat-packing industry was 41 per cent. owned in the United States. The proportion to-day is larger.

In the rubber industry 50 per cent. of the stocks and bonds representing ownership is American, 10 per cent. Canadian, 3 per cent. British, 8 per cent. other countries.

In railway-car construction 54 per cent. is American, 46 per cent. Canadian.

In petroleum refining 53.1 per cent. is American, 46.7 per cent. Canadian, one-fifth of 1 per cent. British.

In lumbering, oldest and most profitable of Canadian industries, Canadians retain only 61 per cent., Americans hold 27 per cent., and British 11 per cent.

In pulp and paper concerns Canadians own 68 per cent., Americans 24 per cent., British 4, and other countries 4.

In electrical apparatus 49 per cent. is American, 36 per cent. Canadian, 12 per cent. British, 3 per cent. other countries.

And so on through the whole list. One estimate is that there is from $700,000,000 to $800,000,000 of American capital invested in Canadian industry. Some might put the figure at an even billion.

SWITZERLAND'S EMBARRASSING RICHES

MR. H. G. WELLS once set out to prove the fallacy of the proverb. "In the country of the blind the one-eyed man is king,' by telling of the wretched plight of an adventurer into an Andean valley inhabited by a blind tribe. Switzerland offers a similar proof that it does not make for happiness to be the only solvent country in a continent of near-bankrupts. Alone among the European nations, we read in a Paris letter to *The Wall Street Journal*, "Switzerland has the distinction of a currency a gold parity, the Sweden is running close." But, it seems, "she is as unhappy as any country in Europe, with the exception of Russia." The foreign tourist and the foreign buyer alike stay away because Switzerland "is too expensive to live in and too expensive to buy in." Things are said to be so bad "that Swiss manufacturers actually find it worth their while to migrate, lock, stock and barrel, to southern Germany and eastern France." Prospects for this year are far from bright, according to *The Wall Street Journal's* correspondent. "Save for a few orders from countries with undepreciated cur-

THE CAR MOVER OF QUALITY

DESIGNED FOR POWER CONSTRUCTED FOR SERVICE

BACKED BY RELIABILITY

Only the best materials obtainable are used in the manufacture of this mover, and every part is fully Guaranteed.

Manufactured only by the

APPLETON CAR MOVER CO., Appleton, Wis.

MOPS, Polishing (Continued)

Prussia Products Corp., 8 Railroad Pl., Newark, N. J.
Rubilite—See Dearborn Duster Co.
Shine—See Pioneer Mfg. Co.
Tate Mfg. Co., 48 Hanover, Boston, Mass. "Blue Bird"
Tate (E. H.) Mop & Cordage Co., 57 Sudbury, Boston, Mass. "Best Quality"

MORTAR BARROWS—See Barrows, Concrete and Mortar

MORTISE LOCKS—See Locks, Mortise and Rim

MORTISING BITS—See Bits, Mortising

MORTISING CHISELS—See Chisels, Mortising

MOTORCYCLE HANDLE GRIPS—See Grips, Handle, Bicycle and Motorcycle

MOTORCYCLE LAMPS—See Lamps, Bicycle

MOTORCYCLE LUGGAGE CARRIERS—See Carriers, Luggage

MOTORCYCLE SIDE CAR HUBS—See Hubs, Automobile and Side Car

MOTORCYCLE TIRES—See Tires, Bicycle

MOTORCYCLE TOOL BOXES—See Boxes, Tool, Motorcycle

MOTORISTS' GAUNTLETS—See Gloves and Gauntlets, Motorists'

MOTORISTS' GLOVES—See Gloves, Motorists'

MOTORISTS' LEGGINGS—See Leggings, Motorists'

MOTORS, Boat, Row

Arrow Motor & Mach. Co., 727 Frelinghuysen Ave., Newark, N. J.
Caille Perfection Motor Co., 6210 Bd. Blvd., Detroit, Mich.
Evinrude Motor Co., 279 Walker, Milwaukee, Wis.
Ferro Mach. & Foundry Co., Hubbard Av. & E. 69th, Cleveland, O.
Gray Motor Corp., Mack Av. & Belt Line R. R., Detroit, Mich.
Henninger & Ayes Mfg. Co., Portland, Ore.
Kohan Mfg. Co., 241 S. Water, Milwaukee, Wis.
Miller Engine Co., 2231 N. Talisman Av., Chicago, Ill.
Olmstead (A. E.) & Sons, Pulaski, N. Y.
Racine Boat Co., Racine, Wis.
Wisconsin Mach'y. & Mfg. Co., 51st & Burnham Sts., Milwaukee, Wis.

MOTORS, Electric, Toy

Gilbert (A.C.) Co., New Haven, Conn.
H-K Toy & Henley Skate Co., Richmond, Ind.
Ives Mfg. Corp., Bridgeport, Conn.
Knapp Electric & Novelty Co., 511 W. 51st, New York, N. Y.
Lionel Mfg. Co., 45 E. 21st, New York, N. Y.
Weeden Mfg. Co., New Bedford, Mass.

MOULDS—See Molds

MOUSE TRAPS—See Traps, Rat and Mouse

MOVERS, Car

A. A. A.—See Atkins (E. C.) & Co.
Advance Car Mover Co., Appleton, Wis. "Badger," "Badger Jr.," "Ideal," "New Badger"
Appleton Car Mover Co., Appleton, Wis. "Atlas"
★For descriptive data of the above, see index on page 6
Atkins (E. C.) & Co., Indianapolis, Ind. "A. A. A."
Atlas—See Appleton Car Mover Co.
Badger—See Advance Car Mover Co.
Badger Jr. See Advance Car Mover Co.
Deere & Co., Moline, Ill. "Samson"
Fairmont Mining Mchy. Co., Fairmont, W. Va.
Handlan-Buck Mfg. Co., 210 N. 3d. St. Louis, Mo. "Victor"
Hilts Wrench & Mfg. Co., Richford, N. Y. "Never-Slip"
Ideal—See Advance Car Mover Co.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Michigan Truck & Lumber Co., Holly, Mich.
Never-Slip—See Hilts Wrench & Mfg. Co.
New Badger—See Advance Car Mover Co.
Rowell (G. D.) & Son, Appleton, Wis.
Samson—See Deere & Co.
Sheldon—See Stephens-Adamson Mfg. Co.
Sheldon—See Webster Mfg. Co.
Stanley Wks., New Britain, Conn.
Stephens-Adamson Mfg. Co., Aurora, Ill. "Sheldon"
Victor—See Handlan-Buck Mfg. Co.
Verona Tool Wks., 1st National Bldg., Pittsburgh, Pa
Webster Mfg. Co., 4520 Cortland, Chicago, Ill. "Sheldon"
Wentink Mfg. Corp., Menasha, Wis

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our information files complete and up-to-date by sending us your latest catalog or literature.

Inquiries for products which you make will be promptly referred to you.

There is no charge for this service. Your co-operation is earnestly requested.

Hardware Buyers Catalog and Directory
239 West 39th St., New York City

sport of tree-cutting, covering as it does, the seven ages of man, from the youth of Washington to the old age of Gladstone. One may picture the whilom Kaiser going forth with eager strides, battle-ax in hand, to slay the oncoming cohorts of the Allies as represented to his distorted mind by the serried ranks of the Dutch beeches, he being arrayed erewhile in the majesty of Dutch breeches, and as he "strafs" and "strafs" one may almost hear him mutter between clenched teeth, "take that and that and THAT," very much as one might chastise a most obstreperous boy in the woodshed!

But it a poor tree that does not grow both ways, and in Jobathan's parable (Judges IX, 8), we read: "The trees went forth on a time to anoint a King over them." One after another, however, all declined as being otherwise more usefully employed in growing roots and branches and so they finally were reduced to electing a bramble!

A fondness for the sport of tree-felling leads one naturally to an interest in forestry and to observation of the habits, forms and varieties of individual trees, their rate of growth, their relations to each other in their struggle upward to the light and air in densely covered areas, and further to their economic value and the specialization in the uses of the different kinds of wood.

Each species of tree in addition to general uses such as those of firewood, boarding, etc., has one or several special uses for which it is peculiarly fitted. These oftentimes are suggested on cutting down the tree through noting its relative hardness, its graining, mode and degree of splitting, etc. Thus the chestnut is selected for the framework of pianos and coffins to be veneered afterward with other woods which take a better polish. The willow is used in manufacturing black powder and artificial legs, the poplar for fruit-boxes, spools etc. Moreover, each tree is its own biographer, and the cross-section of even a long-time cut and decaying stump presents an open page to one who has learned to read it. From the bark and grain of the wood is to be told the species and from the number of concentric rings the age, for the growing tree must form a new ring each year. More than this, the thickness of the rings varies with the seasonal conditions of light, air-currents and moisture, so that under exceptionally favorable conditions the rings may be two or three times the average width. In illustration of this is the following incident: One day while crossing a recent clearing in a New England forest I noticed an exceptionally large stump cut quite close to the ground. Its bark and graining, porosity, etc., showed it to be the remains of a giant tulip-tree with 119 rings, indicating an unusual age for a forest tree of that species in that locality. But counting back thirty rings from the margin was one which was more than double the width of the others. This meant that in some manner in that year the tree had had access to more than its usual share of light, air-currents and moisture, and it was easy to guess that thirty years before the lot had previously been cut over. Coming down the mountainside I met the son of the old man that originally owned the forest. "Jim," said I, "when was that lot cleared?" "Oh, a couple of years ago." "Any one could see that," I said, "but when before then?" for, like almost all New England forests, it had been cut over several times. At first he could not recall, but suddenly he said: "It was the year my father bought the farm and the first thing he did was to clear that lot." "But when was that?" "Thirty years ago." And thus came the proof that the old giant had written its biography correctly.

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rencies like Japan, and certain South American states, there is no sign of better trade abroad." The cost of living remains high. In fact, it is about where it was a year ago. As Swiss money gets dearer, and German and Austrian currencies get cheaper, the competition of cheaply made foreign goods becomes more and more overpowering. "Thus the country stands isolated and cold-shouldered. There is a two-thirds gold reserve behind its notes, and actually gold is reappearing in common currency. But it is the gold which is its curse." The tale of 1921 now being published "makes sad reading":

In weight the export trade is little more than half that of 1913. Sales of silk goods have declined by 50% and of embroideries by 77%. The value of watch parts exported for the first nine months of the last year was 126,000,000 francs only, against 244,000,000 the year before. There is a noteworthy slump also in sales of machinery, cotton goods, straw goods, condensed milk, and even aniline dyes. Germany, Poland, Italy, Austria and the Balkan States, which were Switzerland's best customers, are wholly unable to purchase in large quantities, save the cheapest of Swiss products, and where Swiss articles come into competition with similar articles produced by these countries where wages are much lower, they have no chance.

The farmer is suffering equally with the manufacturer. During the war he made good money, since the country was thrown on its own resources, but when prices began to decline the farmer found he could no longer sell his live stock abroad, owing to the exchanges. An epidemic of foot-and-mouth disease combined with increase in agricultural wages to accentuate his distress, and soon he suffered from decline in the demand for milk from chocolate and condensed milk manufacturers, owing to their difficulty in maintaining sales abroad. Finally cattle and meat began to come into the country under favor of the exchanges. For a similar reason the wine-growers began to feel the competition of foreign wines.

German and French competition with Swiss articles in Switzerland itself grew so formidable that in the end Parliament had to abandon the traditional policy of a low tariff and the rates were raised and various imports were forbidden or restricted. It was hoped thus to preserve the home market for home producers, to check unemployment and to obtain more revenue for the Treasury. But the new rates had the effect of stopping the decline in prices also and thus prolonging the difficulties obstructing the export trade. Nor did they reduce unemployment.

Last January the "out-of-works" registered 97,000 out of a population of less than 4,000,000, having increased during the month by 7,500. In the metal industries alone there were nearly 30,000 men out of work, and in the cheap watch and jewelry trade 26,000. A further 50,000 people were working half-time, making 147,000 victims of the depression.

Government finances show a mounting deficit from year to year. It has been expensive to demobilize the Army, to keep down food prices and to relieve unemployment, and ever since 1914 the history of the state-owned railways has been one of "successive deficits despite repeated increase of rates."

How Large is Your Lawn?

Many people are surprised at the big saving they can make by caring for their lawns with power mowers. Even those with medium sized lawns can now afford to use a power mower.

The Ideal Junior for Medium Sized Lawns

The Ideal Junior is a small, moderate priced power mower designed and built especially for lawns where there is too much grass to cut conveniently with hand mower yet where the lawn is hardly large enough to warrant the purchase of a large machine.

It is a pleasure to operate. There are no levers and only two parts to adjust. You can cut close to the edges and around trees and shrubbery without trouble. The grass cut may be caught in a grass catcher or left on the lawn as desired.

[illegible] work. It cuts [illegible] and clips [illegible] under [illegible] cuts [illegible] and [illegible] hand mowing [illegible] with hand mowers.

The 30" Ideal for Extra Large Lawns

The 30" Ideal Power Mower is the best known and most widely used power lawn mower on the market. From coast to coast and in many foreign countries these machines are used by large estates, public parks, schools, railroads, golf clubs, cemeteries, golf parks, hospitals, etc.

They are wonderful labor-savers and keep the lawn in finest possible condition.

[illegible] to obtain speed and [illegible] lawn to [illegible] write us about them at once. You will be surprised at the [illegible] save you [illegible] money.

If you want our suggestion, tell us something about your lawn, its size, amount of shrubbery, etc. At least write us for our book which tells you how to give your lawn better care at less cost.

Ideal Power Lawn Mower Co.
R. E. OLDS, Chairman
420 Kalamazoo St. Lansing, Mich.
World's Largest Builders of Power Lawn Mowers
Chicago, 11 E. Harrison St. New York, 220 West 8s.

IDEAL Power Lawn Mowers
The Ideal rolls as it cuts—keeps the lawn smooth and firm

Rodd Floors of California Redwood Blocks

Clean—Odorless—Stay Smooth

THE usual objections to wood block floors include the pungent odor of coal tar and creosote, stickiness when warm and a tendency to shrink under heat and to swell and buckle when they're wet.

These objections are absolutely eliminated in Rodd Floors of California Redwood Blocks which are permeated during the growth of the wood with a *natural*, odorless preservative. Redwood blocks are absolutely free from pungent, artificial preservatives.

Redwood contains no pitch or resin—is not sticky.

Rodd Floors stay flat. Every Redwood Block is air seasoned, then kiln dried by the patented Leaver process. The floors are light in color, easy to keep clean and absolutely water tight.

While generally used in mills, foundries and factories, the cleanliness of Rodd Floors and their lack of odor makes them available for stores, offices, hospitals, schools, libraries, creameries, food warehouses, textile mills, etc., where the odor, the stickiness or the danger of swelling and buckling rules out other types of wood block floors.

Write today for booklet with specifications

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800 Century Building, Pittsburgh, Pa.
Eastern Contract Engineers for Redwood Block Floors
Manufactured by
The Pacific Lumber Co.
Redwood
The Largest Manufacturers and Distributors of California Redwood

Rodd Floor Engineering Service

The Rodd Company is prepared to undertake the complete installation of floors and materials. Our eight principal Rodd Specifications providing floors designed to meet every type of service will be sent to architects, contractors or those planning to build.

family on the rocky ledge. The day was oppressively hot, and there was the smell of smoke in the air, for there had been forest fires not far away. The drowsiness of the heat crept upon him, and he slept there by the spring, in the cool grotto where the water trickled over the rock and down into the hollowed-out cup. He was awakened by the sinister crackle of flames licking along dried limbs and clambering up hemlock trunks. He leaped to his feet and stood dismayed. For all about him the woods were aflame. Fire was creeping like a glowing serpent over the dried leaves on the ground, sucking them in, reaching up to grasp at huckleberry bushes and thorn trees. Sweeping up the trunks of pines and spruce trees, leaping from branch to branch, roaring in an abandon of destruction.

The hot flames scorched his face, and the smoke, driven in stifling hot eddies, drove him back into the meager shelter of the grotto. He threw himself flat on the ground and buried his face in the coolness of the spring. He dashed the water over his body, trying to shield it from the falling sparks and flaming cinders blown by the wind. In the brief moments when he raised his face from the hollowed-out cup, trying to catch a breath of air for his aching lungs, he saw wild things of the woods rushing past him, utterly terror-stricken, blind with panic, crazed by pain. A rabbit leaped past him with brown fur that was singed by the flames. It stopt irresolutely, turned, and with the fierce roaring of the flames close before it, hopped back into the smoking underbrush.

All thought of escape left him, Mac said. The heat became more intolerable. Burning brands fell on him, smoking, sizzling on his wet clothing, boring through to the skin. The smoke filled the air with a thick, gray haze, and his breath came in panting sobs. The only instinct left was to keep his face in the cool water, to draw his body as far into the grotto as he could.

And then, as he lay face downward, he felt a heavy body cross his, and raising his head, he saw the lady wildcat. In her mouth she was carrying one of her cubs, and it was half dead from the smoke fumes. She herself was burned, and there was a long, raw scar across her shoulder where a blazing branch had fallen. Her eyes were glazed and almost unseeing, and she staggered panting against the shelter of the rocky wall.

"Then," said Mac, "she looked at me—*she knew me.* And when I rose to my knees, having some sort of a thought that she was going to attack me, she dropt the cub right in front of me and stood there for just an instant, looking me straight in the eye. It was as if she was asking me to mind the baby a minute while she went for the other one. And she *did* go for the other little fellow, away over on that stone ledge of hers—she walked out into the flames just as if they weren't there—and she never came back."

They're All Wrong Somewhere. A former M. P. confessed that, altho he was always forgetting their faces and never remembering their names, he had no difficulty in being pleasant to his followers in the House.

"When I meet somebody in the lobby whom I don't know from Adam, and I see he expects me to know who he is, I take him warmly by the hand, look straight into his eyes, and say, 'And how is the old complaint?' I have never known it to fail."—*The Epworth Herald (Chicago).*

Thoroughbred! Swift ··· light in action · with the ease and grace that go to make up perfect form. And a wealth of stamina, · that reserve of endurance which a winner must always have.

It isn't a mere coincidence that the leaders in so many lines of business are using Royal Typewriters. You can't get very far in the great business race with less than the finest equipment.

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Royal Typewriter Building, 364-366 Broadway, New York
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"Compare the Work"

ROYAL
Trade Mark

TYPEWRITERS

This inhuman exhibition, which outrages all the finer feelings of civilization, can go on no longer!" It was at first supposed that the would-be interrupter was some reformer, but inquiry revealed that the outcry had burst from the heaving breast of no less a person than Painless Parker the Dentist.

The bell saved both men from defeat, and panting and weary they dropt the teeth and were wheeled to their corners for a rest of two hours. The referee was bitten six times when he tried to pry the teeth apart, and they fought for twenty minutes in the ring before they could be separated.

Round 3—When called by their room clerks for the third round both old men were considerably refreshed by their slumber, but both were in an ugly mood. It was evident that they had had bad dreams.

Dempsey at once created a sensation by rising from his wrecked chair and tottering toward the feeble Wills, with his right hand raised high in the air. The crowd cried: "The rabbit punch! The rabbit punch!" Wills, adjusting his glasses, saw the champion's rush just in time, and raised his right arm to parry the blow. But each had overestimated his strength. Dempsey lost his right leg in the Moving Picture riots of 1969, and his seconds, thinking he would never attempt to get out of his chair, had strapped his wooden leg on very carelessly. As he towered over Wills the artificial leg came off and he fell. His right hand descended. But the blow hit the artificial right arm of Wills, who lost his real arm in 1971, and knocked it loose from his shoulder. Both pugilists and the two artificial limbs rolled helpless on the floor, and the referee, after counting them all out, declared the battle a draw.

THE *MAYFLOWER* AGAIN BARRED FROM THE FISHERMEN'S RACE

OCTOBER brings another bout between fishing craft of the United States and Canada for the International Fisherman's cup; and once more, the Boston schooner *Mayflower*, specially designed and built by a syndicate to bring back the cup now held by Canada, has been barred from the races. Once more, also, the fishermen of Gloucester are rejoicing that the Boston boat will not be permitted to race, since this will probably give Gloucester the honor of trying conclusions with the Halifax fishermen for the championship of the North Atlantic. There is a good deal of hard feeling in Boston, where the syndicate which built the *Mayflower*, represented by W. Starling Burgess, the designer of the schooner, has been strongly stating its opinion that the Boston boat comes within the requirements. The Boston *Herald* remarks that an interesting point, in connection with the personnel of the board of trustees who barred the *Mayflower*, is that some of them are shareholders in the *Bluenose*, the Halifax boat which beat the best of the Yankee crafts last year and will endeavor to repeat within the next few weeks. The American Race Committee, after protesting against the barring of the *Mayflower*, has suggested that, as an alternative to the regular cup race, a "free-for-all" race be put on this year, on the chance that the terms under which the cup is raced

There is a true Aristocracy in all the works of man, some being flimsy and poor and others good and satisfying.

The Royal Typewriter is so called because it is Royal; Royal by the best right and title—that of Quality.

The true meaning of Aristocracy is "the rule of the best."

And in the only true Aristocracy—the Aristocracy of Achievement—the best is the Royal.

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364-366 Broadway, New York
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"Compare the Work"

ROYAL

TYPEWRITERS

The town itself has many interesting old houses, including the Hop Pole Inn, at which Mr. Pickwick dined on his memorable journey from Bristol to Birmingham, in company with Mr. Ben Allen and Mr Bob Sawyer

The old Norman Abbey Church is one of the stateliest buildings in the West County, and contains the tombs of many great men, including that of George, Duke of Clarence, who, condemned to death for high treason, was allowed to choose the form his end should take, and, in accordance with his choice, was drowned in a butt of malmsey wine—or so tradition says.

The trip down the Thames began in the upper reaches of the famous river, where weeds so filled the tiny stream as to make paddling almost impossible. The paddlers dropt down to Henley, famous wherever boat-racing has been heard of. Mr Evans writes:

Henley is a quiet little place for fifty-one weeks in the year; but for one crowded week in July it is the scene of the first river regatta in the world

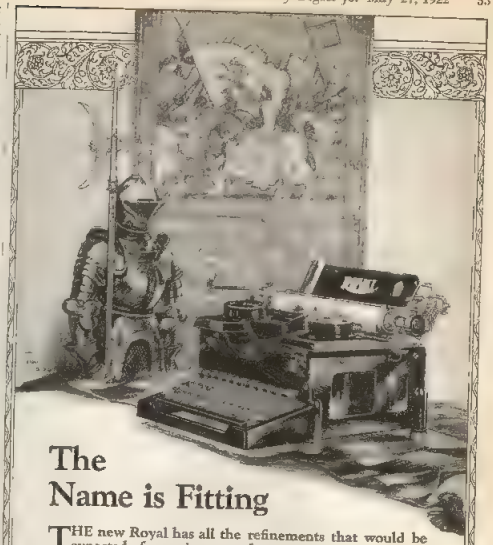
The whole scene is a glorious riot of color, health, and sunshine, while in the middle is the cool green water, broken only by the racing-boats coming swiftly up the straight, accompanied by an ever-growing roar from the partizans on either side. To be a member of the crew which wins the Grand Challenge Cup at Henley is every oarman's ambition and is a feat which entitles him to a place among the immortals

THE AMERICAN INDIAN'S WARPATH ON DIAMOND AND GRIDIRON

LOUIS SOCKALEXIS—a name, it will be observed, with a punch in it—lugged his Penobscot Indian war club into our national game, back in 1897, and started in "to whale the scalps off the paleface pitchers of the baseball world." About that time, also, the Carlisle Indian School began to pick twigs and leaves from the laurel wreath that adorned the "classic brow of the then exclusive Big Four of the college football world." Ever since that time, remarks Jim Nasium—who also has an interesting name if you say it as one word—in *Sporting Life* (Philadelphia), the American Indian has been making more noise in the sporting world than the small number of him still left in the American body politic would seem to justify. The *Sporting Life* writer recalls and ruminates:

Years after the plowshare of the paleface had wrecked the hunting grounds of his ancestor and shoved his hare back up against the wall, a reincarnation of the racial proclivities for craft and deeds of valor in open-air sports has arisen Phoenix-like from the lethargy of the passing years and the remnants of the dying race are blazing a trail through the favorite sports of the paleface.

Baseball annals contain no names that have achieved more prominence than those of Bender, the Chippewa; Myers, the Mission Indian, and Sockalexis, the Penobscot; the football world has never known such sensationally consistent teams as those representing the Carlisle Indian School, while the names of Hudson, Mt. Pleasant, Cayou, Pierce and the great



The Name is Fitting

THE new Royal has all the refinements that would be expected of an aristocrat of typewriters. Its title has been earned, not inherited. It is self-made. Though mute, its actions are unmistakably those of a thoroughbred. It can't help being somewhat exclusive, for masterly craftsmanship has given it true distinction.

There's a poise and dignity in the outward appearance of the new Royal that bespeak a fine character within. The cleanness and uniformity of its typing unconsciously suggest good taste, discrimination. Its marked quietness makes it a good companion for concentration. It has a respect for the feelings of others.

The Light-Running, Quiet-Running Royal combines the strength and durability of a fine machine with the responsiveness and accuracy of an instrument—the achievement that makes its name so fitting.

Our fifty-six page book, "The Evolution of the Typewriter", beautifully illustrated in color, will be mailed free on request. Address Department D.

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"Compare the Work"

ROYAL

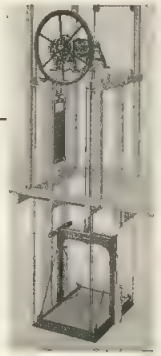
Light-Running *Quiet-Running*

There Is Profit for the Dealer in Sedgwick Dumb Waiters

You don't have to go out and sell them. Your regular customers—the contractors and builders who buy Builders' Hardware—are all live prospects. They are the very ones who install them. The simplicity and ease of erection of Sedgwick Elevators and Dumb Waiters cannot fail to appeal to them. Their value as an improvement and convenience in the home and other buildings cannot be questioned.

And you can sell them *without investment of a single dollar*—you carry no stock—simply sell from our Catalog and Service Sheets, which give complete information. From this data you can select a size and type to suit every need. We ship from stock direct to your customer and furnish him full instructions for erection.

It is no trouble for you—all you do is send the order and collect the profits. Do not overlook this sales opportunity. Write now for the details of our plan.



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INVALID LIFT

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—And as to the Products Themselves

The dealer is protected by a 5-year guarantee on every Sedgwick Dumb Waiter Machine. They are the product of 25 years' specialized experience, they have stood the test of service, they are well known to architects and builders. There is an outfit exactly suited to every requirement. There are:

Dumb Waiters of all kinds, Fuel Lifts, Gravity Lifts, Hospital Elevators, Automobile Elevators, Invalid Elevators, etc., etc.

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160 WEST 15TH STREET

NEW YORK CITY

STEINWAY

The Instrument of the Immortals

Richard Wagner

"A Beethoven Sonata, a Bach Chromatic Fantasie, can only be fully appreciated when rendered upon a Steinway Grand," said Richard Wagner in 1879.

"Only upon a Steinway can the works of the masters be played with full artistic justice," said Sergei Rachmaninoff in 1921.

The price of happiness

—*a thought for Christmas*

It is the way with art that those who know and love the best can find no happiness in that which is other than the best. And therefore, to own a piano is one thing—to own the Instrument of the Immortals is another. For when you buy a piano you do not buy a thing of wood and steel, of wires and keys—it is music that you buy—the greatest of the arts.

Once your fingers touch the keyboard of a Steinway—once you know the eloquence of its response—once you drink the beauty of its tone—for you henceforth there can be no other piano.

Think! The Steinway is the piano over whose keyboard Richard Wagner dreamed his visions and enriched the world. It is the Voice with which Liszt, Gounod, Rubinstein and their immortal fellows spoke to mankind.

It is the piano of Paderewski and the piano on which Rachmaninoff and Hofmann are playing their way to immortality to-day. From the day of its coming it has been the chosen instrument of the masters and the lovers of great music.

You who find happiness in the music of the Immortals—surely you can find happiness only in the Instrument of the Immortals. And the price of this happiness is less than you may think. Steinway & Sons and their dealers strive constantly to make it so easy that there is no thought of burden. For it is the Steinway ideal to make the finest piano that can be made, and to sell it at the lowest cost and upon the most convenient terms that can be made.

Would you not be happier for possession of a Steinway? And could there be a time more fitting for its coming than this Yuletide of the year?

There is a Steinway dealer in your community or near you through whom you may purchase a new Steinway piano with a cash deposit of 10 per cent, and the balance will be extended over a period of two years. Used pianos accepted in partial exchange.

Prices: $875 and up—plus freight

There are several Steinway styles and sizes, but only one Steinway quality

STEINWAY & SONS, *Steinway Hall, 109 E. Fourteenth Street,* New York City

CURRENT EVENTS

FOREIGN

April 12.—Announcement is made that an earldom has been conferred on Sir Arthur James Balfour, former British Premier and at present Lord President of the Council.

The Prince of Wales arrives in Tokyo on a visit to Japan

April 13.—The Reparations Commission informs the German Government that if it does not take the necessary measures to put German finances in order the Commission will be obliged on May 31 to exact penalties.

A parley between Republicans and Free Staters results in a formal statement expressing the hope that there will be no further interference with public meetings in Ireland.

Sir Ross Smith, the Australian aviator who, with his brother, Sir Keith Smith, made the first flight from England to Australia in 1919, is killed in a test flight in England.

April 14.—Mutineers of the Irish Republican Army seize the building of the High Court of Justice in Dublin and the adjoining hotel.

April 15. The Russian delegates to the Genoa Conference ask for the immediate payment of 2,000,000,000 gold francs, as part of the debt they allege the Allies owe Russia because of the backing given by them to Denikin, Kolchak and Wrangel. Premier Lloyd George replies that Russia must first recognize her own liabilities.

"America has broken the back of the biggest famine in the world's history," is the Easter message sent to America by Walter Lyman Brown, European Director of the American Relief Administration in Russia.

April 17.—Michael Collins, head of the Irish Free State Provisional Government, narrowly escapes assassination at the hands of six men, and himself wounds one and captures another of his assailants.

Dr. Walter Rathenau, German Foreign Minister, informs the Genoa Conference that Russia and Germany have signed a separate treaty of peace and commerce, reciprocally renouncing reimbursement of war expenses and war damages and immediately resuming consular and diplomatic relations.

Hazrat Mohani, President of the All-India Moslem League, is arrested at Cawnpore, India, on a charge of sedition.

April 18.—Backed by Poland and the Little Entente, the Allies, in a joint memorandum, notify the German delegates to the Genoa Conference that because of their treaty with Soviet Russia they will not be permitted to take further part in conference proceedings when relations with Russia are under discussion.

Jemal Azmyk Bey, former Governor of Trebizond, and Bahaeddin Chakir, a leading member of the Turkish committee of Union and Progress, are slain in Berlin by Armenians.

DOMESTIC

April 12.—A resolution proposing endorsement of the Jewish national home in Palestine, in accordance with the Bal-

More Mileage at Less Fuel Cost

STROMBERG SERVICE STATION

For Any Car Any Size—Old or New

THE foremost item to consider in the upkeep of your car, is fuel consumption. Are you getting every ounce of energy from the gas you buy? There is a way, the New Stromberg Carburetor makes a slave of the gas—gets a "full day's work" from every drop—makes a gallon go farther. It means actual economy through the saving of fuel.

A substantial saving, a noticeable increase in efficiency of operation and additional power is evident where the Stromberg is installed.

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New STROMBERG Does it! CARBURETOR

UNIVENT

"LIVE OUTDOORS—INDOORS"
(TRADE MARK)

Exhaust vitiated air from the room

Fresh heated air from the window

Not only Better Ventilation, but Lower Building Costs

The Univent system is your Ideal ventilating system. It is as simple and more positive than opening wide the windows—but without the cold and dangerous draft.

The Univent draws air directly from outdoors, heats it and thoroughly diffuses it throughout the room.

The Univent heating and ventilating system does not use uncleanable ducts or flues. Thus, more sanitary ventilation is provided and building costs are lowered, and space is saved.

Each room is heated and ventilated, as a unit by itself. Open windows or other conditions in other parts of the building do not affect its perfect operation.

Only the Univent in the room in use, need be operated. It is not necessary to operate the whole ventilating system to ventilate two or three rooms. This means economy. It is the most flexible system known. Insures fresh, pure air, perfectly diffused.

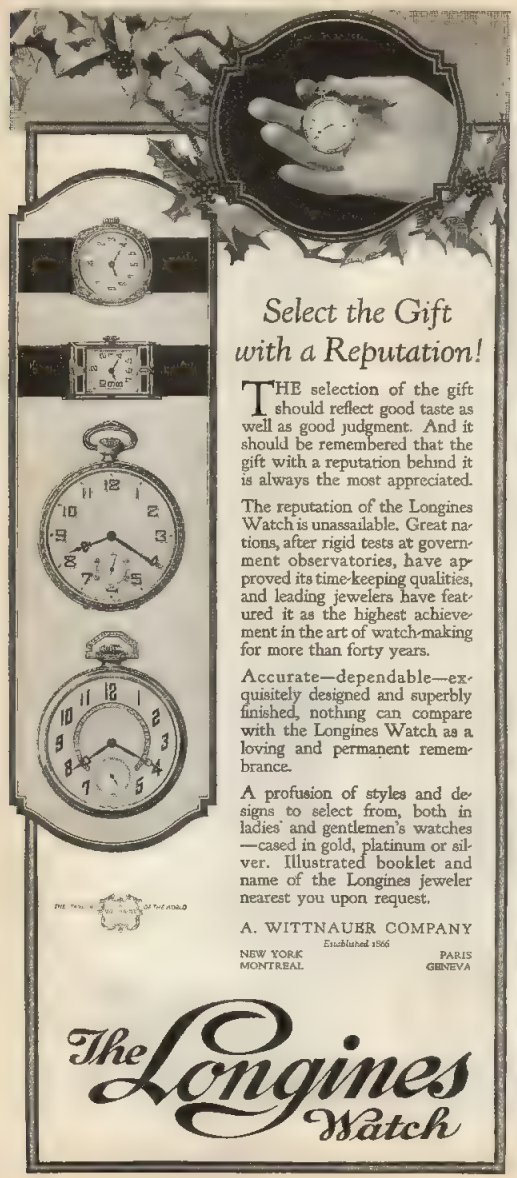
The Univent system is designed for schools and all buildings requiring mechanical ventilation. It may be installed in old or new buildings.

School board records show as high as 33⅓% increase in mental efficiency of pupils and 1/3 decrease in sick leave after good ventilating systems have replaced inferior ones.

If you are truly interested in better ventilation, write for free copy of our 32-page illustrated book—"Univent Ventilation."

Note to Architects and Engineers—If you will send your request on your professional letterhead, you will receive a copy of our special 72-page Architects' and Engineers' edition—"Univent Ventilation."

THE HERMAN NELSON CORPORATION, Dept. L, *Moline*, Ill.



PERSONAL GLIMPSES
Continued

Pennsylvania State Constabulary, organized by Major John C. Groome in 1905, still in existence, having done splendid work from the beginning. The next to be formed was the New York State Police, in May, 1917. Now Michigan, West Virginia, Colorado, Massachusetts, New Jersey, all have State police or are organizing it, and the movement is growing throughout the United States.

Life is a strife—a battle—and certain basic principles of combat, which have been developed through centuries of military study, must be applied to it just as to every other kind of warfare.

These principles apply to individuals who are fighting for personal success, and apply equally well to organizations which are fighting for successful development. So, too, they should be adhered to in the administration of a successful police force.

These military principles are nine in number.

(1) There must be one supreme commander.

(2) There should be one simple direct plan.

(3) The force must not be dispersed.

(4) If a detachment is sent for a particular purpose, enough should be sent to accomplish the mission and return intact to the main body.

(5) A reserve must be kept.

(6) Reserves must be used properly and at the proper time.

(7) Fire superiority must be maintained.

(8) Flanks must be protected at all times.

(9) Constant reconnaissance must be maintained.

These principles have come down through centuries, and are the basis of every successful command and of every successful organization, either civil or military.

The main object of any police force, according to the writer, is to prevent crime rather than to find the guilty person after the crime has been committed. However, if a crime has been committed, the surest way to prevent the commission of others is to find and arrest the perpetrators right away. Good detective work, in Mr. Chandler's opinion, consists in paying attention to the obvious, natural clues. Complications may be introduced in "detective stories," but generally, in real life, the simpler the clue, the more likely it is to lead to results. He writes:

There is a saying, "Truth is sometimes stranger than fiction," but on the other hand, fiction is much more complicated than truth. In a detective story it is always the most unlikely person who commits the crime. The author covers up his trail with far greater care than a real criminal does, and the reader must guess the outcome by ignoring most of the evidence. In real detective work it is usually the most likely person who is the guilty one, altho finding him may be difficult enough.

For example, the principals in a hold-up near Syracuse were found and arrested by tracing carefully the whereabouts of a Ford car painted bright yellow. Who would have thought that criminals would

THE SPICE OF LIFE

WHEN THE BABY OF *THE DIGEST* COVER GREW UP

In the upper left-hand corner is a copy of the baby picture which appeared on the cover of the March 16 issue of THE DIGEST. It had the strange effect of starting the pencils going in all parts of the country and the other pictures represent the ideas of various subscribers of what the baby may look like a few years from now. In all of the designs the original baby head, it will be noticed, has been cleverly utilized to produce different effects. Nothing, said or pictured here, of course, is intended to encourage aspiring young artists to start a contest in caricaturing DIGEST covers!

Preparedness.—"Can you fight?"

"No!"

"Come on then, you scoundrel!"—*Kasper (Stockholm).*

One Editor Owns Up.—Don't forget that the advertisements often contain the most important news in the paper.—*The Paonian (Paonia, Colo.).*

Seeing Things.—Some one in America claims to have seen a blue caterpillar. There are bound to be these troubles so long as prohibition drives people to home-made whisky.—*London Opinion.*

Both in the Swim.—"My daughter sprang from a line of peers," said the ardent father.

Well," said her feller, "I jumped off a dock once myself."—*The Naval Monthly.*

Years of Discretion.—"I asked you to send me young lettuce."

"Yes, ma'am. Wasn't it young you got?"

"Young? It's almost old enough to wash and dress itself."—*Boston Transcript.*

Mixed Feet.

A tree toad loved a she toad
That lived in a tree;
She was a 3-toed tree toad,
But a 2-toed tree toad was he.
The 2-toed tree toad tried to win
The she toad's friendly nod;
For the 2-toed tree toad loved the ground
That the 3-toed tree toad trod;
But vainly the 2-toed tree toad tried—
He couldn't please her whim;
In her tree toad bower, with her V-toe power,
The she toad vetoed him.
—*The Van Raalte Vanguard.*

Why Not?—The name of the Los Angeles suburb where the film stars star is Holly-wood. It is not yet intended to alter it to Alcohollywood.—*London Opinion.*

Two Definitions.—Optimist: Sick man learning to play a harp.

Pessimist: Sick man learning to shovel coal.—*N. E. A. Service (Cleveland).*

No Comeback.—Carpentier is said to have taken to writing poetry. That's the best of being a heavy-weight boxer—you can do practically what you like, with impunity.—*London Opinion.*

We Take Ours Plain.—Americans are angry because their Ambassador attended the Royal wedding in court dress. They are so truly refined that they can not understand our preference for breeches of decorum.—*London Opinion.*

No Return Trip.—Sending out a show by wireless has this advantage: If it gets stranded the actors don't have to walk a thousand miles to get back to New York.—*Charleston News and Courier.*

When One Claim Adjuster Fainted.—Out in Wyoming a train ran over the cow of a Swede farmer named Ole Olesen. The claim adjuster went out to the home of Ole to adjust the claim likely to be made by Ole for the loss of his cow.

"Well, Mr Olesen," said the claim adjuster, "I came out to see you about your cow being killed on our track. What are you expecting to do about it?"

"Vell," said Ole stohdily, "I ban a poor man, an' I can not do much because I ban so poor, but I will try to pay you five dollars."—*Judge.*

No Chance.—"What were your father's last words?"

"Father had no last words. Mother was with him to the end."—*Wag Jag.*

Keeping Them In.—DOORKEEPER to late-comer at village concert)—"No, madam, I dare not open the door during the singing. Half the audience would rush out!"—*London Opinion.*

Agreeable.—"If I lend you ten dollars, what security will you be able to give me?"

"The word of an honest man."

"All right, bring him along, and I'll see what I can do for you."—*Banther.*

The Helpful Recruit.—"You told me to file these letters, sir," said the new yeoman.

"Yes," returned the officer.

"Well, I was just thinkin' that it'd be easier to trim 'em with a pair'of scissors."—*Mississippi Bulletin.*

Wife to the Rescue.—YOUNG DOCTOR—"My Jove! Mary, this sitting around waiting for a practice is getting on my nerves."

DOCTOR'S WIFE—"Couldn't we invite the neighbors to dinner and give them something that would disagree with them?"—*London Opinion.*

Competitors.—Two little English girls were quarreling over the success of their fathers.

"My father can preach better than yours because he is a bishop," said the first.

The second little girl could not answer her back, but she suddenly recovered and said: "Well, anyhow, we've got a hen in our yard which lays an egg every day."

"That's nothing," said the bishop's daughter; "my father lays a corner-stone every week."—*The Van Raalte Vanguard.*

THE LEXICOGRAPHER'S EASY CHAIR

To decide questions concerning the correct use of words for this column, the Funk & Wagnalls New Standard Dictionary is consulted as arbiter

Readers will please bear in mind that no notice will be taken of anonymous communications.

"L. B. U.," Cleveland, O.—"(1) I have been informed by a Case School graduate that it is just as proper to say 'I will *learn* you' as it is to say 'I will *teach* you.' Is this expression considered correct, and is it now being taught in the public schools? (2) Is it proper to say 'I et (ate) my dinner?'

(1) Dr Vizetelly in his "Desk-Book of Errors in English" says:—"*Learn, teach:* Once *learn* was good English for *teach*, and signified both the imparting as well as the acquiring of knowledge Examples of this use may be found in Shakespeare (*Romeo and Juliet*) and the Book of Common Prayer, but general modern usage restricts *learn* to the acquiring and *teach* to the imparting of knowledge." (2) The correct pronunciation of the word *ate* is "et" according to the New STANDARD DICTIONARY, the New English (Oxford University) Dictionary, the Century, and Stormonth. The pronunciation 'eight'" was that advocated by Noah Webster and Joseph Worcester in the first half of the nineteenth century (1828-1829)

"E. D. P.," Durham, N. C.—"Recently I heard some one use this expression concerning an article of food served for dinner: 'These *cabbage* are good.' Upon being corrected, he defended his use of the term by saying that a farmer will say of his crop 'My cabbage are a failure' and the grocer, upon opening a barrel of cabbage, will say 'These cabbage are defective.' I contend that both the farmer and the grocer are incorrect as well as the person who used the original expression. Will you please settle the matter for us?"

The correct plural of *cabbage* is *cabbages*. *Cabbage* is not one of the nouns that retain the singular form unchanged in the plural like *deer, fish* and *sheep*. A farmer may say, "My cabbage are a failure," and a grocer, "These cabbage are defective' exactly as many folks who know better say "Yep," "Yah,' and "Yis" for *YES*, but that does not make the use correct. The word *cabbage* dates from the fifteenth century. Its first use in the plural dates from 1440 when the word was spelled *cabaches*. In the "Merry Wives of Windsor," Shakespeare (act I, sc. 1, line 124) uses "Good worts? good cabbage!" *Heads* of cabbage is an old use, dating from 1620, but here the pluralized "heads" does not call for "cabbages." To-day the tendency of educated persons is to use *cabbages* when the plural is meant, and "heads of cabbage" when quantities are considered, but the farmer and the grocer both would say, "A hundred head of cabbage. As to cabbage served at table the correct form to use is, "*This cabbage is good.*"

"C. W. V.," Norfolk, Va.—"In ordinary business correspondence, when quoting a communication comprising two or more paragraphs, should the quotation-marks be shown at the beginning of *each* paragraph as well as at the end of the last paragraph, or would it be sufficient and at the same time strictly proper to show quotation-marks only at the beginning of the first paragraph and at the end of the last paragraph of the quoted matter?"

When the matter quoted is composed of successive paragraphs, each paragraph is preceded by quotation-marks, but the closing marks are placed at the end of the last paragraph only.

"H. W. C.," High Hill, Mo.—The correct pronunciation of the word *cerebrum* is *ser'i-brum—e* as in *get*, *i* as in *habit*, *u* as in *but*.

"W. K. T.," Livonia, La.—"Kindly inform me if it is correct for a child to answer an older person as follows: 'Yes, Ma'am' and 'No, Ma'am'? I argue that is only for servants to answer those above their level and a child should say: 'Yes, Mother,' 'No, Miss Jones,' always calling the name of the person. Am I right?"

In the writer's grandfather's time it was the practise, when addressing one's parents, to use "Sir" and "Madam" or "Ma'am" as a sign of respect. In those days a letter to one's father began "Honored Sir"; to-day it begins "Dear Dad.

The form to which you refer is now generally out of use except among country folks who teach their children to follow the example set them by their parents—that is all.

Wireless News For Tool Users

Here's the easy way to keep your costly tools working smoothly, metal parts rustless, wooden handles shining like new. Lubricate frequently with 3-in-One. It penetrates bearings at once; works out old grease and dirt; provides the right kind of lubrication to minimize friction. Won't gum or dry out.

3-in-One

The High Quality Tool Oil

also prevents rust and polishes the wooden handles Edged tools especially, need 3-in-One protection before putting away, because the least rust on the cutting edge destroys its keenness 3-in-One won't evaporate and leave the metal unprotected.

There's only one 3-in-One, the most widely used bottled oil in the world. Ask for it by name.

Sold at all good stores in 1-oz., 3-oz. and 8-oz. bottles; also in 3-oz. Handy Oil Cans, the most convenient package for tool users Non-refillable, with a screw top nozzle to prevent spilling.

FREE: Generous sample and Dictionary of Uses. Request both on a postal.

THREE-IN-ONE OIL CO. 165 LE. Broadway, New York

F389

their necessity to glorious gain" after they have put away their dreams. To the others will go the easy prize of life—success, which has become a somewhat odious onion nowadays, chiefly because we so often give the name to the wrong thing. When you reach the evening of your days you will, I think, realize—with, I hope, becoming cheerfulness—that we are all failures, at least all the best of us. The greatest Scotsman that ever lived wrote himself down a failure:

The poor inhabitant below
Was quick to learn and wise to know
And keenly felt the friendly glow
And softer flame.
But thoughtless follies laid him low
And stained his name.

Perhaps the saddest lines in poetry, written by a man who could make things new for the gods themselves.

"If you want to avoid being like Burns there are several possible ways. Thus you might copy us, as we shine forth in our published memoirs, practically without a flaw. No one so obscure nowadays but that he can have a book about him. Happy the land that can produce such subjects for the pen."

The rector held up a few sheets of paper, a last message from Captain Scott, written just before his death in the Antarctic, and said that the explorer's end was an example of courage at its best. He continued:

"Courage is the thing. All goes if courage goes! The greatness of a people is founded on their moral principles; but what says our Johnson of courage: 'Unless a man has that virtue he has no security for preserving any other.' Be not merely courageous, but light-hearted, also gay. Some people have odd ideas of what gaiety is. There is an officer who was the first of our army to land at Gallipoli. He was dropt overboard to light decoys on the shore, so as to deceive the Turks as to where the landing was to be. He pushed a raft containing those in front of him. It was a frosty night, and he was naked and painted black. Firing from the ships was going on all around. It was a two hours' swim in pitch darkness. He did it, crawled through the scrub to listen to the talk of the enemy, who were so near that he could have shaken hands with them—lit his decoys and swam back. He seems to look on this as a gay affair. He is a V. C. now, and you wouldn't think to look at him that he could ever have presented such a disreputable appearance. Would you? (Colonel Freyberg.)

"Another piece of advice—almost my last. For reasons you may guess I must give this in a low voice. Beware of McConnachie. When I look in a mirror now it is his face I see. I speak with his voice, and you all know now what a voice it is. I once had a voice of my own, but nowadays I hear it only from far away, a melancholy, lonely, lost little pipe. I wanted to be an explorer, but he willed otherwise. You will all have your McConnachie's luring you off the high road. Unless you are constantly on the watch, you will find that he has slowly pushed you out of yourself and taken your place. He has rather done for me. I think in his youth he must somehow have guessed the future and been fleggit by it—flichtered from the nest like a bird—and so our eggs were left, cold. He has clung to me, less from mischief than for companionship. I half like him and his penny whistle. With all his faults he is as Scotch as peat. He whispered to me just now that you elected him, not me, as your rector."

TIFFANY & Co.

PEARLS JEWELRY SILVERWARE

DEPENDABLE

NEW YORK - PARIS - LONDON

COOL, refreshing breezes from Robbins & Myers Fans provide complete comfort when summer's heat descends upon offices that are prepared for the season. For a quarter of a century, tireless, silent R&M Fans have provided relief from midsummer temperatures. Look for the R&M symbol—the sign of a breeze—on the guard of the fan you buy. Good dealers everywhere carry a complete line of Robbins & Myers Fans in all types and sizes.

R&M Motors are made for all services; sizes range from 1/40 to 100 horsepower, inclusive

THE ROBBINS & MYERS COMPANY
Springfield, Ohio Brantford, Ontario

Robbins & Myers
Fans *and Motors*

of the soul and with a maximum and abnormal development of bodily interests. It would seem that mothers are neglectful to an extreme degree of the modesty and virtuous grace of their daughters, which, after all, are the virtues which true men love and admire. Men are forced to look up to avoid unseemly display by the modern woman, and how she can avoid realizing this fact is a marvel in femininity.

Ignorance of their own natures, believes President A. Mackenzie Meldrum of Spokane University, is at the bottom of much of the trouble. He writes

Our young people do not know themselves, nor have they learned the sacred purpose of their being. One of the most alarming facts in the world to-day is man's ignorance of self. The home, the school, the press, the platform and the pulpit must unite in combating this noisome pestilence that is spreading a sable cloud of shame disease and death over every community in the land; sowing seeds of moral, mental, physical and spiritual degeneracy, to be reaped by our children in a harvest of national decay.

A CRITIC OF DRESS

"Too many of our young women are improperly clad," declares C. B. Riddle, the editor of *The Christian Sun*, official organ of the Southern Christian Convention

We are so anxious to teach the young of the nation the various branches of academic knowledge, rules of etiquette, and forms of good society, that plain talks to the boys and girls seem to be divorced from the family curriculum. This is a deplorable mistake, against which I inveigh and offer my most solemn protest; for I verily believe it is more important for our sons to know themselves, than to know Plato and Virgil: and it is more imperatively necessary for our daughters to know themselves than to know the histories of ancient Greece and Rome.

"Manners are superficially better and fundamentally worse," remarks President Harry Morehouse Gage of Coe College, Cedar Rapids, Ia. "There has been a pronounced moral sag. Things that are done now are in marked contrast to the vaulting moral enthusiasm of three or four years ago. Generally speaking, there is not enough restraint. Freedom is not balanced

The Touring Car

A New Ideal in Motor Car Value

A new ideal has come true—plainly and unmistakably. Oakland deliberately planned to make the New Oakland the finest light-weight six that advanced engineering, highest grade materials, and expert workmanship could build.

This is borne out in the rugged Oakland chassis; in the remarkable efficiency of Oakland's own overhead-valve six-cylinder engine; and in the many features which the New Oakland shares with much higher priced cars.

Crowning this splendid mechanism are the five new and distinctive Oakland bodies—of a beauty, comfort and fine equipment unequalled anywhere in their price range.

These things prove Oakland's leadership in light-weight six manufacture. Oakland is proving that leadership to an evergrowing number of Oakland owners by its reliable performance, backed by the 15,000 mile guarantee.

See this fine car! Test it thoroughly! Compare it with other cars! The New Oakland Six—the light-weight six of the General Motors group—is by far the finest and most desirable automobile in its price class.

OAKLAND MOTOR CAR COMPANY
Division of General Motors Corporation
PONTIAC, MICHIGAN

The New

PRICES AT FACTORY

Chassis	$ 895	Sport Car	$1295
Roadster	1120	Coupe	1045
Touring Car	1145	Sedan	1285

Oakland Six

WRENCHES, Ratchet (Continued)

Geiman Wrench Corp., 138 W Washington, Chicago, Ill.
★For descriptive data of the above, see index on page 6
Goodell-Pratt Co., Greenfield, Mass.
★For descriptive data of the above, see index on page 6
Greene, Tweed & Co., 109 Duane, New York, N. Y. "Favorite."
Guthard (Edgar C.) Co., 361 E. Ohio, Chicago, Ill.
H. & G.—See Eastern Machine Screw Corp.
Hawkeye—See Maytag Co.
Hexall See Sedgley (R. F.), Inc.
Irving Mfg. & Tool Co., 157 Chambers, New York, N. Y.
Keystone Mfg. Co., Buffalo, N. Y.
La Rock—See Mechanical Specialties & Mfg. Co.
Lane (Will E.) Unique Tool Co., 422 S. Dearborn, Chicago, Ill.
Lovejoy Tool Works, 319 W. Ohio, Chicago, Ill.
Lowell Wrench Co., Worcester, Mass. "Multiplex."
Lutz Co., Gray's Ferry Rd & 31st, Philadelphia, Pa.
Maytag Co., Newton, Ia. "Hawkeye."
Mechanical Specialties & Mfg. Co., 1461 Webster Av., Chicago, Ill "La Rock."
Miller Wrench Co., Syracuse, N. Y. "Comet."
Mossberg (Frank) Co., Attleboro, Mass. "Auto-Cle."
Multiplex—See Lowell Wrench Co.
Parmelee—See Walworth Mfg. Co.
Pratt & Whitney Co., Hartford, Conn.
Richards-Wilcox Mfg. Co., Aurora, Ill. "Wizard."
Robert Wrench Co., 71 Murray, New York, N. Y.
Sedgley (R. F.), Inc., 2311 N. 16th, Philadelphia, Pa. "Hexall"
Silver King—See C. M. B. Wrench Co.
Starrett (L.S.) Co., Athol, Mass.
Stephens—See Burgess-Norton Mfg. Co.
Syracuse Wrench Co., Syracuse, N. Y. "Champion," "Yale."
Triangle B—See Billings & Spencer Co.
Wadden-Worcester, Inc., Worcester, Mass.
Walworth Mfg. Co., 98 Pearl, Boston, Mass. "Parmelee"
★For descriptive data of the above, see index on page 6
Williams (J.H.) & Co., 59 Richards, Brooklyn, N. Y
Wizard—See Richards-Wilcox Mfg. Co.
Yale—See Syracuse Wrench Co.
Yonts (G.H.) & Co., Meadville, Pa.

WRENCHES, Reamer—See Wrenches, Tap and Reamer

WRENCHES, Rim—See Wrenches, Automobile

WRENCHES, "S"

Armstrong Bros. Tool Co., 300 N Francisco Av., Chicago, Ill.
★For descriptive data of the above, see index on page 6
B. & C.—See Bemis & Call Co.
B. & S.—Billings & Spencer Co.
Barcalo Mfg. Co., Buffalo, N. Y
Baxter—See Greene, Tweed & Co.
Bemis & Call Co., Springfield, Mass. "B. & C."
Billings & Spencer Co., Hartford, Conn. "B. & S."
Bonney Forge & Tool Works, Allentown, Pa.
Buffum Tool Co., Louisiana, Mo. "Swastika."
Carll—See Robinson (M. W.) Co.
Cushman Co., Champaign, Ill.
Edelmann (E.) & Co., 461 E. Ohio, Chicago, Ill.
Enderes, Inc., Albert Lea, Minn.
Erie Tool Works, Erie, Pa.
Forged Products Co., Conway Bldg., Chicago, Ill. "Gibraltar"
Geiman Wrench Corp., 138 W. Washington, Chicago, Ill.
★For descriptive data of the above, see index on page 6
Gibraltar—See Forged Products Co.
Greene, Tweed & Co., 109 Duane, New York, N. Y. "Baxter."
Herbrand Co., Fremont, O.
Keystone Mfg. Co., Buffalo, N. Y. "Westcott"
Kilborn & Bishop Co., New Haven, Conn.
★For descriptive data of the above, see index on page 6
Klein (Mathias) & Sons, 3200 Belmont Av., Chicago, Ill.
National Malleable Castings Co., 7705 Platt Av. S. E., Cleveland, O.
Niagara Metal Stamping Corp., 200 10th, Niagara Falls, N. Y.
★For descriptive data of the above, see index on page 6
Oswego Tool Co., Oswego, N. Y.
Red Devil—See Smith & Hemenway Co.
Robinson (M.W.) Co., 296 Broadway, New York, N. Y. "Carll."
Smith & Hemenway Co., 101 Colt, Irvington, N. J. "Red Devil"
★For descriptive data of the above, see index on page 6
Swastika—See Buffum Tool Co.
Westcott—See Keystone Mfg. Co.
Whiteley Malleable Castings Co., Muncie, Ind.
Williams (J.H.) & Co., 59 Richards, Brooklyn, N. Y.

WRENCHES, Screw

Allen Wrench & Tool Co., Providence, R. I.
Always Reliable—See Barns (Otto) Co.

Hardware Buyers

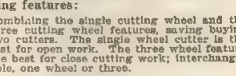
will be interested in knowing about

TRIMO TOOLS

In the first place we are illustrating them and are giving some of their winning features below.

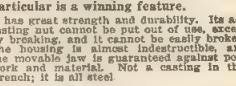
The Trimo Pipe Cutter has several winning features:

Combining the single cutting wheel and the three cutting wheel features, saving buying two cutters. The single wheel cutter is the best for open work. The three wheel feature the best for close cutting work; interchangeable, one wheel or three.



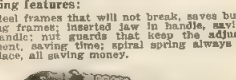
The Trimo Monkey Wrench; its every particular is a winning feature.

It has great strength and durability. Its adjusting nut cannot be put out of use, except by breaking, and it cannot be easily broken. The housing is almost indestructible, and the movable jaw is guaranteed against poor work and material. Not a casting in this wrench; it is all steel



The Trimo Pipe Wrench has four winning features:

Steel frames that will not break, saves buying frames; inserted jaw in handle, saving handle; nut guards that keep the adjustment, saving time; spiral spring always in place, all saving money.



The Trimo Chain Wrenches also have their superior features:

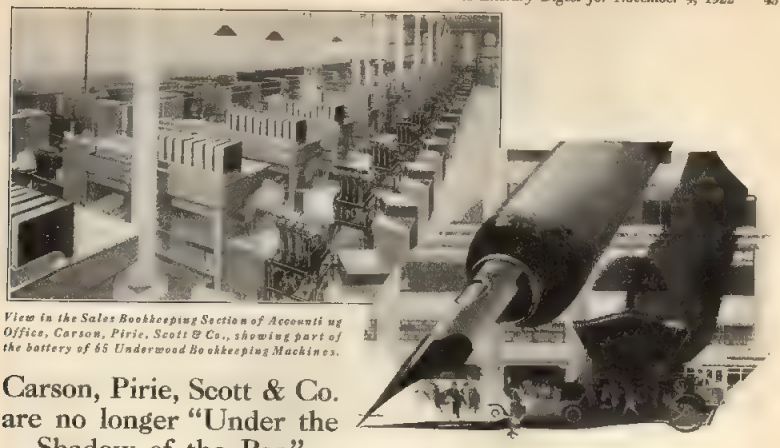
Strength and durability are fundamental with them, are readily adjustable to pipe and are guaranteed against poor material and workmanship; indeed all Trimo Tools are so guaranteed. The chain pocket being in the handle the strain comes on the handle instead of on the jaws.

Made by

Trimont Manufacturing Co.

Roxbury, Boston, Mass.

Incorporated 1888



View in the Sales Bookkeeping Section of Accounting Office, Carson, Pirie, Scott & Co., showing part of the battery of 65 Underwood Bookkeeping Machines.

Carson, Pirie, Scott & Co. are no longer "Under the Shadow of the Pen"

TODAY there are 65 Underwood Bookkeeping Machines in the offices of Carson, Pirie, Scott & Co. They are there because this great mercantile house has always followed the policy of giving its customers a maximum of service and protection—and of administering its own business under the most modern and economical methods.

In spite of the fact that they maintain thousands of active credit accounts, they close their books by about noon of the first business day of each month, and have their bills ready to mail between two and four o'clock on the afternoon of the same day.

Since the completion of their mechanical accounting system, they have not been out one cent in any month on their trial balances.

Keeping books on Underwood Bookkeeping Machines enables Carson, Pirie, Scott & Co. to:

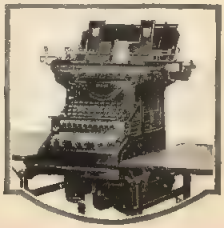
1. Prove that all items are correctly posted as to amounts, on both ledgers and bills.
2. Prove that all items are accounted for, and that none are omitted from either ledgers or bills.
3. Prove that old balances are properly picked up on both ledgers and bills, and that new balances are correctly computed.
4. Prove that debit items are entered in debit columns and credit items in credit columns.
5. Prove that the items have been posted and billed to the correct accounts.
6. Eliminate all trial balance troubles.
7. Eliminate the labor of footing thousands of bills at the end of each month, as under their plan the bill is ready to render immediately after the last entry has been made.

(We have prepared a report showing the operation and results of the methods used in the office of Carson, Pirie, Scott & Co. This report will be sent on request.)

The Underwood Bookkeeping Machine can lift "The Shadow of the Pen" from any business, large or small. The coupon below will bring one of our representatives who will gladly give expert advice on any accounting problem.

UNDERWOOD TYPEWRITER CO., INC., Underwood Building, N. Y. *Branches in all principal cities*

UNDERWOOD *Bookkeeping* MACHINE



UNDERWOOD TYPEWRITER CO., INC., Underwood Building, New York

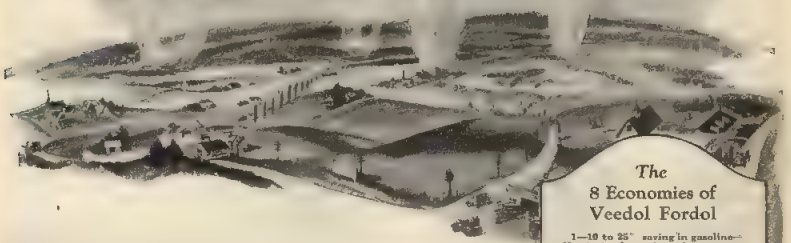
☐ Send Underwood Bookkeeping Machine representative from nearest branch office.

☐ Send a copy of booklet, "Taking Industry out of the Shadow of the Pen."

L. D.

Name_____ Address _____

Success!



Ford Owners *acclaim* Veedol Fordol

The Ford owners of America were first told the story of Veedol Fordol on August 26th. On September 16th—three weeks later—161 carloads containing over 10,000 barrels of this new economy oil for the Ford automobile had been shipped to every section of the country to supply the tremendous demand. And this initial demand has been increasing daily.

Veedol Fordol was certain of immediate success because four years of exhaustive laboratory and road tests *proved conclusively that it mastered the unique and complex lubrication problems of the Ford engine and transmission.* With the use of Veedol Fordol, the Ford further enhances its reputation for economical operation.

Give Veedol Fordol a trial. That's what one corporation operating a fleet of 900 Ford cars did and adopted Veedol Fordol. That's what big city and government departments did—and adopted Veedol Fordol. They discovered for themselves the economies of Veedol Fordol established by Tide Water engineers.

Read the "Eight Economies of Veedol Fordol" listed at the right.

A trial will convince you, as it has already convinced thousands, that Veedol Fordol in your Ford car means a new motoring satisfaction *plus many new economies.*

Veedol Fordol is on sale at all dealers who display the orange and black Veedol sign

TIDE WATER OIL SALES CORPORATION
11 Broadway, New York

Veedol oils and greases are sold throughout the world

The 8 Economies of Veedol Fordol

1—10 to 25% saving in gasoline—Hundreds of tests have demonstrated that Veedol Fordol conservatively saves 10% on gasoline consumption. 25% to 33⅓% savings have been developed repeatedly

2—Eliminates costly "chatter" Veedol Fordol lengthens the life of Ford brake and transmission bands by properly lubricating them. "Chatter," a result of faulty lubricants, is *entirely eliminated*

3—10 to 25% saving in oil—The savings in oil consumption run from 10% to 25%. The exact savings depend upon the mechanical condition of the engine and the lubricant formerly used.

4—10 to 25% less carbon Veedol Fordol forms on an average from 10% to 25% less carbon in the Ford engine cylinders. The exact savings depend on the mechanical condition of the engine and the lubricant formerly used Less carbon means more power and fewer repairs.

5—Resists heat and friction—Veedol Fordol possesses to a super degree the famous characteristic of all Veedol oils to resist heat and friction

6—Increased ability to coast—With average lubrication a Ford will only coast down steep hills. With Veedol Fordol coasting is possible down the slightest grades.

7 Resists fuel dilution—Even with poor fuel, Veedol Fordol maintains its power-seal and lubricating value longer than other oils Result more miles per gallon of gas and per quart of Fordol.

8—Fewer repairs—Because Veedol Fordol masters the lubricating problems of the Ford power plant the result is a hitherto unknown freedom from engine vibration and repair bills

Send for Veedol Fordol booklet

VEEDOL FORDOL

The new economy oil for Fords

The VALUE of TIME
for instance, in making good smoking tobacco

FOLKS, Time can be either a good servant or hard master, dependin' on its use.

THERE'S tobacco, for instance. You can't crowd Nature when the tobacco's growin' an' you can't rush time when the tobacco's agein'.

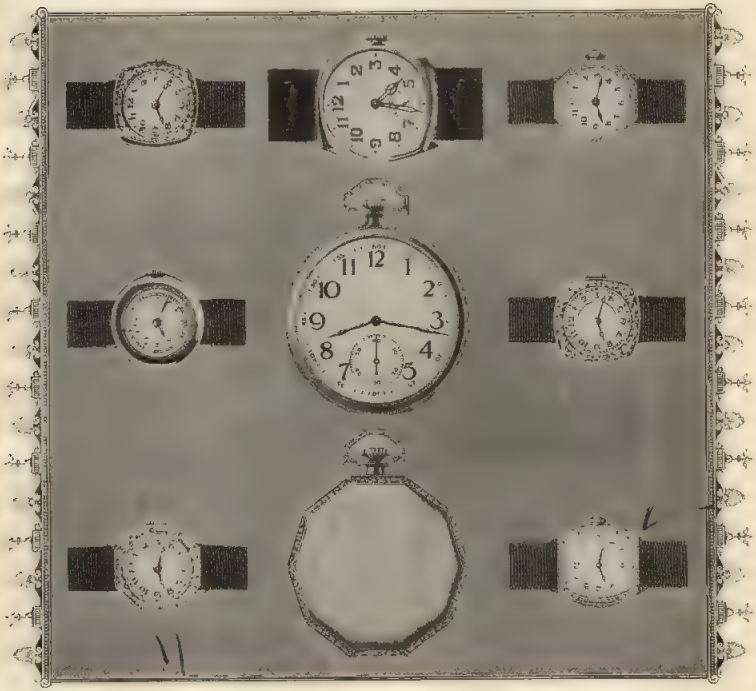
SO WE take that good ole Burley that ripened slowly in the Kentucky sun and we store it in wooden hogsheads for *two years*. Time makes it mild an' sweet as *nothing else* can.

PUTTIN' quick-sand in the hour-glass won't shorten the day's work, an' quick methods won't mellow tobacco. Stick to Velvet, the aged in the wood pipe tobacco.

Velvet Joe

Wadsworth Cases

MAKE WATCHES BEAUTIFUL



Portraying in precious metals the Wadsworth ideals of symmetry, grace and permanence

WHEN you choose a watch movement in a Wadsworth Case you are giving that movement not only a dress of distinction but the finest protection it can have.

The perfect workmanship in Wadsworth Cases and their exquisite beauty are the work of artists and master workmen who have fashioned cases for the leading watch movements for more than thirty years. Many of the most popular designs with which you are acquainted are Wadsworth creations.

THE WADSWORTH WATCH CASE COMPANY
Dayton, Ky., suburb of Cincinnati, Ohio
Cases to cover the leading watch movements

There are six quick sales in this new WALWORTH display carton

The genuine WALWORTH Stillson Wrench, as you know, is now reaching into a great new market as a household utility tool. It is being steadily advertised in the Saturday Evening Post as "The Handy Helper in Every Home."

The 10 inch Walworth Stillson is now packed in a new handy box for your household trade.

There are six of these boxes in the new Walworth carton. Get this practical display on your counter. It will sell the idea of a household wrench to your customers—when they are buying in your store.

Your Jobber Can Supply You!

TRADE MARK
STILLSON
REGISTERED U.S. PAT. OFF.

If this diamond mark isn't on your wrench, Walworth quality isn't in it.

"The Handy Helper in Every Home." In a BOX—for your customer's convenience. In a CARTON to reach your widest market.

WALWORTH MANUFACTURING COMPANY
Boston, Mass.

New York Philadelphia Chicago Seattle Kewanee, Ill. Portland, Ore.
Plants at Boston, Mass., and Kewanee, Ill.
Walworth International Company, New York, Foreign Representative.

The materials which make up your telephone and where they come from

1	Rubber	8	Lead	15	Platinum
2	Silk	9	Copper	16	Mica
3	Cotton	10	Zinc	17	Copal
4	Linen	11	Nickel	18	Shellac
5	Wool	12	Aluminum	19	Tin
6	Coal	13	Gold	20	Asphaltum
7	Iron	14	Silver		

They searched the earth so you could talk

Gold! In your telephone? Why, of course. And also coal, and eighteen other things hidden away under its modest coat of black.

But what kind of gold, coal, rubber, silk, wool? And why from such far-flung places? Just because all cotton isn't alike, and because it is a long journey from the nearest platinum mine to Chicago, where your telephone is made.

Searching the markets of the world is part of the Western Electric Company's work—to find materials of high quality and to make from these an instrument that is a marvel of precision and ruggedness.

Your telephone today, sensitive to your voice, alert to be of service, was made possible only through 45 years' relentless meeting and raising of standards in its manufacture

Western Electric

Since 1869 Makers of Electrical Equipment

THE LEXICOGRAPHER'S EASY CHAIR

In this column, to decide questions concerning the correct use of words, the Funk & Wagnalls New Standard Dictionary is consulted as arbiter

Readers will please bear in mind that no notice will be taken of anonymous communications.

H. H. H.," Cincinnati, O.—"Are both spellings, *kidnapper* and *kidnaper* correct?"

Yes: the dictionary, however, prefers the form with the one "p"—*kidnaper*, as the main stress is on the first syllable.

"S. J. H." Carmel, N. Y.—"Please settle the following: Did or did not Colonel Theodore Roosevelt lead the assault of American troops up San Juan Hill in the Spanish-American War?"

The *New International Encyclopedia* under the article *Theodore Roosevelt* gives the following: This regiment [the First United States Volunteer Cavalry] popularly known as the Rough Riders Roosevelt (colonel since the action at Las Guasimas) led in a famous charge up San Juan Hill near Santiago, Cuba."

"J. L. V." Brooklyn, N. Y.—"Is it incorrect to use the expression 'Those kind of books'? If so, why?

Since *kind* is singular, it should not be preceded by the plural *those*. Say, "This kind" or "that kind." "*That* kind of apples is best," not "*Those* kind of apples are best." "*That* kind of books is the correct form. But *this* may be used instead of *those* in collective expressions, such as "*this* ten dollars." Shakespeare, however, wrote, "*these* kind of fools" (*Twelfth Night*, act i, sc. 5), *these* kind of knaves (*King Lear*, act ii, sc. 2), and "*these* are a kind of men" (*Othello*, act iii, sc. 3). Professor L. C. Carson ("English Composition," p. 126) rules that before the plural of *kind* the plural demonstrative should be used, as, *these kinds* of apples.

C. F. K. Berkeley, Calif.—"Is it not incorrect to say 'each and every one' as many writers and public speakers do? Is not 'each one' the same as 'every one' and the expression 'each and every one' the same as saying 'each and each one'? For instance, to say 'each and every one must do his duty' would be a stronger sentence if and 'every one must do his duty,' would it not, or 'each one must,' etc.? Please give your opinion of this question."

Johnson in his "Alphabet of Rhetoric" says—

As to the correctness of the expression *each and every* (per se), some critics hold that it never should be used. Certainly it is pleonastic in the great majority of instances in which it occurs, but there are a few rare cases in which it serves the purpose of first attributing the person or object both to each individual and [illegible] collectively, but using *every* as a more emphatic inclusive than *all*. An Ohio judge is reported as saying: "The evil results of this verdict will be felt in this community long after *every one* of these jurymen are in their graves." The last four words should be *as in his grave*.

Safety First—"How is it that you were arrested this way, Captain [illegible] asked the sick old lady.

"Because I always quit down in front, madam," replied the weary captain, turning on his heel.—*Brown Jug*.

Our Flexible Language

This freak poem, we are informed by the lady who sent it in, was a favorite with Oliver Wendell Holmes:

Frolicked in the early spring a miss
Here, free with not a thought amiss.
Later in the season came a mat-
Hanging round the maiden then they
missed her.
Fell in love perhaps they didn't mean to,
But papa objected and 'twas mean, too,
So ere that marry he would never let her
So she disobeyed him to the letter,
And the master and the merry maiden
Fled and found a justice and were made 'un.
—*Boston Transcript*.

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BOYS

WE want you to own a pair of Winchester skates. They are good skates designed for speed, action and hard service.

The frame is supported by a bridge girder that strengthens and stiffens the whole skate. The ball-bearing rolls are light-running and especially hardened to give long wear on asphalt and concrete. We have had all sorts of boys skating continuously for days on these skates over rough pavements to test them out thoroughly before offering them to you. We believe they are right, and want you to own a pair.

There are 4000 stores in the United States which sell Winchester Skates and other new products. Look for this sign on the window: "*The Winchester Store.*"

WINCHESTER REPEATING ARMS CO.
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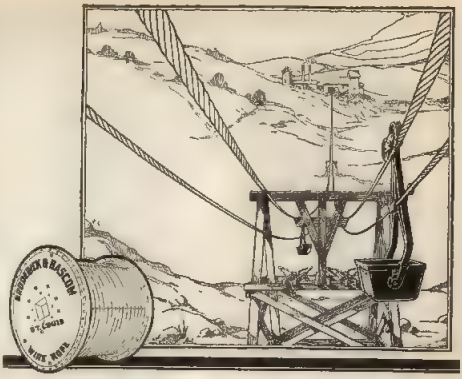
where there were no twigs on which to settle. He crossed the yard, rising at first, and then settling until he came to a wisp of timothy, where, ever so daintily, his minute claws encircled the stem and he came to rest. Later in the day, as strength came to him, he rose from his lowly station and joined his brother in the top of the pear-tree.

TURNING GOATS INTO GOLD

"DO goats eat clothes and things?" a woman asked of a man who raises goats in Atlanta, Georgia, and he replied: "They eat clothes, but not 'things.' A goat has the best digestive system in the animal kingdom, and is the one creature known that can digest cellulose. Because clothes contain a wood cellulose from their cotton fiber, goats will eat them. Goats can also digest pine needles, but their ability to Fletcherize hardware is very much over-estimated." This gentleman, Mr. H H. Turner, an attorney, some years ago bought a goat. It was first a necessity, and then it grew to be a family pet, and we are told by Victoria Iler in the Atlanta *Journal*, "its kids and his kids became chums." Later on he bought more goats, and devoted his spare time to studying goatology, and the writer exclaims:

> Imagine an Atlantan living in an apartment house, and owning twenty goats—the only pure-bred goats east of the Mississippi and south of Ohio! That really isn't as incongruous as it sounds, for H H Turner owns the apartment house in which he lives, which has a two-acre "backyard and plenty of space even for his high-brow "Toggenburgs."
>
> Mr. Turner is very much interested in goat-raising as a new industry for Georgia, and to sound out Georgia farmers on the subject, he printed a letter in the *Market Bulletin* of the State Agricultural Department, offering to give away some of his graded Toggenburg goats for breeding purposes. He received a flood of answers! Most people didn't know there were that many goats in the State, even—let alone farmers who raised 'em.
>
> "There are many graded Angora goats raised in Georgia for their wool," said Mr Turner. "But I am anxious to see our farmers raise milch goats. They are much more profitable," and he gave us some information sent out by the Government's Bureau of Animal Husbandry which conducts an experimental "goat" station at Beltsville, Maryland.
>
> In the first place, the goat's milk, according to chemical analysis, comes nearer to mother's milk than that of any other animal, and this gives it a high commercial value. Goat's milk is more nutritious than cow's milk, and contains two per cent. more cream. It is more readily digested. It does not sour easily. It is purer because a goat is not as susceptible to disease as a cow.
>
> In California goat-raising has developed into a great industry. There are goat dairies that have become ultra-profitable throughout the State. Goat butter sells at a higher price than cow butter, yet it has a lower rate of manufacture.
>
> Government figures show that a farmer can maintain a small herd of ten goats (maximum number) for the cost of upkeep of one cow! Good milk goats give from five



Tracks of Wire Rope

Two parallel wire cables supported at intervals by skeleton-like towers. These are the "tracks" of a modern Aerial Wire Rope Tramway upon which the conveyors glide between loading and unloading points.

Wire rope also supplies the "pull" that moves the conveyors far over-head, where mud and snow and sleet can't interfere with steady operation.

Being designers and builders of Aerial Tramways, this company knows the peculiar requirements of track and pulling cables. Here Yellow Strand performs, as it always performs, wherever there's heavy work to do in mine, quarry, logging—everywhere—lowering upkeep costs by putting off renewals.

The strand that's painted yellow is your guide to wire rope quality and economy. Follow the Yellow Strand.

We also manufacture all standard grades of wire rope for all purposes, and have been since 1875. There is an authorized dealer in every locality. Write us for the name of the one nearest you.

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B204

"A new way to go to bed"

The new Faultless SleepCoat will be a welcome addition to your wardrobe. Cool, comfortable and exceedingly smart. The SleepCoat is a pantsless pajama, tailored like a coat, knee-length; open from neck to hem, with convertible high or low soft rolled collar, some with Raglan sleeves

The SleepCoat is made of attractive silk-like fabrics, in white and colors. Guaranteed fast vat dyed. Individuality in designs that have made Faultless Nightwear the choice of men who appre iate comfort and exclusive style. Attainable in a variety of materials of merit at a wide range of prices. For lounging, Trousers can be supplied to match the SleepCoat

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THE ▾ SPICE ▾ OF ▾ LIFE

All In.—LACONIC TOGHEY—"Information given out here?"

TERSE CLERK—"It has."—*Boston Transcript.*

Fashion Note.—Women's hats, it is said, are to be larger. And the milliner's bill, no doubt, will be an affair of extra sighs.—*London Opinion.*

The Kind We Sometimes Eat.—FOR SALE—Two thoroughbred blue Antedeluvian roosters. W. J. T———.—*Classified Ad in The Tribune-Republican, Meadville, Pa.*

A Recipe.—To avoid a colorless existence, keep in the pink of condition, do things up brown, treat people white, be well read, and get out onto the golf green under the blue occasionally.—*Boston Transcript.*

Atonement. Mr. Graham Bell has devised an apparatus for condensing air into water, to be used by travelers in the desert. Mr. Bell is the inventor of the telephone, and he seems to be endeavoring to make amends for his early indiscretion.—*London Opinion.*

We Live to Learn.—"I never knew till I got a car," said Bishop Eightly, "that profanity was so prevalent."

"Do you hear much of it on the road?"

"Why," said the Bishop, "nearly everybody I bump into swears dreadfully."—*Philadelphia Inquirer.*

A Lingering Hate.—COMEDIAN—"Poor old Harry got the bird properly last night. They hissed him right off the stage. Then I came on. The audience quietened down and listened to my first number with every attention. Then, just as I was giving 'em my patter, *blowed if they didn't start hissing old Harry again.*"—*Punch (London).*

Jogging His Memory.—It was a thrilling story that McGregor had to tell.

"I had abandoned all hope," he said. "As I sunk for the third time my past life seemed to rise before me in a series of grim, realistic pictures."

A murmur of sympathy rolled from the lips of listening friends; but just as McGregor was preparing to resume, McTavish interrupted him sharply and hopefully.

"And did you happen to notice," he asked, "a picture of me lending you a fiver in the autumn of 1919?"—*The Continent (Chicago)*

In Bad Company.—When a vote is to be taken on some important measure, a Congressman who can not be present "pairs" himself with some Representative who would vote "aye" to the Congressman's "nay," or *vice versa.* Once a Democratic member of the House received a letter from an active politician of that party in his district, calling attention to the fact that he was reported in the *Congressional Record* almost every day as being "paired" with a Republican. "I don't doubt your loyalty to the party," read the letter; "but I think the boys would like it a good deal better if you paired with Democrats instead of Republicans."—*Harper's Magazine.*

In the Rough.—"Sir, I have all the gems of English literature in my library."

"Yes, and I notice that they are uncut gems."—*Gaboon.*

Our Post-War Forest. Great family trees in America are few, but it is probable that many new ones were started during the war by grafting.—*Baltimore Sun.*

A Contingent Worker.—"Ah wants a day off, boss, ta look for a job faw mah wife."

"And—if she doesn't get it?"

"I'll be back to-morrow."—*Phœnix.*

Preparedness. A Mexican revolutionary, treated in a New York hospital, had twenty-two bullets extracted from his body. It is said that he had to have this done in order to make room for more when he returned home.—*Punch (London).*

Current Humor. Once there was a conductor who was not satisfied with his wages, and left. The next day while looking for a job he happened to step on the third rail Did he get killed? No. He was a non-conductor.—*Science and Invention Magazine.*

Getting Him Going.—FATHER (from upstairs)—"Helen, isn't it time for the young man to go home?"

YOUNG MAN—"Your father is a crank."

FATHER (overhearing)—"Well, when you don't have a self-starter a crank comes in mighty handy."—*Boston Transcript.*

Reprisals.—WIFE—"Where, might I ask, have you been till this hour of the morning?"

HUSBAND—"W—why, round at the c—club, of course, o—o—considerin' of a strike."

WIFE—"Well, you go back to your club and consider it a lock-out!" *London Mail.*

Enthusiastic Convert.—Dr. James Melvin Lee, head of the Department of Journalism in New York University, said during the course of an after-dinner speech: "The average person, as well as the average nation, is blind to his own faults. An American woman, a leader of the S. P. C. A. was soliciting subscriptions for the animals' cause in Madrid. 'Will you subscribe, sir?' she asked a Spanish grandee.

"'I'll do better than that, madam,' said the grandee graciously. 'I'll get up a bull-fight for your society's benefit.'"—*The Argonaut (San Francisco).*

Efficiency First.—An applicant for work at the Ford plant asked a veteran Ford employee if it were true that the company was always finding methods of speeding up production by using fewer men. The veteran replied:

"Most certainly. In fact," he continued, "I just had a dream which illustrates the point. Mr. Ford was dead and I could see the pallbearers carrying his body. Suddenly the procession stopt. Mr. Ford had come to life. As soon as the casket was opened he sat upright, and, on seeing six pallbearers, cried out at once: 'Put this casket on wheels and lay off five men.'"—*Wall Street Journal.*

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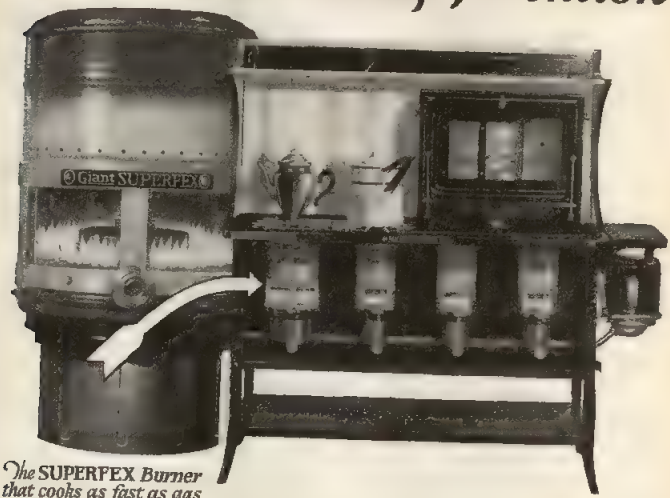

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To accommodate the SUPERFEX Burners and the Giant SUPERFEX, we have constructed a stove that for beauty, strength, smartness, convenience, completeness and all-around satisfaction, sets a new standard. Now on exhibition for the first time America over. Visit your dealer.

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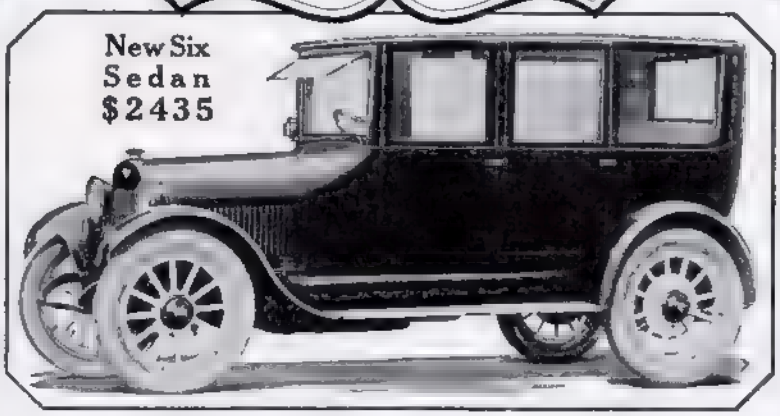
REO



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All are of the same quality too—Reo quality—which is to say the body-craft and finish are of the highest order of excellence.

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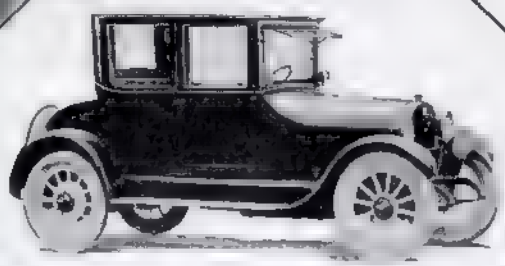
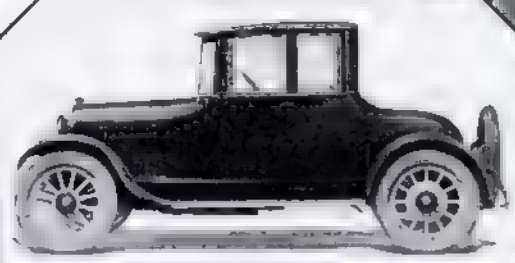
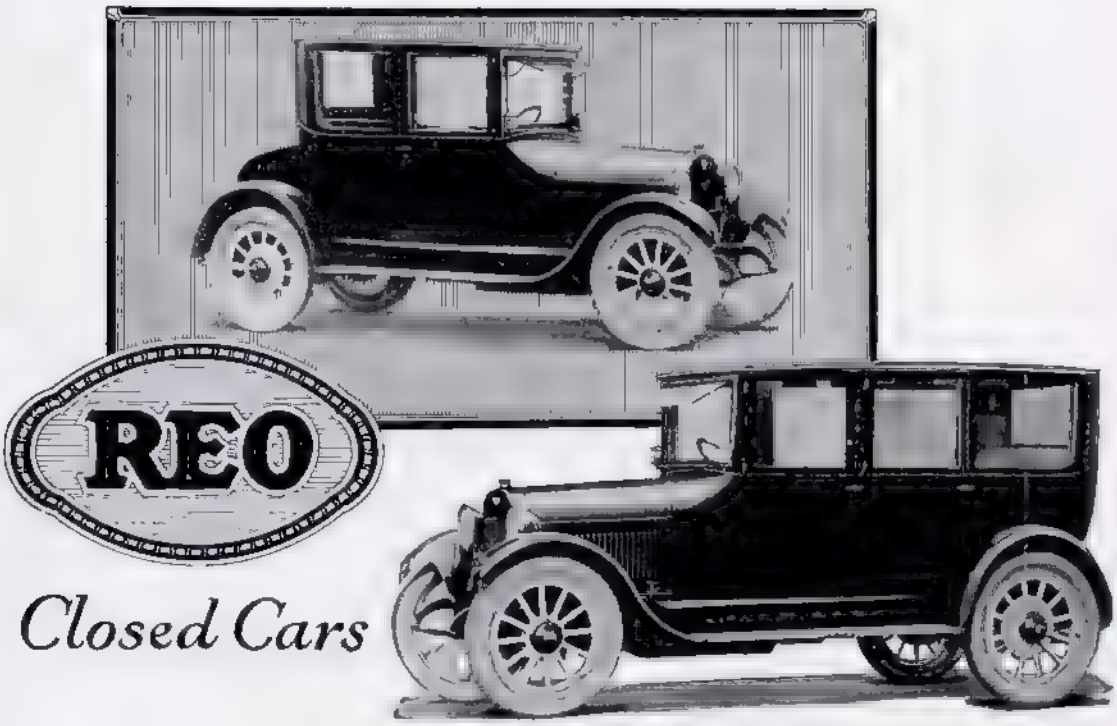


New 4-Passenger Coupe—$2355



New Business Coupe $1895



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Concealed excellence—beauty in unseen as well as visible places—is a Reo attribute.

If you will look not only at the surface, but beneath—and if you will insist upon knowing the materials that go into the making of the various closed cars shown you, you will find that few cars at anywhere near Reo prices have all-aluminum bodies.

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No other material will receive and maintain the finish—will resist rust—will be so free from "drumming" sounds—as aluminum.

And no body can be as good as a Reo body unless the construction be, as Reo bodies are, full aluminum.

If you will study this body question—insist first on the best materials and construction, and then compare prices, you will be more than ever surprised to learn that you may have a car that is the last word in quality and fine coach work, and yet at a price that is so much less than you had expected to pay.

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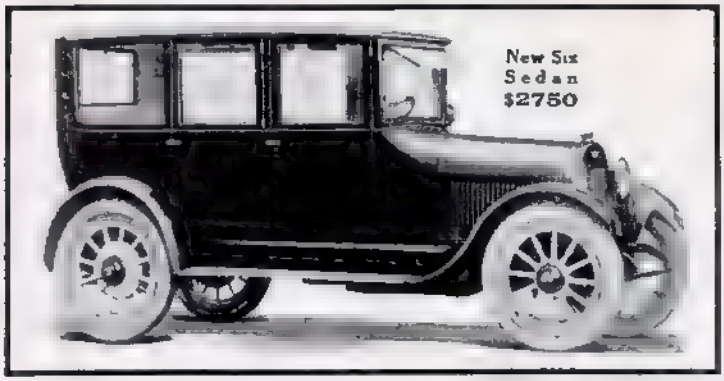

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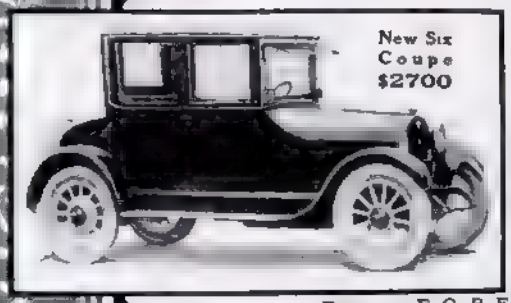
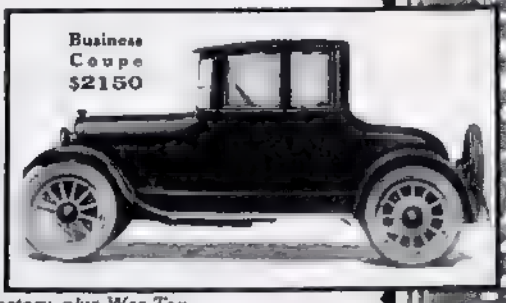
And—the new Business Coupe is just what its name implies—built for everyday use of the professional and business man, who must "live in his car" and who appreciates that dependability and that quality that are—Reo.

Reo Motor Car Co., Lansing, Mich.

Reo Motor Car Co., of Canada, Ltd., St. Catharines, Ont.





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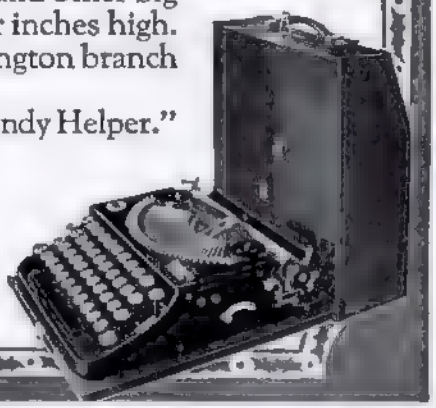

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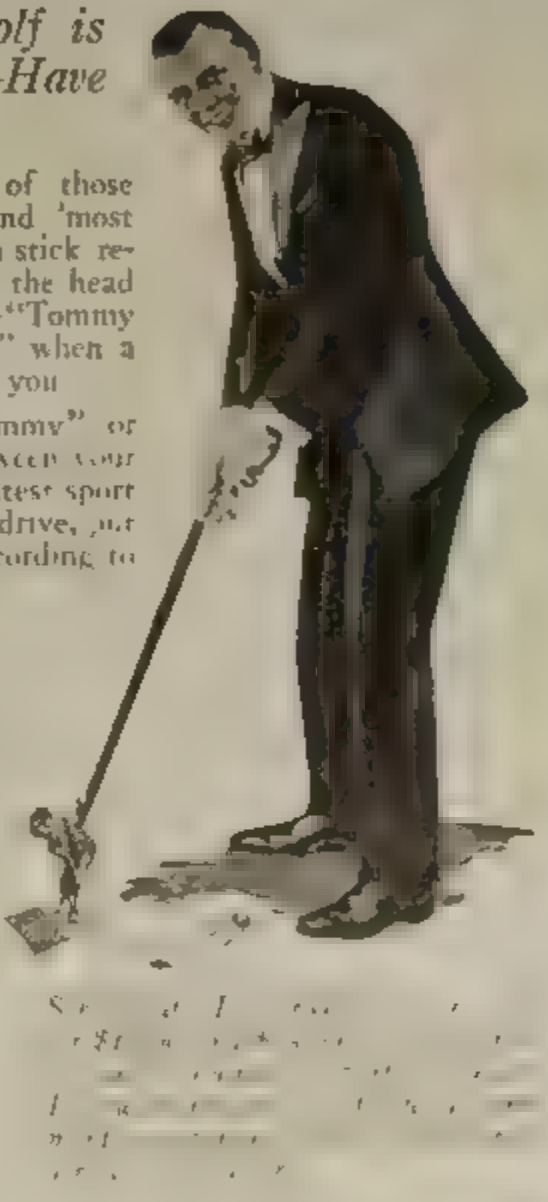
Schoenhut's Indoor Golf is the rage of the hour—Have you taken it up yet?



Schoenhut's Indoor Golf is one of those games that everybody can play and 'most everybody does. It is played with a stick resembling a golf stick, but in place of the head there is a miniature golfing figure—"Tommy Green" when a man; "Sissie Lofter" when a woman—who makes your strokes for you.

You control the action of "Tommy" or "Sissie" through a lever located between your first and second finger. It's the greatest sport imaginable. "Tommy" and "Sissie" drive, put or approach, just as in real golf, according to the kind of club you put between their fingers and according to your skill in operating the lever.

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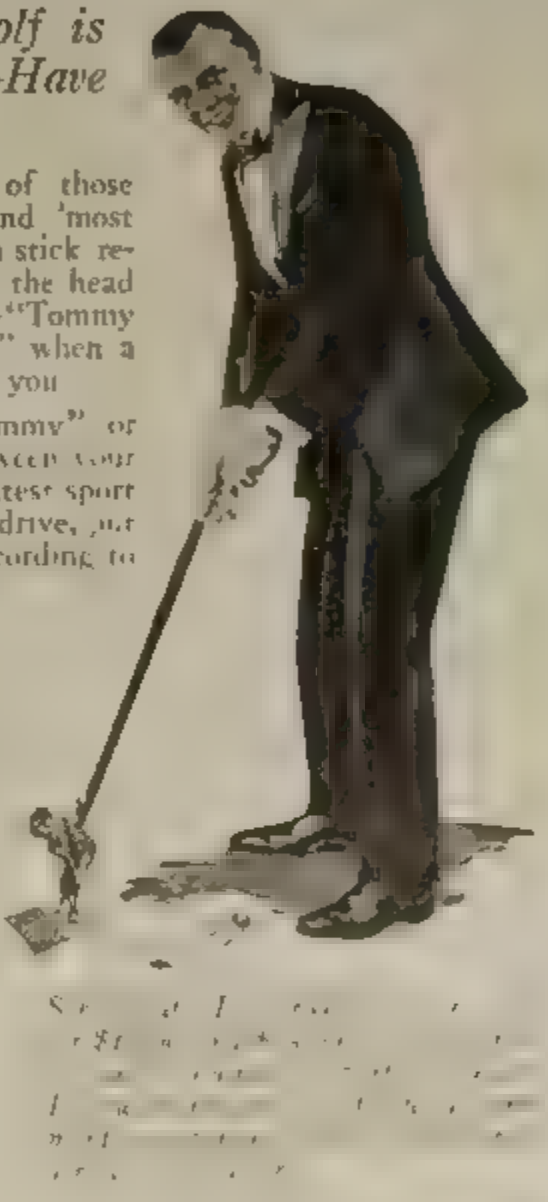

Schoenhut's Indoor Golf is one of those games that everybody can play and 'most everybody does. It is played with a stick resembling a golf stick, but in place of the head there is a miniature golfing figure—"Tommy Green" when a man; "Sissie Lofter" when a woman—who makes your strokes for you.

You control the action of "Tommy" or "Sissie" through a lever located between your first and second finger. It's the greatest sport imaginable. "Tommy" and "Sissie" drive, put or approach, just as in real golf, according to the kind of club you put between their fingers and according to your skill in operating the lever.

A full set of clubs is furnished with each miniature figure, together with putting greens, tees, bunkers and everything that goes with a regular golf game in miniature. The small, hollow, celluloid balls are perfectly harmless. Thousands of golfers all over the country are enjoying this new and exciting game of Schoenhut's Indoor Golf. Four thousand sets were sold to the golfers of New York and Philadelphia alone within three weeks of its introduction. You will find that it requires as much skill and scientific accuracy as a real game of outdoor golf—a truly worthwhile amusement.

Notice to Professionals—It will pay you to carry Schoenhut's Indoor Golf

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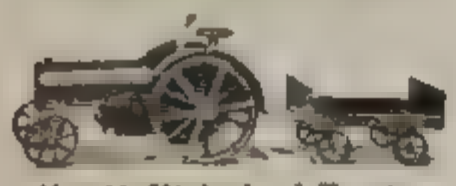
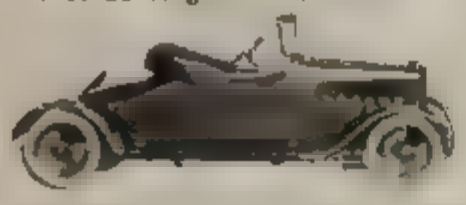


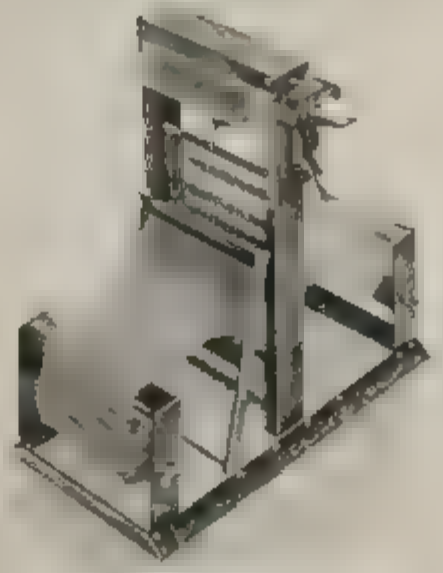
No. 11 Highwheel Tractor



No. 12 De Luxe Roadster Auto

No. 14 Dump Truck

No. 16 Yuba Tractor

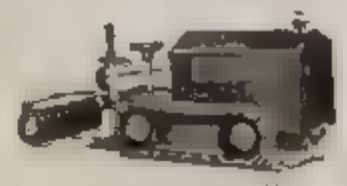


No. 60 Structo Artcraft Loom

No. 240 Structo Artcraft Loom

No. 40 Roadster Auto

No. 42 Contractors Dump Truck



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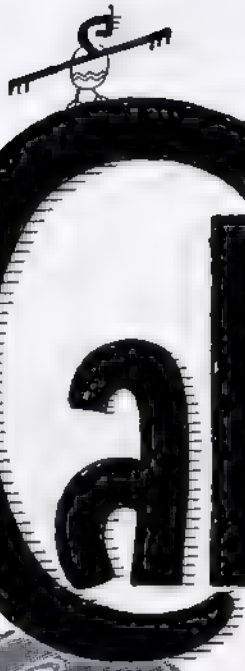

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You and Your Family should spend this winter out-of-doors in California

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There are luxurious resort hotels and cozy inns, or, rent a bungalow and enjoy your own rose garden.

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Spick-and-span-new steel equipment on the California Limited.

There are Pullmans via Grand Canyon National Park, to Los Angeles, on both the California Limited and the Missionary. We will arrange your Pullman reservations so you can stay at the Canyon any number of days and be assured of your space when resuming journey.

Why not visit Southern Arizona, going or returning? It is delightful at Castle Hot Springs, Ingleside and Chandler.

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Golf links galore and excellent schools for your children.

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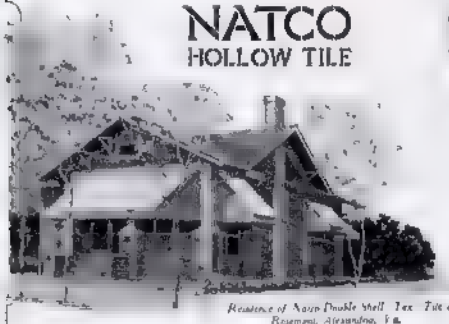

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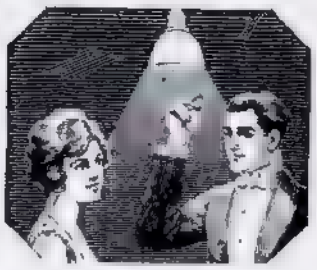

"WHEN the lights are low" And what a restful difference! The subdued beauty of candle light and the convenience of electricity.

Keep the halls and bathrooms lighted all night at small cost with DIM-A-LITES. Walk about without fear of injury or accident. Save electricity too.

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YOU'LL sleep *under blankets* in Southern California nine nights out of ten in June, July, August and September—wonderfully rested and refreshed for the thousand-and-one things to do by day.

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Here are world-famous golf courses with grass greens and tees and wonderfully beautiful fairways from which great panoramic views of mountains, valleys and the ocean spread out for miles.

A rainless season permits play practically every day.

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Bathing at the seashore, at the foot of mountain ranges, camping, fishing, hiking, horseback-riding up wild mountain trails and over country that you've read about.

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A complete change! Different country, different scenery, different people. Great wide expanses. Hundred mile views on clear days. Regularity of weather. A continual outdoor life. Absorbing. Fascinating. You "lose yourself" and thus completely *recreate* yourself.

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Ask any railroad ticket office for further information, or mail coupon below.

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Plan now for this summer. Let the family have this great change and great trip.

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A Strange Idea

for a summer trip

By An Easterner

"See a new country, a wonderland of summer. Get a complete change of scene (often the most valuable part of a vacation).

"Be entirely absorbed and self-forgetful. Come back a new man."

That was the advice of my physician seven years ago when I felt in need of real rest and recreation. And then he said what I thought *a strange thing* at the time—*"Go to Southern California this summer."*

"What!—from one warm place to a warmer?"

"You don't know California in the summer," he replied. "It's cool there."

And then he showed me these U. S. Weather Bureau figures.

Average mean temperature for Southern California: June, 66 degrees; July, 70 degrees; August, 71 degrees; September, 69 degrees.—The 44-year record of the U. S. Weather Bureau.

Well, I went somewhat doubtful—and this is what I found:

That he and the U. S. Weather Bureau were right about the summer weather. I stayed three months—June, July, and August—and slept under blankets ninety nights.

I found a land that offered an amazing variety and quality of summer sports.

4,000 miles of motor roads through some of the roughest kind of country in some places, that I have ever seen, yet paved like city streets.

Great seashore resorts, mountain lakes and fishing streams, deserts, and the most intensively developed farm and fruit lands bordering on one another.

Stupendous views from mountain tops, great rides along fine oceanside highways, almost impenetrable wildernesses within a few hours of a great city, tenth in size in the United States

Golf and tennis everywhere. A myriad things to do. The result is I have missed only one summer in the seven since I first learned of this great playground.

GO NOW

Don't put off a trip like this, don't hesitate. Go while you can. *The complete change* alone is worth the comparatively small investment. This trip *is* an investment that yields incomparable returns.

If you wish to take "a trip abroad," here's one in your own United States.

Stay at fashionable hotels or modest boarding places, as you wish.

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THE romance of the old Mississippi River steamboat days hangs over New Orleans. Quaint, tall-funnelled side wheelers, recalling the heyday of nine-boiler floating palaces and thrilling river races, still nose their way up to the levees.

As a Mississippi pilot, Samuel Clemens, famous humorist, often visited the Crescent City. He speaks interestingly of Creole restaurants and the beauty and gaiety of French New Orleans. Its famous cafes and shops, its Mardi Gras and its picturesque river trips continue to enchant the visitor. By all means, stop over there on your trip via the Sunset Route.

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Operated over a mild, sunny route all the way, free from ice and snow. Observation Car, Through Dining Car and other comforts of modern travel. Daily Through Tourist Sleeping Car Service between Washington, D.C. and San Francisco. Tri-weekly Sleeping Car Service between New Orleans and Los Angeles via Globe, Arizona, for the side trip to ROOSEVELT DAM on the APACHE TRAIL.

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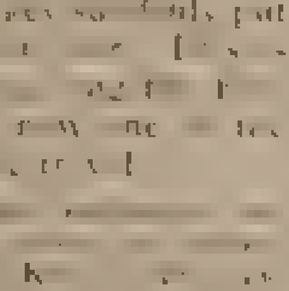
Not a by-path in your tour around the world, but one of the most marvellous highways that may be traversed



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Telephone 637-01

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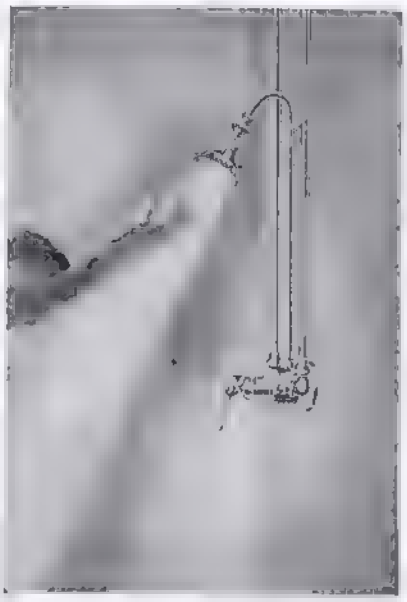

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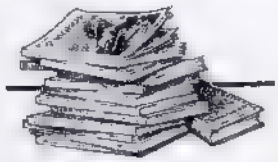

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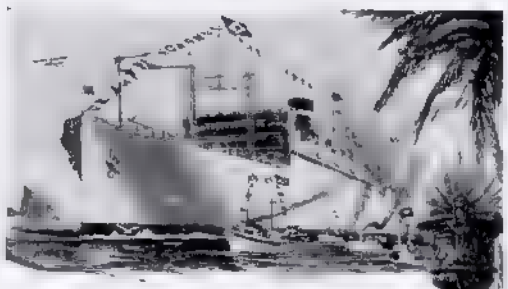

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And now U. S. Government owned ships have brought South America within your reach. They have broken all speed records. Rio de Janeiro is now only 11 days from New York. These swift new ships — 21,000 ton oil-burners—have set a new standard for accommodations too. Operated by the Munson Steamship Lines, with 50 years of successful experience, they offer comfort and service which marks a new era in South American travel.

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Your government wishes the name of every prospective traveler. If you are considering an ocean voyage anywhere, send the information blank now, no matter when you intend to go. You will receive the Government's booklet of authentic travel information, complete description of the U. S. Government ships and literature telling the places to go and things to see in foreign lands. You will be under no obligation.

INFORMATION BLANK

Information Desk **Washington, D. C.**
M1552

Please send without obligation the U. S. Government Booklet and information about U. S. Government ships.

I am considering a trip to South America ☐ to Europe ☐ to The Orient ☐. I would go 1st class ☐ 2d class ☐ 3d class ☐. Going alone ☐ with family ☐ with others ☐.

I have definitely decided to go ☐. I am merely considering the trip ☐.

If I go date will be about _____

My Name _____

My Address _____

Town _____ *State* _____

For information in regard to sailings and accommodations, address

MUNSON STEAMSHIP LINES

67 Wall Street - - - - - New York City

Managing Operators for

U. S. SHIPPING BOARD

Information Desk 1552 **Washington, D. C.**

San Francisco—Manila—Hongkong

TAKE advantage now of the new service offered by the Pacific Mail Steamship Company, from San Francisco to the Philippines and Hongkong.

Your travel experience, to be full, must include Manila, "The Pearl of the Orient." Set among Islands eloquent of modern American history, bathed in all the exotic languor of the South Pacific, teeming with a population drawn from every quarter of the globe, Manila offers a variety of entertainment and strange fascination not easily equalled.

Now for the first time you are offered a direct, modern American service from San Francisco to Manila and Hongkong, via Honolulu—a service operated by a company of 74 years' experience in ocean passenger traffic. The ships, owned by the United States Government, are new, swift, American-built, oil-burning vessels, equipped with every luxury. Send the blank today for full information.

For information in regard to sailings and accommodations address

Pacific Mail Steamship Company

508 California St.	502 So. Spring St.	10 Hanover Sq.
San Francisco, Cal.	Los Angeles, Cal.	New York City

U.S. SHIPPING BOARD INFORMATION DIVISION 155 A

Washington, D. C.

Write for Booklet

The information blank below, filled out, will bring you your Government's authoritative travel booklet, together with full information about these U. S. Government ships. Act now, while you can still secure bookings in this new service. Send the blank today.

INFORMATION BLANK
To U. S. Shipping Board
Information Division Washington, D. C.
P.M.155 A

Please send me without obligation the U. S. Government Booklet giving travel facts and also information regarding the U. S. Government ships.

I am considering a trip to the Orient ☐ to Europe ☐, to South America ☐, I would travel 1st class ☐, 2nd ☐, 3rd ☐. Going alone ☐, with family ☐, with others ☐.

I have definitely decided to go ☐, I am merely considering the trip ☐.

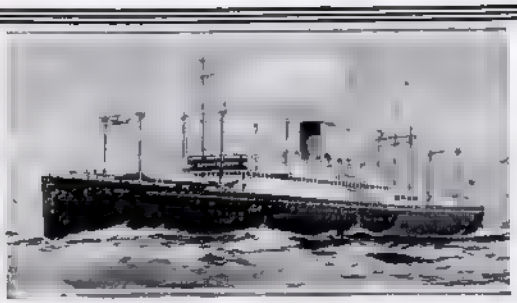
If I go date will be about_____

My Name _____

Business or Profession _____

My Street No. or R.F.D. _____

Town _____ *State* _____



The Orient
via Honolulu

IF you are going to The Orient—if you are determined to escape the bitter blasts of winter in the gay, exotic sunshine of the Far East—travel over the Pacific Mail Steamship Company's "Sunshine Belt to The Orient." Winding a lazy way from San Francisco, this pleasant route over blue Pacific waters runs by Hawaii, Paradise of the Pacific, to Yokohama, Kobe, Shanghai, Manila and Hong Kong. A day's stop is made at Honolulu. Stopovers in any Eastern port may be arranged.

The ships operated by "Pacific Mail" are new, American-built oil-burners, of 21,167 displacement tons, owned by the United States Government. They are of the luxuriously-equipped "535" type—now famous all over the seven seas for speed and service. Write today for full information. Learn how you can find rest and utter enjoyment over a route that affords the best possible escape from winter, the best possible preparation for the charm and fascination of The Orient.

To Honolulu, Yokohama, Kobe, Shanghai, Hong Kong and Manila

President Taft	*Nov. 16*
President Lincoln	*Nov. 30*
President Pierce	*Dec. 14*
President Cleveland . . .	*Dec. 28*

INFORMATION BLANK
To U. S. Shipping Board
Information Div. PM1558 Wash., D. C.

Please send without obligation the information regarding U. S. Government ships. I am considering a trip to The Orient☐, to Europe☐, to South America☐.

Name .....

Address .....

For information in regard to sailings and accommodations address

Pacific Mail Steamship Company

508 California St. San Francisco, Cal. | 503 So. Spring St. Los Angeles, Cal. | 10 Hanover Sq. New York City

U. S. SHIPPING BOARD
Information Division 1558 Washington, D. C.

Watch your gums—bleeding a sign of trouble

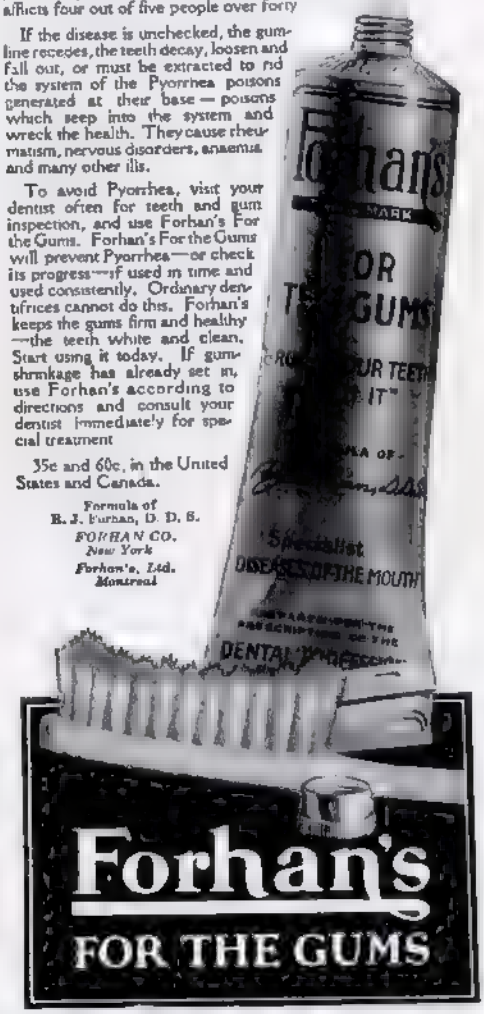
MEDICAL science knows how serious is the sign of bleeding gums. For it knows that tender and bleeding gums are the forerunners of Pyorrhea, that dread disease which afflicts four out of five people over forty

If the disease is unchecked, the gumline recedes, the teeth decay, loosen and fall out, or must be extracted to rid the system of the Pyorrhea poisons generated at their base—poisons which seep into the system and wreck the health. They cause rheumatism, nervous disorders, anaemia and many other ills.

To avoid Pyorrhea, visit your dentist often for teeth and gum inspection, and use Forhan's For the Gums. Forhan's For the Gums will prevent Pyorrhea—or check its progress—if used in time and used consistently. Ordinary dentifrices cannot do this. Forhan's keeps the gums firm and healthy—the teeth white and clean. Start using it today. If gum-shrinkage has already set in, use Forhan's according to directions and consult your dentist immediately for special treatment

35c and 60c, in the United States and Canada.

Formula of
R. J. Forhan, D. D. S.
FORHAN CO.
New York
Forhan's, Ltd.
Montreal



THIS MAGAZINE IS FROM OUR PRESSES

JUDD & DETWEILER, INC.
Master Printers
ECKINGTON PLACE AND FLORIDA AVE
WASHINGTON D.C

A Trip Abroad—
The Gift Supreme

IF YOU are thinking of giving some loved one the opportunities of a trip abroad, send the information blank below today!

A new Christmas gift has been created, probably the greatest ever offered because it brings the happiness of anticipation, of realization, and the happiness that comes with golden memories!

This Christmas you may give some loved one a U. S. Government Travel Certificate. The delights of an ocean voyage, (it may be taken at the convenience of the traveler),—crowded days of seeing, hearing, living!

Find out about the greatest of all Christmas gifts. Find out about the swift, new United States Government ships that will carry your loved ones to the land of their dreams. You will be under no obligation.

The U. S. Government Travel Certificate

These ships are owned by the United States Government. They are operated by:

THE UNITED STATES LINES from New York to Europe;

THE ADMIRAL-ORIENTAL LINE from Seattle to The Orient;

THE PACIFIC MAIL STEAMSHIP COMPANY from San Francisco to The Orient via Honolulu;

THE MUNSON STEAMSHIP LINES from New York to South America,

THE LOS ANGELES STEAMSHIP COMPANY from Los Angeles to the Hawaiian Islands.

All are experienced steamship operators and have made possible a service which is making the American Merchant Marine a tremendous success

Write Today

Send the information blank now! Thousands are investigating this newest and greatest Christmas gift. You will receive without any obligation description of the U. S. Government Travel Certificate, and a beautiful new booklet showing actual photographs of the ships. Write for it today! Christmas is not far away.

INFORMATION BLANK
To U. S. Shipping Board
Infor. Dept. 1559 Washington, D. C.

Please send without obligation the U. S. Government literature explaining the U. S. Government Travel Certificate and the ships that go to ☐ Europe, ☐ South America, ☐ The Orient, ☐ Honolulu.

My Name.....

Address

.....

U. S. SHIPPING BOARD

Travel to the Orient on American Ships

U. S. Government owned ships, your ships, have brought the wonderland of the East within your reach. In one month you can travel to the Orient, in the Orient—and back. Now Yokohama is only 11 sailing days from Seattle. Kobe, Shanghai, Hong Kong and Manila are but a few days beyond. Twenty-two golden cruising days —with the tang of the salt sea, the bracing air, indolent days on shaded decks, soothing to jangled nerves. Now you can enjoy this surrounded with all the comforts and luxuries of the finest American hotel, with American standards of food, service, and appointments—on American ships.

New American Ships

These swift, new, American vessels—21,000 ton oil-burners—are yours. Owned by the Government, they are operated by the Admiral Line, and offer comfort and speed that mark a new era in trans-Pacific travel. The social rooms are luxuriously appointed. The spacious staterooms are furnished like rooms at home—beds, not berths, all rooms on the outside, private baths in most. Every room has running water, bed-reading lamp, electric fans and radiators. The service—efficient, cheerful, American—persuades commendation.

For accommodations and sailings address your local agent or

The Admiral Line

L. C. Smith Bldg., Seattle, Wash. 17 State Street, New York City

Managing Operators for

U. S. SHIPPING BOARD

Information Office 1552 Washington, D.C.

Write for Booklet

Your Government wishes the name of every prospective traveler. If you are considering an ocean voyage anywhere, send the information blank now—no matter when you intend to go. You will receive without cost the Government's booklet of authentic travel information; complete description of the U .S. Government ships that sail to the ports in which you are interested and descriptive literature telling of places to go and things to see in foreign lands. You will be under no obligation.

INFORMATION BLANK
To U. S. Shipping Board
Information Office 1552
Washington, D. C.

Please send without obligation the U. S. Government Booklet

I am considering a trip to the Orient____ to Europe____ to South America____.

I have definitely decided to go____. I am merely considering the trip.

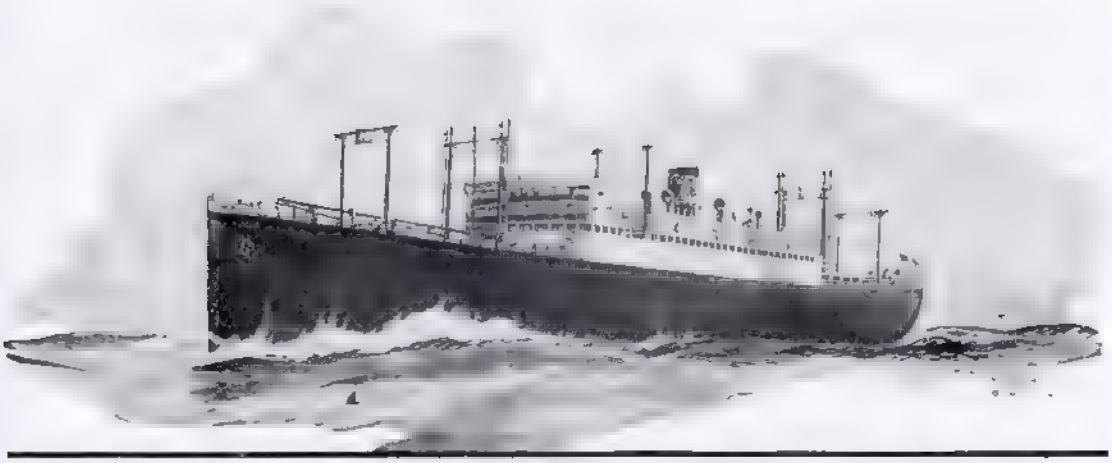
I would go 1st class____, 2d____, 3d____.

If I go date will be about_____

My Name _____

My Street No. or R F D _____

Town _____ *State* _____



Now~only 11 days Across the Pacific

IT is now possible to travel on U. S. Government ships from Seattle to the Orient in just eleven sailing days.

For the first time, American standards of comfort and living have been combined with American *speed* in trans-Pacific travel. Yokahama, Kobe, Shangai, Hong Kong and Manila have been brought a thousand miles nearer. These new, luxurious Government liners—your ships--save five precious days across the Pacific. Yet while the voyage is swift in fact, it is swift in enjoyment, too. The delightful days on shipboard slip by almost before you know it.

On American Ships

Americans are educated to a higher standard of comfort than perhaps any other people. Naturally they prefer American ships. These new Government vessels, manned by American crews, offer the finest of American food, carry the home atmosphere to the very gates of the Orient. They are the logical meeting places for Americans traveling to the Orient.

American Comforts

The spacious staterooms on these ships are furnished with beds, instead of bunks. All rooms are outside. Most have private baths. All are equipped with running water, private toilets, bed reading lamps, electric radiators and fans. Social rooms, luxuriously furnished in faultless taste, are exquisitely beautiful.

The convenience of this passage to the Orient is only equaled by the ease with which you can reach Seattle. Four great railroad terminals connect this port with every section of the country.

For information regarding accommodations, address

THE ADMIRAL LINE
L. C. Smith Building, Seattle, Wash.
17 State Street New York City
Managing Operators for the U.S. Shipping Board

Send for Booklet

Your Government wishes the name of every prospective traveler. Send the information blank now if you are considering a trip abroad and you will help your Government. You will receive valuable information covering every phase of your trip—information usually obtained by days of interviewing officials. You will be under no obligation. Send the information blank now and learn what your ships have to offer.

UNITED STATES SHIPPING BOARD
Information Office 1551 Washington, D. C.

If you cannot go abroad, clip the coupon and give it to a friend who may. Urge him to send it in, AND THUS YOU HELP YOUR MERCHANT MARINE.

INFORMATION BLANK
To U. S. Shipping Board
Information Office 1551
Washington, D. C.

Please send me without obligation the U. S. Government Booklet.

I am considering a trip to The Orient ☐ South America ☐ Europe ☐.

If I go date will be about _____

My Name _____

My Street No. or R. F. D _____

Town _____ *State* _____

Why Americans now go to Europe on American Ships

AMERICANS who have crossed the Atlantic on U. S. Government ships give three reasons for preferring them. They find the comforts they are accustomed to find in the finest American hotels; American food, prepared by chefs who know how to cook for Americans; and American companions.

Hotel Comforts at Sea

On your way to Europe now you may have the comforts and the luxuries of the finest hotels. The accommodations of the S. S. George Washington, flagship of the fleet, are surpassed now here on the seas. The staterooms are large and beautifully decorated. Most have private baths; all have telephones. Elevators carry you from deck to deck. The magnificent social rooms are paneled with rare woods and are furnished with luxurious upholstered furniture that invites relaxation. In cold weather the broad promenade is enclosed with glass.

American Cuisine

Many Americans who have traveled on American ships say the cuisine has set a new standard. It is particularly satisfying to Americans because American dishes are served. The cuisine of the S. S. George Washington has become famous.

American Companions

American ships are the natural places for Americans to meet each other when traveling. If you will scan the passenger lists you will find the names of Americans from all over the 48 states; officers of the Army and Navy, other Government officials, business men whose names are known to every schoolboy, and social leaders from every section.

When you go to Europe, you too will prefer an American ship—a ship of which you own a part. And it will be a source of pride to know that your passage money is helping to build the American Merchant Marine.

For information in regard to accommodations address

United States Lines

45 Broadway New York City

Moore and McCormick, Inc.
Roosevelt Steamship Co., Inc.
United American Lines, Inc.

Managing Operators for U. S. Shipping Board

Your Government Asks You to Send the Coupon Now

Let your Government tell you about your ships and the service they offer. If you may consider a trip to Europe or to South America or The Orient any time within the next year, your Government asks you to send the information blank now. When it is received a packet of official information will be sent to you. Days of interviewing officials has been required to obtain this information. It will be sent to you without charge if you send the information blank to the United States Shipping Board.

UNITED STATES SHIPPING BOARD
Information Section, 1551, Washington, D. C.

If you cannot go to Europe clip out the information blank and urge some friend who may take an ocean voyage, to send it in at once.

U.S. INFORMATION BLANK
To U. S. Shipping Board
Information Section 1551
Washington, D. C.

Please send me without obligation the U. S. Government Booklet.

I am considering a trip to Europe ☐ South America ☐ The Orient ☐.

If I go date will be about_____

My Name

My Street No. or R. F. D.

*Town*_____ *State*

Going Abroad?

Your Government Has Prepared a Booklet of Official Information Which Will Be Sent Free

IF you are going to Europe—if you have felt the call of Old Europe and New Europe—send the information blank below to your Government. You will receive without charge a packet of official information covering every phase of your trip.

You will receive, too, full information about your ships that now sail from New York to European ports. You will be proud of this splendid fleet that is operated by the United States Lines. The George Washington, the America, and other ships of the line are among the finest afloat.

Americans from all over the 48 states are now traveling on American ships—on your ships. They travel on them because they know they will find there all the comfort and service of a great modern hotel.

Send the information blank today and learn about them. Full information will be sent without charge.

For information in regard to sailings and accommodations, address

United States Lines

45 Broadway New York City

Moore and McCormack, Inc.
Roosevelt Steamship Co., Inc.
United American Lines, Inc.

Write for Booklet

Your Government wishes the name of every prospective traveler. If you are considering an ocean voyage anywhere, send the information blank now no matter when you intend to go. You will receive without cost the Government's booklet of authentic travel information; description of ships and literature on foreign countries. You will be under no obligation.

If you cannot take an ocean trip, clip the information blank anyway and urge some friend who may go to send it in. Do not send the blank in for your friend; simply give it to him to send in. Thus you too will help the American Merchant Marine.

INFORMATION BLANK
To U. S. Shipping Board
Information Section Washington, D. C.
U. S. 1553

Please send without obligation the U. S. Government Booklet giving travel facts and also information regarding the U. S. Government ships.

I am considering a trip to Europe ☐, to the Orient ☐, to South America ☐. I would travel 1st class ☐, 2d ☐, 3rd ☐. Going alone ☐, with family ☐, with others ☐.

I have definitely decided to go ☐, I am merely considering the possibility of a trip.

If I go date will be about _____

My Name _____

My Street No. or R F D _____

Town _____ *State* _____

U. S. SHIPPING BOARD

Information Section 1553 Washington, D. C.

Fastest time to Rio and the Centennial Exposition

Are you going? Will you be one of the thousands who will join in the gigantic world celebration of Brazil's 100th year as a Republic?

Every part of the world will be represented there, France, Great Britain, Italy, Belgium and our own United States. They will all have exhibits there and will join in the study of the fast developing business opportunities of South America.

If you are going, write now and let your Government tell you of its swift new ships which have brought South America 5 to 7 days nearer. These new ships—21,000 ton oil-burners—owned by the U. S. Government, sail from New York fortnightly. Rio de Janeiro is now only 11 days from New York. Montevideo and Buenos Aires are but a few days beyond. South America's treasure chest of pleasure and business opportunities is brought almost to your door.

These splendid new ships are operated for the U. S. Government by the Munson Steamship Lines with 50 years of successful steamship experience.

They are among the finest ships afloat, with spacious staterooms equipped with beds, not berths, electric fans, running water, bed reading lamps. Most have private baths.

Next sailings are

S. S. American Legion June 10th

S. S. Pan America June 24th

S. S. Western World July 8th

S. S. Southern Cross July 22nd

Fortnightly thereafter

For information regarding accommodations, address

The Munson Steamship Lines

67 Wall Street, New York City

Write for Booklet

Your Government wishes the name of every prospective traveler. If you are considering an ocean voyage anywhere, send the information blank now—no matter when you intend to go. You will receive without cost the Government's booklet of authentic travel information and description of U. S. Government ships.

U. S. SHIPPING BOARD

Information Desk A155 **Washington, D. C.**

INFORMATION BLANK

To U. S. Shipping Board

Information Desk **Washington, D. C.**

M. A155

Please send without obligation the U. S. Government Booklet giving travel facts and also information regarding the U. S. Government ships. I am considering a trip to South America ☐ to Europe ☐ to the Orient ☐. I would travel 1st class ☐ 2nd ☐ 3rd ☐. Going alone ☐ with family ☐ with others ☐. I have definitely decided to go ☐ I am merely considering the trip ☐.

If I go date will be about _____

My Name _____

Business or Profession _____

My Street No. or R. F. D. _____

Town _____ *State* _____

Rio De Janeiro Is Now Only 11 Days Away

IF you are planning a trip to the romance lands of South America where centuries ago landed the hardy explorers of Spain and Portugal, send the information blank below and let your Government tell you about the new American ships which take you there with record speed. Rio de Janeiro is now only 11 days away; Montevideo and Buenos Aires but a few days beyond.

A Luxurious Trip

Today you may visit this treasure chest of barely tapped resources in giant and palatial ocean liners, 21,000 ton oil-burners, U. S. Government owned. Operated by the Munson Steamship Lines they derive the benefits of this organization's 50 years of successful experience.

Not until you have traveled on your ships will you know how delightful an ocean voyage can be. Thousands of Americans are going this year. Special tourist arrangements are made for those who wish to visit the interior and return via the West Coast. You should send the information blank and learn more about the new American ships, the new speed, and the new service.

For accommodations address

Munson Steamship Lines

67 Wall Street *New York City*

Next sailings are:

S.S. Southern Cross	*Mar. 16th*
S.S. Acolus	*Mar. 30th*
S.S. Huron	*Apr. 13th*
S.S. American Legion	*Apr. 27th*

Write for Booklet

Your Government wishes the name of every prospective traveler. If you are considering an ocean voyage anywhere, send the information blank now—no matter when you intend to go. You will receive without cost the Government's booklet of authentic travel information about passports, income tax requirements, etc.; description of U. S. Government ships and literature telling of things to see in foreign lands. You will be under no obligation.

If you yourself cannot take an ocean trip, clip the information blank anyway, and ask some friends who may go to send it in.

U. S. SHIPPING BOARD

Information Desk 1553 **Washington, D. C.**

INFORMATION BLANK
To U. S. Shipping Board
Information Desk **Washington, D. C.**
M 1553

Please send without obligation the U. S. Government Booklet giving travel facts.

I am considering a trip to South America ☐ to Europe ☐ to The Orient ☐. I would travel 1st class ☐ and ☐ 3rd ☐. Going alone ☐ with family ☐ with others ☐. I have definitely decided to go ☐ I am merely considering the possibility of a trip ☐

If I go date will be about _____

My Name _____

My Business or Profession

My Address _____

Town _____ *State* _____

To The Orient Via Honolulu

On American ships operated by the Pacific Mail Steamship Company

IF YOU feel the call of the Far East—if you dream of days in Hawaii, China and Japan—send the information blank below today. Let your Government smooth your way with travel helps and arrange for your accommodation. For your convenience your Government has published a new booklet, "Going Abroad," which gives official information covering every phase of your trip. The booklet will be sent to you without charge.

Write for Booklet

Your Government wishes the name of every prospective traveler. If you are considering an ocean voyage, send the information blank now—no matter when you intend to go. You will receive the Government's booklet of authentic travel information about passports, income tax requirements, etc., description of the U. S. Government ships and literature telling the places to go and things to see in foreign lands. The Government merely asks all prospective travelers to register their names with the Government. No further obligation is implied.

If you yourself cannot take an ocean trip, clip the information blank anyway and urge some friend who may go to send it in.

INFORMATION BLANK
To U. S. Shipping Board
Information Division Washington, D. C.
P.M. 1553

Please send without obligation the U. S. Government Booklet giving travel facts and also information regarding the U. S. Government ships.

I am considering a trip to The Orient ☐ to Europe ☐ to South America ☐. I would travel 1st class ☐ 2d ☐ 3d ☐. Going alone ☐ with family ☐ with others ☐.

I have definitely decided to go ☐ I am merely considering the trip ☐.

If I go date will be about _____

My Name _____

Business or Profession _____

Street No. or R. F. D. _____

Town _____ *State* _____

The Sunshine Belt

Palatial new U. S. Government ships operated by the Pacific Mail Steamship Company, now sail from San Francisco to The Orient, via Hawaii, Pacific Mail's famous "Sunshine Belt to The Orient." A day's stop is made at Honolulu. Stopovers may be arranged in any Eastern country.

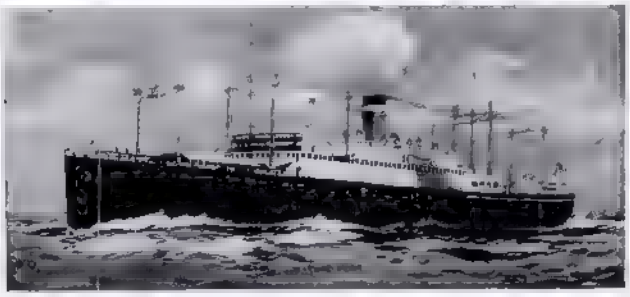
These ships are American-built, oil-burning vessels of 21,167 displacement tons and 535 feet in length. Sister ships, they are alike in every luxurious detail. The spacious staterooms are all outside, equipped with beds (not bunks), running hot and cold water, electric fans, electric radiators, bed reading lamps, private toilets. Most have private baths. Social rooms are exceptionally comfortable and beautiful.

For information in regard to sailings and accommodations, address

Pacific Mail Steamship Company

Established 1848

508 California Street, San Francisco, Cal.
503 So. Spring Street, Los Angeles, Cal.
10 Hanover Square, New York, N. Y.

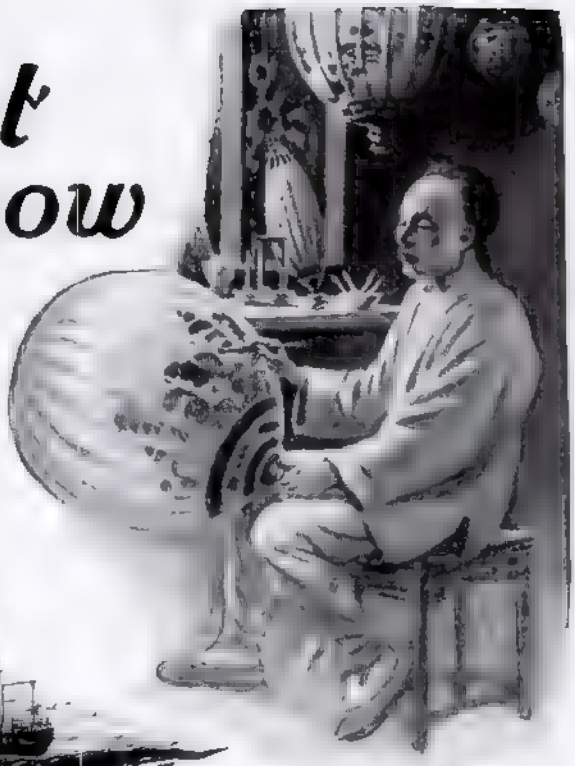


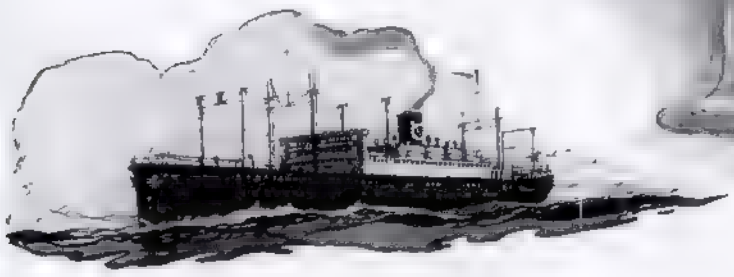
U. S. SHIPPING BOARD

Information Division 1553 **Washington, D. C.**

The Orient is nearer now

More comfort and speed on American ships





IF you are planning a trip to The Orient you should know about the new U. S. Government owned ships, which have cut a thousand miles from the journey. They have brought nearer the mysteries, the fascinations, and the sheer beauties of the East. Now in 11 days you can go from Seattle to Yokohama—gateway to wonderful Japan and The Orient.

Luxurious appointments prevail on these great ships — 21,000 ton oil-burners — and they offer all the comforts and facilities of the very best hotel. They are among the finest ships afloat. The service aboard is unexcelled on the seas.

And this year, with the value of the American dollar at its peak, you can *do* more for less than ever before. You should send the information blank below and learn about the opportunity American ships have brought to Americans now.

Write for Booklet

Your Government wishes the name of every prospective traveler. If you are considering an ocean voyage anywhere, send the information blank now. You will receive without cost the Government booklet of authentic travel information and literature telling of things to see in foreign lands. You will be under no obligation.

If you yourself cannot take an ocean trip, clip the information blank anyway and ask a friend who may go to send it in.

For accommodations and sailings, address your local agent or

The Admiral Line

17 State Street, New York City L. C Smith Bldg., Seattle, Wash.

Managing Operators for

U. S. SHIPPING BOARD

Information Office 1553 Washington, D. C.

INFORMATION BLANK
To U. S. Shipping Board
Information Office Washington, D. C.
A 1553

Please send without obligation the U. S. Government Booklet giving travel facts.

I am considering a trip to The Orient ☐ to Europe ☐ to South America ☐. I would travel 1st class ☐ 2d ☐ 3d ☐. Going alone ☐ with family ☐ with others ☐.

I have definitely decided to go ☐ I am merely considering the possibility of a trip

If I go date will be about _____

My Name _____

My Business or Profession _____

My Address is _____

Town _____ *State* _____

Christmas morning—and in come the greatest artists!

The surprise and delight of a Victrola for Christmas! Music appropriate to Christmas; music for every day in the year; music so lifelike that the greatest artists select the Victrola as the one instrument to carry their art into the home. Buy a Victrola this Christmas—but be sure it *is* a Victrola. $25 to $1500.

"HIS MASTER'S VOICE"

This trade-mark and the trademark key word Victrola are registered and their use restricted. Look under the lid. Look on the label.

Victor Talking Machine Company, Camden, N. J.

Sousa's Band plays for *you*

and it plays music of your own choosing. The band of the great March King plays as many encores as you wish—such playing as is possible only when Victor records and Victrola instruments are used together. You can hear not only Sousa's Band, but Conway's Band, Pryor's Band, Vessella's Band, U. S. Marine Band, Garde Republicaine Band of France, Band of H. M. Coldstream Guards, Banda De Alabarderos—the greatest bands of every nation and the best music of all the kinds the whole world has to offer.

Victrolas $25 to $1500. New Victor Records demonstrated at all dealers in Victor products on the 1st of each month.

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Important: Look for these trade-marks. Under the lid. On the label.

Victor Talking Machine Company, Camden, New Jersey

"My Victor Records shall be my biography"

That was Caruso's characteristic remark when he was once approached regarding his biography.

The one hundred and seventy-eight Victor Records by Caruso, and many records yet to be issued, truly constitute the best autobiography of the world's greatest singer; a unique autobiography which has never been equalled for vividness; an autobiography which is itself alive and which will continue to delight all the succeeding generations.

The Caruso records include fifty-six operatic arias, twenty-three concert ballads, sixteen Neapolitan songs, fifteen love lyrics, twelve sacred numbers, five patriotic selections, and fifty-one concerted numbers, all of which are listed in the Victor Record Catalog. Any dealer in Victor products will gladly give you a copy and play any numbers for you.

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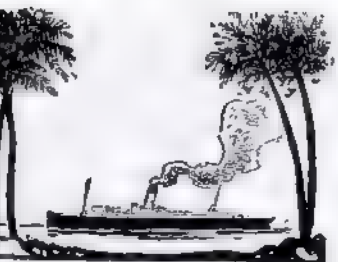
VICTOR TALKING MACHINE CO. Camden, N. J.

Victor Talking Machine Company, Camden, N.J.

WINTER VACATION VOYAGES



MEDITERRANEAN

ADRIATIC (*24,541 tons*)
Jan. 6, Feb. 24, 1923

LAPLAND (*18,565 tons*)
Jan. 18, Mar. 10, 1923

World-famous for steadiness, de luxe quarters, cuisine and service. For travelers of discrimination. Ample time for delightful visits ashore.

Round trip cruise bookings.
To Naples via Egypt and the Holy Land.
One way bookings to Egypt.

Itinerary: Madeira, Gibraltar, Algiers, Monaco (the Riviera), Naples, Alexandria (for Egypt and the Nile), Haifa for Jerusalem, and Athens (Phaleron Bay).

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MEGANTIC (*20,000 tons displacement*)
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Magnificent cruising ship of admirable construction for tropic voyages. Premier steamer to the West Indies.

Rates $250 Upwards

Itinerary arranged by Cruise Department of more than 25 years' experience in the West Indies. From New York to Havana, Haiti, Santiago, Kingston (Port Antonio), Panama Canal (Panama City), La Guaira (Caracas), Trinidad (La Brea), Barbados, Martinique (St. Pierre), St. Thomas, San Juan, Nassau, Bermuda.

Inquire for booklets and detailed information

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12-22

Announcement Extraordinary

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(56,000 tons)
largest ship in the world

The new HOMERIC
(35,000 tons)
largest twin-screw steamer in the world

The OLYMPIC
(46,500 tons)
known internationally for her magnificence

THE White Star Line announces that beginning in the spring of 1922 these great liners - three of the world's largest ships—will maintain a weekly schedule of sailings from New York to Cherbourg and Southampton.

Teamed together on the Cherbourg-Southampton route, the *Majestic, Homeric* and *Olympic* provide *regular* passenger service with a class of accommodations heretofore obtainable only at intervals, and to a limited proportion of European visitors.

For individual grandeur, power and luxurious appointments, each ship marks the high tide of achievement in providing comfort at sea. The experience and finished skill of White Star service which have created the reputation of a long line of famous ships, culminating in the prestige of the *Olympic*, maintain last word standards aboard these mighty vessels.

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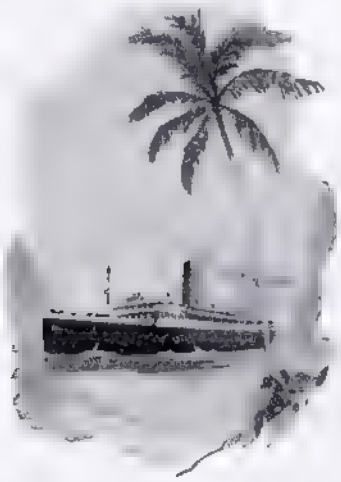

West Indies Cruises

To the Brilliant and Sunny Playground of the Western World, On Board the Splendid White Star Liner MEGANTIC

The West Indies, Panama Canal and South America: Shake off your winter coat, shake off your winter mind and go down into these lands where sunshine, blue seas and tropic flowers call to the traveler. Nowadays, the West Indies lure by their picturesque and charming atmosphere, their quaint customs, their radiant beauty. The Panama Canal, Mecca of all good Americans, one of the most interesting places to visit on the face of the globe. South America, vitally interesting, foreign, beautiful, seen on these trips through carefully planned visits to La Guayra, port of Caracas, and to the ancient mountain capital of golden Venezuela.

Go to these geographically near but romantically distant lands on board the White Star Liner *Megantic*. As on a private yacht, these cruises are conducted with the utmost luxury, perfection of detail in service, beautiful and restful trips ashore and with every health-giving advantage. The Itinerary: From New York to Cuba, Jamaica, Panama, Venezuela, Trinidad, Barbados, Martinique, St Thomas, Porto Rico, Nassau, and Bermuda. Duration of cruise approximately 28 days. No passports required. Rates, $300 and upwards.

First Cruise, January 17. Second Cruise, February 18. Third Cruise, March 20. White Star service, known the world over as the utmost in ocean comfort

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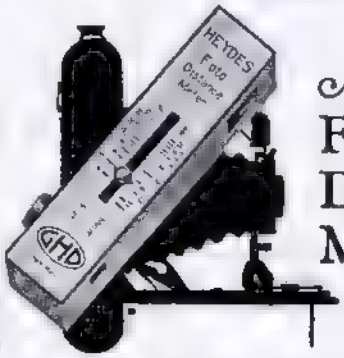

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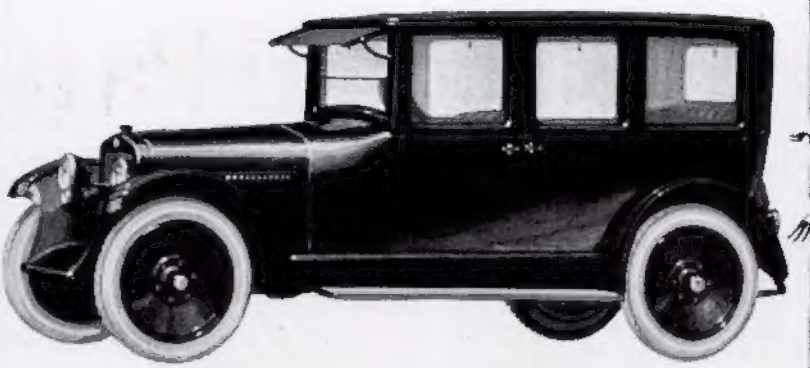

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11-22

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Ample time for delightful visits ashore.

Shore excursions optional.

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Owners cling to their Willys-Knight car for years with an enthusiasm that is almost affection. They prefer it to any other car at any price. They attain tremendous mileage with great economy, unhampered by motor adjustments.

A Buffalo manufacturer writes: "After some 75,000 miles of running, the engine and body are apparently in as good condition as when the car was bought."

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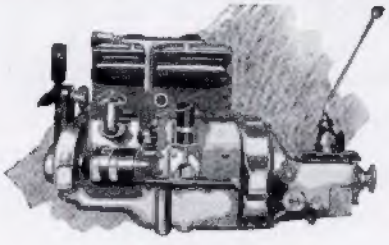

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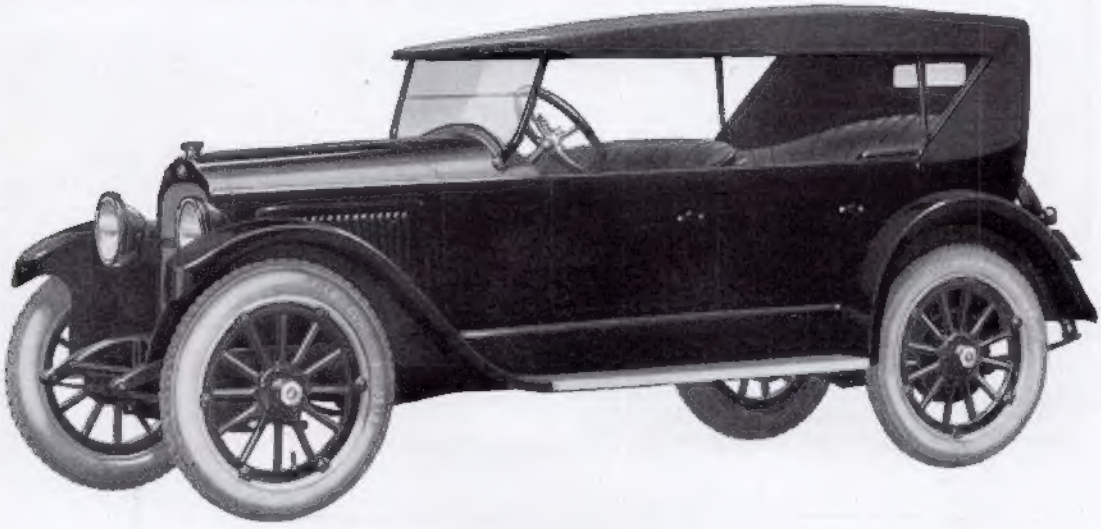
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